केन्द्रीय विद्युत विनियामक आयोग
Central Electricity Regulatory Commission

Diary Acknowledgement

Reference No.	1125/2024	**Reference Date**	22/11/2024
Diary No.	943/2024	**Diary Date**	Nov 22, 2024, 6:41 PM
Petition Type	Generation Tariff	**Region**	North
Subject Keyword			
Subject	Petition Under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-III of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 and Chapter-3, Regulation-13 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for revision of tariff of National Capital Thermal Power Station Dadri, Stage-I (840 MW) for the period from 01.04.2019 to 31.03.2024 after the truing up exercise.		
Status	Preliminary Scrutiny Before Registration		

Petitioner Details

Name	Mobile	Email
NTPC Limited NTPC	9650990236	aspandey@ntpc.co.in

Respondent Details

S. No.	Name	Mobile	Email
1	UTTAR PRADESH POWER CORPORATION LIMITED 'UPPCL'	9415005911	spatcircle2010@gmail.com
2	BSES Rajdhani Power Limited 'BRPL'	9313818851	megha.bajpeyi@relianceada.com
3	BSES YAMUNA POWER Ltd. 'BYPL'	8010618255	sameer.singh@relianceada.com
4	Tata Power Delhi Distribution Limited 'TPDDL'	9971393919	anurag.bansal@tatapower-ddl.com
5	HARYANA POWER PURCHASE CENTRE 'HPPC'	9316274614	cehppc@uhbvn.org.in
6	Rajasthan Urja Vikas Nigam Limited 'RUVNL'	8769425633	sn.ra.ruvnl@rajasthan.gov.in
7	GUJARAT URJA VIKAS NIGAM LIMITED 'GUVNL'	7069009629	decsp.guvnl@gebmail.com
8	ASSAM POWER DISTRIBUTION COMPANY LIMITED 'APDCL'	8761049486	acecomt.aseb@gmail.com
9	U.P. POWER TRANSMISSION CORPORATION LIMITED 'UPPTCL'	9415900470	director_comm@upptcl.org

Dear Sir / Madam,

Your petition has been submitted successfully. Kindly refer the above mentioned diary number for future correspondence.

For CENTRAL ELECTRICITY REGULATORY COMMISSION

Nov 26, 2024, 11:55 AM

Summary of Issues: National Capital Thermal Power Station Dadri, Stage-I (4x210 MW)

(In compliance with CERC notice dated 07.06.2024)

The major highlights of the Dadri-I (840 MW) Truing up petition are as follows:-

The present petition is being filed under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-III of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 and Chapter-3, Regulation-13 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for revision of tariff of National Capital Thermal Power Station Dadri, Stage-I (4x210MW) for the period from 01.04.2019 to 31.03.2024 after the truing up exercise based on actual expenditures as on 31.03.2024.

The instant station is located at Gautam Budh Nagar District, Uttar Pradesh and comprises of four units of 210 MW each with their respective COD's as 01.01.1993, 01.02.1994, 01.04.1995 and 01.12.1996 for respective units serial sequentially.

Earlier the power generated from Dadri-I station was being supplied to various discoms as per MoP allocation including Uttar Pradesh Power Corp. Ltd. (UPPCL), Delhi Discoms (Tata Power (TPDDL), BSES Rajdhani (BRPL), BSES Yamuna (BYPL), New Delhi Municipal Corporation (NDMC)).

However, after relinquishment of respective allocated shares by Delhi Discoms from 2020-21 (by TPDDL, BRPL & BYPL) and 2021-22 (by NDMC) and reallocation by MoP, the power from the station is being currently supplied to Uttar Pradesh Power Corp. Ltd. (UPPCL), Gujarat Urja Vikas Nigam Ltd. (GUVNL) & Assam State Electricity Board (ASEB).

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Reason: ACCEPTANCE (Commercial)
Location: NTPC Limited

The tariff for instant station for the period from 01.04.2019 to 31.3.2024 was determined by the Hon'ble Commission vide order dated 14.04.2024 in Petition No. 439/GT/2020.

The tariff of Dadri-I station for the tariff period 2019-24 after the truing up exercise based on actual expenditures as on 31.03.2024 is annexed with the petition as per provisions of Regulation 13 of CERC Tariff Regulations 2019.

The actual Additional Capital Expenditure claimed on cash basis for the FY 2019-20, 2020-21, 2021-22, 2022-23 and 2023-24 are Rs 49.76 Cr, Rs (-) 0.67 Cr, Rs (-) 2.54 Cr, Rs. 1.07 Cr and Rs 9.20 Cr respectively amounting to total of Rs 56.72 Crores during the 2019-24 period. The same has been depicted year wise in Form 9A of the Appendix-I along with applicable regulations and justification for the claims. It is humbly requested to approve the actual Additional Capital expenditure during the period of 2019-24.

Hon'ble Commission may please allow the claims of water charges, capital spares and security expenses for the instant station as per actual, as claimed by the Petitioner in Form 3A of Appendix-I.

It is further mentioned that the instant station is a central government owned thermal power station which is of national importance. Safety and security of these nationally important infrastructure projects against any threat perception is a prime concern. The main security of these central government owned thermal power stations is provided by the Central Industrial Security Force (CISF). CISF is a statutory body set up under an Act of the Parliament of India and a central armed police force in India under the Ministry of Home Affairs (MHA) whose primary mission is to provide security to large

institutions like Dadri-I. Deployment of the CISF is done as per the security threat perception, survey and as per the guidelines of MHA. In addition to the CISF, certain security is provided by other local and national agencies for critically less sensitive locations as per the plant specific needs. In view of this Hon'ble Commission may please allow the claims of security expenses as per actuals as submitted in Form 3A. Duly Audited balance sheets (year wise) showing the Security expenses have been submitted along with the petition.

Hon'ble Commission may please allow the claims of Capital spares for the instant station, as claimed by the Petitioner in Form 3A of Appendix-I. It is submitted that the year wise capital spares in Form-17 for the 2019-24 period, on store issuance basis, is for the entire National Capital Thermal Power Station Dadri, consisting of both the stages Dadri-I (840 MW) & Dadri-II (980 MW). It is further submitted that the capital spares claimed in the instant petition in Form 3A of Appendix-I for Dadri-I is apportioned on the basis of installed capacity.

Emission Control (ECS) System has been installed in the instant station for controlling SOx emissions and the tariff for the same has been claimed as a separate stream under regulation 29 of Central Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2019 vide petition no. 119/GT/2023 which is based on actual expenditure for 2019-24 period. The order in the said petition has been reserved by the Hon'ble Commission vide hearing dtd. 30.09.2024. As per Tariff Regulations, 2019 the additional APC for this ECS system is NIL, however the actual APC as per OEM Guarantee Schedule is 0.14%. The present ECS system i.e. DSI based FGD is unique and is installed only in the present station in the country. Hon'ble Commission may please allow the additional APC for the system in tariff.

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In the light of above submission and as per the Petition being filed by the Petitioner for revision of tariff of National Capital Thermal Power Station Dadri, Stage-I (4x210 MW), The Hon'ble Commission may please approve revised tariff for the tariff period 2019-24 and supplementary tariff for ECS (DeSOx system) as per provision of Regulation 13 of Tariff Regulations 2019.

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Location: NTPC Limited

BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

PETITION NO.....

For Truing up in Petition No. 439GT/2020

IN THE MATTER OF : Petition Under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-III of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 and Chapter-3, Regulation-13 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for revision of tariff of **National Capital Thermal Power Station Dadri, Stage-I (840 MW)** for the period from **01.04.2019 to 31.03.2024** after the truing up exercise.

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Location: NTPC Limited

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Location: NTPC Limited

BEFORE THE CENTRAL ELECTRICITY REGULATORY COMMISSION

NEW DELHI

PETITION NO.....

For Truing up in Petition No. 439/GT/2020

IN THE MATTER OF : Petition Under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-III of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 and Chapter-3, Regulation-13 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for revision of tariff of **National Capital Thermal Power Station Dadri, Stage-I (840 MW)** for the period from **01.04.2019 to 31.03.2024** after the truing up exercise

Petitioner: : NTPC Ltd.
NTPC Bhawan
Core-7, Scope Complex
7, Institutional Area, Lodhi Road
New Delhi-110 003

Respondents

1. Uttar Pradesh Power Corp. Ltd. (UPPCL)
Shakti Bhawan
14, Ashok Marg
Lucknow – 226 001

2. Gujarat Urja Vikas Nigam Limited
Vidyut Bhavan, Race Course,
Vadodara – 390007

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Date: 2024
Reason: AGM
Location: NTPC Limited

3. Assam State Electricity Board (ASEB), Bijulee Bhawan, Paltan Bazar Guwahati - 781 001, Assam

4. BSES Rajdhani Power Ltd. (BRPL)
BSES Bhawan, Nehru Place
New Delhi-110019

5. BSES Yamuna Power Ltd. (BYPL)
Shakti Kiran Building
Karkardooma
Delhi-110092

6. Tata Power Delhi Distribution Ltd. (TPDDL)
Grid Substation, Hudson Road
Kingsway Camp, Delhi- 110009

7. New Delhi Municipal Corporation (NDMC)
Palika Kendra Building
Opposite Jantar Mantar, Parliament Street
New Delhi- 110001

8. Haryana Power Purchase Centre (HPPC)
Shakti Bhawan, Sector – VI,
Panchkula
Haryana – 134 109

9. Rajasthan Urja Vika Nigam Limited (RUVNL)
(on behalf of DISCOMs of Rajasthan),
Vidyut Bhawan, Janpath,
Jaipur 302 005

The Petitioner humbly states that

1) The Petitioner herein NTPC Ltd. (hereinafter referred to as 'Petitioner' or 'NTPC'), is a Government of India Company within the meaning of the

Companies Act, 1956. Further, it is a 'Generating Company' as defined under Section 2(28) of the Electricity Act, 2003.

2) The Petitioner is having power stations/ projects at different regions and places in the country. National Capital Thermal Power Station Dadri, Stage-I (4 x 210 MW) (hereinafter referred to as 'NCTPS-I') is one such station located in the State of Uttar Pradesh.

3) The power generated from NCTPS-I is being supplied to the respondents herein mentioned above.

4) Section 62 of Electricity Act, 2003 provides for determination of tariff by the Appropriate Commission for supply of electricity by a generating company. The Hon'ble Commission, under Section 79(1)(a) of Electricity Act, 2003, is vested with the jurisdiction to regulate the tariff of the Generating Companies owned or controlled by the Central Government.

5) The Hon'ble Commission has notified the Central Electricity Regulatory Commission (Terms & Conditions of Tariff) Regulations, 2019 (hereinafter 'Tariff Regulations 2019) which came into force from 1.4.2019 and specify the terms & conditions and methodology of tariff determination for the period from 01.04.2019 to 31.03.2024 under Section 62 & 79 of the Electricity Act, 2003.

6) Regulation 9(2) & 9(3) of CERC (Terms & Conditions of Tariff) Regulations 2019 provides as under:

"9. <u>Application for determination of tariff:</u>

"(2) In case of an existing generating station or unit thereof, or transmission system or element thereof, the application shall be made by the generating company or the transmission licensee, as the case may be, by 31.10.2019, based on admitted capital cost including additional capital expenditure already admitted and incurred up to 31.3.2019 (either based on actual or projected additional capital expenditure) and estimated additional capital expenditure for the respective years of the tariff period 2019-24 along with the true up petition

for the period 2014-19 in accordance with the CERC (Terms and Conditions of Tariff) Regulations, 2014.

(3) In case of emission control system required to be installed in existing generating station or unit thereof to meet the revised emission standards, an application shall be made for determination of supplementary tariff (capacity charges or energy charge or both) based on the actual capital expenditure duly certified by the Auditor."

7) In accordance with the above, Petition No. 439/GT/2020 for determination of tariff for NCTPS-I was filed before the Hon'ble Commission based on the admitted cost as on 31.03.2019.

The tariff for NCTPS-I for the period from 01.04.2019 to 31.3.2024 was determined by the Hon'ble Commission vide order dated 14.04.2024 in Petition No. 439/GT/2020.

8) Further, Petition No. 119/GT/2023 for determination of supplementary tariff on ODe of U#1, 2, 3 & 4 of Emission Control System implemented in the instant station has been filed vide affidavit dated 21.10.2022, on the basis of actual capital expenditure incurred for the said system from ODe to 31.03.2024.

9) The Petition No. 119/GT/2023 for supplementary tariff of ECS has been heard by Hon'ble Commission and the order has been reserved vide ROP for hearing dated 30.09.2024.

10) Further, Chapter-3, Regulation 13 of the Tariff Regulations 2019 provides as under:

"(13) Truing up of tariff for the period 2019-24

(1) The Commission shall carry out truing up exercise for the period 2019-24 along with the tariff petition filed for the next tariff period, for the following:

a) the capital expenditure including additional capital expenditure incurred up to 31.3.2024, as admitted by the Commission after prudence check at the time of truing up;

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b) the capital expenditure including additional capital expenditure incurred up to 31.3.2024, on account of Force Majeure and Change in Law.

(2) The generating company or the transmission licensee, as the case may be, shall make an application, as per Annexure-I to these regulations, for carrying out truing up exercise in respect of the generating station or a unit thereof or the transmission system or an element thereof by 30.11.2024.

.....

11) In line with the provisions quoted above, the Petitioner is filing this petition for truing up the additional capital expenditure for the control period 2019-24, based on admitted capital cost as on 01.04.2019 and actual capital expenditure incurred during the tariff period from 01.04.2019 to 31.03.2024.

12) As per para 8 of CERC order dated14.04.2024 in petition no. 439/GT/2020 the capital cost as on 31.3.2024 is Rs 170639.80 Lakh, as shown in Form-5. It is humbly submitted that the petitioner did not claim any additional capital expenditure in petition no. 439/GT/2020. In the present petition, the Petitioner has claimed additional capitalization under the regulatory provisions of CERC Tariff Regulations-2019 for truing up of tariff. The difference in additional capitalization amounting to Rs 5,672.10 Lakh wrt earlier add-cap has been adjusted to arrive at the capital cost as on 31.3.2024, as shown in Form-9A. Hon'ble Commission may be pleased to take the same into consideration while approving the tariff of the instant station.

13) Further, as brought out at Para-8 above, the Petitioner has filed the petition for determination of supplementary tariff from ODe of ECS of individual units to 31.03.2024 based on actual expenditure. The said petition may be considered as the petition for truing up of supplementary tariff also, as the part and parcel of the instant petition. Accordingly, the supplementary truing up forms for ECS are not being attached for the sake of convenience and brevity. However, the Petitioner craves liberty to amend the instant petition at later date for truing up of supplementary Charges for the above said period, if such direction is issued

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by Hon'ble Commission while determining the Supplementary Tariff in Petition No. 119/GT/2024.

14) The year wise actual capital expenditure has been indicated and enclosed as part of **Appendix-I** herewith. In addition to the actual additional capital expenditure as above, discharge of liabilities during the period from 01.04.2019 to 31.03.2024 (year wise) out of the liabilities excluded from capital cost for the works already allowed/ claimed have also been indicated.

15) Further, in accordance with the provisions of the Regulation-31 of Tariff Regulations 2019, for the purpose of computation of the Return on Equity, the base rate has been grossed up with the effective tax rate (MAT) applicable to NTPC at the end of respective financial years for the period 2019-24. The same is indicated in the Form-3 attached at **Appendix-I**.

16) Further, in accordance with the provisions of the Regulation-34 of Tariff Regulations 2019, for the purpose of computation of the Interest on Working Capital, the landed fuel cost (taking into account normative transit and handling losses) and gross calorific value of the fuel as per actual weighted average for the third-quarter of FY 2018-19, FY 2019-20, FY 2020-21, FY 2021-22 & FY 2022-23 is considered. Also, the rate of interest on working capital is considered at bank rate as on 1st April of each of the financial year during the tariff period of 2019-24. The same is indicated in the Form-O attached at **Appendix-I**.

17) It is submitted that some of the loans allocated to this station have been refinanced by taking new loans with lower rate of interest. As per Regulation 61(1) of Tariff Regulations 2019, the benefits of refinancing of loans has to be shared with the beneficiaries in the ratio of 50:50 (Beneficiaries: Generator). The same has been applied by adjusting the rate of interest of new loans while computing weighted average rate of interest. The adjustment in rate of interest for new loans has been done as illustrated below:

Rate of interest of existing loan: 8.000% (say)

Rate of interest of new loan for refinancing of existing loan: 6.000% (say)

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Rate of interest of new loan considered for computing weighted average rate of interest: 7.000%.

18) It is relevant to submit that the Petitioner has filed Appeal before the Hon'ble Appellate Tribunal for Electricity in respect of certain disallowed claims by Hon'ble Commission. It is humbly submitted that the Petitioner reserves the right to approach this Hon'ble Commission and/or file amended Petition based on the outcome of such Appeal and/or any subsequent appeal(s).

19) Furthermore, in case of any specific direction from this Hon'ble Commission related to additional capitalization or any other aspect, the same has been duly complied and suitable justification has been provided by the Petitioner in the instant Truing up Petition.

20) Hon'ble Commission vide tariff order dated 14.04.2024 in tariff petition 439/GT/2020 for the instant station at Para 24 has allowed the truing up of water charges, which has been allowed by the Hon'ble Commission in the instant order based on actual/projections. Accordingly, the details for actual water charges are being submitted in the instant petition.

21) It is submitted that Hon'ble Commission at para 29 in its order dated 14.04.2024 in petition no. 439/GT/2020 has allowed the consideration of the claim on merits towards capital spares consumption at the time of truing up. Accordingly, the same has been claimed in Form-3A of the attached Appendix-I. The details of the year wise capital spares consumed have been provided in Form-17 of the attached Appendix-I. It is prayed before Hon'ble Commission to consider the same and allow the expenditure on capital spares consumption as claimed under Regulation 35(1)(6) of the 2019 Tariff Regulations.

22) It is further submitted that in petition no. 439/GT/2020 for the instant station, the claim against security expenses had been claimed by the petitioner on estimated basis, and the same has been considered by Hon'ble Commission subject to truing up in its order dated 14.04.2024 in the said petition. The details of actual security expenses has been provided in Form-3A of the attached

Appendix-I. It is prayed before Hon'ble Commission to consider the same and allow the expenditure on security expenses as claimed under Regulation 35(1)(6) of the 2019 Tariff Regulations."

23) As per **directions** of Hon'ble Commission vide para 53 of order dtd. 14.04.2024 in 439/GT/2020, the reply to the ROP for hearing dtd. 06.12.2023 is being provided below.

24) It is submitted that this Hon'ble Commission in Record of Proceedings for hearing dtd. 06.12.2023 directed the Petitioner to file the following additional information:

(a) *The reasons for claiming loss in GCV, between GCV billed and GCV received, around 1000-1700 kCal / kg and actions taken thereof along with supporting documents to address the same i.e. no. of samples challenged, success rate, correspondence made with CIL, Third party, Railways etc;*

(b) *The annual average 'GCV as billed' and 'GCV as Received' of coal in years 2018-19, 2019-20, 2020-21, 2021-22 and 2022-23*

(c) *The GCV of opening stock, GCV of coal as received exclusive of opening stock and GCV of coal as received inclusive of opening stock for each month.*

(d) *The detailed computation sheet (excel sheet based on third-party sample reports with links and formulae) in arriving at 'GCV of domestic coal received' claimed in each month along with details of GCV as Received (EM), GCV as received (TM) and Moisture and a copy of all third-party reports pertaining to respective month.*

(e) *The reasons for claiming GCV as received on a 'TM basis' instead of 'EM basis'.*

(f) *The relevant clauses of FSA associated with grade slippage and excess moisture, including recovery of penalty, challenging sample and the policy of Petitioner company on issues associated with quality of coal. In case no action has been taken, the reasons thereof,*

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(g) *Month-wise grade slippage and excess moisture of coal received for the subject three months and segregated credit note and debit note received from coal company on account of excess moisture and grade slippage along with supporting documents including bills, bill settlement, etc;*

(h) *The detailed breakdown of adjustment in coal charges claimed of Rs.1144821732.89 in October 2018 and Rs. 87507932.63 in November 2018, along with reasons and supporting documents for such claim.*

25) In terms thereof, the Petitioner is submitting the following information by way of additional submissions as directed by this Hon'ble Commission.

Re: **The reasons for claiming loss in GCV, between GCV billed and GCV received, around 1000-1700 kCal / kg and actions taken thereof along with supporting documents to address the same i.e. no. of samples challenged, success rate, correspondence made with CIL, Third party, Railways etc;**

26) The petitioner humbly submits that the rake wise details of GCV of coal (as received) for the coal received for the months of Oct-18, Nov-18 & Dec-18 in form of linked excel files along with all CIMFR (coal testing agency) reports is being attached as **Annexure-1** & **Annexure-2** respectively.

27) The petition further humbly submits that in month of Dec-19, GCV as billed value in excel file row no. 192 (R.R. No 1505) is a typographical error. It should be 4301 kCal/kg corresponding to which GCV as billed for the month would be 5013kCal/kg instead of 5414kCal/kg.

28) With regard to difference in 'GCV as billed' and 'GCV as received' it is submitted that 'GCV as billed is done at loading end on Equilibrated (EQ) basis whereas 'GCV as received' is at unloading end and on Total Moisture (TM) basis. One of the reasons of the gap is the presence of surface moisture in the coal, as received, leading to difference in GCV w.r.t. the GCV measured at EQ basis at loading end.

29) It is also submitted that as coal is heterogeneous in nature, the samples collected at loading end and at unloading end may differ in characteristics leading to difference in GCV. It is also submitted that at many instances for the coal received for the said three months i.e. Oct-18, Nov-18 & Dec-18, the GCV

received at unloading end (at EQ basis) has been observed to be more than the GCV measured at loading end on EQ basis. This is one of the example of heterogeneity of coal being transported from mine end to the station end. Few of such instances are being produced at **Annexure-3**.

30) It is further submitted that there is possibility of loss of Volatile matter in coal during transportation, especially for non-pit head stations where coal is brought from distant mines. This also causes reduction in GCV of coal. It may be mentioned that the National Capital Thermal Power Station Dadri of the petitioner is a non-pithead station and loss of VM during transportation is one of reasons for gap in GCV.

31) The Petitioner humbly submits that presently, the supply and transportation of coal is through the entities which are essentially monopolistic. However, the generating company has made all possible efforts to reduce the grade slippage, such as carrying out third party sampling as per GOI guidelines. However, the grade slippage during transit is beyond the reasonable control of the Petitioner and the commercial settlement for procurement of coal is based on the declared Grade of mines (i.e. GCV of declared grade), as per terms and conditions of the FSA.

32) Without prejudice to the above, the petitioner humbly submits that the issue of significant gap in GCV of coal between loading and unloading end has been raised by the Petitioner to the sampling agency i.e. CSIR-Central Institute of Mining and Fuel research which is a constituent laboratory of Council of Scientific & Industrial Research (CIMFR), an autonomous government body. One such letter is attached as **Annexure-4**.

Re: The annual average 'GCV as billed' and 'GCV as Received' of coal in years 2018-19, 2019-20, 2020-21, 2021-22 and 2022-23.

33) Petitioner submits that annual average 'GCV as billed' and 'GCV as Received' of coal in years 2018-19, 2019-20, 2020-21, 2021-22 and 2022-23 are enclosed as **Annexure-5** as per directions of this Hon'ble Commission.

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Re: The GCV of opening stock, GCV of coal as received exclusive of opening stock and GCV of coal as received inclusive of opening stock for each month.

34) The data as sought by Hon'ble Commission is attached as **Annexure-5**.

Re: The detailed computation sheet (excel sheet based on third-party sample reports with links and formulae) in arriving at 'GCV of domestic coal received' claimed in each month along with details of GCV as Received (EM), GCV as received (TM) and Moisture and a copy of all third-party reports pertaining to respective month.

35) The computation sheet as sought by Hon'ble Commission is attached as **Annexure-1** & copy of third-party sampling reports i.e. CIMFR reports for the rakes as per computation sheet attached as **Annexure-2**.

Re: The reasons for claiming GCV as received on a 'TM basis' instead of 'EM basis'.

36) It is submitted that the GCV at 'Total Moisture' basis provides the heat value for coal, as being used for generation, whereas the GCV at 'Equilibrated basis' provides the GCV of coal measured in controlled condition (60% RH & 40 deg C temp.). As far as GCV 'As received' is concerned, it is the GCV of coal at unloading end (i.e. at generating station end), and its heat value has the relevance as the energy available to generate electricity. It is GCV of coal at 'TM' basis which is actual energy input available for electricity generation, by conversion of its chemical energy into thermal energy, subsequently to mechanical energy as per Rankine cycle to generate electricity. The heat value of coal at Equilibrated basis shall not be the actual heat value at energy ingate for electricity generation, as it does not account for surface moisture of coal which itself consumes some energy to evaporate while coal burning thereby reducing energy actually available for power generation. Therefore, the GCV at 'EM basis' will be a misnomer, in view of the energy conversion, as the consumption of coal (in quantity terms) and/or specific coal consumption shall depend upon the actual heat available per kg of fuel. We can understand the

difference in heat value of coal measured on 'TM' basis as well as 'EM' basis as below:

Comparison of GCV at TM vs EM basis

As per IS-1350, Proximate analysis of coal is as below (assume)			
Constituent	Percentage(%)	Constituent	Percentage(%)
EM	6	TM	13
Ash	26.74	Ash	24.75
VM	28.1	VM	26.01
Fixed Carbon	39.16	Fixed Carbon	36.24
	100		100
GCV (Kcal/Kg)	3900	GCV (Kcal/Kg)	3610

Equivalent % of Ash/VM & FC in coal at TM basis

Percentage on EM basis x (1-TM%)/(1-EM%)

The above analysis of coal depicts that when coal is used with total moisture, the constituents of coal like Ash, Fixed Carbon, VM get prorated for 100%. It means the effect of VM & Fixed Carbon on calorific value (kCal/per kg) of coal shall be less in this case of Total Moisture wrt that on EM basis. In the above illustration of GCV on 'EM' basis and corresponding GCV on 'TM basis', it is evident that if GCV at 'EM' basis shall be considered for the basis of energy input, approx. 290 Kcal/kg of additional heat value will be considered for coal, which is not available for coal being used for generation in its actual form. Further, the specific coal consumption and total coal consumption shall lead to less than actual values, causing loss to the generator in recovery of coal cost through tariff.

In view of the same, for reasonable recovery of fuel cost and interest on working capital through tariff, GCV should be considered on 'TM basis', and not on 'EM basis'.

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Location: NTPC Limited

37) It is further submitted that the normative Station Heat rate of the instant station (for 210 MW units) has been decided based on past years data of actual Heat rate of the station/unit(s). The actual heat rate is dependent on the coal, as fired to the boiler (with Total Moisture). Accordingly, the GCV to be considered for Energy Charge rate needs to be on TM basis.

38) With the introduction of the 'as received GCV' (i.e. GCV at unloading end) in the regulatory framework (in CERC Tariff Regulations-2014), the energy ingate for the power generation has been shifted from the burner tip to the plant boundary, and GCV 'as received' has been considered for computation of Energy Charges rate as well as for Working Capital. This itself indicates that the 'as received' has been considered on the same platform as that of 'as fired' GCVs, and that can be nothing but on 'Total Moisture' basis.

39) Regulation-43 of CERC Tariff Regulations-2019 provides as below:

Quote

43. Computation and Payment of Energy Charge for Thermal Generating Stations

(1) The energy charge shall cover the primary and secondary fuel cost and limestone consumption cost (where applicable), and shall be payable by every beneficiary for the total energy scheduled to be supplied to such beneficiary during the calendar month on ex-power plant basis, at the energy charge rate of the month (with fuel and limestone price adjustment). Total Energy charge payable to the generating company for a month shall be:

Energy Charges = (Energy charge rate in Rs/kWh) x (Scheduled energy (exbus) for the month in kWh)

(2) Energy charge rate (ECR) in Rupees per kWh on ex-power plant basis shall be determined to three decimal places in accordance with the following

formulae: (a) For coal based and lignite fired stations, ECR = {(SHR – SFC x CVSF) x LPPF / (CVPF + SFC x LPSFi + LC x LPL)} x 100 /(100 – AUX)

....

Energy charge rate (ECR) in Rupees per kWh on ex-power plant basis shall be determined to three decimal places in accordance with the following formulae:

(a) For coal based and lignite fired stations ECR = {(GHR – SFC x CVSF) x LPPF / CVPF+SFC x LPSFi + LC x LPL} x 100 / (100 – AUX)

...

Where,

AUX =Normative auxiliary energy consumption in percentage.

CVPF = (a) Weighted Average Gross calorific value of coal as received, in kCal per kg for coal-based stations less 85 Kcal/Kg on account of variation during storage at generating station;

.....

Unquote

Further, as per Regulation- 10(31) of CERC Tariff Regulations-2019

Quote

"(31) 'GCV as Received' means the GCV of coal as measured at the unloading point of the thermal generating station through collection, preparation and testing of samples from the loaded wagons, trucks, ropeways, Merry-Go-Round (MGR), belt conveyors and ships in accordance with the IS 436 (Part-1/ Section 1)- 1964;"

Provided that the measurement of coal shall be carried out through sampling by

third party to be appointed by the generating companies in accordance with the guidelines, if any, issued by Central Government.

Unquote

It is submitted that IS-1350, Part-II provides for analysis of coal sampled as per the methodology provided in IS 436. As per IS-1350, the computation of 'as received' GCV is provided as below:

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Q1= Qx(100-M1)/(100-M).

Where,

M- percentage of moisture on Air-dried basis.

M1- percentage of moisture on ' As received basis',

Q- Calorific value on Air dried basis, and

Q1- Calorific value on 'As received basis',

Accordingly, the 'as received' GCV as per the BIS IS-1350 is to be calculated on 'Total moisture' basis, making correction in GCV measured by 'EQ/Air dried' basis.

40) It is also submitted that the Hon'ble Commission has prescribed the formula similar to as provided in IS-1350, to arrive at GCV at TM basis, in various tariff orders for moisture correction while determining the tariff of 2014-19 period on projected basis, quoting as below:

Quote

"……*the Commission has decided to compute fuel components and the energy charges in the working capital by provisionally taking the GCV of coal on as "billed basis" and allowing an adjustment for total moisture as per the formula given as under:*

GCV X (1-TM)/(1 – IM)

Where GCV=Gross Calorific value of coal,

TM=Total moisture IM= Inherent moisture."

Unquote

(e.g. Simhadri Stage-I (order dated 27.6.2016 in Petition No. 270/GT/2014), Vindhyachal STPS Stage-II (order dated 6.2.2017 in Petition No. 327/GT/2014), Mauda Stage-I (order dated 11.2.2017 in Petition No. 328/GT/2014), Ramagundam Stage-I & II (order dated 24.1.2017 in Petition No. 292/GT/2014), Rihand STPS Stage-III (order dated 6.2.2017 in Petition No. 372/GT/2014) etc.

This way, Hon'ble Commission has also recognized the fact that the GCV of coal for Working Capital is to be considered on 'total moisture' basis.

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Location: NTPC Limited

41) Regulation-34 of CERC Tariff Regulations 2019 provides for cost of primary fuel (Coal) as under:

Quote

"34. Interest on Working Capital:

(1) The working capital shall cover:

(a) For Coal-based/lignite-fired thermal generating stations:

(i) Cost of coal or lignite and limestone towards stock, if applicable, for 10 days for pit-head generating stations and 20 days for non-pit-head generating stations for generation corresponding to the normative annual plant availability factor or the maximum coal/lignite stock storage capacity whichever is lower."

Unquote

As per the above said regulation, the working capital shall comprise the coal as stocked and to be used for generation. It relates the cost for heat value of coal (primary fuel) as present in stock and as used for generation. As the primary fuel being kept in stock and/or as used for generation do not have GCV excluding surface moisture, but it is in its 'as is' form, the corresponding heat value shall be depictable by Gross Calorific Value on Total Moisture basis, and not on the lab derived GCV i.e. on equilibrated moisture basis.

42) It is submitted that the efficiency of Steam generator/Boiler is guaranteed by the OEM on the basis of loss method considering the calorific value of coal, as fired i.e. depending upon the energy input of the fuel at the firing point/burner of the boiler, and not based on the Equilibrated/Air dried GCV.

43) Hon'ble Commission has, therefore, rightly adopted the methodology for allowing the GCV after moisture correction (i.e. on TM basis) for allowing the working capital in various stations. Some of these orders are:

a. Simhadri Super Thermal Power Station Stage-II (order dtd. 11.01.2022) in Petition No. 293/GT/2020,
b. Simhadri Super Thermal Power Station Stage-I (order dtd. 22.02.2023) in Petition No. 292/GT/2020,
c. Farakka Super Thermal Power Station, Stage-I & II (1500 MW) (order dtd. 17.04.2023) in 698/GT/2020,

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Reason: [illegible]
Location: NTPC [illegible]

d. Korba STPS Stage-I&II (2100 MW) (order dtd. 16.04.2022) in 451/GT/2020,

e. Feroze Gandhi Unchahar Thermal Power Station Stage-I (420 MW) (order dtd. 01.10.2022 & 23.11.2023) in 302/GT/2020 read with 04/RP/2023.

44) It is also submitted that for Dadri-II station as per the order dated 21.05.2022 in Petition No. 190/GT/2020 read together with order dtd. 25.10.2023 in review petition no. 1/RP/2023 for 2014-19 control period and as per order dtd. 01.06.2022 in 02/GT/2021 for 2019-24 control period, Hon'ble Commission was pleased to determine the tariff considering GCV of coal on 'Total Moisture' basis for allowing the Working Capital. Therefore, it is humbly submitted that Hon'ble Commission may be pleased to allow the GCV on TM basis for computation of IWC for the instant station.

Re: The relevant clauses of FSA associated with grade slippage and excess moisture, including recovery of penalty, challenging sample and the policy of Petitioner company on issues associated with quality of coal. In case no action has been taken, the reasons thereof;

45) The details as sought by Hon'ble Commission is attached as **Annexure-7**. It is humbly submitted that the respective settlements for grade slippage and excess moisture are done at loading end as per FSA.

Re: Month-wise grade slippage and excess moisture of coal received for the subject three months and segregated credit note and debit note received from coal company on account of excess moisture and grade slippage along with supporting documents including bills, bill settlement, etc;

46) The petitioner humbly submits that grade slippage and excess moisture in coal is measured at loading point as governed by the FSA. Consequently, the financial settlements vis-à-vis grade slippage and excess moisture are made at loading point.

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Date: 2024
Reason: Authorisation
Location: NTPC Limited

47) Further, as per FSA agreement, credit / debit note is applicable if the grade difference is there from declared grade and monthly weighted average surface moisture in coal exceeds seven percent (7%) during the months from October to May and nine (9%) during the months from June to September. It is submitted that the values indicated in the landed cost in the auditor's certified Form-15 is inclusive of adjustment, if any, on above counts.

Re: The detailed breakdown of adjustment in coal charges claimed of Rs.114482172.89 in October 2018 and Rs. 87507932.63 in November 2018, along with reasons and supporting documents for such claim.

48) The data as sought by Hon'ble Commission is attached as **Annexure-8**.

49) The Petitioner humbly submits that Hon'ble Commission may be pleased to take the aforesaid information on record as a compliance to the ROP of hearing dated 06.12.2023 in petition no. 439/GT/2020.

50) **Additional APC for Emission Control System ECS (DSI based FGD System:** It is submitted that as per the Guarantee Schedule for ECS (DSI based FGD System) as furnished by the executing agency i.e. M/s Melco India, the auxiliary power consumption is 291.7 kW for operational requirement of DSI based FGD in one unit of 210 MW (i.e. 0.14 %). Copy of Guarantee Schedule as furnished by the party M/s Melco India is attached as **Annexure-9**. Accordingly, the Petitioner has considered additional APC of 0.14% for the purpose of tariff. Hon'ble Commission may be pleased to allow the increase in APC by 0.14% for the purpose of tariff in terms of Regulations 76 and 77 of the Tariff Regulations, 2019 which provides as under:

*"76. **Power to Relax**: The Commission, for reasons to be recorded in writing, may relax any of the provisions of these regulations on its own motion or on an application made before it by an interested person.*

*77. **Power to Remove Difficulty**: If any difficulty arises in giving effect to the provisions of these regulations, the Commission may, by order, make such provision not inconsistent with the provisions of the Act or provisions of other regulations specified by the Commission, as may appear to be necessary for removing the difficulty in giving effect to the objectives of these regulations."*

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Date: 2024
Reason: Authenticated
Location: NTPC Limited

51) Liberty to approach the Hon'ble Commission has also been granted for additional APC due to installation of Emission Control System vide order dtd. 17.11.2021 in petition no. 414/MP/2020 for in-principle approval. Relevant excerpts of the order dtd. 17.11.2021 are reproduced below.

Quote

102. The Petitioner has further prayed for additional APC, additional water consumption, additional O&M Expenses, cost of reagents, Gross Station Heat Rate (GSHR) and allow deemed availability on account of shutdown for installation of ECS under Regulation 76, i.e. Power to Relax of the 2019 Tariff Regulations. Some of the Respondents have raised their concerns on the said prayers of the Petitioner. The Petitioner in the case of TTPS has also prayed to not consider the supplementary variable charge for Merit Order Dispatch. As the instant petition is for "in-principle" approval of ACE towards installation of ECS, we do not deem fit to go into these prayers at this stage and we would consider them in petitions to be filed by the Petitioner under Regulation 29(4) of the 2019 Tariff Regulations after installation of ECS. However, we would like to point out that after filing of the instant petitions by the Petitioner and during the present proceedings, the Commission has introduced a separate tariff stream for ECS by amending the 2019 Tariff Regulations vide the 2020 Amendment Regulations. Accordingly, the Petitioner's prayer for additional APC, additional water consumption and additional O&M Expenses will be considered as per Regulation 49(E)(f), Regulation 35(1)(6) and Regulation 35(1)(7) of the amended 2019 Tariff Regulations respectively. The Petitioner's prayer for allowing cost of reagents, GSHR and deemed availability on account of shutdown will be dealt on a case to case basis on a petition under Regulation 29(4) of the 2019 Tariff Regulations.

Unquote

52) However, as per provisions of Regulation 49(E)(f)(1)(c) of Tariff Regulations, 2019, APC for Dry Sorbent Injection (DSI) System (using Sodium bicarbonate) for Sox control is envisaged as NIL.

53) The petitioner humbly submits that the APC for DSI system may please be allowed as per Guarantee Schedule as furnished by the OEM (attached as **Annexure-9**) in terms of Regulations 76 and 77 of the Tariff Regulations, 2019.

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Date: 2024
Reason: Approved
Location: NTPC Dadri

54) The petitioner humbly submits that Annual charges have been computed without considering the additional APC for DSI system in terms of Regulation 49(E)(f)(1)(c)) of Tariff Regulations, 2019. The petitioner humbly pleads that hon'ble Commission may please allow the tariff for Dadri-I station considering additional APC of 0.14% for DSI system.

55) The tariff calculation based on the above & other applicable provisions, in the formats provided in the **Appendix-I** of the Tariff Regulations 2019.

56) The filing fee for the tariff determination has already been paid for the period from 2019-24 as per provisions of CERC (Payment of Fees), Regulation 2012. Accordingly, no fee is payable along with this petition for revision of tariff.

Prayer

In the light of above submissions and submissions made in respect of the directions of the Hon'ble Commission in its order dated 14.04.2024 the Petitioner, therefore, prays that the Hon'ble Commission may be pleased to:

i) Approve revised tariff of NCTPS-I for the tariff period 2019-24 as per provision of Regulation 13 of Tariff Regulations 2019.

ii) Allow the reimbursement of water charges, capital spares and security expenses for the instant station, as claimed by the Petitioner.

iii) Allow the supplementary tariff for the Emission Control System (ECS) implemented in the instant station after truing-up.

iv) Consider additional APC of 291.7 kW (0.14%) for DSI based FGD as per the OEM Guarantee Schedule and tariff may be computed accordingly.

v) Pass any other order as it may deem fit in the circumstances mentioned above.

(Petitioner)

Noida

Date: 22.11.2024

Document verified by PARAS
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Date: 2024
Reason: Attested
Location: NTPC

BEFORE THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

PETITION NO.....

For True-up in Petition No- 439/GT/2020

IN THE MATTER OF : Petition Under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-III of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 and Chapter-3, Regulation-13 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for revision of tariff of **National Capital Thermal Power Station Dadri, Stage-I (840 MW)** for the period from 01.04.2019 to 31.03.2024 after the truing up exercise.

Petitioner : NTPC Ltd.
NTPC Bhawan
Core-7, Scope Complex
7, Institutional Area, Lodhi Road
New Delhi-110 003

Respondents:

1. Uttar Pradesh Power Corp. Ltd. (UPPCL)
   Shakti Bhawan
   14, Ashok Marg
   Lucknow -226 001

   And
   Others

I, Parimal Piyush, Son of Late Bharat Mishra, aged about 49 years, resident of INT-2004, Inspire, Eldeco Aamantran, Sector-119, Noida (UP), do hereby solemnly affirm and state as follows:

1. That the deponent is the Additional General Manager (Commercial) of the Petitioner NTPC Ltd.,and is well conversant with the facts and the circumstances of the case and therefore competent to swear this affidavit.

2. That the accompanying Petition under Section 62 and 79 (1) (a) of the Electricity Act, 2003, has been filed by my authorized representative under my

Shri PARIMAL PIYUSH
Additional General Manager (Commercial)
NTPC Limited

instruction and the contents of the same are true and correct to the best of my knowledge and belief.

3. That the contents of Para No. 1 to 56 as mentioned in the Petition are true and correct based on the my personal knowledge, belief and records maintained in the office.

4. That the annexures annexed to the Petition are correct and true copies of the respective originals.

5. That the Deponent has not filed any other Petition or Appeal before any other forum or court of law with respect to the subject matter of the dispute.

पीयूष परिमल/PARIMAL PIYUSH
अपर महाप्रबंधक (वाणिज्यिक)
Addl. General Manager (Commercial)
एन.टी.पी.सी. लिमिटेड/NTPC LIMITED
ईएनसी-ए बी, सेक्टर 24, नोएडा 201301 (उ.प्र.)

(Deponent)

Verification:

Verified at Noida on this 21st day of November 2024, that the contents of my above noted affidavit are true and correct to my knowledge and no part of it is false and nothing material has been concealed therefrom.

(Deponent)

पीयूष परिमल/PARIMAL PIYUSH
अपर महाप्रबंधक (वाणिज्यिक)
Addl. General Manager (Commercial)
एन.टी.पी.सी. लिमिटेड/NTPC LIMITED
ईएनसी-ए बी, सेक्टर 24, नोएडा 201301 (उ.प्र.)

NOTARY PUBLIC

ATTESTED

RAJKRISHNA [illegible]
Advocate (Notary)
No. [illegible]
SULTAN PUR (U.P.)

21 NOV 2024

TARIFF FILING FORMS (THERMAL)

FOR TRUING-UP OF TARIFF

FOR

National Capital Thermal Power Station Dadri, Stage-I

(From 01.04.2019 to 31.03.2024)

PART-I

APPENDIX-I

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Reason: [redacted]
Location: NTPC Limited

Checklist of Main Tariff Forms and other information for tariff filing for Thermal Stations

Form No.	Title of Tariff Filing Forms (Thermal)	Tick
FORM- 1	Summary of Tariff	✓
FORM -1 (i)	Statement showing claimed capital cost	✓
FORM -1 (ii)	Statement showing Return on Equity	✓
FORM-2	Plant Characteristics	✓
FORM-3	Normative parameters considered for tariff computations	✓
FORM-3A**	Statement showing O&M Expenses	✓
FORM-3B**	Statement of Ash Transportation Expenses	✓
FORM- 4	Details of Foreign loans	✓
FORM- 4A	Details of Foreign Equity	NA
FORM-5	Abstract of Admitted Capital Cost for the existing Projects	✓
FORM-5A**	Abstract of Claimed Capital Cost for the existing Projects	✓
FORM- 6	Financial Package upto COD	NA
FORM- 7	Details of Project Specific Loans	NA
FORM- 8	Details of Allocation of corporate loans to various projects	✓
FORM-9A**	Summary of Statement of Additional Capitalisation claimed during the period	✓
FORM-9##	Statement of Additional Capitalisation after COD	✓
FORM- 10	Financing of Additional Capitalisation	✓
FORM- 11	Calculation of Depreciation on original project cost	NA
FORM- 12	Statement of Depreciation	✓
FORM- 13	Calculation of Weighted Average Rate of Interest on Actual Loans	✓
FORM- 14	Draw Down Schedule for Calculation of IDC & Financing Charges	NA
FORM- 15##	Details of Fuel for Computation of Energy Charges	✓
FORM- 15A**##	Details of Secondary Fuel for Computation of Energy Charges	✓
FORM- 15B**	Computation of Energy Charges	✓
FORM- 16	Details of Limestone for Computation of Energy Charge Rate	NA
FORM-17	Details of Capital Spares	✓
FORM- 18	Non-Tariff Income	✓
FORM-19	Details of Water Charges	✓
FORM-20	Details of Statutory Charges	✓

PART-I

List of Supporting Forms / documents for tariff filing for Thermal Stations

Form No.	Title of Tariff Filing Forms (Thermal)	Tick
FORM-A	Abstract of Capital Cost Estimates	NA
FORM-B	Break up of Capital Cost for Coal/Lignite based projects	NA
FORM-C	Break up of Capital Cost for Gas/Liquid fuel based Projects	NA
FORM-D	Break-up of Construction/Supply/Service packages	NA
FORM-E	Details of variables, parameters, optional package, etc. for New Project	NA
FORM-F	Details of cost over run	NA
FORM-G	Details of time over run	NA
FORM –H	Statement of Additional Capitalisation during end of the useful life	NA
FORM –I##	Details of Assets De-capitalised during the period	✓
FORM –J	Reconciliation of Capitalisation claimed vis-a-vis books of accounts	✓
FORM –K##	Statement showing details of items/assets/works claimed under Exclusions	✓
FORM-L	Statement of Capital cost	✓
FORM-M	Statement of Capital Works in Progress	✓
FORM-N	Calculation of Interest on Normative Loan	✓
FORM-O	Calculation of Interest on Working Capital	✓
FORM-P	Incidental Expenditure up to SCOD and up to Actual COD	NA
FORM-Q	Expenditure under different packages up to SCOD and up to Actual COD	NA
FORM-R	Actual cash expenditure	NA
FORM-S	Statement of Liability flow	✓
FORM-T	Summary of issues involved in the petition	✓

** Additional Forms

Provided yearwise for the period 2019-24.

Documents verified by PARIMAL
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Date: 2024
Reason: Approved
Location: NTPC Limited

List of supporting documents for tariff filing for Thermal Stations		
S. No.	Information / Document	Tick
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Station setup by a company making tariff application for the first time to CERC)	NA
2	A. Station wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures on COD of the Station for the new station & for the relevant years	✓
	B. Station wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the existing station for relevant years	
3	Copies of relevant loan Agreements	NA
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package	NA
5	Copies of the Equity participation agreements and necessary approval for the foreign equity	NA
6	Copies of the BPSA/PPA with the beneficiaries, if any	NA
7	Detailed note giving reasons of cost and time over run, if applicable	NA
	List of supporting documents to be submitted	
	a. Detailed Project Report	
	b. CPM Analysis	
	c. PERT Chart and Bar Chart	
	d. Justification for cost and time Overrun	
8	Generating Company shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the Generating Unit wise /stage wise/Station wise/ and subsequently consolidated at Company level as submitted to the Govt. of India for first two years i.e. 2019-20 and 2020-21 at the time of mid-term true-up in 2021-22 and for balance period of tariff period 2019-24 at the time of final true-up in 2024-25. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	✓
9	Any other relevant information, (Please specify)	NA
10	Reconciliation with Balance sheet of any actual additional capitalization and amongst stages of a generating station	✓
11	BRMS is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BRMS. BRMS may modify the formats suitably as per available information to them for submission of required information for tariff purpose	NA

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Location: NTPC Limited

PART-I
FORM- 1

Summary of Tariff

Name of the Petitioner:	NTPC Limited
Name of the Generating Station:	National Capital Thermal Power Station Dadri, Stage-II
Place (Region/District/State):	Northern Region/ Gautam Budh Nagar / Uttar Pradesh

Amount in Rs. Lakhs

S. No.	Particulars	Unit	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8	9
1.1	Depreciation	Rs Lakh	2,423.22	3,618.24	5,763.53	979.73	492.35	655.72
1.2	Interest on Loan	Rs Lakh	0.00	4.21	3.31	0.00	0.00	0.00
1.3	Return on Equity	Rs Lakh	16,783.07	16,091.47	16,229.77	16,325.44	9,379.59	9,508.54
1.4	Interest on Working Capital	Rs Lakh	10,160.61	8,523.13	8,634.75	8,427.29	6,367.44	35,350.80
1.5	O&M Expenses	Rs Lakh	20,310.57	20,647.90	30,947.30	32,783.02	33,663.32	34,702.54
1.6	Special Allowance (if applicable)	Rs Lakh	2,014.79	2752.95	5365.00	7560.00	7560.00	7560.00
1.7	Compensation Allowance (if applicable – allowed for column 4 only)	Rs. Lakh	930.00					
	Total	Rs Lakh	**58333.28**	**62109.13**	**67578.10**	**63799.46**	**59462.56**	**83582.73**
2.1	Landed Fuel Cost of coal as per FSA approved by beneficiaries	Rs/Ton	4866.37	5135.17	5172.35	4931.96	4390.39	5096.51
	(%) of Fuel Quantity	(%)	100.00	100.00%	96.32%	95.62%	94.97%	94.71%
2.2	Landed Fuel Cost of Imported Coal as per FSA approved by beneficiaries	Rs/Ton	N/A					
	(%) of Fuel Quantity	(%)	N/A					
2.3	Landed Fuel Cost of coal other than FSA	Rs/Ton	N/A					
	(%) of Fuel Quantity	(%)	N/A					
2.4	Landed Fuel Cost Imported Coal other than FSA	Rs/Ton	-	0.00	6294.52	5366.48	12554.61	19903.84
	(%) of Fuel Quantity	(%)	-	0.00	3.68%	4.38%	4.97%	5.29%
2.5*	Landed Fuel Cost (Biomass)	Rs/Ton	NA	0.00	7837.46	9097.37	7488.62	0.00
	(%) of Fuel Quantity	(%)	NA	0.00%	0.11%	0.00	0.06%	0.00%
2.6	Secondary fuel oil cost	Rs/Unit	0.00	0.00	0.00	0.00	0.00	0.00
	Energy Charge Rate ex-bus 2A, 2B, 2C, 2D	Rs/Unit	3.10	3.70	4.35	3.83	3.41	4.67

* Extra row added for Biomass as fuel

(Petitioner)

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Date: 2024 IST 14:29 IST
Reason: AGM (Commercial)
Location: NTPC Limited

PART-I
FORM- 10(i)

Name of the Petitioner:	NTPC Limited
Name of the Generating Station:	National Capital Thermal Power Station Dadri, Stage-I

Amount in Rs. Lakhs

Statement showing claimed capital cost – (A+B)

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Opening Capital Cost	1,70,639.20	1,75,615.62	1,75,548.76	1,75,284.41	1,75,391.52
2	Add: Addition during the year	5,218.79	371.64	250.14	283.18	1,040.72
3	Less: De-capitalisation during the year	-243.43	-582.10	-637.34	-183.02	-185.71
4	Less: Reversal during the year	-	-	-	-	-
5	Add: Discharges during the year	3.46	143.61	122.85	6.96	65.37
6	Closing Capital Cost	1,75,615.62	1,75,548.76	1,75,284.41	1,75,391.52	1,76,311.90
7	**Average Capital Cost**	**1,73,127.71**	**1,75,582.19**	**1,75,416.59**	**1,75,337.97**	**1,75,851.71**

Statement showing claimed capital cost eligible for RoE at normal rate (A)

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Opening Capital Cost	170639.20	175615.62	175548.76	175284.41	175391.52
2	Add: Addition during the year	5218.79	371.64	250.14	283.18	1040.72
3	Less: De-capitalisation during the year	-243.43	-582.10	-637.34	-183.02	-185.71
4	Less: Reversal during the year	0.00	0.00	0.00	0.00	0.00
5	Add: Discharges during the year	3.46	143.61	122.85	6.96	65.37
6	Closing Capital Cost	175615.62	175548.76	175284.41	175391.52	176311.90
7	**Average Capital Cost**	**173127.71**	**175582.19**	**175416.59**	**175337.97**	**175851.71**

Statement showing claimed capital cost eligible for RoE at weighted average rate of interest on actual loan portfolio (B)

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Opening Capital Cost	0.00	0.00	0.00	0.00	0.00
2	Add: Addition during the year	0.00	0.00	0.00	0.00	0.00
3	Less: De-capitalisation during the year	0.00	0.00	0.00	0.00	0.00
4	Less: Reversal during the year	0.00	0.00	0.00	0.00	0.00
5	Add: Discharges during the year	0.00	0.00	0.00	0.00	0.00
6	Closing Capital Cost	0.00	0.00	0.00	0.00	0.00
7	**Average Capital Cost**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

(Petitioner)

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Date: 2024
Reason: AOC
Location: NTPC Limited

PART-I

FORM- 1(6A)

Statement showing Return on Equity at Normal Rate

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I

Amount in Rs. Lakhs

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
	Return on Equity					
1	Gross Opening Equity (Normal)	84,928.56	86,421.30	86,401.25	86,321.94	86,354.68
2	Less: Adjustment in Opening Equity	-	-	-	33,736.62	33,736.62
3	Adjustment during the year	-	-	-	-	-
4	Net Opening Equity (Normal)	84,928.56	86,421.30	86,401.25	52,585.32	52,617.46
5	Add: Increase in equity due to addition during the year	1584.74	111.49	75.04	84.95	312.21
7	Less: Decrease due to De-capitalisation during the year	-70.03	-174.53	-191.35	-84.90	-55.71
8	Less: Decrease due to reversal during the year	0.00	0.00	0.00	0.00	0.00
9	Add: Increase due to discharges during the year	1.04	43.06	36.65	2.09	19.61
10	Net closing Equity (Normal)	86,421.30	86,401.25	86,321.94	52,617.46	52,893.57
11	Average Equity (Normal)	85,674.93	86,411.28	86,361.60	52,601.39	52,755.51
12	Rate of ROE (%)	18.782%	18.782%	18.782%	18.782%	18.782%
13	Total ROE	**16,091.47**	**16,229.77**	**16,220.44**	**9,879.59**	**9,908.54**

(Petitioner)

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Date: 2024 IST 14:29 IST
Reason: AGM (Commercial)
Location: NTPC Limited

PART-I
FORM- 1(iii)

Statement showing Return on Equity at Weighted Average Rate of Interest

Name of the Petitioner:	NTPC Limited
Name of the Generating Station:	National Capital Thermal Power Station Dadri, Stage-I

Amount in Rs. Lakhs

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
	Return on Equity @ Weighted Average Rate of Interest					
1	Gross Opening Equity (Normal)	0.00	0.00	0.00	0.00	0.00
2	Less: Adjustment in Opening Equity	0.00	0.00	0.00	0.00	0.00
3	Adjustment during the year	0.00	0.00	0.00	0.00	0.00
4	Net Opening Equity (Normal)	0.00	0.00	0.00	0.00	0.00
5	Add: Increase in equity due to addition during the year	0.00	0.00	0.00	0.00	0.00
7	Less: Decrease due to De-capitalisation during the year	0.00	0.00	0.00	0.00	0.00
8	Less: Decrease due to reversal during the year	0.00	0.00	0.00	0.00	0.00
9	Add: Increase due to discharges during the year	0.00	0.00	0.00	0.00	0.00
10	Net closing Equity (Normal)	0.00	0.00	0.00	0.00	0.00
11	Average Equity (Normal)	0.00	0.00	0.00	0.00	0.00
12	Rate of ROE (%)	9.98%	9.21%	8.67%	8.49%	8.49%
13	Total ROE	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

(Petitioner)

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Date: 2024 IST 14:29 IST
Reason: AOA
Location: NTPC Limited

PART-I
FORM-2

Plant Characteristics

Name of the Petitioner	NTPC Limited			
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I			
Unit(s)/Block(s)/Parameters	Unit-I	Unit-II	Unit-III	Unit-IV
Installed Capacity	210	210	210	210
Schedule COD as per Investment Approval				
Actual COD /Date of Taken Over (as applicable)	01.01.93	01.02.94	01.04.95	01.12.95
Pit Head or Non Pit Head	Non Pit Head			
Name of the Boiler Manufacture	BHEL			
Name of Turbine Generator Manufacture	BHEL			
Main Steams Pressure at Turbine inlet (kg/Cm2) abs1	NA			
Main Steam Temperature at Turbine inlet (oC) 1				
Reheat Steam Pressure at Turbine inlet (kg/Cm2) 1				
Reheat Steam Temperature at Turbine inlet (oC) 1				
Main Steam flow at Turbine inlet under MCR condition (tons /hr)2				
Main Steam flow at Turbine inlet under VWO condition (tons /hr)2				
Unit Gross electrical output under MCR /Rated condition (MW)2				
Unit Gross electrical output under VWO condition (MW)2				
Guaranteed Design Gross Turbine Cycle Heat Rate (kCal/kWhr)3				
Conditions on which design turbine cycle heat rate guaranteed				
% MCR				
% Makeup Water Consumption				
Design Capacity of Make up Water System (3)3				
Design Capacity of Inlet Cooling System(3)4				
Design Cooling Water Temperature (0C)				
Back Pressure Units Hg(ii)				
Steam flow at super heater outlet under BMCR condition (ton/hr)				
Steam Pressure at super heater outlet under BMCR condition (kg/Cm2)				
Steam Temperature at super heater outlet under BMCR condition (0C)				
Steam Temperature at Reheater outlet at BMCR condition (0C)				
Design / Guaranteed Boiler Efficiency (%) at 210 MW for Unit 1 to 4 / 490 MW for Unit 5 & 6 *4				
Design Fuel with and without Blending of domestic/imported coal				
Type of Cooling Tower	Natural Draft			
Type of cooling systems5	Closed circuit Natural Draft			
Type of Boiler Feed Pump6	Motor driven			
Fuel Details7				
Primary Fuel	Coal			
Secondary Fuel	LDO			
Alternate Fuels				
Special Features/Site Specific Features8	Make up water from upper Ganga canal			
Special Technological Features9				
Environmental Regulation related features10	ESP			
Any other special features	FGD implementation is in process			

1. At Turbine MCR condition
2. with 0% (No) make up and design Cooling water temperature
3. at TMCR output based on gross generation, 0% (Nil) makeup and design Cooling water temperature
4. With Performance coal based on Higher Heating Value (HHV) of fuel and at BMCR output
5. Closed circuit cooling, once through cooling, spray cooling, natural draft cooling, induced draft cooling etc.
6. Motor driven, Steam turbine driven etc.
7. Coal or natural gas or Naptha or liquid etc.
8. Any site specific feature such as Merry-Go-Round, Vicinity to sea, Treated makeup water systems etc. scrubbers etc. Specify all such
9. Any Special Technological feature like Advanced class F/A technology in Gas Turbines, etc.
10. Environmental Regulation related features like FGD, ESP etc.

(Petitioner)

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PIYUSH <parwan.piyush@ntpc.co.in>
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Date: 2024.[illegible] 14:29 IST
Reason: AGM (Commercial)
Location: NTPC Limited

PART-I
FORM- 3

Normative parameters considered for tariff computations

Name of the Petitioner:	NTPC Limited
Name of the Generating Station:	National Capital Thermal Power Station Dadri, Stage-I

(Year Ending March)

Particulars	Unit	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
Base Rate of Return on Equity at normal rat	%	15.50%	15.50%	15.50%	15.50%	15.50%	15.50%
Base Rate of Return on Equity on Add Capitalization at Weighted Average Rate of Interest on Loan	%	15.50	8.23%	7.43%	7.15%	7.83%	7.83%
Effective Tax Rate	%	21.55%	17.47%	17.47%	17.47%	17.47%	17.47%
Target Availability	%	85.00%	85.00%				
In High Demand Season	%	-	-	85.00%	85.00%	85.00%	85.00%
Peak Hours	%	-	-	85.00%	85.00%	85.00%	85.00%
Off-Peak Hours	%	-	-	85.00%	85.00%	85.00%	85.00%
In Low Demand Season(Off-Peak)	%	-	-	85.00%	85.00%	85.00%	85.00%
Peak Hours	%	-	-	85.00%	85.00%	85.00%	85.00%
Off-Peak Hours	%	-	-	85.00%	85.00%	85.00%	85.00%
Auxiliary Energy Consumption	%	8.50%	8.50%	8.50%	8.50%	8.50%	8.50%
Gross Station Heat Rate	kCal/kWh	2450.00	2430.00	2430.00	2430.00	2430.00	2430.00
Specific Fuel Oil Consumption	ml/kWh	0.50	0.50	0.50	0.50	0.50	0.50
Cost of Coal/Lignite for WC	in Days	60	45	45	45	45	45
Cost of Main Secondary Fuel Oil for WC	in Months	2	2	2	2	2	2
Fuel Cost for WC	in Months						
Liquid Fuel Stock for WC	in Months						
O&M Expenses	Rs lakh/MW	30.61	32.96	34.12	35.31	36.56	37.84
Maintenance Spares for WC	% of O&M	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%
Receivables for WC	in Days	60.00	45.00	45.00	45.00	45.00	45.00
Storage capacity of Primary fuel	MT	7.03 Lakh MT*					
SBI 1 Year MCLR plus 350 basis point	%	13.50%	12.05%	11.25%	10.50%	10.50%	12.00%
Blending ratio of domestic coal/imported coal							

*Combined Storage Capacity of Dadri Stage-I & II

(Petitioner)

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Reason: AGM (Commercial)
Location: NTPC Limited

Part-I
FORM-3A
ADDITIONAL FORM

Calculation of O&M Expenses

Name of the Company :	NTPC Limited
Name of the Power Station :	National Capital Thermal Power Station Dadri, Stage-I

Amount in Rs. Lakhs

S.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	7	8
1	**O&M expenses under Reg.35(1)**					
1a	Normative	27686.40	28660.80	29660.40	30710.40	31785.60
2	**O&M expenses under Reg.35(6)**					
2a	Water Charges	93.06	79.27	64.90	159.89	129.28
2b	Security expenses	1351.62	1381.84	1399.17	1416.72	1489.96
2c	Capital Spares	750.89	820.43	1068.55	756.31	1297.71
3	O&M expenses-Ash Transportation	0.00	0.00	0.00	0.00	0.00
	Total O&M Expenses	**29881.96**	**30942.35**	**32193.02**	**33043.32**	**34702.54**

(Petitioner)

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Date: 2024
Reason: AGM (Commercial)
Location: NTPC Limited

PART-I
FORM-3B
Additional Form

Computation of Special Allowance

Name of the Company :	NTPC Limited
Name of the Power Station :	National Capital Thermal Power Station Dadri, Stage-I

Rate of Special allowance @lakh/MW/year	9.5

(Rs. Lakh)

Unit No.	Capacity (MW)	Date of COD	Year of completion of useful life of 25 yrs.		Special Allowance as per Clause 28				
				Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	210	1-Jan-93	2017-18	2014.79	1995.00	1995.00	1995.00	1995.00	1995.00
2	210	1-Feb-94	2018-19	0.00	1995.00	1995.00	1995.00	1995.00	1995.00
3	210	1-Apr-95	2019-20	0.00	0.00	1995.00	1995.00	1995.00	1995.00
4	210	1-Dec-95	2020-21	0.00	0.00	0.00	1995.00	1995.00	1995.00
Year wise Total for the Station				2014.79	3990.00	5985.00	7980.00	7980.00	7980.00

(Petitioner)

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Date: 2024 IST 14:29 IST
Reason: AGM (Commercial)
Location: NTPC Limited

PART 1
FORM- 5

Abstract of Admitted Capital Cost for the existing Projects

Name of the Company :	**NTPC Limited**
Name of the Power Station :	**National Capital Thermal Power Station Dadri, Stage-I**

Last date of order of Commission for the project	**Date (DD-MM-YYYY)**	14-04-2024
Reference or petition no. in which the above order was passed	**Petition no.**	439/GT/2020
Following details (whether admitted and /or considered) as on the last date of the period for which tariff is approved, in the above order by the Commission:		
Capital cost as on 31.03.2024	**(Rs. in lakh)**	1,70,639.80
Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)		
Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)		634.38
Gross Normative Debt as on 31.03.2024		85,711.24
Cumulative Repayment as on 31.03.2024		85,711.24
Net Normative Debt as on 31.03.2024		-
Normative Equity as on 31.03.2024 (after adjustment as per 1st proviso to Reg. 18(3) of Tariff Regulations, 2019		51,191.94
Cumulative Depreciation as on 31.03.2024		1,47,370.57
Freehold land		6,894.72

(Petitioner)

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Date: 2024 IST 14:29 IST
Reason: AGM (Commercial)
Location: NTPC Limited

PART 1
FORM- 5A
ADDITIONAL FORM

Abstract of Claimed Capital Cost for the existing Projects

Name of the Company :	**NTPC Limited**
Name of the Power Station	**National Capital Thermal Power Station Dadri, Stage-I**

Reference of Final True-up Tariff Petition	**Affidavit dated**	21.11.2024
Capital Cost as on 31.03.2024 as per Hon'ble	**Rs. Lakhs**	1,70,539.80
Adjustment as per Para 12 i.e. Capital Cost as on 31.03.2024 as per this true-up petition		5,872.10
Following details as considered by the Petitioner as on the last date of the period for which final true-up tariff is claimed:		
Capital cost as on 31.03.2024	**(Rs. in lakh)**	1,76,311.90
Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)		-
Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)		2,090.49
Gross Normative Debt as on 31.03.2024		89,681.72
Cumulative Repayment as on 31.03.2024		89,503.48
Net Normative Debt as on 31.03.2024		178.24
Normative Equity as on 31.03.2024		52,893.57
Cumulative Depreciation as on 31.03.2024		1,51,644.46
Freehold land		7,146.62

(Petitioner)

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Date: 2024 IST 14:29 IST
Reason: AOA
Location: NTPC Limited

PART-I
FORM- 9A
Additional Form

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
COD	01-12-1995
For Financial Year	2019-24 (Summary)

Amount in Rs Lakh

Sl. No.	Head of Work /Equipment	ACE Claimed					Justification	Admitted Cost by the Commission, if any
		2019-20	2020-21	2021-22	2022-23	2023-24		
1	2	3	4	5	6	7	8	9
A.	Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate							
A.1	Claimed Allowed Items							
1	LAND FREEHOLD PLANT/OFFICE	46.02	159.56	25.66	21.62	0.00		
2	Upgradation of DDCMIS	3024.85	0.38	13.94				
3	Augmentation of Fire Detection and Protection System	302.05	65.17					
4	VFD system in ID Fans of Unit-II	239.24	-0.33					
5	Online Coal Analyser	136.28	84.30			0.00		
6	Raw coal bunker level monitoring system	31.08						
7	Biomass Handling Infrastructure Civil Work	37.63	10.39					
8	Replacement of Fire Tenders	100.77						
	Decap of Fire Tender			-30.07				
9	LED Electrification in Plant Area Stage-I	10.07	1.66	27.63	38.03			
	Decap of LED				-11.73			
10	Aerial Working Platform	22.42						
11	In-Motion Weigh Bridge	24.70						
12	Hazard Identification for Rectification in Critical Piping at Dadri I station	836.02	4.85					
	Decap against S.No. 12 above	-99.57						
13	Continuous Emission Monitoring System		-1.20					
14	Inert Gas Fire Extinguishing System		2.09					
15	COVID Hospital Infrastructure		9.23					
16	Peripheral drain & effluent treatment pit		14.76	0.46		-0.01		
17	PLC upgrade in Ash Mound Area			133.17			Pl. refer Form-9 of respective FYs.	
18	Turbine vibration analysis & diagnostic system				161.2	7.98		
19	ABT Meters				49.37			
	Decap corresponding to S.No. 3 above				-7.10			
20	Replacement of Circuit Breakers				38.23	151.59		
21	ACC Implementation work				2.06			
22	HMI upgradation with Cyber Security Features Unit-1&2				[illegible]			
	Decap against S.No. 22 above				[illegible]			
23	Replacement of Battery Charger				[illegible]			
24	Security System: CCTV Installation				[illegible]			

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Date: 2024.[illegible] IST
Reason: [illegible]
Location: NTPC Limited

PART-I
FORM- 9A
Additional Form

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
COD	01-12-1995
For Financial Year	2019-24 (Summary)

Amount in Rs Lakh

Sl. No.	Head of Work /Equipment	ACE Claimed					Justification	Admitted Cost by the Commission, if any
		2019-20	2020-21	2021-22	2022-23	2023-24		
1	2	3	4	5	6	7	8	9
A.	Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate							
25	Self Propelled articulated boom lift for CHP					72.57		
	Subtotal (A.1)	5111.93	357.16	175.66	269.16	855.76		
A.2	Capitalization of MBGAs	103.85	14.48	76.48	0.00	184.96		
A.3	Decap of MBGAs: Part of Capital Cost	-45.31	-473.52	-141.39	-33.25	-13.90		
A.4	Decap of Spares: Part of Capital Cost	-198.13	-156.58	-495.96	-149.77	-171.61		
	Total Claims	4972.35	-218.46	-387.20	100.15	855.00		
29	Discharge of Liability	3.46	143.61	122.85	6.95	65.37		
		-	-	-	-	-		
	Total (A)	4,975.815	-66.851	-264.351	107.109	920.377		
B.	Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of interest							
		-	-	-	-	-		
	Total (B)	-	-	-	-	-		
Total Add. Cap. Claimed (A+B)		4,975.815	-66.851	-264.351	107.109	920.377		

(Petitioner)

Documents verified by PARIMAL PRYUSH NTPC Limited

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Date: 2024.[illegible]7 14:28 IST
Reason: ACM (Commercial)
Location: NTPC Limited

PART 2
FORM 2

[illegible]

Name of the Petitioner	[illegible]
Name of the Generating Station	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

Sl. No.	Details of Work Management	Approving Authority	Sanctioned Estimate as approved vide	Last MOD Approval No.	Actuals Expenditure as per TOCAF	Actuals Expenditure as per [illegible]	Capital Spares	Spare Transmission Lines Unit 3	Explanations under which Violation	Justification	Amount in Rs Lakh Accepted Even by the Commission, if any
1	2				3	4	5=(3-4)	6	7	8	9
A	[illegible]										
B	[illegible]										
B.1	[illegible]										
1	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

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Date: 2024.[illegible]7 14:26 IST
Reason: AO(Commercial)
Location: NTPC Limited

PART-B
FORM-9

Tariff order Statement of recovery/refund pertaining to other units

Name of the Petitioner	Period / Quarter
Name of the Generating Station	Installed Capacity (Net/Gross Power Station basis) (Stage)
Unit	No. of Units
No. of Days in Year	Year

Sl. No.	Head of Work/ Expenditure	Agency to whom	Amount as shown on last bill	Amount adjusted in	Actual Claimed				Disqualifications under Regulations	Justification	Amount to be validated Verified by the Commission if any
					Amount taken as per Form-9	Amount discharged / Liability incurred as on [illegible]	Power Saved	SEC Variance w.r.t. Unit 3			
1	2				3	4	5=(3-4)	6	7	8	9
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

Discharged verified by PARDAN

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Date: 2024 [illegible] 17:14:20 IST
Reason: [illegible]
Location: NTPC Limited

PART II
FORM 9

Year wise Statement of Pending Liabilities as after only

Sl. No.	Nature of Work/ Expenditure	Agency/ Vendor	Amount as shown in last Audit Report	Amount adjusted/ to be adjusted	Action taken as per Audit Report	Action taken as reported by Ministry/ Department in Sec. 2	Total Amount	GNCTD Contribution (Col. 7)	Explanations under which it is pending	Justification	Amount to be paid Number Given by the Committee if any
1	2				3	4	5=(3+4)	6	7	8	9
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
9	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

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Reason: [illegible]
Location: NTPC Limited

PART B
FORM 5

Name of the Petitioner:
Name of the Generating Station:
Period:
Place of Hearing:

NTPC Limited
Kudgi Super Thermal Power Station Phase I
Stage I
Kudgi, Bijapur

Sl. No.	Head of Work Expenditure	Agency Name	Approved Estimate as per last tariff	Net DOC admitted by	Actual Cost as per Notified Capacity	Cost of Discharged Capacity included in Col. 2	Cash Expenditure	DOC Expenditure (Col. 3 - Col. 4)	Expenditure under Efficiency Incentive	Justification	Amount to be claimed Number Given by the Commission, if any
1	2				3	4	5=(3-4)	6	7	8	9
1.1	Hazardous substances by Health Code or Toxic Fumes or Gases Leakage		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	The project being a thermal power plant, handled many new hazardous substances, which are always at very high temperature and pressure. The main fuel of this plant is pulverized coal with calorific value of the coal plants. The boiler of these units is fired by coal through coal mills and burners. The GEA Safety Supplement for Contractors, Operation and Maintenance of Electrical Power Stations, Coal Handling etc. DC Investors Cut Fuel as the requirements of the employer to ensure safety to employees, including employees of contractor, such contractors are not as usual. GEA 3011 Regulations attached as Annexure 18 NTPC. In view of the mandate of the safety of workers the safety precautions are taken which includes adequate precautions and training to ensure that any accident or injury during work in the coal mills is minimized and may be avoided. The costs are based on these values taking to ensure the two complete changes in handling etc. which are used in future. The project management pertains to maintaining a culture of assessment and planned culture of these methods in order to have short to the effect, going up from a basic to deep complete of work and material and of compliance CEA 2010 regulations. In view of above, Hot Gas Contractors may be provided to all on the same.	
1.2	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	These [illegible] work modifications due to replacement of assets which were provided under original design. The old assets consumption and life are years old. Capitalization in other consumers may be provided to allow the capitalization of these [illegible] under frequency. [illegible] of Tariff Regulations, 2019 as capitalization is since the [illegible] were capitalized in the year the [illegible] of these assets were not recommended within the capital life of the Bus [illegible]	
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
4.1	Design of Boiler, Plant Capital Cost		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	These assets were part of capital cost, hence [illegible] accordingly the costs are [illegible]	
4.2	Design of Boiler, Plant Capital Cost		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	These were in excess part of capital cost, hence [illegible] were [illegible]. Accordingly the costs are [illegible]	
	Total Cost (A)		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
4.3	Discharge of Liability						[illegible]		[illegible]	[illegible]	
	Total additional capitalization claimed over and above Base (A)						[illegible]				
B	[illegible]										
	Total (B)										
Grand Total Cost (A+B)							[illegible]				

PART B

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Reason: AO(Commercial)
Location: NTPC Limited

PART-I
FORM- 9

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
COD	01-12-1990
For Financial Year	2020-21

Amount in Rs Lakh

Sl. No.	Head of Work/Equipment	Agency's Name	Accrual basis as per Ind AS	Ind AS Adjustment	ACE Claimed: Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC Include d in col. 3	Regulation under which claimed	Justification	Admitted Cost by the Commission, if any
1	2	3	4	5	6	7	8	9	10	11	12
B.	Works under Original scope, Change in Law etc. eligible for Roll up at Normal Rate										
A	Claims										
A.1	Commissioned Items										
1	Land Financial- Pipal Office		522.47	0.00	522.47	361.95	160.52	0.00	25(1)(a) & 25(1)(c)	Justification as provided in A.1 of form "5-19-20". Hon'ble Commission may be pleased to allow the capitalisation.	
2	Upgradation of OCS/AHS	Wipro	0.25	0.00	0.25	0.00	0.25	0.00	25(2)(c) 25(1)(a) read with reg. 25	Justification as provided in A.2 of form "5-19-20". Hon'ble Commission may be pleased to allow the capitalisation.	
3	Augmentation of Fire Detection and Protection System	Jaipur Fire Protection Cell Unit Installation Pvt Ltd	86.17	0.00	86.17	0.00	-86.17	0.00	25(1)(a)	Justification as provided in A.3 of form "5-19-20". Hon'ble Commission may be pleased to allow the capitalisation.	
4	Continuous Emission Monitoring System	Anasser Instrument Co Pvt Ltd	-1.75	0.00	-1.75	0.00	-1.75	0.00	25(1)(c)	Hon'ble Commission vide para 18 of order dtd. 04.07.2023 in petition no. 285/GT/2020 has allowed the work of Continuous Emission Monitoring System (CEMS). Present capitalisation pertains to cost adjustment of allowed work. Hon'ble Commission may be pleased to allow the same.	
5	Non Gas Fire Extinguishing System	Monsoon Control & Co	3.06	0.00	3.06	0.00	3.06	0.00	25(1)(b) & 25(1)(d)	Hon'ble Commission vide para 13 of order dtd. 04.07.2023 in petition no. 285/GT/2020 has allowed the work of Continuous Emission Monitoring System (CEMS). Present capitalisation pertains to payment on account of contract closing. Hon'ble Commission may be pleased to allow the same.	
6	COVID Hospital Infrastructure	Apollo Home Healthcare Limited	105.94	0.00	105.94	99.72	9.22	-0.00	25(1)(b) & 25(1)(d)	The present capitalisation pertains to setting up of COVID-19 treatment unit at present station. As the COVID-19 pandemic spread from 01 2019 to A 2020-21, mainly putting increased pressure on healthcare medical facilities, this unit was set up to cater to the needs for treatment of COVID-19 patients. Hon'ble Commission may be pleased to allow the present capitalisation.	
7	UPS system in 0 Zone of Unit 6	Clean Power Private Limited	-0.10	0.00	-0.10	0.00	-0.05	0.00	25(1)(d)	Justification as provided in A.4 of form "5-19-20". Hon'ble Commission may be pleased to allow the present cost adjustment.	
8	Online Coal Analyser	Real Time Instruments Pvt Ltd	96.35	0.00	96.35	0.00	96.35	0.00	25(1)(c)	Justification as provided in A.5 of form "5-19-20". Hon'ble Commission may be pleased to allow the capitalisation.	

Documents verified by PARIMAL PRYUSH NTPC Limited
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Date: 2024.[illegible]7 14:26 IST
Reason: ACM (Commercial)
Location: NTPC Limited

PART-I
FORM- 9

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
COD	01-12-1990
For Financial Year	2020-21

Amount in Rs Lakh

Sl. No.	Head of Work/Equipment	Agency's Name	Accrual basis as per Ind AS	Ind AS Adjustment	ACE Claimed: Accrual basis as per IGAAP	ACE Claimed: Un-discharged Liability included in col. 2	ACE Claimed: Cash basis	ACE Claimed: IDC include d in col. 2	Regulation under which claimed	Justification	Admitted Cost by the Commission, if any
1	2	3	4	5	6	7	8	9	10	11	12
9	Storage Handling Infrastructure Civil Work	Pragati Infra Contractors	19.60	0.00	19.60	0.26	19.26	0.00	26(1)(b) read with 19(2)(b)	Justification as provided in A 7 of form 9 19-20. Hon'ble Commission may be pleased to allow the capitalisation.	
10	LCD Electrolyzer at Plant area Stage-I		1.09	0.00	1.09	0.00	1.09	0.00	26(1)(b)	Justification as provided in A 8 of form 9 19-20. Hon'ble Commission may be pleased to allow the capitalisation.	
11	Peripheral Area Effluent treatment pit	Anil Kumar Jindal	16.00	0.00	16.00	1.25	14.75	0.00	26(1)(b)	As coal yard region area, rain water run-off carries effluents into storm water drain. However, as per condition mentioned in Consent to Operate (CTO) for the station for period 1.1.2020-31.12.2021, there should be no mixing of effluents with rain water. CTO attached as Annexure-10.8(11). In order to comply with the same proposal from for collecting water and effluents treatment pit has been capitalized. Hon'ble Commission may be pleased to allow the same.	
12	Hazard Identification for Modification in Critical Piping at Dadri station	NTPC SE Power Solution Limited	4.85	0.00	4.85	0.00	4.85	0.00	26(1)(b) & 26(1)(c)	Justification as provided in A 12 of form 9 19-20. Hon'ble Commission may be pleased to allow the capitalisation.	
	Subtotal (A-1)		819.27	0.00	819.27	462.12	357.15	0.00	0		
A-2	Capitalisation of MRO's	Various Parties	21.37	0.00	21.37	0.92	34.47	0.00	26(2)(a)	These MRO's were capitalised due to replacement of assets which were deployed under original scope. The old assets survived their useful life and were fully depreciated. Hon'ble Commission may be pleased to allow the capitalisation of these MRO's as per Regulation 26 (2) (a) of Tariff Regulation, 2019 as replacement of these MRO's were necessitated since the useful life of these assets were not commensurate with the useful life of the station.	
A-3	Decap of MRO's Part of Capital Cost		42.35	-379.85	-422.52	0.00	-422.52	0.00	26(2)	These assets were part of capital cost, have become unserviceable. Accordingly the same are decapitalized.	
A-4	Decap of Spares Part of Capital Cost		14.77	-200.81	-185.04	0.00	-185.04	0.00	26(2)	These spares were part of capital cost, have become unserviceable. Accordingly the same are decapitalized.	
	Total (Sum of A2+A3+A4)		78.49	-579.70	-658.19	492.04	-250.49	0.00			
	Discharge of Liability						142.51		26(1)(c)	Details given in Form 5, i.e., Liability Flow Statement.	
	Total additional capitalisation claimed with IDC as Annual Rate (%)						49.85				
B	Works beyond Original scope excluding add cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest										
	Total (B)										
Total Add. Cap. Claimed (A+B)							49.85				

(Petitioner)

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Reason: ACM (Commercial)
Location: NTPC Limited

PART-I
FORM- 9

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Delhi, Stage-I
COD	01-12-1995
For Financial Year	2021-22

Amount in Rs Lakh

Sl. No.	Head of Work /Equipment	Agency's Name	Accrual basis as per Ind AS	Ind AS Adjustment	ACE Claimed: Accrual basis as per IGAAP	ACE Claimed: Un-Discharged Liability included in col. 3	ACE Claimed: Cash basis	ACE Claimed: IDC included in Col. 3	Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
1	2	3	4	5	6	7	8	9	10	11	12
A	Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate										
A	Claims										
A.1	Claims/ Allowed Items										
1	Land Freehold- Plant Office		194.624	0.000	194.624	136.553	25.851	0.000	26(1)(a) & 26(1)(b)	Justification as provided in A.1 of form "9.15-26". Hon'ble Commission may be pleased to allow the capitalisation	
2	Decap of Fire Tender		-2.067	-18.993	-20.060	0.000	-20.060	0.000	26(2)	Justification as provided in A.8 of form "9.15-26". The present decap is against the Fire Tenders capitalized in FY 2019-20. Hon'ble Commission may be pleased to allow the same	
3	Upgradation of DDCMIS	DHEL	10.837	0.000	10.837	0.000	10.837	0.000	26(2)(i) Rule 11(d) read with reg.73	Justification as provided in A.2 of form "9.15-26". The present capitalisation pertains to payment on account of balance works Hon'ble Commission may be pleased to allow the capitalisation	
4	LED Electrification in Plant Area Stage-I		22.529	0.000	22.529	0.000	22.529	0.000	26(1)(b)	Justification as provided in A.10 of form "9.15-26". Hon'ble Commission may be pleased to allow the capitalisation	

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Reason: AGM(Commercial)
Location: NTPC Limited

PART-I
FORM- 9

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
COD	01-12-1995
For Financial Year	2021-22

Amount in Rs Lakh

Sl. No.	Head of Work /Equipment	Agency's Name	Accrual basis as per Ind AS	Ind AS Adjustment	ACE Claimed: Accrual basis as per IGAAP	ACE Claimed: Un-Discharged Liability included in col. 3	ACE Claimed: Cash basis	ACE Claimed: IDC included in col. 3	Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
1	2	3	4	5	6	7	8	9	10	11	12
A	PLC upgrade in Ash Mound Area	Sohner Systems India Pvt Ltd	133.130	0.000	133.130	0.000	133.130	0.000	25(1)(c)	The control system in ash mound area was PLC (Programmable Logic Control) based system which has become obsolete and no spares support was available. It has been replaced by DCS based control system for improving reliability of the system & to avoid issues regarding availability of spares of old system. A similar claim has been allowed by Hon'ble Commission vide para no. 21 of order dtd. 17.04.2023 in petition no. 698/GT/2020 wherein the Hon'ble Commission has recognized the role of updated DCS/MIS in efficient, reliable and safe operation of the plant and has affirmed that the said claim has been consistently allowed in other generating stations of the Petitioner as well as other generating companies e.g. in order dtd. 17.04.2023 in petition no. 696/GT/2020 where the Hon'ble Commission has itself recognized the role of updated control systems in efficient, reliable and safe operation of the plant and has affirmed that the said claim has been consistently allowed in other generating stations of the Petitioner as well as other generating companies. (Relevant excerpts of order dtd. 17.04.2023 attached as **Annexure-10-A/2**).	
B	Peripheral drain & effluent treatment pit	Anil Kumar Jindal	0.457	0.000	0.457	0.000	0.457	0.000	25(1)(b)	Justification as provided in A.11 of form "9.25-21". Present capitalisation is payment for balance work. Hon'ble Commission may be pleased to allow the capitalisation.	
	Subtotal (A+B)		20.200	-18.364	133.587	1.457	113.494	0.000			

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Reason: ACM (Commercial)
Location: NTPC Limited

PART-I
FORM- 9

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
COD	01-12-1995
For Financial Year	2021-22

Amount in Rs Lakh

Sr. No.	Head of Work /Equipment	Agency's Name	Accrual basis as per Ind AS	Ind AS Adjustment	ACE Claimed: Accrual basis as per IGAAP	ACE Claimed: Un-discharged Liability included in col. 3	ACE Claimed: Cash basis	ACE Claimed: IDC included in col. 3	Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
1	2	3	4	5	6	7	8	9	10	11	12
A.2	Capitalisation of MMOAs	Various Parties	37.960	6.080	31.580	7.280	24.480	-4.940	25(2)(a)	These MMOAs were capitalised due to replacement of assets which were deployed under original scope. The old assets outlived their useful life and were fully depreciated. Hon'ble Commission may be pleased to allow the capitalisation of these MMOAs as per Regulation 25 (2) (a) of Tariff Regulation, 2019 as replacement of these MMOAs were necessitated since the useful life of these assets were not commensurate with the useful life of the Station.	
A.3	Decay of MMOAs, Part of Capital Cost		-13.102	-138.234	-147.360	0.000	-147.360	0.000	25(2)	These assets were part of capital cost, have become unserviceable. Accordingly the same are decapitalised. Hon'ble Commission may be pleased to allow the same.	
A.4	Decay of Spares, Part of Capital Cost		-45.500	-452.437	-495.937	0.000	-495.937	0.000	25(2)	These spares were part of capital cost, have become unserviceable. Accordingly the same are decapitalised. Hon'ble Commission may be pleased to allow the same.	
	Total claim (A1+A2+A3+A4)		279.367	396.734	221.780	14.412	207.372	-4.940			
	Discharge of Liability						122.93		24(1)(b)	Details given in Form-6, i.e., Liability Flow Statement	
	Total additional capitalisation claimed with RoE at Normal Rate (A)						384.30				
B.	Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of interest										
	Total (B)				-	-	-	-			
Total Add. Cap. Claimed (A+B)							384.30				

(Petitioner)

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Date: 2024.[illegible]17.14:26:13 IST
Reason: ACE (Commercial)
Location: NTPC Limited

PART-4
FORM-9

Year-wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Delhi, Stage-I
COD	[illegible]
For Financial Year	2022-23

Amount in Rs Lakh

Sl. No.	Head of Work Equipment	ACE Claimed							Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		Agency's Name	Accrual basis as per Ind AS	Ind AS Adjustment	Accrual basis as per IGAAP	Un-discharged Liability included in sub. 3	Cash basis	IDC included in sub. 3			
1	2	3	4	5	6	7	8	9	10	11	12
A	Works under Original scope, Change in Law etc. eligible for RoE @ Normal Rate										
A.1	Claims										
A.1.1	Claimed Allowed items										
1	Laxmi Freebids- Field Office		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Justification as provided in A.1.1 of form 9 (b) 20 Hence Commission may be pleased to allow the capitalisation	
2	Turbine vibration monitoring & diagnostic system	Fortum Marketed Pvt. Ltd	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	When the units of instant station were commissioned in 1990s, no turbine supervisory system was installed in the units as the station was envisaged to run at rated capacity i.e. full load. However, recently due to recent developments wherein 50% of technical minimum load is being indicated upon, there have been frequent ramp up and ramp-downs. Due to the frequent changes in unit loading, turbine vibration analysis was suggested. Vibration is a necessity for monitoring the TG vibrations and its troubleshooting. CEA also in its Operating Procedure and Training Curriculum at 50% Minimum Technical Load of Thermal Generating Units issued in March 2021 has recognized the concept of non-availability of vibration monitoring instruments in units of initiating equipment as a common issue in achieving 50% technical minimum. (CEA extracts attached as Annexure-16 (b)). Hence, with frequent ramp ups and ramp-downs in unit load and with 50% technical minimum load, it becomes necessary that turbine vibration analysis and diagnostic system be installed in order to ensure safe running of units. Since the requirement of the project arises from issues caused due to new technical minimum schedule mandated by CEA, the Hon'ble Commission may be pleased to allow the present capitalisation.	
3	ABT Meters	Kumar Enterprises	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	The ABT system has been upgraded with the installation of new ABT meters with the accuracy class of 0.2s and having the data collection facility at 5 minutes interval, in sync with the SEM meters installed in line with CEA Metering Regulations. The upgradation/replacement of these meters was commenced in wake of the AGC implementation in Dadri after a successful running of the pilot project in Dadri units, and also due to the amendments in CERC Regulations incorporating the changes like sub-minute metering, metering for ancillary etc. As the monitoring and operation of the units are done by the grid operator keeping an eye on the real time values recorded through the ABT system, these meters play a vital role in supporting the grid with more accurate operation as well as more reliable response for AGC. As these meters have been installed in place of the secondary control data collectors with more accuracy & faster response and now providing operation as per CERC regulations and therefore not facing the regulatory risk, Hon'ble Commission may be pleased to allow the capitalisation under 'Change in Law'.	
	Cross corresponding to 2 lac Q above		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			

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Location: NTPC Limited

PART-4
FORM-9

Year-wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Delhi, Stage-I
COD	07-11-1983
For Financial Year	2022-23

Amount in Rs Lakh

Sl. No.	Head of Work Engagement	Agency's Name	Accrual basis as per Ind AS	Ind AS Adjustment	ACE Claimed: Accrual basis as per IGAAP	ACE Claimed: Un-discharged Liability excluded in col. 3	ACE Claimed: Cash basis	ACE Claimed: (DC indicated in col. 3)	Regulation under which claimed	Justification	Admitted Cost by the Commission, if any
1	2	3	4	5	6	7	8	9	10	11	12
4	Replacement of Circuit Breakers	Siemens Ltd	26.224	0.000	26.224	0.000	26.224	0.000	25(2)(c)	Old circuit breakers installed were of hydraulic operating mechanism which has been replaced by spring mechanism as mandated by Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2010. Relevant extracts of CEA Regulations, 2010 attached as Annexure-10-D(3). Hon'ble Commission may be pleased to allow the same.	
5	AGC implementation work	HCC India Limited	42.900	0.000	42.900	40.551	2.349	0.000	25(1)(c)	Hon'ble Commission vide its order dated 28.08.2014 in petition no.24/MP/2014 directed all ISGS stations to implement the AGC as per deadline given below: "24. In the interest of reliable and safe grid operation, the Commission directs that all the ISGS stations whose tariff is determined or adopted by CERC shall be AGC enabled and the ancillary services including secondary control through AGC be implemented as per the following timelines: i. All thermal ISGS stations with installed capacity of 200 MW and above and all hydro stations having capacity exceeding 25 MW excluding the Run of River Hydro Projects irrespective of age of the generating station and whose tariff is determined or adopted by CERC are allowed to install equipment at the earliest and no more than the required data for AGC as per the requirement to be notified by NLDC. NLDC shall notify the exact requirements within one month of this order. Copy of order dated 28.08.2014 is attached as Annexure-10-D(4). Accordingly, in compliance of directions of Hon'ble Commission, implementation of AGC was initiated at the instant station. Further, Hon'ble Commission has allowed additional capital expenditure incurred on implementation of AGC in Petition No. 585/GT/2020 vide its order dated 17.06.2021. Therefore, it is humbly requested that Hon'ble Commission may be pleased to allow the same as the instant station under Regulation 25 (1)(c) of Tariff Regulations, 2019.	
6	LED Electrification at Thermal New Stages-I	Signify innovation India Limited, Energy Efficiency Services Limited, Surya Quality Limited	36.535	0.000	36.535	0.000	36.535	0.000	24(1)(a)	Justification as provided in A.R of form "9-18-20". Hon'ble Commission may be pleased to allow the capitalisation.	
	Details corresponding to S. No. 3 above		-3.170	-10.550	-13.720	0.000	-13.720	0.000			
	Total (a+c)		201.407	16.241	217.648	83.362	267.234	0.000			
6.2	Capitalisation of MSD Yrs	Various Parties	0.000	0.000	0.000	0.000	0.000	0.000			
6.3	Decap of MSD/Ore Treat of Capital Cost		0.000	93.248	93.248	0.000	93.248	0.000			

Breakup verified by Al Mishra
Manager (Commercial) NTPC Limited
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Reason: AGM (Commercial)
Location: NTPC Limited

PART-4
FORM-9

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
COD	01-12-1995
For Financial Year	2023-24

Amount in Rs Lakh

Sl. No.	Head of Work/ Equipment	Agency's Name	Annual basis as per Ind AS	Ind AS Adjustments	ACE Claimed: Annual basis as per IGAAP	ACE Claimed: Un-discharged Liability included in col. 3	ACE Claimed: Cash basis	ACE Claimed: IDC incl. pd in col. 3	Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
1	2	3	4	5	6	7	8	9	10	11	12
A.A	Design of Scarce Metal Capital Cost		[illegible]	[illegible]	[illegible]	0.00	[illegible]	0.00	25(2)	These spares were part of capital cost, have become unserviceable. Accordingly the same are decapitalised. Hence Commission has approved in prior tariff order.	
	Total (sum of A1+A2+A3+A4)		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.00			
	Discharge of Liability						0.00		25(1)/(3)	Details given in Form-5 i.e. Liability Flow Statement	
	Total additional capitalisation claimed with RoE as normal Rate (B)						927.11				
B.	Works beyond Original scope initiating add-cap due to change in Law eligible for RoE at WAI Average rate of Interest										
	Total (B)				-	-	-	-			
Total Add Cap Claimed (A+B)							927.11				

(Petitioner)

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Reason: ACM (Commercial)
Location: NTPC Limited

PART-I
FORM-9

"Year wise Statement of Additional Capitalisation after COD"

Name of the Petitioner	NTPC Limited
Name of the Generating Station	Rajiv Gandhi Thermal Power Station Delhi, Khaprin
COD	01-10-1988
For Financial Year	2021-22

Amount in Rs Lakh

Sl. No.	Nature of Work Executed	Agency's Name	Accrual basis as per Ind AS	Ind AS Adjustment	Accrual basis as per GAAP	Non discharged Liability included in Col. 3	Cash Basis	IDC include d in col. 3	Regulations under which claimed	Justification	Amount Allowed Cost by the Commission Fairly
1	2	3	4	5	6	7	8	9	10	11	12
A	Effected under Original scope, Change in Law etc. eligible for first or subsequent Regn.										
1	Claims										
2	Minimum Spare										
1	Land Purchased, Allpur Office		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
2	Crime/Case Investigation	Kumar Enterprises	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
3	Technical consultancy services of Integration system	Kolkata Electrical Pvt. Ltd., Hindustan Electric Company Ltd.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
4	Replacement of Circuit Breakers	Siemens Ltd.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
5	HMI upgradation and Cyber Security Implied Unit-Wise	Bharat Heavy Electricals Limited	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	Minor purchase in Units 1 whole		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
6	Replacement of Spares Charger		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
7	Security System (CCTV Installation)		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

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Reason: AO(Commercial)
Location: NTPC Limited

PART-I
FORM-3

"Year wise Statement of Additional Capitalisation after COD"

Name of the Petitioner	NTPC Limited
Name of the Generating Station	Nabinagar Captive Thermal Power Station (NCTPS), Bihar
COD	01-12-2020
For Financial Year	2023-24

Amount in Rs Lakh

Sl. No.	Head of Work/Equipment	Agency's Name	Actual Balance as per BOA	Add/ Adjustment	Actual Bills as per ROAP	Un-discharged Liability included in col. 3	Cash Bills	IDC include d in col. 2	Regulations under which claimed	Justification	Admitted Cost by the Commission if any
			ACE Claimed (Projected)								
1	2	3	4	5	6	7	8	9	10	11	12
A	Self Financed Mandatory Capex/R&M Ex-Cost	Bihar Electric Div. 2 Dr	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Self provided anti-soiling boom. Air is required for varying our maintenance power coal handling point wherein conveyor belt is attached which helps the coal conveyors at height, transfer points. Air is involved. The boom [illegible] has been capitalized for ensuring safety of workers while working as mandated by Central Electricity Authority (Safety requirements for construction, operation and maintenance of electrical plants and electric lines) Regulations 2010 which provides that the employer has to provide safe working conditions. The boom [illegible] carried maintenance as around 300 deg. clearance with water and safety. (Relevant excerpts of CEA 2011 regulations attached as Annexure-[illegible]) The CEA (Safety Requirements for Construction, Operation and Maintenance of Electrical Plants and Electric Lines (Amendment) Regulations, 2022 further contemplate the need for special safety measures to take also avoid accidents on part due to fall from height. (CEA (Safety Requirements for Construction, Operation and Maintenance of Electrical Plants and Electric Lines (Amendment) Regulations, 2022 attached as Annexure-[illegible]) Hence for improving safety in workplace the boom/air is has been capitalized. Hon'ble Commission may be pleased to allow the same	
2	Provisional cost & efficient assessment yet	Civil Parties (Bihar)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Justification as provided in A.1.34 of Form "B-2023". Provisional capitalisation is cost adjustment for the last year. Hon'ble Commission may be pleased to allow the capitalisation	
	Subtotal (A-1)		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
A.2	Capitalisation of MSDAs	Various Parties	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	These MSDAs were capitalized due to replacement of assets which were depreciated under original scope. The old assets completed their useful life and were fully depreciated. Hon'ble Commission may be pleased to allow the capitalisation of these MSDAs as per Regulation 24(2)(a) of Tariff Regulation, 2014 as replacement of these MSDAs were necessitated since the useful life of these assets were not commensurate with the useful life of the station.	
A.3	Details of MSDAs Part of Capital Cost		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	These assets were part of capital cost, have become unserviceable. Accordingly the same are depreciated. Hon'ble Commission may be pleased to allow the same.	
A.4	Details of Spares Part of Capital Cost		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	These spares were part of capital cost, have become unserviceable. Accordingly the same are depreciated. Hon'ble Commission may be pleased to allow the same.	
	Total (A)		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
	Decrease in Liability						[illegible]		[illegible]	Refer point 7 Form-7 - Liability Flow Statement	
	Total additional capitalisation claimed with ROE as Normal Rate (A)						[illegible]				
B	Interest Interest Surplus arises including MMDAs due to Change in Law eligible for ROE at COD. Average rate of Debt has										
	Total (B)										
Total (A+B) Exp. Claimed (A-B)							[illegible]				

(Rs Lakhs)

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Reason: AO(Commercial)
Location: NTPC Limited

Statement of Depreciation							PART-I FORM- 12
Name of the Company :		NTPC Limited					
Name of the Power Station :		National Capital Thermal Power Station Dadri, Stage-I					
							(Amount in Rs Lakh)
S. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
1	Opening Capital Cost	169581.07	170639.80	175615.62	175548.76	175284.41	175391.52
2	Closing Capital Cost	170639.81	175615.62	175548.76	175284.41	175391.62	176311.90
3	Average Capital Cost	170260.44	173127.71	175582.19	175416.59	175337.97	175851.71
1a	Cost of IT Equipments & Software included in (1) above		419.76	424.30	426.34	278.90	277.96
2a	Cost of IT Equipments & Software included in (2) above		424.30	426.34	278.90	277.98	267.34
3a	Average Cost of IT Equipments & Software		422.03	425.32	352.62	278.43	272.65
4	Freehold land	6,523.13	6,918.72	7,022.02	7,114.15	7,137.81	7,148.62
5	Rate of depreciation	-	-	-	-	-	-
6	Depreciable value	1,47,363.58	1,49,630.29	1,51,746.68	1,51,507.45	1,51,407.99	1,51,860.05
7	Balance useful life at the beginning of the period	3.12	2.12	1.12	0.12	0.00	0.00
8	Remaining depreciable value	7,560.44	7,670.67	6,477.89	878.72	492.20	633.72
9	Depreciation (for the period)	2,423.22	3,618.24	5,783.83	978.72	492.20	633.72
10	Depreciation (annualised)	2,423.22	**3,618.24**	**5,783.83**	**978.72**	**492.20**	**633.72**
11	Cumulative depreciation at the end of the period	1,42,226.36	1,45,577.86	1,51,052.63	1,51,507.45	1,51,407.99	1,51,860.05
12	Less: Cumulative depreciation adjustment on account of un-discharged liabilities deducted as on 01.04.2009	0.00	0.00	0.00	0.00	0.00	0.00
13	Add: Cumulative depreciation adjustment on account of liability Discharge	0.00	0.00	0.00	0.00	0.00	0.00
14	Less: Cumulative depreciation adjustment on account of de-capitalisation	266.74	309.06	523.89	591.67	181.68	215.59
15	Net Cumulative depreciation at the end of the period after adjustments	1,41,959.62	1,45,268.80	1,50,528.74	1,50,915.78	1,51,226.33	1,51,644.46

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Date: 2024 17 14:28 IST
Reason: ACM (Commercial)
Location: NTPC Limited

PART-I
FORM- 15

Details of Source wise Fuel for Computation of Energy Charges

Name of the Company : NTPC Limited

Name of the Power Station : National Capital Thermal Power Station Dadri, Stage-I

S. No.	Month	Unit	Oct-18		Nov-18		Dec-18	
			Domestic	Imported	Domestic	Imported	Domestic	Imported
1	Opening Quantity of Coal/ Lignite	MT	1,42,250.63		1,34,090.30		2,46,604.30	
2	Value of Stock	(Rs.)	70,81,12,755.06		24,16,14,772.00		1,28,50,52,510.00	
3	Quantity of Coal supplied by Coal Company	MT	6,03,572.74	-	6,71,076.65	-	5,97,500.91	
4	Adjustment (+/-) in quantity supplied made by Coal Company	MT	-588.61	-	-459.38	-	-470.169	
5	Coal supplied by Coal Company (1+3)	MT	6,00,197.13		5,85,019.275		5,96,830.765	
6	Normative Transit & Handling Losses	MT	4,804.57	-	4,680.151		4,775.806	
7	Net coal / Lignite Supplied (5-6)	MT	5,95,392.55		5,81,340.941		5,92,054.977	
8	Amount charged by the Coal Company*	(Rs.)	1,63,14,70,965.06		1,87,48,75,210.00		1,70,85,09,408.00	
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	11,44,82,772.35		8,75,07,932.51		-6,59,13,260.03	
10	Handling, sampling and such other similar charges	(Rs.)						
11	Total amount Charged (8+9)	(Rs.)	1,74,59,53,137.86		1,96,23,83,204.67		1,64,25,16,147.97	
12	Transportation charges by rail/ship/road transport	(Rs.)	1,33,57,67,066.06		1,02,17,35,940.00		1,33,97,47,643.00	
13	Adjustment (+/-) in amount charged made by Railways/ Transport Company	(Rs.)						
14	Demurrage Charges, if any	(Rs.)						
15	Cost of diesel in transporting coal through MGR system, if applicable	(Rs.)						
16	Total Transportation Charges (9+12+13+15)	(Rs.)	1,33,57,67,066.06		1,02,17,35,940.00		1,33,97,47,643.00	
17	Total amount Charged for coal supplied including Transportation (11+16)	(Rs.)	3,08,12,44,205.89		2,98,41,19,144.67		2,98,22,63,790.97	
18	Landed cost of coal (14/5)	Rs./MT	5,157.94		5,095.50		5,001.36	
19	Blending Ratio	%	100.00%	-	100.00%		100.00%	-
20	Weighted average cost of coal	Rs./MT	5,157.94					
21	GCV of Domestic Coal of the opening stock as per bill of Coal Company	(kCal/kg)						
22	GCV of Domestic Coal supplied as per bill Coal Company	(kCal/kg)	4629.00		5823.00		5414.00	
23	GCV of imported Coal of the opening stock as per bill of Coal Company	(kCal/kg)						
24	GCV of imported Coal supplied as per bill Coal Company	(kCal/kg)						
25	Weighted average GCV of coal/ Lignite as Billed	(kCal/kg)	4629.00		5823.00		5414.00	
26	GCV of Domestic Coal of opening stock as received at Station	(kCal/kg)						
27	GCV of Domestic Coal supplied as received at Station	(kCal/kg)	3921.00		3791.00		3766.00	
28	GCV of imported Coal of opening stock as received at Station	(kCal/kg)						
29	GCV of imported Coal supplied as received at Station	(kCal/kg)						
30	Weighted average GCV of coal/ Lignite as Received	(kCal/kg)	3921.00		3791.00		3766.00	

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Location: NTPC Limited

Calculation of Interest on Actual Loans

PART-I
FORM-13

Name of the Company — **National Thermal Power Corporation Ltd**
Name of the Power Station — **NCTPP**

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	**Bond 54 Series Repayment Effective from 26.01.2022**					
	Gross loan - Opening	3700.00	3700.00	3700.00	3700.00	3700.00
	Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	740.00
	Net loan - Opening	3700.00	3700.00	3700.00	3700.00	2960.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE	0.00	0.00	0.00	0.00	0.00
	Total	3700.00	3700.00	3700.00	3700.00	2960.00
	Less: Repayment (s) of Loans during the year	0.00	0.00	0.00	740.00	1480.00
	Net loan - Closing	3700.00	3700.00	3700.00	2960.00	1480.00
	Average Net Loan	3700.00	3700.00	3700.00	3330.00	2220.00
	Rate of Interest on Loan	8.5200%	8.5200%	8.5200%	8.5200%	8.5200%
	Interest on loan	315.24	315.24	315.24	283.72	189.14
2	**Bond 58 Series Bullet Repayment on 31.12.2020**					
	Gross loan - Opening	1000.00	1000.00	1000.00	1000.00	1000.00
	Cumulative repayments of Loans upto previous year	0.00	0.00	1000.00	1000.00	1000.00
	Net loan - Opening	1000.00	1000.00	0.00	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE	0.00	0.00	0.00	0.00	0.00
	Total	1000.00	1000.00	0.00	0.00	0.00
	Less: Repayment (s) of Loans during the year	0.00	1000.00	0.00	0.00	0.00
	Net loan - Closing	1000.00	0.00	0.00	0.00	0.00
	Average Net Loan	1000.00	500.00	0.00	0.00	0.00
	Rate of Interest on Loan	8.2100%	8.2100%	0.0000%	0.0000%	0.0000%
	Interest on loan	82.10	41.05	0.00	0.00	0.00
3	**Bond 74 Series Bullet Repayment on 21.04.2016**					
	Gross loan - Opening	0.00	0.00	0.00	200.00	200.00
	Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	0.00	0.00	0.00	200.00	200.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE	0.00	0.00	200.00	0.00	0.00
	Total	0.00	0.00	200.00	200.00	200.00
	Less: Repayment (s) of Loans during the year	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	0.00	0.00	200.00	200.00	200.00
	Average Net Loan	0.00	0.00	100.00	200.00	200.00
	Rate of Interest on Loan	8.5000%	8.5000%	8.5000%	8.5000%	8.5000%
	Interest on loan	0.00	0.00	8.50	17.00	17.00
4	**HDFC VI Repayment (8 Yearly installments) from 29.09.2025**					
	Gross loan - Opening	1000.00	1000.00	1000.00	1000.00	1000.00
	Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	1000.00	1000.00	1000.00	1000.00	1000.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE	0.00	0.00	0.00	0.00	0.00
	Total	1000.00	1000.00	1000.00	1000.00	1000.00
	Less: Repayment (s) of Loans during the year	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	1000.00	1000.00	1000.00	1000.00	1000.00
	Average Net Loan	1000.00	1000.00	1000.00	1000.00	1000.00
	Rate of Interest on Loan	8.0417%	8.0417%	8.0500%	7.7083%	7.9600%
	Interest on loan	80.58	80.58	80.50	77.08	79.60
5	**HDFC IV Repayment (9 Yearly installments) from 17.04.2021**					
	Gross loan - Opening	3000.00	3000.00	3000.00	3000.00	3000.00
	Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	333.33	666.66
	Net loan - Opening	3000.00	3000.00	3000.00	2666.67	2333.33
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE	0.00	0.00	0.00	0.00	0.00
	Total	3000.00	3000.00	3000.00	[illegible]	[illegible]
	Less: Repayment (s) of Loans during the year	0.00	0.00	333.33	[illegible]	[illegible]
	Net loan - Closing	3000.00	3000.00	2666.67	[illegible]	[illegible]
	Average Net Loan	3000.00	3000.00	[illegible]	[illegible]	[illegible]
	Rate of Interest on Loan	8.0417%	8.0417%	[illegible]	[illegible]	[illegible]

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Location: NTPC Limited

Calculation of Interest on Actual Loans

PART-I
FORM-13

Name of the Company: National Thermal Power Corporation Ltd
Name of the Power Station: NCTPP

(Amount in lacs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
	Interest on loan	241.42	191.93	168.58	160.84	172.47
6	**SBI XII Repayment (8 Yearly installments) from 31.03.2025**					
	Gross loan - Opening	2900.00	2900.00	2900.00	2900.00	2900.00
	Cumulative repayments of Loans upto previous year	0.00	2900.00	2900.00	2900.00	2900.00
	Net loan - Opening	2900.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE	0.00	0.00	0.00	0.00	0.00
	Total	2900.00	0.00	0.00	0.00	0.00
	Less: Repayment (s) of Loans during the year	2900.00	0.00	0.00	0.00	0.00
	Net loan - Closing	0.00	0.00	0.00	0.00	0.00
	Average Net Loan	1450.00	0.00	0.00	0.00	0.00
	Rate of Interest on Loan	8.0168%	6.6034%	6.6550%	7.2218%	8.1395%
	Interest on loan	116.24	0.00	0.00	0.00	0.00
7	**Bank of India-IV (12 Yearly installments) from 07-12-2024**					
	Gross loan - Opening	0.00	0.00	0.00	0.00	500.00
	Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	0.00	0.00	0.00	0.00	500.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE	0.00	0.00	0.00	500.00	0.00
	Total	0.00	0.00	0.00	500.00	500.00
	Less: Repayment (s) of Loans during the year	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	0.00	0.00	0.00	500.00	500.00
	Average Net Loan	0.00	0.00	0.00	250.00	500.00
	Rate of Interest on Loan	0.0000%	0.0000%	0.0000%	8.1100%	8.0000%
	Interest on loan	0.00	0.00	0.00	20.28	40.00
8	**AXIS BANK-II (9 Yearly installments) from 11.07.2023**					
	Gross loan - Opening	0.00	0.00	500.00	500.00	500.00
	Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	500.00
	Net loan - Opening	0.00	0.00	500.00	500.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE	0.00	500.00	0.00	0.00	0.00
	Total	0.00	500.00	500.00	500.00	0.00
	Less: Repayment (s) of Loans during the year	0.00	0.00	0.00	500.00	0.00
	Net loan - Closing	0.00	500.00	500.00	0.00	0.00
	Average Net Loan	0.00	250.00	500.00	250.00	0.00
	Rate of Interest on Loan	0.0000%	8.9117%	9.2000%	7.4100%	0.0000%
	Interest on loan	0.00	15.94	31.50	14.33	0.00
	TOTAL LOAN					
	Gross loan - Opening	11600.00	11600.00	12100.00	12600.00	13600.00
	Cumulative repayments of Loans upto previous year	0.00	2900.00	3400.00	4300.00	5900.00
	Net loan - Opening	11600.00	8700.00	8700.00	8300.00	7700.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE	0.00	500.00	500.00	500.00	0.00
	Total	11600.00	9200.00	9200.00	8800.00	7700.00
	Repayments of Loans during the year	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	8700.00	8200.00	8000.00	7600.00	7100.00
	Average Net Loan	10150.00	8450.00	8350.00	8150.00	7650.00
	Rate of Interest on Loan	8.2910%	7.4343%	7.1931%	7.3101%	7.6535%
	Interest on loan	835.00	628.20	601.12	589.61	585.51

(Petitioner)

Document verified by PARIMAL
PITLISH <parimal.pitlish@ntpc.co.in>
Digitally signed by PARIMAL PITLISH
Date: 2024.[illegible] 14:29 IST
Reason: Approved
Location: NTPC Limited

Form 8- Domestic Bonds- Details of Allocation of corporate

Particulars	XXX 7.8%	XXX 7.95%	XXX 7.125%	XXX 8.17%	XXX 8.37%	54	58	74
Series	19	20	21	22	23	54	58	74
Source of Loan?	BONDS	BONDS	BONDS	BONDS	BONDS	BONDS	BONDS	BONDS
Currency?	INR	INR	INR	INR	INR	INR	INR	INR
Amount of Loan sanctioned?	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Interest Type?	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
Fixed Interest Rate, if applicable	7.90%	7.95%	7.125%	8.17%	8.37%	7.40%	8.10%	8.37%
Base Rate, if Floating Interest?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Margin, if Floating interest?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Are there any Caps/Floors	No	No	No	No	No	No	No	No
If above is yes, specify caps/floor						N/A	N/A	N/A
Moratorium Period?	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Moratorium effective from?	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Repayment Period?	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Repayment effective from?	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Repayment Frequency?	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Repayment Instalment No. 1?	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Date Exchange Rate?						N/A	N/A	N/A
Days to Due Maturity	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Name of the Projects								
NOTIFIED RAM	-	-	-	-	-	[illegible]	[illegible]	[illegible]

Document verified by PARIMAL PATLISH
Digitally signed by PARIMAL PATLISH
Date: 2024 [illegible] 14:24 IST
Reason: AOA [illegible]
Location: NTPC Limited

S.no	Bank Loan	Interest Rate	Applicable from	Applicable upto	Number of Days	Product	Weighted Average Rate of Interest
1	HDFC Bank Ltd. VI	8.450%	01-Apr-19	26-06-2019	86.00	7.27	8.0587%
		8.400%	26-Jun-19	29-07-2019	33.00	2.77	
		8.300%	29-Jul-19	29-08-2019	31.00	2.57	
		8.200%	29-Aug-19	29-09-2019	31.00	2.54	
		8.100%	29-Sep-19	29-10-2019	30.00	2.43	
		8.000%	29-Oct-19	01-12-2019	33.00	2.64	
		7.650%	01-Dec-19	01-03-2020	91.00	6.96	
		7.450%	01-Mar-20	31-Mar-20	31.00	2.31	
					365.00	29.50	8.0587%
	2020-21	7.450%	01-Apr-20	31-May-20	61.00	4.54	6.3982%
		6.300%	01-Jun-20	23-Dec-20	206.00	12.98	
		5.950%	24-Dec-20	31-Mar-21	98.00	5.83	
					365.00	23.35	
	2021-22	5.95%	01-04-2021	31-03-2022	365	21.72	5.95%
	2022-23	5.95%	01-04-2022	23-05-2022	53.00	3.15	
		6.35%	24-05-2022	23-06-2022	31.00	1.97	
		6.85%	24-06-2022	23-08-2022	61.00	4.18	
		7.35%	24-08-2022	23-10-2022	61.00	4.48	
		7.85%	24-10-2022	23-12-2022	61.00	4.79	
		8.20%	24-12-2022	31-12-2022	8.00	0.66	
		7.85%	01-01-2023	28-02-2023	59.00	4.63	
		8.01%	01-03-2023	31-03-2023	31.00	2.48	
					365.00	26.45	7.2335%
	2023-24	8.01%	01-Apr-23	31-May-23	61.00	4.89	
		7.95%	01-Jun-23	31-Mar-24	305.00	24.25	
					366.00	**29.13**	**7.96%**
2	HDFC Bank Limited-IV	8.450%	01-Apr-19	17-04-2019	16.00	1.35	8.0492%
		8.400%	17-Apr-19	29-07-2019	103.00	8.65	
		8.300%	29-Jul-19	29-08-2019	31.00	2.57	
		8.200%	29-Aug-19	29-09-2019	31.00	2.54	
		8.100%	29-Sep-19	29-10-2019	30.00	2.43	
		8.000%	29-Oct-19	01-12-2019	33.00	2.64	
		7.650%	01-Dec-19	01-03-2020	91.00	6.96	
		7.450%	01-Mar-20	31-Mar-20	31.00	2.31	
					365.00	29.45	8.0492%
	2020-21	7.450%	01-Apr-20	31-May-20	61.00	4.54	6.3982%
		6.300%	01-Jun-20	23-Dec-20	206.00	12.98	
		5.950%	24-Dec-20	31-Mar-21	98.00	5.83	
					365.00	23.35	
	2021-22	5.95%	01-04-2021	31-03-2022	365	21.72	5.95%
	2022-23	5.95%	01-04-2022	23-05-2022	53.00	3.15	
		6.35%	24-05-2022	23-06-2022	31.00	1.97	
		6.85%	24-06-2022	23-08-2022	61.00	4.18	
		7.35%	24-08-2022	23-10-2022	61.00	4.48	
		7.85%	24-10-2022	23-12-2022	61.00	4.79	
		8.20%	24-12-2022	31-12-2022	8.00	0.66	
		7.85%	01-01-2023	28-02-2023	59.00	4.63	
		8.01%	01-03-2023	31-03-2023	31.00	2.48	
					365.00	26.45	7.2335%
	2023-24	8.01%	01-Apr-23	31-May-23	61.00	4.89	

Digitally signed by PARMAR PIYUSH
Date: 2024 17:14:28 IST
Reason: Approved
Location: NTPC Limited

S.no	Bank Loan	Interest Rate	Applicable from	Applicable upto	Number of Days	Product	Weighted Average Rate of Interest
		7.95%	01-Jun-23	31-Mar-24	305.00	24.25	
					366.00	**29.13**	**7.96%**
3	**State Bank of India - XII**	8.3500%	01-Apr-19	11-05-2019	40.00	3.34	8.0188%
		8.2500%	11-May-19	11-08-2019	92.00	7.59	
		8.0500%	11-Aug-19	11-11-2019	92.00	7.41	
		7.8000%	11-Nov-19	11-01-2020	61.00	4.76	
		7.7500%	11-Jan-20	01-02-2020	21.00	1.63	
		7.7000%	01-Feb-20	31-Mar-20	60.00	4.62	
					326.00	29.34	8.0188%
	2020-21	7.750%	01-Apr-20	10-Apr-20	10.00	0.77	6.8034%
		7.150%	11-Apr-20	10-Jul-20	91.00	6.51	
		6.650%	11-Jul-20	31-Mar-21	264.00	17.56	
					365.00	24.83	
	2021-22	6.85%	01-04-2021	31-03-2022	365	24.27	6.65%
	2022-23	6.85%	01-04-2022	10-07-2022	101.00	6.72	
		7.35%	11-07-2022	10-10-2022	92.00	6.49	
		7.35%	11-10-2022	10-01-2023	92.00	6.76	
		8.00%	11-01-2023	31-03-2023	80.00	6.40	
					365.00	26.38	7.2273%
	2023-24	8.00%	01-Apr-23	10-Apr-23	10.00	0.80	
		8.10%	11-Apr-23	10-Oct-23	183.00	14.82	
		8.15%	11-Oct-23	10-Jan-24	92.00	7.50	
		8.20%	11-Jan-24	31-Mar-24	81.00	6.64	
					366.00	**29.76**	**8.13%**
4	**AXIS Bank-II**	7.45%	08-Apr-20	25-Apr-20	18.00	1.34	6.5913%
		6.70%	26-Apr-20	25-May-20	30.00	2.01	
		6.30%	26-May-20	31-Mar-21	311.00	19.53	
					359.00	22.88	
	2021-22	6.30%	01-04-2021	31-03-2022	365	23.00	6.30%
	2022-23	6.30%	01-Apr-22	27-May-22	57.00	3.59	
		6.70%	28-May-22	27-Jun-22	31.00	2.08	
		7.30%	28-Jun-22	27-Aug-22	61.00	4.45	
		7.70%	28-Aug-22	27-Oct-22	61.00	4.70	
		8.20%	28-Oct-22	31-Oct-22	4.00	0.33	
		7.70%	01-Nov-22	31-Dec-22	61.00	4.70	
		8.05%	01-Jan-23	28-Feb-23	59.00	4.75	
		8.30%	01-Mar-23	28-Mar-23	28.00	2.32	
					362.00	26.91	7.4198%
5	**Bank Of India-IV**	8.15%	30-03-2023	31-03-2023	2.00	0.16	
					2.00	0.16	8.1500%
	2023-24	8.00%	01-Apr-23	31-Mar-24	366.00	29.28	
					366.00	**29.28**	**8.00%**

Document verified by PARWAN
PIYUSH
Digitally signed by PARWAN
PIYUSH
Date: 2024 17:14:29 IST
Reason: AOA (Commercial)
Location: NTPC Limited

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000752 **T00001** **D00006**

Unsecured Loan From AXIS BANK-II		
Source of Loan :	**AXIS BANK-II**	
Currency :	INR	
Amount of Loan :	20,00,00,00,000	
Total Drawn amount :	5,00,00,00,000	
Date of Draw	08.04.2020	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	7.45%	
Margin, If Floating interest :	-	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	08.04.2020	
Repayment Period (Inc. Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly, Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	11.07.2023	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A	
Project Code	Project Name	Amount
	BARH-I	70,00,00,000
	GADARWARA	60,00,00,000
	DARLIPALLI	20,00,00,000
	KHARGONE	20,00,00,000
	BARAUNI-II	40,00,00,000
	BILHAUR SOLAR 50MW	30,00,00,000
	AURAIYA SOLAR 20MW	5,00,00,000
	AURAIYA SOLAR FS 20MW	5,00,00,000
	SIMHADRI FLOATING	5,00,00,000
	SINGRAULI R&M	43,00,00,000
	KORBA R&M	32,00,00,000
	RAMAGUNDAM I & II R&M	45,00,00,000
	VINDHYACHAL R&M	40,00,00,000
	FARAKKA R&M	26,00,00,000
	RIHAND R&M	35,00,00,000
	DADRI GAS R&M	6,00,00,000
	TSTPP R&M	8,00,00,000
	NCTPP R&M	5,00,00,000
	CHATTI BARIAYU CMB	5,00,00,000
Total Allocated Amount		**5,00,00,00,000**

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000621 **T00001** **D00004**

Unsecured Loan From HDFC Bank Ltd. IV		

Document verified by PARAMA PRIJEN (Parama@ntpc.co.in)

Digitally signed by PARAMA PRIJEN

Date: 2024.[illegible] 14:20:07

Reason: ACA[illegible]

Location: NTPC Limited

Source of Loan :	**HDFC Bank Ltd.-IV**	
Currency :	INR	
Amount of Loan :	20,00,00,00,000	
Total Drawn amount :	12,45,00,00,000	
Date of drawl	29.06.2018	
Interest Type :	Floating	
Fixed Interest Rate		
Base Rate: If Floating Interest	8.05%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	29.06.2018	
Repayment Period (inc Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	17.04.2021	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	KORBA R&M	90,00,00,000
	RAMAGUNDAM R&M	2,20,00,00,000
	UNCHAHAR R&M	70,00,00,000
	RIHAND R&M	90,00,00,000
	KAWAS R&M	1,80,00,00,000
	AURAIYA R&M	1,80,00,00,000
	TSTPP R&M	90,00,00,000
	GANDHAR R&M	1,85,00,00,000
	NCTPP R&M	30,00,00,000
	KAHALGAON R&M	30,00,00,000
	ANTA R&M	80,00,00,000
Total Allocated Amount		**12,45,00,00,000**

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000641 **T00001** **D00002**

Unsecured Loan From HDFC Bank Ltd. VI		
Source of Loan :	**HDFC Bank Ltd. VI**	
Currency :	INR	
Amount of Loan :	15,00,00,00,000	
Total Drawn amount :	5,00,00,00,000	
Date of drawl	11.10.2018	
Interest Type :	Floating	
Fixed Interest Rate		
Base Rate: If Floating Interest	8.30%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	

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Date: 2024.[illegible] 14:30:07
Reason: [illegible]
Location: NTPC Limited

Moratorium effective from :	11.10.2018	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	26.09.2025	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-I	56,00,00,000
	TAPOVAN VISHNUGARH	10,00,00,000
	BONGAIGAON	10,00,00,000
	SOLAPUR	14,00,00,000
	LARA-I	33,00,00,000
	GADARWARA	68,00,00,000
	NORTH KARANPURA	42,00,00,000
	DARLIPALLI	34,00,00,000
	TANDA II	31,00,00,000
	RAMMAM	3,00,00,000
	KHARGONE	48,00,00,000
	TELANGANA	42,00,00,000
	AURAIYA R&M	50,00,00,000
	NCTPP R&M	10,00,00,000
	KAWAS R&M	15,00,00,000
	GANDHAR R&M	38,00,00,000
Total Allocated Amount		**5,00,00,00,000**

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 50500001041 **T00001** **D00009**

Unsecured Loan From Bank Of India-IV

Source of Loan :	**Bank Of India-IV**	
Currency :	INR	
Amount of Loan :	22000000000	
Total Drawn amount :	1,94,00,00,000	
Date of Drawal :	30-03-2023	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest :	8.15%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment :	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	05.03.2021	
Repayment Period (Inc Moratorium) :	16 Years	
Repayment Frequency :	Yearly	
Repayment Type :	AVG	
First Repayment Date :	07.12.2024	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :		

Document verified by PURNIMA PATJOSHI (Manager) on behalf of NTPC Limited

Digitally signed by PURNIMA PATJOSHI
Date: 2024.[illegible] 14:28:57
Reason: [illegible]
Location: NTPC Limited

Project Code	Project Name	Amount
	NCTPP R&M	50000000
	DADRI GAS R&M	80000000
	SIMHADRI FLOATING	50000000
	RIHAND-R&M	350000000
	KORBA-R&M	320000000
	VSTPS R&M	400000000
	FSTPS R&M	250000000
	RAMAGUNDAM-R&M	450000000
Total Allocated Amount		1,94,00,00,000

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000741 **T00001** **D00001**

Unsecured Loan From SBI-XII	
Source of Loan :	SBI-XII
Currency :	INR
Amount of Loan :	50,00,00,00,000
Total Drawn amount :	7,50,00,00,000
Date of Drawal:	11.02.2019
Interest Type :	Floating
Fixed Interest Rate :	----------
Base Rate, If Floating Interest	8.35%
Margin, If Floating Interest:	Nil.
Are there any Cap/ Floor :	Y/N
Frequency of Intt. Payment	Monthly
If Above is yes, specify Cap/ Floor :	
Moratorium Period :	5 Years
Moratorium effective from :	11.02.2019
Repayment Period (Inc Moratorium) :	15 Years
Repayment Frequency :	9 Yearly Installments
Repayment Type :	AVG
First Repayment Date :	31.03.2025
Base Exchange Rate :	RUPEE
Date of Base Exchange Rate :	N.A.

Project Code	Project Name	Amount
	BARH-I	1,30,00,00,000.00
	TAPOVAN VISHNUGARH	15,00,00,000.00
	BONGAIGAON	65,00,00,000.00
	SOLAPUR	45,00,00,000.00
	GADARWARA	90,00,00,000.00
	DARLIPALLI	40,00,00,000.00
	TANDA II	50,00,00,000.00
	KHARGONE	90,00,00,000.00
	TELANGANA	70,00,00,000.00
	CHATTI BARIATU	15,00,00,000.00

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Date: 2024.[illegible] 14:39:05IST
Reason: [illegible]
Location: NTPC Limited

	DULANGA	20,00,00,000.00
	TALAIPALI	80,00,00,000.00
	NCPS-FGD	25,00,00,000.00
Total Allocated Amount		**7,50,00,00,000.00**

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000741 **T00001** **D00003**

Unsecured Loan From SBI-XII		
Source of Loan :	**SBI-XII**	
Currency :	INR	
Amount of Loan :	50,00,00,00,000	
Total Drawn amount	5,00,00,00,000	
Date of Drawal:	26.03.2019	
Interest Type :	Floating	
Fixed Interest Rate :	----------	
Base Rate, if Floating Interest	8.35%	
Margin, if Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Monthly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	5 Years	
Moratorium effective from :	26.03.2019	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AYG	
First Repayment Date :	31.03.2020	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	**Project Name**	**Amount**
	BARH-I	40,00,00,000.00
	UNCHAHAR STPP IV	1,20,00,00,000.00
	LARA	30,00,00,000.00
	NORTH KARANPURA	30,00,00,000.00
	GADARWARA	80,00,00,000.00
	DARLIPALLI	41,00,00,000.00
	TANDA-II	30,00,00,000.00
	KHARGONE	40,00,00,000.00
	TELANGANA	80,00,00,000.00
	CHATTI BARIATU	5,00,00,000.00
	DULANGA	10,00,00,000.00
	TALAIPALI	10,00,00,000.00
	NCPS-FGD	4,00,00,000.00
Total Allocated Amount		**5,00,00,00,000.00**

Digitally signed by PIYUSH AGRAWAL
Date: 2024 IST 14:24 IST
Reason: AGM (Commercial)
Location: NTPC Limited

PART-I

FORM- 15A

Details of Secondary Fuel for Computation of Energy Charges

Name of the Company : NTPC Limited

Name of the Power Station : National Capital Thermal Power Station Dadri, Stage-I

Sl. No.	Month	Unit	Oct-18		Nov-18		Dec-18	
			HFO	LDO	HFO	LDO	HFO	LDO
1	Opening Stock of Oil	KL	3,375.46	3,092.68	3,279.46	3,069.68	2,494.81	3,041.68
2	Value of Opening Stock	Rs.	11,60,73,864.73	14,33,86,075.97	11,27,72,672.70	14,23,19,725.82	8,57,69,698.99	14,10,21,560.42
3	Quantity of Oil supplied by Oil Company	KL						
4	Adjustment (+-) in quantity supplied made by Oil Company	KL						
5	Oil supplied by oil company (3+4)	KL	-	-	-	-	-	-
6	Normative Transit & Handling Losses	KL						
7	Net Oil Supplied (2-6)	KL	-	-	-	-	-	-
8	Amount charged by the Oil Company*	(Rs)						
9	Adjustment(+-) in amount charged made by Oil Company	(Rs)						
10	Total amount charged (8+7)	(Rs)	-	-	-	-	-	-
11	Transportation charges by rail / ship / road transport	(Rs)						
12	Adjustment (+-) in amount charged made by Railways/Transport Company	(Rs)						
13	Demurrage Charges, if any	(Rs)						
14	Total Transportation Charges (9+10-11+12)	(Rs)						
15	Total amount charged for the Oil supplied including transportation	(Rs.)						
16	Other Charges	(Rs)						
17	Total amount charged for oil (LDO+HFO) supplied including transportation							
18	Total amount charged for the Oil as fired (stage 1)	Rs/KL						
19	Quantity of Oil at the station for the month	KL	3,275.46	3,092.68	3,279.46	3,069.68	2,494.81	3,041.68
20	Total amount charged for Oil	(Rs)	11,60,73,864.73	14,33,86,075.97	11,27,72,672.70	14,23,19,725.82	8,57,69,698.99	14,10,21,560.42
21	Landed Cost of Oil	Rs/KL	34,387.42	46,363.95	34,387.42	46,363.95	34,387.412	46,363.95
22	Quantity of Oil consumed (Station)	KL	96.00	23.00	784.67	28.00	144.555	69.54
23	Value of Oil consumed	(Rs)	33,01,192.03	10,66,350.15	2,60,82,773.71	12,98,165.49	49,74,311.81	22,24,086.90
24	Closing Stock of Oil	KL	3,279.46	3,069.68	2,494.81	3,041.68	2,350.15	2,972.14
25	Value of Closing Stock	(Rs)	11,27,72,672.70	14,23,19,725.82	8,57,69,698.99	14,10,21,560.42	8,08,15,587.18	13,77,92,473.92
26	Weighted average GCV of Oil on usage basis	kCal/kL		9646.77		9669.57		9747.94

Note: In terms of the order of Hon'ble Supreme Court regarding ban on use of HFO, main secondary fuel at Dadri is LDO w.e.f. 01.01.2016 and the same has been considered for calculation of Working Capital.

(Petitioner)

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Details of Source wise Fuel for Computation of Energy Charges			PART-I FORM- 15
Name of the Company :	NTPC Limited		
Name of the Power Station :	National Capital Thermal Power Station (NTA Stage-I)		

S. No.	Month	Unit	Oct-19		Nov-19			Dec-19		
			Domestic	Imported	Domestic	Imported	Blended	Domestic	Imported	Blended
1	Opening Quantity of Coal (Loaded)	(MT)	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	
2	Value of Stock	(Rs.)	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	
3	Quantity of Coal received by Coal Company*	(MT)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)								
5	Coal supplied by Coal Company (3+4)	(MT)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	Normative Transit & Handling Loss	(MT)	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	
7	Net coal quantity supplied (5-6)	(MT)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	Amount charged by the Coal Company*	(Rs.)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	
10	Washing, Handling and such other similar charges	(Rs.)								
11	Net amount charged (8+9+10)	(Rs.)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	Transportation Charges by rail, road, ropeway	(Rs.)	[illegible]	-	[illegible]	-	-	[illegible]	-	-
13	Adjustment (+/-) in amount charged made by Railway/ Transport Company	(Rs.)								
14	Demurrage Charges, if any	(Rs.)								
15	Cost of Diesel in transporting coal through MGR system, if applicable	(Rs.)								
16	Net Transportation Charges (12+13+14+15)	(Rs.)	[illegible]		[illegible]	-	-	[illegible]	-	-
17	Total amount charged for coal supplied including transportation (11+16+12c)	(Rs.)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	Landed cost of coal (17/7)	(Rs./MT)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	Blending Ratio		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	Weighted average cost of coal	(Rs./MT)	[illegible]		[illegible]			[illegible]		
21	GCV of Domestic Coal of the opening stock as per bill of Coal Company	(Kcal/kg)	[illegible]		[illegible]			[illegible]		
22	GCV of Domestic Coal supplied as per bill of Coal Company	(Kcal/kg)	[illegible]		[illegible]			[illegible]		
23	GCV of Imported Coal of the opening stock as per bill of Coal Company	(Kcal/kg)		[illegible]		[illegible]			[illegible]	
24	GCV of Imported Coal supplied as per bill of Coal Company	(Kcal/kg)		[illegible]		[illegible]			[illegible]	
25	Weighted average GCV of coal as fired	(Kcal/kg)	[illegible]		[illegible]			[illegible]		
26	GCV of Domestic Coal of opening stock as received at Station	(Kcal/kg)	[illegible]		[illegible]			[illegible]		
27	GCV of Domestic Coal supplied as received at Station	(Kcal/kg)	[illegible]		[illegible]		[illegible]	[illegible]		[illegible]
28	GCV of Imported Coal of opening stock as received at Station	(Kcal/kg)		[illegible]		[illegible]			[illegible]	
29	GCV of Imported Coal supplied as received at Station	(Kcal/kg)		[illegible]		[illegible]			[illegible]	
30	Weighted average GCV of coal as fired	(Kcal/kg)	[illegible]		[illegible]			[illegible]		

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PART-I
FORM 15A

Details of Secondary Fuel for Computation of Energy Charges

Name of the Company :	NTPC Limited
Name of the Power Station :	National Capital Thermal Power Station Dadri, Stage-I

Sl.No.	Month	Unit	Oct-19		Nov-19		Dec-19	
			HFO	LDO	HFO	LDO	HFO	LDO
1	Opening Stock of Oil	KL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	Value of Opening Stock	Rs.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	Quantity of Oil supplied by Oil Company	KL	-	[illegible]				
4	Adjustment (+/-) in quantity supplied made by Oil Company	KL	-					
5	Oil supplied by Oil company (3+4)	KL	-	[illegible]	-	-		-
6	Normative Transit & Handling Losses	KL						
7	Net Oil Supplied (5-6)	KL	-	[illegible]	-	-		-
8	Amount charged by the Oil Company*	(Rs.)		16,87,41,937.00				
9	Adjustment (+/-) of amount charged made by Oil Company	(Rs.)						
10	Total amount charged (8+9)	(Rs.)	-	16,87,41,937.00	-	-		-
11	Transportation charges by rail / Road / Fixed Pipeline	(Rs.)		-				
12	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)		-				
13	Demurrage Charges, if any	(Rs.)		-				
14	Total Transportation Charges (11+12+13)	(Rs.)		-				
15	Total amount charged for the Oil supplied including transportation	(Rs.)		16,87,41,937.00				
16	Other Charges	(Rs.)		-		-		
17	Total amount charged for the GCV of Oil supplied including transportation		-	16,87,41,937.00	-	-		-
18	Landed Cost of Oil	Rs/KL	14,347.12	81,192.47	14,347.12	81,192.47	14,347.12	81,192.47
19	Blending Ratio (Domestic/Imported)							
20	Weighted average cost of Oil	Rs/KL		81,192.47		81,192.47		81,192.47
21	GCV of Domestic Oil of the Opening Oil stock as per bill of Oil Company	(Kcal)		9,700		9,700		9,700
22	GCV of Domestic Oil supplied as per bill of Oil Company	Kcal/KL						
23	GCV of imported Oil of the opening stock as per bill of Oil company	KL						
24	GCV of Imported Oil supplied as per bill of Oil Company	(Kcal)						
25	Weighted average GCV of Oil Lying at Site			9,700		9,700		9,700
26	GCV of Domestic Oil of the Opening Oil stock as received at Station			9,700		9,700		9,700
27	GCV of Domestic Oil supplied as received at Station							
28	GCV of Imported Oil of the Opening Oil stock as received at Station	KL						
29	GCV of Imported Oil supplied as received at Station	(Kcal)						
30	Weighted average GCV of Oil as received	Kcal/KL		9,700		9,700		9,700

Note: In terms of the order of Hon'ble Supreme Court regarding law on use of HFO, high secondary fuel oil (HSFO) w.e.f. 05.07.2016 and the same has been considered for calculation of Working Capital.

(Authorised)

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Location: NTPC Limited

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S. No.	Name	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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Location: NTPC Limited

Details of Secondary Fuel for Computation of Energy Charges								PART-I FORM- 15A
Name of the Company :		NTPC Limited						
Name of the Power Station :		National Capital Thermal Power Station Dadri, Stage-I						
Sl.No.	Month	Unit	Oct-20		Nov-20		Dec-20	
			HFO	LDO	HFO	LDO	HFO	LDO
1	Opening Stock of Oil	KL	-	2,964.347	-	3,710.74	-	3,710.307
2	Value of Opening Stock	Rs.	-	15,11,93,717.39	-	24,75,99,279.31	-	24,50,88,279.75
3	Quantity of Oil supplied by Oil Company	KL	-	2,938.693				
4	Adjustment (+/-) in quantity supplied made by Oil Compan	KL						
5	Oil supplied by oil company (3+4)	KL	-	2,938.693	-	-	-	-
6	Normative Transit & Handling Losses	KL						
7	Net Oil Supplied (5-6)	KL	-	2,938.693	-	-	-	-
8	Amount charged by the Oil Company	(Rs.)	-	9,73,94,138.00				
9	Adjustment(+/-) in amount charged made by Oil Company	(Rs.)		-				
10	Total amount charged (8+9)	(Rs.)	-	9,73,94,138.00	-	-	-	-
11	Transportation charges by rail / ship / road transport	(Rs.)		-				
12	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)		-		-		-
13	Demurrage Charges, if any	(Rs.)		-		-		-
14	Total Transportation Charges (9+/-10+11+12)	(Rs.)		-		-		-
15	Total amount charged for the Oil supplied including transportation	(Rs.)	-	9,73,94,138.00		-		-
16	Other Charges	(Rs.)		-	-	-	-	-
17	Total amount charged for oil (LDO/HFO) supplied including transportation		-	9,73,94,138.00	-	-	-	-
18	Landed Cost of Oil	Rs/KL	-	42,632.38	-	42,632.38	-	42,632.38
19	Blending Ratio (Domestic/ Imported)	%						
20	Weighted average cost of Oil	Rs/KL		42,632.38		42,632.38		42,632.38
21	GCV of Domestic Oil of the Opening Oil stock as per bill of Oil Company	kCal/kL	-	9,649.00	-	9,660.00	-	9,696.00
22	GCV of Domestic Oil supplied as per bill of Oil Company	kCal/kL	-	-	-	-	-	-
23	GCV of Imported Oil of the opening stock as per bill of Oil Company	kCal/kL						
24	GCV of Imported Oil supplied as per bill of Company	kCal/kL						
25	Weighted average GCV of Oil Upon as Billed	kCal/kL		9,649.00		9,660.00		9,696.00
26	GCV of Domestic Oil of the Opening Oil stock as received at Station	kCal/kL	-	9,649.00	-	9,660.00	-	9,696.00
27	GCV of Domestic Oil supplied as received at Station	kCal/kL	-	-	-	-	-	-
28	GCV of Imported Oil of the Opening Oil stock as received at Station	kCal/kL						
29	GCV of Imported Oil supplied as received at Station	kCal/kL						
30	Weighted average GCV of Oil as received	kCal/kL		9,649.00		9,660.00		9,696.00

Note: In terms of the order of Hon'ble Supreme Court regarding non use of HFO (main secondary fuel at Dadri) is LDO w.e.f. 01.11.2010 and the same has been considered for calculation of Working Capital.

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Location: NTPC Limited

PART I
FORM 10

Name of the Company:
Name of the Project Affected:

NTPC Limited
Kudgi Super Thermal Power Station Stage-I

Sl. No.	Details	Unit	Year 20-21					Year 21-22					Year 22-23				
			Domestic Type 1	Domestic Type 2	Domestic Type 3	Industrial	Business	Domestic Type 1	Domestic Type 2	Domestic Type 3	Industrial	Business	Domestic Type 1	Domestic Type 2	Domestic Type 3	Industrial	Business
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]
4	[illegible]	[illegible]						[illegible]									
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	-	
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]
9	[illegible]	[illegible]															
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]							
12	[illegible]	[illegible]															
13	[illegible]	[illegible]															
14	[illegible]	[illegible]															
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]		
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]

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Location: NTPC Limited

Details of Secondary Fuel for Computation of Energy Charges				PART-I FORM- 15A
Name of the Company :	NTPC Limited			
Name of the Power Station :	National Capital Thermal Power Station Dadri, Stage-I			

Sl.No.	Month	Unit	Oct-21	Nov-21	Dec-21
			LDO	LDO	LDO
1	Opening Stock of Oil	KL	4,449.967	4,302.877	4,188.067
2	Value of Opening Stock	Rs.	22,52,56,780.34	22,07,11,862.79	21,46,22,795.34
3	Quantity of Oil supplied by Oil Company	KL	-	-	-
4	Adjustment (+/-) in quantity supplied made by Oil Company	KL			
5	Oil supplied by oil company (3+4)	KL	-	-	-
6	Normative Transit & Handling Losses	KL			
7	Net Oil Supplied (5-6)	KL	-	-	-
8	Amount charged by the Oil Company*	(Rs)	-	-	-
9	Adjustment(+/-) in amount charged made by Oil Company	(Rs)	-	-	-
10	Total amount charged (8+9)	(Rs)	-	-	-
11	Transportation charges by rail / ship / road transport	(Rs)	-		
12	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs)	-		
13	Demurrage Charges, if any	(Rs)	-		
14	Total Transportation Charges (9+/-10+11+12)	(Rs)	-		
15	Total amount charged for the Oil supplied including transportation	(Rs.)	-		
16	Other Charges	(Rs)	-	-	-
17	Total amount charged for oil (LDO/HFO) supplied including transportation	(Rs)	-	-	-
18	Landed Cost of Oil	Rs/KL	51,294.02	51,294.02	51,294.02
19	Blending Ratio (Domestic/ Imported)	%			
20	**Weighted average cost of Oil**	Rs/KL	**51,294.02**	**51,294.02**	**51,294.02**
21	GCV of Domestic Oil of the Opening Oil stock as per bill of Oil Company	kCal/kL	9,665	9,649	9,654
22	GCV of Domestic Oil supplied as per bill of Oil Company	kCal/kL	-		
23	GCV of Imported Oil of the opening stock as per bill of Oil Company	kCal/kL			
24	GCV of Imported Oil supplied as per bill of Company	kCal/kL			
25	Weighted average GCV of Oil Lignite as fired	kCal/kL	**9,665**	**9,649**	**9,654**
26	GCV of Domestic Oil of the Opening Oil stock as received at Station	kCal/kL	9,665	9,649	9,654
27	GCV of Domestic Oil supplied as received at Station	kCal/kL	-	-	-
28	GCV of Imported Oil of the Opening Oil stock as received at Station	kCal/kL			
29	GCV of Imported Oil supplied as received at Station	kCal/kL			
30	Weighted average GCV of Oil as received	kCal/kL	**9,665**	**9,649**	**9,654**

Note: In terms of the order of Hon'ble Supreme Court regarding ban on use of HFO, main secondary fuel at Dadri is LDO w.e.f. 01.01.2016 and the same has been considered for calculation of Working Capital.

(Petitioner)

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Location: NTPC Limited

Name of the Company Name of the Power Station		NTPC Limited [illegible]						
S.No.		Unit	Reference Figure 1	Reference Figure 2	Difference Figure	Reference Figure 3	Incentive	Remarks
1	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	
2	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	
3	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		
4	[illegible]	[illegible]						
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Name of the Company	
Name of the Power Station	

S. No.		Unit	Details					
			Domestic Type I	Domestic Type II	Domestic Type III	Industrial Type I	Industrial Type II	Remarks
1	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	
2	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	
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Name of the Company	
Date of the Peer Review	

S. No.		Unit	Domestic Type I	Domestic Type II	Domestic Type III	Industrial Type I	Industrial Type II	Business
1	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	
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Details of Secondary Fuel for Computation of Energy Charges				PART-I FORM- 15A
Name of the Company :		**NTPC Limited**		
Name of the Power Station :		**National Capital Thermal Power Station Dadri, Stage-I**		

Sl.No.	Month	Unit	Oct-22	Nov-22	Dec-22
			LDO	LDO	LDO
1	Opening Stock of Oil	KL	2,964.25	3,741.75	3,587.62
2	Value of Opening Stock	Rs.	20,12,06,547.76	45,98,44,105.95	44,74,97,519.73
3	Quantity of Oil supplied by Oil Company	KL	3,156.45	-	-
4	Adjustment (+/-) in quantity supplied made by Oil Company	KL	-	-	-
5	Oil supplied by oil company (3+4)	KL	3,156.45	-	-
6	Normative Transit & Handling Losses	KL	-	-	-
7	Net Oil Supplied (3-6)	KL	3,156.45	-	-
8	Amount charged by the Oil Company*	(Rs)	28,47,06,963.00	-	-
9	Adjustment(+/-) in amount charged made by Oil Company	(Rs)	-	-	-
10	Total amount charged (8+9)	(Rs)	28,47,06,963.00	-	-
11	Transportation charges by rail / ship / road transport	(Rs)	-		
12	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs)	-	-	-
13	Demurrage Charges, if any	(Rs)	-	-	-
14	Total Transportation Charges (9+10-11+12)	(Rs)	-	-	-
15	Total amount charged for the Oil supplied including transportation	(Rs.)	28,47,06,963.00		
16	Other Charges	(Rs)	-	-	-
17	Total amount charged for oil (LDO/HFO) supplied including transportation	(Rs)	28,47,06,963.00		
18	Landed Cost of Oil	Rs/KL	79,225.17	80,067.35	80,067.35
19	Blending Ratio (Domestic/ Imported)	%			
20	Weighted average cost of Oil	Rs/KL	79,225.17	80,067.35	80,067.35
21	GCV of Domestic Oil of the Opening Oil stock as per bill of Oil Company	kCal/kL	9,660.00	9,672.00	9,680.00
22	GCV of Domestic Oil supplied as per bill of Oil Company	kCal/kL	-		
23	GCV of Imported Oil of the opening stock as per bill of Oil Company	kCal/kL			
24	GCV of Imported Oil supplied as per bill of Company	kCal/kL			
25	Weighted average GCV of Oil Lignite as fired	kCal/kL	9,660.00	9,672.00	9,680.00
26	GCV of Domestic Oil of the Opening Oil stock as received at Station	kCal/kL	9,660.00	9,672.00	9,680.00
27	GCV of Domestic Oil supplied as received at Station	kCal/kL	-		
28	GCV of Imported Oil of the Opening Oil stock as received at Station	kCal/kL			
29	GCV of Imported Oil supplied as received at Station	kCal/kL			
30	**Weighted average GCV of Oil as received**	kCal/kL	**9,660.00**	**9,672.00**	**9,680.00**

Note: In terms of the order of Hon'ble Supreme Court regarding ban on use of HFO, main secondary fuel at Dadri is LDO w.e.f. 01.01.2019 and the same has been considered for calculation of Working Capital.

(Pankaj Gupta)

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Form-16B
ADDITIONAL FORM

Computation of Energy Charges

Name of the Company	NTPC Limited
Name of the Power Station	National Capital Thermal Power Station Dadri, Stage-I

Computation of Energy Charges

			2019-20	2020-21	2021-22	2022-23	2023-24
1	Rate of Energy Charge from Sec. Fuel Oil/ Alternate Fuel (p/kwh)	$= (C_2 \times F_2)$	2.318	2.360	2.142	2.365	2.389
2	Heat Contribution from SFO / Alternate Fuel (%)	$= (Q_2 \times GCV_2)$	4.311	4.354	4.317	4.326	4.336
3	Heat Contribution from coal (%)	$= (Q_1 - Q_2)$	2625.86	2625.15	2626.19	2626.17	2626.16
4	Specific Primary Fuel Consumption (Kcal/kwh)	$= Q_1 / (GCV_1)$	0.654	0.653	0.652	0.657	0.675
5	Rate of Energy Charge from Primary Fuel (p/kwh)	(RE_1)	224.958	268.701	279.326	320.291	420.022
6	Rate of Energy Charge for the month (p/kWh)	$(RE_1) + (RE_2) + (TAX_1)$	369.748	401.962	303.242	340.606	486.676

		2019-20	2020-21	2021-22	2022-23	2023-24
No of Days in the year	Days	366	365	365	365	366
SC Oil consumption	ml/kwh	0.5	0.5	0.5	0.5	0.5
Auxiliary consumption	%	0.09	0.09	0.09	0.09	0.09
Heat Rate	Kcal/kwh	2,430.00	2,430.00	2,430.00	2,430.00	2,430.00
Computation of Variable Charges						
Variable Charge (Coal)	p/kwh	367.210	402.208	300.901	337.805	482.319
Variable Charge (Oil)	p/kwh	2.538	2.797	2.341	2.803	4.360
Total	p/kwh	369.748	401.962	303.242	340.608	486.679
Price of fuel from Form-15/15A						
Coal Cost	(Rs./MT)	5135.17	5392.42	3973.00	4704.29	6267.85
Oil Cost	(Rs./Kl)	46362.65	51192.47	42602.39	51294.02	70784.09
Computation of Fuel Expenses for Calculation of IWC:						
ESO in a year	(MUs)	5738.88	5723.00	5723.00	5723.00	5708.975
ESO for 45Days	(MUs)	783.973	783.973	783.973	783.973	783.973
Cost of Coal for 45 Days	(Rs. Lakhs)	26798.41	21539.48	23580.83	26487.96	39244.48
Cost of oil for 2 months	(Rs. Lakhs)	242.32	266.83	227.25	267.35	416.99
Energy Expenses for 45 day	(Rs. Lakhs)	26840.32	21806.31	23808.08	26755.31	39661.46

Coal		2019-20	2020-21	2021-22	2022-23	2023-24
Wtd. Avg. Price of Coal	Rs./MT	5135.17	5392.42	3973.00	4704.29	6267.85
Wtd. Avg. GCV of Coal as received	kCal/Kg	3791.33	3537.67	3689.00	3778.00	3678.33
	kCal/Kg	3706.33	3552.67	3604.00	3691.00	3593.33
Sec. Oil						
Wtd. Avg. Price of Secondary Fuel	Rs/KL	46362.65	51192.47	42602.39	51294.02	70784.09
Wtd. Avg. GCV of Secondary Fuel	kCal/L	9827.00	9708.00	9637.67	9655.67	9672.33

(Petitioner)

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Details Information to be Submitted in respect of Capital Spares (2013-20)

Name of the Petitioner: NTPC Ltd		NTPC Limited				
Name of the Generating Station:		National Capital Thermal Power Station Dadri, Stage-I				
Date of Commercial Operation:		01-12-1995				Amount in Rs Lakh
Sl. No.	Name of Spare	Value of the Asset	Claimed as a part of additional Capitalisation	Funded through Compensatory Allowance	Funded through Special Allowance (if Applicable)	Claimed as a part of stores and spares	Remarks
1	KNIFE GATE VALVE FLGD. A47 CL-150 300MM	1.78	No	No	No	No	
2	KNIFE GATE VALVE FLGD. A47 CL-150 400MM	8.14	No	No	No	No	
3	KNIFE GATE VALVE FLGD. A47 CL-300 300MM	0.32	No	No	No	No	
4	KNIFE GATE VALVE FLGD. A47 CL-300 400MM	1.04	No	No	No	No	
5	KNIFE GATE VALVE FLGD. A47 CL-150 NB 350MM	0.83	No	No	No	No	
6	BEARING RUN THRUST TAPERED SINGLE TT1506	4.59	No	No	No	No	
7	BEARING ROLLER SPHERICAL 23048	64.36	No	No	No	No	
8	PUMP ASSY FLUID MATT COUPLING SC-14	51.60	No	No	No	No	
9	GEAR BOX FLENDER KA225	7.94	No	NO	NO	No	
10	GEAR BOX KUMERA DY 1621 HSY 18:1	21.55	No	No	No	No	
11	GEAR BOX KUMERA DY 1621 MST 18:1	25.76	No	No	No	No	
12	GEAR COUPLING HKA 180 KUMERA DY	0.28	No	No	No	No	
13	PUMP HEAD	4.08	No	No	No	No	
14	PUMP HEAD ASSY FLOWATO BUSHES	2.06	No	No	No	No	
15	THRUST BEARING ROTOR ALL PUMP ENGINE	20.62	No	No	No	No	
16	ENGINE PUMP SHAFT UPPER	2.12	No	No	No	No	
17	ENGINE PUMP SHAFT LOWER	1.21	No	No	No	No	
18	KAMETA THRUST BEARING	2.34	No	No	No	No	
19	JOURNAL BRG HALF DEKTA INCOR BFT PR PUMP	1.64	No	No	No	No	
20	JOURNAL BRG HALF NOMETA INCOR BFT PR PUMP	1.76	No	No	No	No	
21	THRUST BRGM BAKER BFP PR PUMP INCAE 36	2.71	No	No	No	No	
22	FRAME MECHANICAL SEAL (TM)	4.56	No	No	No	No	
23	JOURNAL BRG NO 4 HOSING WHEL HP BFP	0.20	No	No	No	No	
24	PUMP STATOR WATER ASB CPK NO 7200	0.55	No	No	No	No	
25	NINTH STAGE COMPLETE PUMP ASSY	9.71	No	No	No	No	
26	FIRST STAGE COMPLETE PUMP ASSY	13.53	No	No	No	No	
27	TURBINE PUMP ASSY FANSBANE TG 7000 T4M	19.24	No	No	No	No	
28	SUCTION PUMP ASSY MONALLY BHARAT VARANSI	2.06	No	No	No	No	
29	PUMP ASSY SUCTION LIBRY HITACHI KSU15 A	26.53	No	No	No	No	
30	MAY HAFED COMPLETE ASSY	4.09	No	No	No	No	
31	PUMP ASSY BHEL 1000 S/D	5.17	No	No	No	No	
32	PUMP ASSY BHEL 99425	16.46	No	No	No	No	
33	PUMP ASSY BHEL 20346	24.85	No	No	No	No	
34	COMPLETE VACUUM PUMP TAE	71.04	No	NO	No	No	
35	ROW ASSY BOX HP VPS MAKE INDO RIGAFCO	8.04	No	No	No	No	
36	BOOK NEW MAKE COMPRESSOR OF 25 TR	7.88	No	No	No	No	
37	PISTON ASSY 3 NOMT FOR COMP SHAFT	1.32	No	No	No	No	
38	PISTON ASSY 3 NMB FOR COMP SHAFT	1.21	No	No	No	No	
39	PISTON 3 NOMA VSL NO SHAFT OPT	0.73	No	No	No	No	
40	PISTON 2 NOTTERY	1.27	No	No	No	No	
41	PISTON ASSY BOHAM KPCL 1 HB & NOT	12.94	No	No	No	No	
42	ELEMENT ASSY 2NB 10 24 00 KOMEI CO	53.78	No	No	No	No	
43	INDICATOR ASSY 2NB 10 01 00 KOMEI CO	44.03	No	No	No	No	
44	VACUUM PUMP USHA UNV 1610	99.34	No	No	No	No	
45	PORTABLE AIR BLOWER COMPLETE INSULATED	1.77	No	No	[illegible]	[illegible]	
46	ATTA CLAY COMPLETE ASSY	3.39	No	No	No	No	
47	COMPLETE VALVE ASSY GAT 1608 004	8.33	No	No	[illegible]	[illegible]	
48	ACID ENGINE COMPLETE ASSEMBLY	7.43	No	No	[illegible]	[illegible]	

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49	ANGLE VALVE ASSY 80 2014 TR X SEMPELL AG	9.62	No	No	No	No
50	DO 400 FOOTING 5-HT BW COMP VALVE ASSY	8.96	No	No	No	No
51	MAC 11 CONSIRS COMP ETF ASSY	12.06	No	No	No	No
52	GRINDING ROLL T 61 4368 0101 MAZE SHEL	46.91	No	No	No	No
53	SET OF BULL RING SEGMENTS	14.72	No	No	No	No
54	COLLECTING ELECTRODE SIZE 750MMX1350MM	1.55	No	No	No	No
55	IC CONTROLLER/BARCOMP FOR ESP 4&5	19.83	No	No	No	No
56	BY PASS RES VLV TI MS LINE ISOLATION VLV	4.96	No	No	No	No
57	DRUM EMERGENCY DRAIN 5115 SHEL BOILER	4.17	No	No	No	No
58	CBD BYPASS INLET GSA VALVE PART NO 5111	3.78	No	No	No	No
59	COAL COMPARTMENT ASSY OP STY 2(SCOR 3&4)	19.64	No	No	No	No
50	COAL COMPARTMENT ASSY OP STY 2(SCOR 1&2)	4.51	No	No	No	No
51	COAL COMPARTMENT ASSY OP STY 2(SCOR1&2)	24.95	No	No	No	No
52	COAL COMPARTMENT ASSY OP STY 2(COR 3 &4	4.91	No	No	No	No
53	COAL COMPARTMENT ASSY OP STY 2(SCOR3&4)	19.94	No	No	No	No
54	COAL COMPARTMENT ASSY OP STY 2(SCOR 1&2)	14.73	No	No	No	No
55	RADIAL SEAL INLET BM 24 2&4 K SHEL 2X4 98MW	3.63	No	No	No	No
56	RADIAL SEAL INLET BM 2 1&2 SHEL 2X4 98MW	3.87	No	No	No	No
57	GRINDING ROLL ARP 1000 LW MILL 8&7	31.03	No	No	No	No
58	BEVEL PINION SHAFT ARP 1000 ARP 1000 MILL	25.74	No	No	No	No
59	DEV ASSEMBLY 2 OF 2 ARP 1000 MILL 1-2	49.36	No	No	No	No
70	ROLL RING ASSY FOR ARP 1000 MILL	7.50	No	No	No	No
71	SEALING RING DWG 1153 4 1 1000 MB	10.50	No	No	No	No
72	REGULATION CUBICLE TURBO GENERATOR	47.23	No	No	No	No
73	OP REGULATING VALVE 5146320 1 0 1 96000	17.03	No	No	No	No
74	IBD COOLER TUBE NEST DWG 10 127 5 14320-01	3.66	No	No	No	No
75	OP REGULATING VALVE 5146320 1 0 1 96000	17.03	No	No	No	No
76	TILTING PADS FOR THRUST BRG	3.57	No	No	No	No
77	ANGLE DRIVE 90 BRV 150 180 MEVER 160 80/65	22.36	No	No	No	No
78	SEAL RING FOR EE 30MW GENERATOR	3.97	No	No	No	No
79	SEALING RING DWG NO 1 1640 1 0 0000	1.54	No	No	No	No
80	FUSE 6 SHE ASSLY DWG NO 3143 1 0 1 0 0	25.08	No	No	No	No
81	FRAME FOR GEN DIODE	3.38	No	No	No	No
82	BY PASS SHEL ASSY 61 3 0 1 0 0	14.76	No	No	No	No
83	FUSE PART NO 397 OR DIODE WHITE ASSEMBLY	7.23	No	No	No	No
84	1500 PULLEY CA ASSY 1500 MM T 0 240	0.32	No	No	No	No
85	1500 PULLEY CA ASSY 1500 MM T 0 140	0.21	No	No	No	No
86	GEAR BOX CONSISTING OF INTERNAL	2.38	No	No	No	No
87	KO VALVE WITHOUT ACTUATOR SIZE 150MM	0.95	No	No	No	No
88	WORKING STROKE CYL ASSY	5.54	No	No	No	No
89	[illegible] ELECTRICAL HEAT	1.65	No	No	No	No
90	SPRAY NOZZLE [illegible]	0.10	No	No	No	No
91	SPRAY NOZZLE [illegible]	0.92	No	No	No	No
92	SPRAY NOZZLE [illegible]	0.02	No	No	No	No
93	TURBO FUN ROTATOR	26.33	No	No	No	No
94	[illegible]	9.70	No	No	No	No
95	MOTOR [illegible]	3.75	No	No	No	No
96	MOTOR [illegible]	4.87	No	No	No	No
97	MOTOR COMPO [illegible]	33.93	No	No	No	No
98	MOTOR [illegible]	31.84	No	No	No	No
99	[illegible]	3.64	No	No	No	No
100	[illegible]	7.14	No	No	No	No
101	[illegible]	21.11	No	No	No	No
102	[illegible]	21.11	No	No	No	No
103	[illegible]	181.69	No	No	No	No
104	[illegible]	9.99	No	No	No	No
105	[illegible]	6.04	No	No	No	No
106	[illegible]	3.72	No	No	No	No
107	[illegible]	3.08	No	No	No	No

In order to meet the customers demand and maintain high machine availability at all times by the instant station, units/ equipment are taken under overhaul maintenance and inspected regularly for wear and tear. During such works, spares parts of equipment's which became damaged/ unserviceable are replaced/ consumed so that the machine continue to perform at expected efficiency on sustained basis. Further as per Regulation 35(6) of TR 2019, capital spares are admissible separately as part of O&M expenses. Therefore, it is prayed that the capital spares consumed by the instant station during the period may please be allowed by Hon'ble Commission.

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Reason: [illegible] (Financial)
Location: NTPC Limited

108	NUMERICAL FEEDER PROTECTION RELAY 1A	3.09	No	No	No	No	
109	RELAY NUMERICAL/DIGITAL 1A REF 615 ABB	1.06	No	No	No	No	
110	RELY MEAN 220VDC RDM-415 ABB GIVBA1B8BA1XD	2.51	No	No	No	No	
111	TIMER SYNCHRO RELAY TYPE RASC ABB MAKE	0.51	No	No	No	No	
112	LEVEL OSCILLATOR ELEKTRONIKA ET 01	10.29	No	No	No	No	
113	ISOL VALVE FOR TORIP P A3832580 1450 E24	8.32	No	No	No	No	
114	COMPLETE ACTUATOR LEAK SEAL STEAM ACT	12.08	No	No	No	No	
115	SENSOR MOUNTED RAIL FOR IN MOTION WEIGHT	4.37	No	No	No	No	
116	ARGGNERS BELT WEIGHER FOR REMOTE COUNTER	9.13	No	No	No	No	
117	DEACONRST OPK MOT ACTUATOR 4X0MM K1SF10E	0.37	No	No	No	No	
118	COMPLETE ACTUATOR TYPE SIZE 1-1/2S ALMA	16.07	No	No	No	No	
119	SCOOP TUBE ABB ACTUATOR RH2B2C10	18.59	No	No	No	No	
120	INSPECTA Mouseto 2.1 complete	3.06	No	No	No	No	
121	CJC BOX 5 POINT	0.17	No	No	No	No	
122	ANALOG DIP CARD LSC KOP351 MAX DNA BHEL	1.25	No	No	No	No	
123	ANALG DIP CARD KOP351 6823013 33A MAX DNA	0.40	No	No	No	No	
124	DIGITAL DIP CARD MAXDNA KOP351 6823013 51A	0.10	No	No	No	No	
125	LARGE VIDEO SCREEN 87" LED DISPLAY CUBE	11.14	No	No	No	No	
	Total for Dadri Station	**1,538.92**					
	Total for Dadri-I Station	**760.86**					

(Petitioner)

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Reason: ADMIN (Commercial)
Location: NTPC Limited

Details/Information to be Submitted in respect of Capital Spares

PART-I
FORM- 17

Name of the Petitioner:		NTPC Limited					
Name of the Generating Station		National Capital Thermal Power Station-Dte					
							Amount in Rs Lakhs
Sl. No.	Details of Capital Spares and Expenses in 2020-21		Claimed as a part of additional Capitalisation	Funded through Compensatory	Funded through Special Allowance	Claimed as a part of stores and spares	Remarks
	Name of Spare	Value of the Asset					
1	VALVE GA BW CS A216 WCB CLASS 300MB BW/BL	4.24	No	NA	No	No	
2	CLOSE VALVE SS 316 RISING SPINDLE TYPE	0.03	No	NA	No	No	
3	KNIFE GATE VALVE FLGD, RAT CL 300, 200MM	0.01	No	NA	No	No	
4	ASSY FLEXIMAT COUPLING SIZE-18	18.50	No	NA	No	No	
5	GEAR BOX 1/1.21 COMP CYCLO TRANSMISSION	49.56	No	NA	No	No	
6	COMP ASSY ELECON GEAR BOX K/B/250	8.21	No	NA	No	No	
7	LOHMANN GR. SIZE COMPLETE ASSY	0.72	No	NA	No	No	
8	ELECON EHB250 COMP ASSY	1.17	No	NA	No	No	
9	GRC 1/2/1/2 COMPLETE ASSY	3.40	No	NA	No	No	
10	HP ASH WATER PUMP TYPE BAL/FAT 7575	15.04	No	NA	No	No	
11	LP PUMP MODEL BDC 15/220 BEACON WEIR	3.19	No	NA	No	No	
12	JOURNAL BRG HALF DEMO LWER BFP PR FAC'05	1.94	No	NA	No	No	
13	JOURNAL BRG HALF REBIRT LWER BFP FAC'05	0.88	No	NA	No	No	
14	THRUST BRG ASSY BFP PR PUMP FAC'05	2.71	No	NA	No	No	
15	PUMP ASSY KSB 125U 125/40	6.48	No	NA	No	No	
16	PUMP ASSY KSB UP 250/70	5.51	No	NA	No	No	
17	DRAIN RESOLENCE TYPE BUNDLE	4.59	No	NA	No	No	
18	COMPLETE VACUUM PUMP 140	60.14	No	NA	No	No	
19	COMPRESSOR 15 TR MODEL SWC 485	1.05	No	NA	No	No	
20	PISTON CHAMFER AIR COMPRESSOR SHAFT	2.80	No	NA	No	No	
21	HALF PISTON HP 180 FOR SHAFT	0.20	No	NA	No	No	
22	SHAFT HP AIR COMPRESSOR HALF	0.55	No	NA	No	No	
23	CYLINDER TRIPLE HANDLE M SHAFT	1.38	No	NA	No	No	
24	TWO STAGE ASSY 2M K/1/14/10 KOBELCO	49.51	No	NA	No	No	
25	INTERCOOLER ASSY 2M K/1/10 KOBELCO	30.74	No	NA	No	No	
26	MOTOR CRANKSHAFT	0.21	No	NA	No	No	
27	VACUUM PUMP USHA URV 1010	20.70	No	NA	No	No	
28	CRANKSHAFT ROLL MILL 60/120 BHEL	27.45	No	NA	No	No	
29	WORM SHAFT SE DBBL ORP 61/2 BHEL	75.79	No	NA	No	No	
30	PILOT VALVE ASSY DN 4/4 ASUB	1.21	No	NA	No	No	
31	TENB SUP VOLT GATE VV ASSY 200/CSL	9.23	No	NA	No	No	
32	BLADE RING ROTOR 200/TUMAV	73.14	No	NA	No	No	
33	SET OF BALL RING SEGMENTS	1.30	No	NA	No	No	
34	GRINDING ROLLER SPIDER MILL BHEL	53.09	No	NA	No	No	
35	BALL RING ASSY FOR KRP 1/60 MILL	22.01	No	NA	No	No	
36	BALL RING [illegible]	18.89	No	NA	No	No	
37	BALL RING [illegible]	19.80	No	NA	No	No	
38	MOVING BLADE [illegible]	317.41	No	NA	No	No	
39	ROTOR [illegible]	4.47	No	NA	No	No	
40	UP REGULATING VALVE [illegible]	17.53	No	NA	No	No	
41	LP REGULATING VALVE [illegible]	38.26	No	NA	No	No	
42	ASSY DRIVE SPRING [illegible]	14.53	No	NA	No	No	
43	SPARE ROTOR [illegible]	4.80	No	NA	No	No	
44	GEAR BOX [illegible] ELECON EHC TP 282	14.03	No	NA	No	No	
45	[illegible] FOR TYPE LS 313 CONVEYOR	2.25	No	NA	No	No	
46	DRIVER ASSY [illegible]	4.79	No	NA	No	No	
47	[illegible]	13.50	No	NA	No	No	
48	[illegible]	2.41	No	NA	No	No	
49	METAL [illegible]	5.16	No	NA	No	No	
50	[illegible]	2.47	No	NA	No	No	
51	[illegible]	0.92	No	NA	No	No	

In order to meet the customer's demand and maintain high machine availability at all times by the instant station, critical equipment are taken under overhaul maintenance and inspected regularly for wear and tear. During such works spare parts of equipment's which became damaged/ unserviceable are replaced/ consumed so that the machine continue to perform at expected efficiency on sustained basis. Further as per Regulation 35(6) of TR 2019, capital spares are admissible separately as part of O&M expenses. Therefore, it is prayed that the capital spares consumed by the instant station during the period may please be allowed by Hon'ble Commission.

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Reason: [illegible]
Location: NTPC Limited

Details/Information to be Submitted in respect of Capital Spares

PART-I
FORM- 17

Name of the Petitioner:		NTPC Limited					
Name of the Generating Station		National Capital Thermal Power Station Da					
							Amount in Rs Lakhs
Sl. No	Details of Capital Spares and Expenses in 2020-21		Claimed as a part of additional Capitalisation	Funded through Compensatory	Funded through Special Allowance	Claimed as a part of stores and spares	Remarks
	Name of Spare	Value of the Asset					
32	MOTOR SHUNT WOUND 160VDC 91 220M 934	9.20	No	NA	No	No	
33	MOTOR 60/120 DAUT IND 3 3KV 0220-95 47	25.28	No	NA	No	No	
34	220KW 11 KV MOTOR FOR AHP	9.00	No	NA	No	No	
35	INTERFACE BOARD 6DM6 NTH LAD (B&E) VFD	2.74	No	NA	No	No	
36	MODULE 6NG0AP 004	0.65	No	NA	No	No	
37	SPARE FORM 16000 [illegible]	63.41	No	NA	No	No	
38	[illegible] WITH MARSHALLING BOX	17.80	No	NA	No	No	
39	CNT 400 KNT 11 V TYPE CHE4201425	6.66	No	NA	No	No	
40	[illegible]	6.39	No	NA	No	No	
41	[illegible]	2.22	No	NA	No	No	
42	[illegible]	7.66	No	NA	No	No	
43	LIGHTNING ARRESTER SCOPE TAM 53 [illegible]	4.43	No	NA	No	No	
44	DP TRANSMITTER 0-1000MMWC DIAPHRAGM TYPE	0.57	No	NA	No	No	
45	DP TRANSMITTER 0-2500MMWC 1/2 NPT [illegible]	4.50	No	NA	No	No	
46	[illegible]	76.38	No	NA	No	No	
47	[illegible]	142.16	No	NA	No	No	
48	ACTUATOR FIXED SCHEDULE [illegible]	54.60	No	NA	No	No	
49	[illegible]	32.63	No	NA	No	No	
50	KUMA MAKE ACTUATOR TYPE SA12	2.54	No	NA	No	No	
51	[illegible]	10.01	No	NA	No	No	
52	SIEMENS ACTUATORS [illegible]	1.55	No	NA	No	No	
53	[illegible]	0.47	No	NA	No	No	
54	AUTO SYNCHRONISER [illegible]	15.01	No	NA	No	No	
55	[illegible]	0.86	No	NA	No	No	
	[illegible]	80.10					
	Grand Total:	1,777.80					
	Total for Dadri Station	820.43					

(Petitioner)

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Reason: ADM (Commercial)
Location: NTPC Limited

Details/Information to be Submitted in respect of Capital Spares

PART-I
FORM- 17

Name of the Petitioner: NTPC Limited

Name of the Generating Station: National Capital Thermal Power Station Dadri, Stage-I

Amount in Rs Lakhs

Sl. No.	Details of Capital Spares and Expenses in 2021-22		Claimed as a part of additional Capitalisation	Funded through Compensatory Allowance (if Applicable)	Funded through Special Allowance	Claimed as a part of stores and spares	Remarks
	Name of Spare	Value of the Asset					
1	KNIFE GATE VALVE FLGD, AKT CL-150 200MM	3.87	No	NA	No	No	
2	KNIFE GATE VALVE FLGD, AKT CL-150 400MM	6.25	No	NA	No	No	
3	LH CHLD ASSY FLXCOMAT COUPLING SC-11A	17.70	No	NA	No	No	
4	COMP ASSY FLXMIRE COUPLING PST 400	2.20	No	NA	No	No	
5	GEAR BOX ASSY MK-ADJTED H ELECTCH	7.80	No	NA	No	No	
6	PULLEY F 16 KW DIA 400MM 48-160MM	1.24	No	NA	No	No	
7	ELECTCH STAG 100 COMP ASSY	1.11	No	NA	No	No	
8	PUMP ASSY FAL 1000 11MB	12.70	No	NA	No	No	
9	CIRC 200400 COMP PUMP ASSY	1.68	No	NA	No	No	
10	PUMP ASSY CPP-1 1000 400AL	3.70	No	NA	No	No	
11	COMPLETE VACUUM PUMP 140	44.42	No	NA	No	No	
12	ELEMENT ASSY 200 10 D14 SC KOBELCO	66.23	No	NA	No	No	
13	2ND STAGE ASSY 200 10 D14 SC KOBELCO	15.56	No	NA	No	No	
14	ACATC CRANKSHAFT	2.44	No	NA	No	No	
15	VACUUM PUMP 100HA UNY N10	53.37	No	NA	No	No	
16	VALVSON COMPLETE VALVE ASSEMBLY	3.38	No	NA	No	No	
17	VALVSON COMPLETE VALVE ASSEMBLY	2.17	No	NA	No	No	
18	MAIL 1 CRANKS COMPLETE ASSY	10.84	No	NA	No	No	
19	1 CAGE ONCWAT STAMPLUG	2.64	No	NA	No	No	
20	CRANKING ROLL 1 HV 400 PST NETK SHFL	44.69	No	NA	No	No	
21	WORM SHAFT SET SHEL KRP-SIO 210MW	76.68	No	NA	No	No	
22	APH 2 1 1 WMT CONNECCOW FLEXY HE RAD SEAL	1.81	No	NA	No	No	
23	SET OF ROLL RING SEGMENTS	4.91	No	NA	No	No	
24	1ST SPRAY STATES CONTROL VLV PART NO 808	4.19	No	NA	No	No	
25	LANCE TUBE (ASS ALLOY STEEL)	10.85	No	NA	No	No	
26	1st PRY RAW MILL ISOL VLV	5.80	No	NA	No	No	
27	ROLLER ASSEMBLY HORSHAW TO BOT 200A	6.17	No	NA	No	No	
28	EXTENSION BELLOW MILL 1ST OUTLET 1100MM	11.57	No	NA	No	No	
29	RADIAL SEAL NCT SHAFT SHEL 210MW	1.41	No	NA	No	No	
30	RADIAL SEAL NCT PIN STAG SHEL 210MW	1.71	No	NA	No	No	
31	LIVE RUNNING CUTTER FOR HAYH	2.28	No	NA	No	No	
32	CRANKING ROLLER KRP-1 CORONA MILL 8K	31.10	No	NA	No	No	
33	CRANKING ROLLER SCALE KRP-1 SIO	28.34	No	NA	No	No	
34	MOV ASSEMBLY OF KRP HCD MILLS	4.91	No	NA	No	No	
35	BULL RING ASSY OF KRP HCD MILL	10.50	No	NA	No	No	
36	COLLECTING ELECTRODE OF KRP	13.43	No	NA	No	No	
37	FLANGE OF CRANK SHFL	1.80	No	NA	No	No	
38	VALVE SPINDLE PRAYA KRAFT 1ST MILL	1.73	No	NA	No	No	
39	MOVING BLADE L.P. 5 LMB 210MW (1 SET)	208.11	No	NA	No	No	
40	MOVING BLADE L.P. 5 PRO 210MW (1 SET)	208.71	No	NA	No	No	
41	COMPENSATOR ASSY 2 TO 400H HOLE SHFL	1.90	No	NA	No	No	
42	LEAKP 3 OF VALVE OF INTERNAL EXCIPT BODY	32.40	No	NA	No	No	
43	SEALING RING (RING) 1 THE HYDRO	1.84	No	NA	No	No	
44	GEAR COUPLING 1 HYDRO SHFL	1.72	No	NA	No	No	
45	THRUST BEARING 1 HYDRO SHFL 1 K 6	3.44	No	NA	No	No	
46	4 1 HYD 2 REAR JOURNAL BEARING	3.96	No	NA	No	No	
47	HYDRO PULLEY 1 HYDRO SHAFT D 110	3.18	No	NA	No	No	
48	HMI 200 gross	1.11	No	[illegible]	No	No	
49	SHAFT 1 CAT 1 HOLLECON EPC HM 188	12.44	No	[illegible]	No	No	
50	LP 1 CT COMP CHAIN ASSEMBLY	30.29	No	NA	No	No	

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Location: NTPC Limited

30	TELESCOPIC SHUT ASSY TOREX DAMEA-1SN1402C1	1.95	No	NA	No	No	
31	SELF PROPELLED ART BOOM LIFT	61.94	No	NA	No	No	
32	TRACK SHOE ASSY 1SSC13026 BEML DOZER	17.13	No	NA	No	No	
34	DOZER ASSY BEML DOZER BD-155	205.32	No	NA	No	No	
35	ENGINE ASSY E1Z000014 BEML DOZER BD-155	95.22	No	NA	No	No	
36	OIL HUMIDIFIER FVB-1500 DRY AIR	21.24	No	NA	No	No	
37	SPARE COMPLETE ENGINE ASSY	23.51	No	NA	No	No	
38	MAIN CRANKSHAFT 1014-790 ELW	25.92	No	NA	No	No	
39	JACK SF 15 10021 MANL ORVITO E STORO 1500K	1.94	No	NA	No	No	
40	CIRCUIT BREAKER AIR ECA DM00-P800 LBT	1.67	No	NA	No	No	
41	MUSTUS CALCULATION BOARD FOR VFD	12.23	No	NA	No	No	
42	INPUT FIELD DIOTEK BOARD FOR VFD	2.27	No	NA	No	No	
43	XFMR CURR 0SHF 400 ASSY 200VA 5	0.87	No	NA	No	No	
44	HV BUSHING SHEL WMTL FAATS 1PH 15TNGA	8.05	No	NA	No	No	
45	RELY NUM 220V DC REF54 REF541+BRACK 400	1.34	No	NA	No	No	
46	BATTERY RECH 84-DC 48V 200AH	10.11	No	NA	No	No	
47	BAT TERY RECH 84-DC 200V 47TAH	93.19	No	NA	No	No	
48	BATTERY RECH NI-CD 1.2V 4100AH ABCD	103.37	No	NA	No	No	
49	COMPL DRY CELL FOR 220V 200AH BATTERY AM	125.99	No	NA	No	No	
50	TURN RATIO TESTER SCHMITZ PWR3A 230V	4.13	No	NA	No	No	
51	RESISTANCE METER SCOPE T&M HSAC ULTRA	24.50	No	NA	No	No	
52	KOOP SR ACTUATOR	0.34	No	NA	No	No	
53	AUMA ACTUATOR SA 05AM/WRPM	1.19	No	NA	No	No	
54	ACTUATOR TYPE KSP 12L 44 RPM MOTOR 220DP	2.04	No	NA	No	No	
55	SUV EXTENDER MODULE DPOTI PN 0820-1311A	5.12	No	NA	No	No	
56	DIGITAL INPUT 24 DC KP103 EDS82X03-0B	3.60	No	NA	No	No	
57	LVS PROTECTOR 3W1 0VM PLANAR	174.39	No	NA	No	No	
	Total for Dash Station	2,215.19					
	Total for Dash-I Station	1,968.55					

(Petitioner)

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Location: NTPC Limited

PART-I
FORM-17

Details/Information to be Submitted in respect of Capital Spares

Name of the Petitioner: NTPC Limited

Name of the Generating Station: National Capital Thermal Power Station Dadri, Stage-I

Amount in Rs Lakhs

Sl. No.	Details of Capital Spares and Expenses in 2022-23		Claimed as a part of additional Capitalisation	Funded through Compensatory Allowance	Funded through Special Allowance	Claimed as a part of stores and spares	Remarks
	Name of Spare	Value of the Asset					
1	BEARING R.H. THRUST TAPERED SINGLE T11000	4.59	No	NA	No	No	
2	ROTOR FUSE SWITCH VOTH R.H.-1	5.24	No	NA	No	No	
3	GEAR BOX RATIO 3.45:1 MPS 100 HORIZONAL	11.21	No	NA	No	No	
4	1ST INT PINION ELECTRIC DEACON 115 20:1	5.35	No	NA	No	No	
5	2ND INT PINION 1 DR 20.3:1 ELECTRIC DEACON	9.86	No	NA	No	No	
6	COMP ASSY ELECTRIC GEAR BOX NK 400 325	10.01	No	NA	No	No	
7	COMP ASSY ELECTRIC GEAR BOX DEACON 14:1	24.51	No	NA	No	No	
8	PINION SHAFT 1 MOTH IS TRIVENI GEAR BOX	5.10	No	NA	No	No	
9	ELECTRIC BOAD BRT COMP ASSY	5.10	No	NA	No	No	
10	PUMP HEAD 125 200MM FLOOD 40 MOTHRO	2.74	No	NA	No	No	
11	PUMP HEAD 125 200MM FLOOD 40 MOTHRO	30.06	No	NA	No	No	
12	FAULT IMPELLER 1ST STAGE	1.77	No	NA	No	No	
13	FAULT IMPELLER 3RD STAGE	1.77	No	NA	No	No	
14	FAULT IMPELLER 4TH STAGE	1.77	No	NA	No	No	
15	IMPELLER KICKER STUMO WEIR BFP FAULT	1.43	No	NA	No	No	
16	THRUST BRGN 3 PISH SUT HP PUMP FAULT	2.71	No	NA	No	No	
17	PUMP SHAFT OLYDE BFP FAULT	0.44	No	NA	No	No	
18	PUMP SHAFT NO 1 PRODUC SHELL HP BFP	1.42	No	NA	No	No	
19	JOURNAL BRG NO 1 FAULT SHELL HP BFP	0.35	No	NA	No	No	
20	FAULT INTER STAGE IMPELLER	5.31	No	NA	No	No	
21	ROTOR WASH IND PUMP AT DRAFT 2005	0.37	No	NA	No	No	
22	IMPELLER 1 ST CHET 2010 STA	40.39	No	NA	No	No	
23	SHAFT 1 ST CHET 2010 STA	35.99	No	NA	No	No	
24	ATOMISER SR DE BFP 1 DRIVE COMPLETE ASSY	1.36	No	NA	No	No	
25	COMPLETE VACUUM PUMP 140	42.53	No	NA	No	No	
26	COMPRESSOR AIR DRYING UNIT	9.62	No	NA	No	No	
27	SERVICE STAGE MAGNUM LATAZ CORCO	44.69	No	NA	No	No	
28	COMPLETE PISTON ASS OF DA 210 METHANTYR	0.26	No	NA	No	No	
29	COUPLER 30 WAHU TRIBEENT	10.32	No	NA	No	No	
30	ELEMENT ASSY PAC 10 DUS NORELCO	47.15	No	NA	No	No	
31	COMPLETE MOD ASSY 20 WOOD	0.14	No	NA	No	No	
32	VACUUM PUMP DRA DRY 10 V2	30.38	No	NA	No	No	
33	COMPLETE VALVE ASSY MOTH AND WINGLASS	0.41	No	NA	No	No	
34	SUPER CLEAN FLUID COMMAGALL SHELL HP BFP	3.03	No	NA	No	No	
35	MAIN VERTICAL SHAFT 2 SHELL HP BFP	1.31	No	NA	No	No	
36	GATE VALVE 100 NB BIG WINGLASS	1.80	No	NA	No	No	
37	HOT END MOTOR FAULT	27.66	No	NA	No	No	
38	APPLIES PART CHAMCLAN PLEY HE RAN SEAL	1.37	No	NA	No	No	
39	GEAR COUPLING SUB BR 100 FOR CRUSHAC	1.01	No	NA	No	No	
40	GEAR COUPLING SUB BR 110 FOR TRIVENI	1.16	No	NA	No	No	
41	PINION MAIN 100 OPTIMUM RATIO VERIFY NO 8117	4.61	No	NA	No	No	
42	[illegible]	12.76	No	NA	No	No	
43	[illegible]	1.03	No	NA	No	No	
44	[illegible]	1.74	No	NA	No	No	
45	[illegible]	1.93	No	NA	No	No	
46	[illegible]	1.14	No	NA	No	No	
47	[illegible]	1.37	No	NA	No	No	
48	[illegible]	2.01	No	NA	No	No	
49	[illegible]	17.46	No	NA	No	No	
50	SEAL OIL RIP COMPLETE ASSY	1.28	No	NA	No	No	
51	TEST VALVE MAKATANI HOT SHE	4.31	No	NA	[illegible]	No	
52	HOT VALVE ASSY DAC 51 MOTH 10 TB	1.78	No	NA	[illegible]	No	
53	EXCITER SEAL RING 1 UN 2 HOT MOMAN	1.40	No	NA	[illegible]	No	

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Location: NTPC Limited

Details/Information to be Submitted in respect of Capital Spares

PART-I
FORM- 17

Name of the Petitioner: NTPC Limited

Name of the Generating Station: National Capital Thermal Power Station Dadri, Stage-2

Amount in Rs Lakhs

Sl. No.	Details of Capital Spares and Expenses in 2022-23		Claimed as a part of additional Capitalisation	Funded through Compensatory Allowance	Funded through Special Allowance	Claimed as a part of stores and spares	Remarks
	Name of Spare	Value of the Asset					
14.	T-END SEAL RING (1.39X47.00X VIKRON) 5000KV	3.42	No	NA	No	No	In order to meet the customers demand and maintain high machine availability at all times by the instant station, units/ equipment are taken under overhaul maintenance and inspected regularly for wear and tear. During such visits, spares parts of equipments which become damaged/ unserviceable are replaced/ consumed so that the machine continue to perform at expected efficiency on sustained base. Further as per Regulation 30(6) of TR 2019, capital spares are admissible separately as part of O&M expenses. Therefore, it is prayed that the capital spares consumed by the instant station during the period may please be allowed by Hon'ble Commission.
15.	BEARING SHELL ASSY 4.7/8X4.7/8X	84.34	No	NA	No	No	
16.	[illegible]	0.31	No	NA	No	No	
17.	[illegible]	2.45	No	NA	No	No	
18.	GEAR COUPLING [illegible] SHEL	4.73	No	NA	No	No	
19.	[illegible] JOURNAL BEARING	2.30	No	NA	No	No	
20.	CARTRIDGE ASSY FOR [illegible]	12.60	No	NA	No	No	
21.	ROTOR ASSY [illegible]	10.20	No	NA	No	No	
22.	[illegible]	1.73	No	NA	No	No	
23.	[illegible] PUMP ELECTRICAL [illegible]	7.47	No	NA	No	No	
24.	[illegible]	10.99	No	NA	No	No	
25.	AXIAL PISTON PUMP [illegible] ELECTRICAL [illegible]	27.35	No	NA	No	No	
26.	[illegible] OIL COOLER	2.17	No	NA	No	No	
27.	[illegible]	12.15	No	NA	No	No	
28.	[illegible]	1.17	No	NA	No	No	
29.	[illegible]	1.31	No	NA	No	No	
30.	[illegible]	1.06	No	NA	No	No	
31.	[illegible]	5.24	No	NA	No	No	
32.	[illegible]	11.61	No	NA	No	No	
33.	[illegible]	100.56	No	NA	No	No	
34.	[illegible]	3.90	No	NA	No	No	
35.	[illegible]	6.13	No	NA	No	No	
36.	[illegible]	10.67	No	NA	No	No	
37.	[illegible]	2.40	No	NA	No	No	
38.	[illegible]	2.41	No	NA	No	No	
39.	[illegible]	4.64	No	NA	No	No	
40.	[illegible]	10.47	No	NA	No	No	
41.	[illegible]	2.36	No	NA	No	No	
42.	[illegible]	23.40	No	NA	No	No	
43.	[illegible]	47.26	No	NA	No	No	
44.	[illegible]	20.30	No	NA	No	No	
45.	[illegible]	8.71	No	NA	No	No	
46.	[illegible]	29.23	No	NA	No	No	
47.	[illegible]	3.73	No	NA	No	No	
48.	[illegible]	3.98	No	NA	No	No	
49.	[illegible]	7.50	No	NA	No	No	
50.	[illegible]	3.49	No	NA	No	No	
51.	[illegible]	13.92	No	NA	No	No	
52.	[illegible]	3.36	No	NA	No	No	
53.	[illegible]	4.28	No	NA	No	No	
54.	[illegible]	2.98	No	NA	No	No	
55.	[illegible]	12.83	No	NA	No	No	
56.	[illegible]	3.95	No	NA	No	No	
57.	[illegible]	41.60	No	NA	No	No	
58.	[illegible]	2.47	No	NA	No	No	
59.	[illegible]	1.36	No	NA	No	No	
60.	[illegible]	3.71	No	NA	No	No	
61.	[illegible]	3.51	No	NA	No	No	
62.	[illegible]	32.64	No	NA	No	No	
63.	[illegible]	3.13	No	NA	No	No	
64.	[illegible]	11.93	No	NA	No	No	
65.	[illegible]	11.84	No	NA	No	No	
66.	[illegible]	4.14	No	NA	No	No	

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Location: NTPC Limited

Details/Information to be Submitted in respect of Capital Spares

PART-I
FORM-17

Name of the Petitioner: NTPC Limited

Name of the Generating Station: National Capital Thermal Power Station Dadri, Stage-I

Amount in Rs Lakhs

Sl. No.	Details of Capital Spares and Expenses in 2022-23		Claimed as a part of additional Capitalisation	Funded through Compensatory Allowance	Funded through Special Allowance	Claimed as a part of stores and spares	Remarks
	Name of Spare	Value of the Asset					
107	ACTUATOR ELT 400NM FLO SK33 1-F30 AUMA	16.94	No	NA	No	No	
108	COMPLETE ELECTURE ACTUATOR KMS 12E 1SKF05	1.04	No	NA	No	No	
109	ELECACTUATOR K 100 F10A MAKE ROTORK	0.63	No	NA	No	No	
110	MOVING COIL DISCONNECTOR SIEMENS TOFRINE	18.41	No	NA	No	No	
111	CABLE FAULT LOCATOR 4 TO 33KV MULTIFUN	35.84	No	NA	No	No	
112	JOC BOX 2 POINT	1.66	No	NA	No	No	
113	JOC BOX PT BOX 4 TO 20 24VDC	0.74	No	NA	No	No	
114	ANALOG I/P CARD ISO 30P307 MAX DNA (BHEL	1.82	No	NA	No	No	
115	ANALOG INPUT MODULE 8 POINT CARD MAX DNA	0.43	No	NA	No	No	
116	ANALO O/P CARD 30P308 6020/1120A MAX DNA	2.21	No	NA	No	No	
117	8 30MA ANALOG OUTPUT CONTROLLER CARD	0.40	No	NA	No	No	
118	DIGITAL O/P CARD MAX DNA 30P301 6020/1010 NA	1.70	No	NA	No	No	
119	LCD PROJECTOR 86" SMART PLANAR	55.90	No	NA	No	No	
120	PRIM PROCESS MODULE FOR 3000 INSTRCS	34.83	No	NA	No	No	
121	DNOC WRKSTN SOFTWARE PROC CNTROL (BHEL	165.20	No	NA	No	No	
	Total for Dadri Station	1,638.67					
	Total for Dadri-I Station	796.31					

(Petitioner)

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Location: NTPC Limited

Details Information to be Submitted in respect of Capital Spares

PART-I
FORM- 17

Name of the Petitioner: NTPC Limited

Name of the Generating Station: National Capital Thermal Power Station Dadri, Stage-I

Amount in Rs. Lakhs

Sl. No.	Details of Capital Spares and Expenses in 2023-24		Claimed as a part of additional Capitalisation	Funded through Compensatory Allowance	Funded through Special Allowance	Claimed as a part of stores and spares	Remarks
	Name of Spare	Value of the Asset					
1	KNIFE GATE VALVE FLOS, ART CO-HS 400MM	4.25	No	NA	No	No	
2	[illegible]	2.62	No	NA	No	No	
3	COMP ASSY / LIROOMAT COOR INCL SC-16	51.95	No	NA	No	No	
4	GEAR BOX RATIO 2.49:1 RPM-1500 HORIZONTAL	13.50	No	NA	No	No	
5	PUMP HEAD 200 [illegible]	16.00	No	NA	No	No	
6	ENGINE PUMP SHAFT UPPER	3.32	No	NA	No	No	
7	ENGINE PUMP SHAFT LOWER	1.21	No	NA	No	No	
8	PUMP ASSY KIRLUP 200 ST	8.25	No	NA	No	No	
9	PUMP ASSY [illegible]	4.75	No	NA	No	No	
10	COMPLETE VACUUM PUMP 142	77.35	No	NA	No	No	
11	CYLINDER 1100M HANDLE M SHAFT RT	1.30	No	NA	No	No	
12	COMPLETE PISTON ASSY DIA 210 M SHAFTER	2.30	No	NA	No	No	
13	PISTON ASSY [illegible]	2.30	No	NA	No	No	
14	[illegible]	37.95	No	NA	No	No	
15	VACUUM PUMP [illegible]	61.95	No	NA	No	No	
16	[illegible] COMPLETE VALVE ASSEMBLY	8.21	No	NA	No	No	
17	[illegible]	81.62	No	NA	No	No	
18	[illegible]	4.24	No	NA	No	No	
19	[illegible]	5.30	No	NA	No	No	
20	[illegible]	6.08	No	NA	No	No	
21	[illegible]	3.10	No	NA	No	No	
22	[illegible]	25.49	No	NA	No	No	
23	DRUM EMERGENCY DRAIN 210 [illegible]	7.00	No	NA	No	No	
24	RADIAL SEAL MC TRIM [illegible]	4.40	No	NA	No	No	
25	RADIAL SEAL MC TRIM [illegible]	4.12	No	NA	No	No	
26	[illegible]	11.80	No	NA	No	No	
27	BULL RING ASSY FOR ARP 1000 MILL	3.00	No	NA	No	No	
28	[illegible]	5.60	No	NA	No	No	
29	[illegible]	3.60	No	NA	No	No	
30	[illegible]	2.12	No	NA	No	No	
31	[illegible]	4.67	No	NA	No	No	
32	[illegible]	8.94	No	NA	No	No	
33	[illegible]	72.37	No	NA	No	No	
34	[illegible]	36.32	No	NA	No	No	
35	[illegible]	45.01	No	NA	No	No	
36	[illegible]	13.74	No	NA	No	No	
37	[illegible]	45.60	No	NA	No	No	
38	[illegible]	26.13	No	NA	No	No	
39	[illegible]	4.61	No	NA	No	No	
40	[illegible]	5.40	No	NA	No	No	
41	[illegible]	2.50	No	NA	No	No	
42	[illegible]	4.47	No	NA	No	No	
43	[illegible]	1.50	No	NA	No	No	
44	[illegible]	1.14	No	NA	No	No	
45	[illegible]	34.75	No	NA	No	No	
46	[illegible]	55.23	No	NA	No	No	
47	[illegible]	2.01	No	NA	No	No	
48	[illegible]	0.71	No	NA	No	No	
49	[illegible]	1.37	No	NA	No	No	
50	[illegible]	0.58	No	NA	No	No	
51	[illegible]	0.60	No	NA	No	No	

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Provider of Remuneration [illegible]

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Location: NTPC Limited

Details Information to be Submitted in respect of Capital Spares

PART-I
FORM- 17

Name of the Petitioner: NTPC Limited

Name of the Generating Station: National Capital Thermal Power Station (Jhajjar, Stage-I)

Amount in Rs Lakhs

Sl. No.	Details of Capital Spares and Expenses in 2023-24		Claimed as a part of additional Capitalisation	Funded through Compensatory Allowance	Funded through Special Allowance	Claimed as a part of stores and spares	Remarks
	Name of Spare	Value of the Asset					
32	MOTOR BRGS. MAIN BEARING SHELL 3040	3.17	No	NA	No	No	
33	GEAR BOX ASSY ELECON KQ6310 20:1	34.85	No	NA	No	No	
34	COMP ASSY ELECON KQ6310	90.40	No	NA	No	No	
35	COMP ASSY ELECON GEAR BOX NR KQ1001 80:1	24.90	No	NA	No	No	
36	GEAR BOX ASSY ELECON GBN 2000H 14:1	9.28	No	NA	No	No	
37	COMP ASSY ELECON GEAR BOX VRSS 424 737 +	98.31	No	NA	No	No	
38	GEAR BOX FLINDER FDN630	11.26	No	NA	No	No	
39	GEAR BOX ASSY MAKE: NR-2200N	14.73	No	NA	No	No	
40	COMP ASSY PREMIUM ENERGY GEAR BOX H1-136	8.02	No	NA	No	No	
41	GEARED MOTOR PET SPCTM-250 NGN-4/30	2.21	No	NA	No	No	
42	PULLEY F-15 SET DIA 450MM W-160MM	1.09	No	NA	No	No	
43	PULLEY F-15 SET DIA 450MM W-160MM	1.09	No	NA	No	No	
44	PUMP HEAD 30-40M FLOW 170-190M3/HR	17.74	No	NA	No	No	
45	STORE WTR PUMP ASSY FLOWMORE FIG-2302	13.90	No	NA	No	No	
46	SHF 2125 COMP MECH SEAL ASSY	9.58	No	NA	No	No	
47	UCC AH COMPLETE ASSY	1.06	No	NA	No	No	
48	KIRLOSKAR PUMP ASSY MODEL:DSM 100/35	2.31	No	NA	No	No	
49	OIL PUMP ASSY KAMETA HS 10/16	22.79	No	NA	No	No	
50	PUMP ASSY AN THERSPLAYT 100/125 IPKK 30HP	10.53	No	NA	No	No	
51	WATER PUMP ASSY MAKE LOW GH 20 100	6.14	No	NA	No	No	
52	VACUUM PUMP ASSY NASH IND 2BET 302/7V4	114.31	No	NA	No	No	
53	PUMP ASSY SAW TOOTH 27U14	16.29	No	NA	No	No	
54	WARMAN MAKE ASH SLURRY PUMP 300 X24H	6.14	No	NA	No	No	
55	HI DRO COMP PUMP ASSY	30.61	No	NA	No	No	
56	REPAIR OF BOWL ASSEMBLY	67.50	No	NA	No	No	
57	SET FOR BOWL HEADS CONSUMA HF 80 LCCW	11.90	No	NA	No	No	
58	CHAIN SHAFT FOR BOWL NO 3840 AS	1.72	No	NA	No	No	
59	CHAIN SHAFT FINAL VIBER NOS 18 (NALTERS)	4.27	No	NA	No	No	
60	PISTON ASSY BEARS SLIPOL THERMISET	28.78	No	NA	No	No	
61	PISTON UP. PART NO 3040/0/0/0	0.80	No	NA	No	No	
62	CYLINDER U.P. FOR 316	5.38	No	NA	No	No	
63	CLUBE VALVE ASSY (BHEL)	6.13	No	NA	No	No	
64	TANLE FEEDER BASIC ASSY	2.79	No	NA	No	No	
65	3 P SQC MOTOR BSD NO 3/V 250 CLASS	4.07	No	NA	No	No	
66	OIL PAN 800 1000 VICS 22 MM	4.83	No	NA	No	No	
67	OIL RING SHELL 10 FAN AP 1-13/11	60.80	No	NA	No	No	
68	BOW HUB ASSY FOR KAP 800 MC	4.12	No	NA	No	No	
69	START UP VENT LINE BOX VALVE BOILER	4.36	No	NA	No	No	
70	SAFETY VALVE DRAIN INDICATING VALVE	6.11	No	NA	No	No	
71	SB SAFETY VALVE NO 2/2/1/1/1/1/1/1/2/2/2	4.77	No	NA	No	No	
72	DIRECTION PLATE ASSY (BHEL)	35.33	No	NA	No	No	
73	SHF FLANGE MECH SEAL COMPLETE	5.74	No	NA	No	No	
74	SLIP SHAFT DRG NO 1/1/1/1/1/1/2/2/2	2.14	No	NA	No	No	
75	OIL SEALING RING 2/2/2/1/1/1/1/2/2/2 (BHEL)	22.97	No	NA	No	No	
76	VALVE COMP WITH SPINDLE 2/2/1/1/1/2/2/2/4	11.11	No	NA	No	No	
77	COMPENSATOR SPARES DRG 1/1/1/1/1/1/1/1/2/2/2	3.98	No	NA	No	No	
78	DELUTE FLINDER F NO 2/2/2/2/2/2	6.70	No	NA	No	No	
79	OIL SEALING RING MACHINE 2/2/2/1/1/2/2/2/2	22.84	No	NA	No	No	
80	OIL SEALING RING UNMACHINE 2/1/1/1/1/1/1/1/1/1/1	22.11	No	NA	No	No	
81	OIL SEALING RING MACHINED 2/2/2/1/1/2/2/2/2	8.34	No	NA	No	No	
82	SHF SHAFT SEALING REAR 1/1/1/1/1/1/1/1/1/1/1 (BHEL)	21.87	No	NA	Capitally accepted By [illegible]	No	

In order to meet the customers demand and maintain high machine availability at all times by the instant station, units/ equipment are taken under overhaul/ maintenance and inspected regularly for wear and tear. During such works, spares/ parts of equipment's which become damaged/ unserviceable are replaced/ consumed so that the machine continue to perform at expected efficiency on sustained basis. Further as per Regulation 35(6) of TR 2019, capital spares are admissible separately as part of O&M expenses. Therefore, it is prayed that the capital spares consumed by the instant station during the period may please be allowed by Hon'ble Commission.

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Details Information to be Submitted in respect of Capital Spares

PART-I
FORM- 17

Name of the Petitioner: NTPC Limited

Name of the Generating Station: National Capital Thermal Power Station (Ext. Stage-I)

Amount in Rs. Lakhs

Sl. No.	Details of Capital Spares and Expenses in 2023-24		Claimed as a part of additional Capitalisation	Funded through Compensatory Allowance	Funded through Special Allowance	Claimed as a part of stores and spares	Remarks
	Name of Spare	Value of the Asset					
103	VALVE SEAT [illegible]	0.66	No	NA	No	No	
104	[illegible]	0.44	No	NA	No	No	
105	MOVING BLADE [illegible]	300.75	No	NA	No	No	
106	HYDROGEN COOLER UNIT [illegible]	109.70	No	NA	No	No	
107	ROTOR SHAFT [illegible]	23.41	No	NA	No	No	
108	HYD CYLINDER [illegible]	14.75	No	NA	No	No	
109	[illegible]	80.60	No	NA	No	No	
110	1400 NO PULLEY [illegible]	37.58	No	NA	No	No	
111	1600 PULLEY [illegible]	0.32	No	NA	No	No	
112	1600 PULLEY [illegible]	0.60	No	NA	No	No	
113	1600 PULLEY [illegible]	0.40	No	NA	No	No	
114	GEAR BOX [illegible]	26.56	No	NA	No	No	
115	[illegible]	9.26	No	NA	No	No	
116	LOADER [illegible]	53.60	No	NA	No	No	
117	[illegible]	9.72	No	NA	No	No	
118	[illegible]	24.97	No	NA	No	No	
119	[illegible]	44.31	No	NA	No	No	
120	[illegible]	4.05	No	NA	No	No	
121	[illegible]	7.45	No	NA	No	No	
122	[illegible]	5.86	No	NA	No	No	
123	[illegible]	9.67	No	NA	No	No	
124	[illegible]	16.16	No	NA	No	No	
125	[illegible]	9.56	No	NA	No	No	
126	[illegible]	1.16	No	NA	No	No	
127	[illegible]	0.94	No	NA	No	No	
128	[illegible]	4.48	No	NA	No	No	
129	[illegible]	3.12	No	NA	No	No	
130	[illegible]	1.72	No	NA	No	No	
131	[illegible]	3.95	No	NA	No	No	
132	[illegible]	13.67	No	NA	No	No	
133	[illegible]	3.14	No	NA	No	No	
134	[illegible]	0.41	No	NA	No	No	
135	[illegible]	23.84	No	NA	No	No	
136	[illegible]	14.39	No	NA	No	No	
137	[illegible]	0.53	No	NA	No	No	
138	[illegible]	1.18	No	NA	No	No	
139	[illegible]	0.51	No	NA	No	No	
140	NUMERICAL BASED DISTANCE PROT RELAY	7.01	No	NA	No	No	
141	[illegible]	6.58	No	NA	No	No	
142	[illegible]	6.32	No	NA	No	No	
143	[illegible]	3.19	No	NA	No	No	
144	[illegible]	1.70	No	NA	No	No	
145	[illegible]	1.72	No	NA	No	No	
146	[illegible]	3.07	No	NA	No	No	
147	[illegible]	5.91	No	NA	No	No	
148	[illegible]	16.67	No	NA	No	No	
149	[illegible]	10.01	No	NA	No	No	
150	[illegible]	27.4	No	NA	No	No	
151	[illegible]	4.35	No	NA	No	No	
152	[illegible]	2.98	No	NA	No	No	
153	[illegible]	11.80	No	NA	No	No	

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Location: NTPC Limited

Details/Information to be Submitted in respect of Capital Spares

PART-I
FORM- 17

Name of the Petitioner: NTPC Limited

Name of the Generating Station: National Capital Thermal Power Station Dadri, Stage-I

Amount in Rs Lakhs

Sl. No.	Details of Capital Spares and Expenses in 2023-24		Claimed as a part of additional Capitalisation	Funded through Compensatory Allowance	Funded through Special Allowance	Claimed as a part of stores and spares	Remarks
	Name of Spare	Value of the Asset					
154	[illegible]	5.38	No	NA	No	No	
155	[illegible]	10.21	No	NA	No	No	
156	[illegible]	0.15	No	NA	No	No	
157	[illegible]	0.24	No	NA	No	No	
158	[illegible]	0.48	No	NA	No	No	
159	[illegible]	2.40	No	NA	No	No	
160	[illegible]	[illegible]	No	NA	No	No	
161	[illegible]	8.37	No	NA	No	No	
162	[illegible]	1.62	No	NA	No	No	
163	[illegible]	0.56	No	NA	No	No	
164	[illegible]	0.41	No	NA	No	No	
165	[illegible]	1.02	No	NA	No	No	
166	[illegible]	1.01	No	NA	No	No	
167	[illegible]	0.51	No	NA	No	No	
168	[illegible]	0.35	No	NA	No	No	
169	[illegible]	17.37	No	NA	No	No	
	Total for Dadri Station	2,811.71					
	Total for Dadri-I Station	1,397.74					

(Petitioner)

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Date: 2024 17 14:26 IST
Reason: ACM (Commercial)
Location: NTPC Limited

Non-Tariff Income

PART 1
Form-19

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I

(in Rs. Lakh)

S. No.	Parameters	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	Income from rent of land or buildings*		154.88	147.05	18.42	492.44	135.65
2	Income from sale of scrap*		41.89	23.39	10.09	223.54	309.17
	Total		197	170	28	715	445

*Non-Tariff income as per above statement is 50% of the total income shared as per extant regulations.

(Petitioner)

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Date: 2024 IST 14:29 IST
Reason: AOA
Location: NTPC Limited

PART-II

FORM- 19

Details of Water Charges

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I

S. No.		Details of Water charges (excluding water cess)		Normative consumption at 100% PLF	Rate specified (as per govt. notification or agreement)	Spillage of water (in percentage)	Amount (in Rs. Lakh) Claimed
	Year	Name of source and quantity	Amount (in Rs. Lakh)	Unit- Cusec			
1.	2019-20	Upper Ganga Canal	93.06	28.84	Water Charge Rs 12.46/1000 Cubic feet Royalty: 6 Lakh/Cusec/Year	Nil	93.06
2.	2020-21		79.27	28.84	Water Charge Rs 12.46/1000 Cubic feet Royalty: 6 Lakh/Cusec/Year	Nil	79.27
3.	2021-22		84.90	28.84	Water Charge Rs 12.46/1000 Cubic feet Royalty: 6 Lakh/Cusec/Year	Nil	84.90
4.	2022-23		159.89	28.84	Water Charge Rs 12.46/1000 Cubic feet Royalty: 6 Lakh/Cusec/Year	Nil	159.89
5.	2023-24		129.28	28.84	Water Charge Rs 12.46/1000 Cubic feet Royalty: 6 Lakh/Cusec/Year	Nil	129.28

Note- Water charge notification is attached as Annexure-11.

(Petitioner)

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Date: 2024 IST 14:29 IST
Reason: AGM (Commercial)
Location: NTPC Limited

			PART 1
			FORM- 20
Details of Statutory Charges			
Name of the Petitioner	NTPC Limited		
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-		
Particulars	Unit Rate	No of Units	Amount Claimed
Electricity Duty	Not Applicable		
Water Cess			
			(Petitioner)

Document verified by PARWAN
Digitally signed by PARWAN
Date: 2024
Reason: AGM (Commercial)
Location: NTPC Limited

PART-I
FORM-I

Details of decapitalization during 2019-20

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
Station COD	01-12-1995
For Financial Year	2019-20

Amount in Rs Lakh

A. Decap of Spares - Part of Capital Cost

S.N	Name of the Asset	Nature of de-capitalization (whether claimed under exclusion or as additional capital expenditure)	Value of the Asset decapitalised as per IndAS	IndAS Adjustment	Value of the Asset decapitalised as per IGAAP	Year Put to use	Depreciation recovered till date of decapitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
1	Decap of Spares	Claimed under Additional Capitalization	1.02	-	1.02	1990-91	0.92	No
2			5.48	16.44	21.92	1991-92	19.73	No
3			43.60	130.80	174.39	1992-93	157.13	No
4			0.06	0.04	0.10	1993-94	0.04	No
		Sub-total: (A)	50.25	147.88	198.13		178.31	

B. Decap corresponding to R&M of Critical Piping

S.N	Name of the Asset	Nature of de-capitalization (whether claimed under exclusion or as additional capital expenditure)	Value of the Asset decapitalised as per IndAS	IndAS Adjustment	Value of the Asset decapitalised as per IGAAP	Year Put to use	Depreciation recovered till date of decapitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
1	Unit-I	Claimed under Additional Capitalization	2.78	24.99	27.76	1992-93	24.99	No
2	Unit-II		2.63	23.64	26.27	1993-94	23.64	No
3	Unit-III		2.78	24.99	27.76	1992-93	24.99	No
4	Unit-IV		1.82	16.35	18.17	1990-91	16.35	No
		Sub-total: (B)	9.9971	89.97	99.97		89.97	

C. Decap of MBOAs - Part of Capital Cost

S.N	Name of the Asset	Nature of de-capitalization (whether claimed under exclusion or as additional capital expenditure)	Value of the Asset decapitalised as per IndAS	IndAS Adjustment	Value of the Asset decapitalised as per IGAAP	Year Put to use	Depreciation recovered till date of decapitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
1	Furniture & fixtures	Claimed under Additional Capitalization	-	0.05	0.05	1988-89	0.04	No
2			0.07	0.62	0.69	1989-90	0.62	No
3			0.06	0.54	0.60	1990-91	0.54	No
4			-	0.05	0.05	1991-92	0.05	No
5			-	0.01	0.01	1994-95	0.01	No
6			-	0.47	0.47	1995-96	0.43	No
7			-	0.08	0.08	1996-97	0.07	No
8			-	0.02	0.02	1998-99	0.02	No
9			0.05	0.25	0.30	2000-01	0.27	No
10	Office Equipments	Claimed under Additional Capitalization	0.06	0.50	0.56	1989-90	0.50	No
11			-	0.21	0.21	1991-92	0.19	No
12			0.04	0.38	0.42	1996-97	0.32	No
13	Electrical installations	Claimed under Additional Capitalization	0.12	1.10	1.23	1993-94	1.10	No
14	Hospital Equipments	Claimed under Additional Capitalization	0.02	0.14	0.16	1989-90	0.14	No
15			0.03	0.27	0.30	1991-92	0.27	No
16			0.49	4.35	4.85	1992-93	4.35	No
17			0.98	9.00	10.00	1993-94	9.00	No
18			0.02	0.22	0.25	[illegible]	0.22	No
19			0.94	8.48	9.42	[illegible]	8.48	No

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Reason: [illegible]
Location: NTPC Limited

PART-I
FORM-I

Details of decapitalization during 2019-20

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
Station COD	01-12-1995
For Financial Year	2019-20

									Amount in Rs Lakh
20			3.60	8.81	12.41	1999-00		11.17	No
21			0.97	2.23	3.19	2020-21		2.79	No
		Sub-total: (C)	7.38	37.98	45.31			40.77	
D	Decap of Spares - Not part of Capital Cost								
S.N	Name of the Asset	Nature of de-capitalization (whether claimed under exclusion or as additional capital expenditure)	Value of the Asset decapitalised as per IndAS	IndAS Adjustment	Value of the Asset decapitalised as per IGAAP	Year Put to use	Justification		
1	Decap of Spares	Claimed under Exclusion	38.70	-	38.70	2015-16	Capitalisation of these assets was kept under exclusion and allowed by Hon'ble Commission vide para 35 of order dtd. 04.07.2023 in Petition no 366/GT/2020. Accordingly, decap of these assets is kept under exclusion. Hon'ble Commission may be pleased to allow the same.		NA
2			52.00	-	52.00	2016-17			
3			1.01	-	1.01	2017-18			
4			9.96	-	9.96	2018-19			
5			12.53	-	12.53	2019-20	As capitalisation of capital spares beyond cut off date is not admissible, capitalisation of capital spares has been kept under exclusion in the instant petition. Therefore, decapitalisation also kept under exclusion.		
		Sub-total: (D)	114.19	-	114.19				
E	Decap of MBOAs - Not part of Capital Cost								
1	Furniture & fixtures	Claimed under Exclusion	0.59	0.05	0.01	2004-05	Hon'ble Commission vide order dt 24.11.2008 in Pet no. 34/2007 has disallowed various minor assets. (Ref. para 13 of the order)		NA
2	Office Equipments	Claimed under Exclusion	0.02	0.15	0.17	2003-04	Hon'ble Commission vide order dt 12.05.2006 in Pet no. 18/2004 has disallowed various minor assets. (Ref. para (k) on pg no 10 of the order)		
3			0.02	0.04	0.06	2004-05	Hon'ble Commission vide order dt 24.11.2008 in Pet no. 34/2007 has disallowed various minor assets. (Ref. para 19 of the order)		
4			-	0.32	0.32	2005-06			
5	Hospital Equipment	Claimed under Exclusion	2.44	2.98	0.42	2004-05	Hon'ble Commission vide order dt 24.11.2008 in Pet no. 34/2007 has disallowed various minor assets. (Ref. para 19 of the order)		
E	Sub-total: Decap of MBOAs - Not part of Capital Cost		2.99	3.55	0.02				
Grand Total of Decap of assets in 2019-20 (A+B+C+D+E)			184.20	279.36	462.94			309.06	

Documents verified by P.K.Sethi, Principal Personnel Officer, NTPC Ltd.

(Petitioner)

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Location: NTPC Limited

Page 93 of 142

PART-I

FORM-I

Details of decapitalisation during 2020-21

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
Station COD	01-12-1995
For Financial Year	2020-21

Amount in Rs Lakh

A. Decap of Spares - Part of Capital Cost

S.N	Name of the Asset	Nature of de-capitalisation (whether claimed under exclusion or as additional capital expenditure)	Value of the Asset decapitalised as per IndAS	Ind AS Adjustment	Value of the Asset decapitalised as per IGAAP	Year Put to use	Depreciation recovered till date of decapitalisation	Whether earning RoE at the normal rate of weightage average rate of interest on loan
1	Decap of Spares	Claimed under Additional Capitalisation	1.08	7.03	8.61	1991-92	7.75	No
			13.69	136.28	149.96	1992-93	134.97	No
		Sub-total: (A)	14.77	143.31	158.58		142.72	

B. Decap of MB/Site - Part of Capital Cost

S.N	Name of the Asset	Nature of de-capitalisation (whether claimed under exclusion or as additional capital expenditure)	Value of the Asset decapitalised as per IndAS	Ind AS Adjustment	Value of the Asset decapitalised as per IGAAP	Year Put to use	Depreciation recovered till date of decapitalisation	Whether earning RoE at the normal rate of weightage average rate of interest on loan
1	Plant and Machinery	Claimed under Additional Capitalisation	6.45	58.02	64.47	1991-92	58.02	No
			15.37	125.27	140.64	1992-93	125.56	No
			0.50	4.53	5.03	1993-94	4.53	No
			0.04	0.39	0.44	1993-2005	0.39	No
2	Furniture and Fixtures	Claimed under Additional Capitalisation	-	0.50	0.50	1991-92	0.50	No
			-	0.27	0.27	1992-93	0.24	No
			-	0.23	0.23	1991-92	0.21	No
			-	0.25	0.25	1994-95	0.22	No
			0.10	1.05	1.16	1992-93	1.04	No
			0.07	0.21	0.28	1992-93	0.24	No
3	Construction Equipment	Claimed under Additional Capitalisation	0.29	2.57	2.86	1990-91	2.57	No
			0.14	1.26	1.40	1991-92	1.26	No
			16.33	164.93	181.26	1992-93	164.93	No
			1.98	17.79	19.77	1993-94	17.79	No
4	Electrical Installations	Claimed under Additional Capitalisation	0.21	1.92	2.14	1992-93	1.92	No
5	Other Office Equipment	Claimed under Additional Capitalisation	0.03	0.28	0.31	1994-95	0.28	No
			0.02	0.15	0.17	1997-98	0.15	No
			0.03	0.13	0.16	1999-00	0.16	No
		Sub-total: (B)	41.99	379.98	421.97		381.17	

C. Decap of Spares - Not part of Capital Cost

S.N	Name of the Asset	Nature of de-capitalisation (whether claimed under exclusion or as additional capital expenditure)	Value of the Asset decapitalised as per IndAS	IndAS Adjustment	Value of the Asset decapitalised as per IGAAP	Year Put to use	Justification
1	Decap of Spares	Claimed under Exclusion	6.75	-	6.75	2016-17	Capitalisation of these assets was kept under exclusion and allowed by Hon'ble Commission vide para 35 of order dtd. 04.01.2023 in Petition no. 3840/2019(I). Accordingly, Decap of these assets is kept under exclusion.
2			26.47	-	26.47	[illegible]	[illegible] may be pleased to allow the same.
		Sub-total: Decap of Spares - (C)	33.22	-	33.22		

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Reason: [illegible] (Commercial)
Location: NTPC Limited

PART-I

FORM-1

Details of decapitalisation during 2020-21

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
Station COD	01-12-1995
For Financial Year	2020-21

Amount in Rs Lakh

D	Decap of MB/Ole - Not part of Capital Cost							
1	Other Office Equipments	Claimed under Exclusion	0.03	0.22	0.25	2004-05	Hon'ble Commission vide order dt 24.11.2008 in Pet no 34/2007 has disallowed various minor assets. (Ref. para 19 of the order). Accordingly, decap of these assets is kept under exclusion. Hon'ble Commission may be pleased to allow the same.	NA
2	EDP, WP machines & SATCOM equipment	Claimed under Exclusion	0.08	1.03	1.10	2004-05		
		Sub-total: (D)	0.11	1.25	1.35			
Grand Total of Decap of assets in 2020-21 (A+B+C+D)			81.66	535.01	616.68		123.99	

(Petitioner)

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Date: 2024 17 14:26 IST
Reason: ACM (Commercial)
Location: NTPC Limited

PART-3

FORM-1

Details of decapitalization during 2021-22

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station (Dadri Stage-I)
Station COD	01-12-1995
For Financial Year	2021-22

Amount in Rs Lakh

S.N	Name of the Asset	Nature of de-capitalization (whether claimed under exclusion or as additional capital expenditure)	Value of the Asset decapitalised as per IndAS	IndAS Adjustment	Value of the Asset decapitalised as per IGAAP	Year Put to use	Depreciation recovered till date of decapitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
A	**Decap of Assets - Part of Capital Cost**							
1	Decap of Assets	Claimed under Additional Capitalization	0.36	2.01	2.37	1991-92	2.40	No
			2.47	88.50	90.97	2001-01	81.87	No
			0.40	5.17	5.57	1992-94	5.57	No
			38.77	348.99	387.76	1995-96	348.96	No
			7.30	1.41	8.70	1995-2003	7.40	No
		Sub-total (A)	47.50	452.48	499.98		448.36	
B	**Decap of MS/OAs - Part of Capital Cost**							
2	Furniture and Fixtures	Claimed under Additional Capitalization	-	0.01	0.01	1993-94	0.01	No
			0.01	1.32	1.33	1992-93	1.30	No
			0.04	1.10	1.14	1993-94	1.03	No
			-	0.27	0.27	1995-97	0.24	No
			0.40	5.03	5.43	1991-92	4.89	No
			0.31	5.67	5.98	1992-93	5.24	No
			0.05	1.51	1.56	1993-94	1.41	No
			0.01	0.74	0.75	1994-95	0.67	No
			0.07	0.76	0.83	1995-96	0.75	No
			2.22	2.84	4.97	1996-97	3.66	No
			0.18	1.84	2.01	1997-98	1.88	No
			0.41	2.45	2.86	1998-99	2.27	No
			0.07	1.12	1.19	1999-2000	1.08	No
			0.13	0.91	1.04	2000-01	0.98	No
3	EDP, WP machines & SITCOM equipment	Claimed under Additional Capitalization	1.53	11.74	13.27	1992-93	13.15	No
			0.42	3.72	4.14	1994-95	3.78	No
			0.87	7.30	8.17	1995-96	7.30	No
			0.76	6.18	6.93	1996-97	6.18	No
			0.19	1.67	1.86	1997-98	1.67	No
			0.18	1.43	1.60	1998-99	1.46	No
			0.16	1.47	1.63	1999-2000	1.47	No
4	Communication equipment	Claimed under Additional Capitalization	-	0.05	0.05	1994-95	0.05	No
			-	0.04	0.04	1995-96	0.04	No
			-	0.28	0.28	1997-98	0.26	No
			-	0.01	0.01	1998-99	0.01	No
			1.73	15.71	17.44	2001-02	15.71	No
			0.60	2.60	3.19	1999-2000	2.19	No
			-	0.03	0.03	2000-01	0.03	No
5	Electrical installations (LED Period)	Claimed under Additional Capitalization	1.11	9.95	11.06	1992-93	9.95	No
6	Hospital Equipment	Claimed under Additional Capitalization	-	0.03	0.03	1993-94	0.03	No
			0.04	0.42	0.46	[illegible]	0.42	No
			0.05	0.36	0.41	[illegible]	0.32	No
			0.03	0.23	0.26	[illegible]	0.24	No
			0.09	0.68	0.77	[illegible]	0.62	No

Certified by [illegible]
Director (Commercial)
Location: NTPC Limited

PART-3

FORM-1

Details of decapitalization during 2021-22

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri Stage-I
Station COD	01-12-1995
For Financial Year	2021-22

									Amount in Rs Lakh
3	Other Office Equipment	Claimed under Additional Capitalisation	0.34	3.12	3.46	1980-81		3.11	No
			0.11	1.52	1.63	1981-82		1.48	No
			0.28	2.82	3.10	1982-83		2.79	No
			0.07	0.63	0.70	1983-84		0.63	No
			0.05	0.46	0.51	1984-85		0.45	No
			0.09	1.00	1.09	1985-86		0.90	No
			0.08	0.72	0.79	1986-87		0.72	No
			1.57	11.47	13.04	1987-88		11.71	No
			-	0.09	0.09	1988-89		0.08	No
			0.70	5.23	5.93	1990-2000		5.34	No
			0.36	4.77	5.13	2000-01		5.16	No
		Sub-total: (B)	13.15	128.23	141.39			127.26	
C	Decap of Fire Tender								
1	Decap of Fire Tender	Claimed under Additional Capitalisation	2.01	18.06	20.07	1991-92		18.06	No
		Sub-total: (C)	2.01	18.06	20.07				
D	Decap of Spares - Not part of Capital Cost								
S.No	Name of the Asset	Nature of de-capitalisation (whether claimed under exclusion or as additional capital expenditure)	Value of the Asset decapitalised as per IndAS	IndAS Adjustment	Value of the Asset decapitalised as per IGAAP	Year Put to use	Justification		
1	Decap of Spares	Claimed under Exclusion	2.04	0.14	2.18	2002-03	Capitalisation of these assets was kept under exclusion and allowed by Hon'ble Commission vide para 1(c) of order dtd 12.05.2005 in Petition no 160/2004. Accordingly, decap of these spares is kept under exclusion. Hon'ble Commission may be pleased to allow the same		NA
2			2.27	-	2.27	2015-16	Capitalisation of these assets was kept under exclusion and allowed by Hon'ble Commission vide para 21 of order		
3			122.14	-	122.14	2016-17			
4			31.34	-	31.34	2019-20	Since capitalisation of spares after cut-off date is not admissible as per Tariff Regulations, 2019, hence the current decap is kept under exclusion. Hon'ble Commission may be pleased to allow the same		
		Sub-total: (D)	158.79	0.14	158.93				
E	Decap of Assets - Not part of Capital Cost								
1	Furniture and Fixtures	Claimed under Exclusion	1.19	5.14	6.33	2001-02	Hon'ble Commission vide para 12 of order dt 12.05.2005 in Pet no 160/2004 has disallowed replacement of assets [illegible]		
			-	0.65	0.65	2003-03			
			2.46	1.26	[illegible]	[illegible]	[illegible]		
			0.14	2.67	2.81	[illegible]	[illegible] vide order dt 24.11.2006 in Pet no [illegible] allowed various other assets. (Ref. para [illegible]		
			0.16	0.31	0.47	[illegible]			

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Location: NTPC Limited

PART-I
FORM- I

Details of decapitalisation during 2021-22

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station-Dadri, Stage-I
Station COD	01-12-1992
For Financial Year	2021-22

								Amount in Rs Lakh
2	EDP, WP machines & SAT/COM equipment	Claimed under Exclusion	0.05	0.42	0.46	2001-02	Hon'ble Commission vide para 12 of order dt 12.05.2005 in Pet no 160/2004 has disallowed replacement of assets after useful life.	NA
			-	0.66	0.66	2002-03		
			0.62	5.71	6.33	2003-04		
			2.12	19.12	21.24	2004-05	Hon'ble Commission vide order dt 24.11.2008 in Pet no 34/2007 has disallowed various minor assets. (Ref. para 19 of the order).	
			0.09	0.85	0.94	2005-06		
3	Communication equipment	Claimed under Exclusion	0.10	0.74	0.84	2003-04	Hon'ble Commission vide para 12 of order dt 12.05.2005 in Pet no 160/2004 has disallowed replacement of assets after useful life.	
			0.12	0.35	0.47	2003-04		
4	Software	Claimed under Exclusion	-	17.65	17.65	2003-04		
			-	46.06	46.06	2004-05	Hon'ble Commission vide order dt 24.11.2008 in Pet no 34/2007 has disallowed various minor assets. (Ref. para 19 of the order).	
			-	15.82	15.82	2005-06		
5	Other Office Equipment	Claimed under Exclusion	0.03	0.15	0.18	2001-02	Hon'ble Commission vide para 12 of order dt 12.05.2005 in Pet no 160/2004 has disallowed replacement of assets after useful life.	
			0.08	0.75	0.83	2002-03		
			4.78	6.47	11.25	2003-04		
			0.23	1.12	1.35	2004-05	Hon'ble Commission vide order dt 24.11.2008 in Pet no 34/2007 has disallowed various minor assets. (Ref. para 19 of the order).	
			0.47	1.86	2.33	2005-06		
		Sub-total: (B)	8.19	127.80	136.51			
Decap of Overhauling		Claimed under Exclusion	1,686.60	-1,686.60	-	2021-22	This Decapitalisation entry is on account of Change in Accounting Practice wherein decap during overhauling have been capitalised as per Ind AS with net amount under IGAAP as zero. The same is kept under exclusion. Hon'ble Commission may be pleased to allow the same under exclusion.	NA
Grand Total of Decap of assets in 2021-22			1,909.80	-959.96	949.85		591.67	

(Petitioner)

Documents verified by PARIMAL
PRYUSH Nfinancialprovisions@ntpc.co.in
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Date: 2024.[illegible]7 14:26 IST
Reason: ACM (Commercial)
Location: NTPC Limited

PART-I

FORM-1

Details of decapitalization during 2022-23

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
Station COD	01-12-1995
For Financial Year	2022-23

Amount in Rs. Lakh

Decap of Spares - Part of Capital Cost

S.N	Name of the Asset	Nature of de-capitalization (whether claimed under exclusion or as additional capital expenditure)	Value of the Asset decapitalized as per IndAS	IndAS Adjustment	Value of the Asset decapitalized as per IGAAP	Year Put to use	Depreciation recovered till date of decapitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
A	Decap of Spares- Part of Capital Cost							
1	Decap of Spares	Claimed under Additional Capitalization	4.21	14.33	18.54	1991-92	16.78	No
			23.19	71.96	95.15	1992-93	85.62	No
			2.28	2.55	4.83	1993-94	2.55	No
			-	32.16	32.16	1994-95	29.85	No
		Sub-total (A)	27.39	121.00	148.77		134.79	
B	Decap of ABT meters							
1	Decap of ABT meters	Claimed under Additional Capitalization	0.71	6.39	7.10	1992-93	-5.39	No
		Sub-total (B)	0.71	6.39	7.10			
C	Decap of Boiler Lift							
1	Decap of Boiler Lift	Claimed under Exclusion	1.38	10.45	11.83	1993-94	As per Regulation 26 (1) of CERC Tariff Regulations 2019, in case a station is availing a Special Allowance as compensation for meeting the requirement of expenses including R&M beyond the useful life of the Station, in such cases, revision of capital cost shall not be allowed. Therefore, these works alongwith the corresponding decap are kept under exclusion. Hon'ble Commission may be pleased to allow the same under exclusion in view of Regulation 26.	No
			1.38	10.47	11.85	1995-96		No
			1.80	14.72	16.52	1996-97		No
		Sub-total (C)	4.56	35.64	40.19			
D	Decap of MBOA - Part of Capital Cost							
1	Temporary Erection	Claimed under Additional Capitalization	-	3.46	3.46	1994-95	3.51	No
			-	2.62	2.62	1995-96	2.66	No
			-	4.95	4.95	1996-97	4.91	No
			-	0.12	0.12	1997-98	0.12	No
			-	0.04	0.04	1998-99	0.03	No
			-	1.70	1.70	1999-00	1.39	No
		Sub-total (D)	-	13.38	13.38		12.62	
E	Decap corresponding to LED Electrification							

Boxes checked by CA/Chief Accountant of Generating Station/Company

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PART-I

FORM-1

Details of decapitalization during 2022-23

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Sector, Stage-I
Station COD	01-12-1995
For Financial Year	2022-23

Amount in Rs. Lakh

1 Decap of Spares - Part of Capital Cost

S.N	Name of the Asset	Nature of de-capitalization (whether claimed under exclusion or as additional capital expenditure)	Value of the Asset decapitalised as per IndAS	IndAS Adjustment	Value of the Asset decapitalised as per IGAAP	Year Put to use	Depreciation recovered till date of decapitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
1	Decap corresponding LED Electrification	Claimed under Additional Capitalisation	0.44	3.06	3.41	1988-89	3.58	NA
			0.73	6.52	7.25	0002-03	6.58	NA
		Sub-total (E)	1.17	10.58	11.75		10.16	

2 Decap of Spares - Not part of Capital Cost

S.N	Name of the Asset	Nature of de-capitalization (whether claimed under exclusion or as additional capital expenditure)	Value of the Asset decapitalised as per IndAS	IndAS Adjustment	Value of the Asset decapitalised as per IGAAP	Year Put to use	Justification	
1	Decap of Spares	Claimed under Exclusion	1.06	2.27	3.33	2005-06	Capitalization of these assets was kept under exclusion and allowed by Hon'ble Commission vide para 26(c) of order dtd 31.03.2021 in Petition no. 402/2020. Accordingly, decap of these assets is kept under exclusion. Hon'ble Commission may be pleased to allow the same.	NA
2			32.88	-	32.88	2014-15	Capitalization of these assets was kept under exclusion and allowed by Hon'ble Commission vide para 35 of order dtd 04.07.2023 in Petition no. 368/GT/2022. Accordingly, decap of these assets is kept under exclusion. Hon'ble Commission may be pleased to allow the same.	NA
3			20.89	-	20.89	2019-20	Since capitalization of spares after cut-off date is not admissible as per Tariff Regulations, 2019, hence the present decap is kept under exclusion. Hon'ble Commission may be pleased to allow the same.	NA
		Sub-total (F)	54.83	2.27	[illegible]		[illegible]	

3 Decap of MBOAs - Not part of Capital Cost

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Reason: [illegible]
Location: NTPC Limited

PART-I

FORM-1

Details of decapitalisation during 2022-23

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
Station COD	01-12-1995
For Financial Year	2022-23

Amount in Rs. Lakh

Decap of Spares - Part of Capital Cost

S.N	Name of the Asset	Nature of de-capitalization (whether claimed under exclusion or as additional capital expenditure)	Value of the Asset decapitalised as per IndAS	IndAS Adjustment	Value of the Asset decapitalised as per IGAAP	Year Put to use	Depreciation recovered till date of decapitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
1	EDP, WP machines & SATCOM equipment	Claimed under Exclusion	-	0.65	0.65	2005-06	Capitalization of these assets was kept under additional capitalization and allowed by Hon'ble Commission vide para 16 of order dtd 24.11.2006 in Petition no. 34/2007. Accordingly, decap of these assets is kept under exclusion. Hon'ble Commission may be pleased to allow the same	NA
			0.99	-	0.99	2018-19	Capitalization of these assets was kept under exclusion and allowed by Hon'ble Commission vide para 39 of order dtd 04.07.2023 in Petition no. 399/GT/2020. Accordingly, decap of these assets is kept under exclusion. Hon'ble Commission may be pleased to allow the same	NA
		Sub-total (G)	0.99	0.65	1.62			
H	Decap of Overhauling							
Decap of Overhauling		Claimed under Exclusion	702.89	-702.89	-	2022-23	This Decapitalisation entry is on account of Change in Accounting Practice wherein decap during overhauling have been capitalised as per Ind AS with net amount under IGAAP as zero. This same is kept under exclusion. Hon'ble Commission may be pleased to allow the same under exclusion	NA
Grand Total of Decap of assets in 2022-23 (A+B+C+D+E+F+G+H)			792.92	491.95	300.97		181.98	

(Petitioner)

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Location: NTPC Limited

PART-I

FORM-I

Details of decapitalization during 2023-24

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
Station COD	01-12-1995
For Financial Year	2023-24

Decap of Spares - Part of Capital Cost — Amount in Rs. Lakh

S.N	Name of the Asset	Nature of de-capitalization (whether claimed under exclusion or as additional capital expenditure)	Value of the Asset decapitalised as per IndAS	Ind AS Adjustment	Value of the Asset decapitalised as per IGAAP	Year Put to use	Depreciation recovered till date of decapitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
A	Decap of Spares- Part of Capital Cost							
1	Decap of Spares	Claimed under Additional Capitalization	3.46	31.10	34.56	1986-87	31.10	No
			6.72	6.59	13.31	1991-92	6.59	No
			29.93	90.31	120.24	1992-93	110.02	No
			0.05	0.44	0.49	1993-94	0.44	No
			0.62	5.58	6.20	1994-95	5.58	No
		Sub-total (A)	34.79	137.02	171.81		154.63	
B	Decap against HM Upgradation							
1	Decap against HM Upgradation	Claimed under Additional Capitalization	5.38	48.45	53.83	1992-93	48.45	No
		Sub-total (B)	5.38	48.45	53.83			
C	Decap of MSOAs - Part of Capital Cost							
1	Plant & Machinery	Claimed under Additional Capitalization	0.25	2.28	2.53	1988-89	2.28	No
2			0.47	3.15	3.62	1989-90	3.20	No
3			0.56	0.51	1.16	1987-88	1.04	No
4			0.35	0.26	1.07	1999-2000	0.92	No
5	Other Buildings		0.02	0.20	0.23	1980-90	0.20	No
6			0.04	1.18	1.22	1990-91	1.02	No
7	ETP, WP machines & SATCOM equipment		0.35	3.19	3.55	1989-90	3.19	No
		Sub-total (C)	2.19	11.71	13.90		12.81	

D. Decap of Spares - Not part of Capital Cost

S.N	Name of the Asset	Nature of de-capitalization (whether claimed under exclusion or as additional capital expenditure)	Value of the Asset decapitalised as per IndAS	IndAS Adjustment	Value of the Asset decapitalised as per IGAAP	Year Put to use	Justification	
1	Decap of Spares	Claimed under Exclusion	14.61	-	14.61	2015-16	Capitalization of these assets was kept under exclusion and allowed by Hon'ble Commission vide para 35 of order dtd 04.07.2023 in Petition no. 260/GT/2020. Accordingly, decap of these assets is kept under exclusion. Hon'ble Commission may be pleased to allow the same.	NA
2			8.39	-	8.39	2017-18		NA
3			34.97	-	34.97	2019-20	Since capitalization of spares after cut-off date is not admissible as per Tariff Regulations 2019, hence their decapitalization is kept under exclusion. Hon'ble Commission may be pleased to allow the same.	NA
4			22.06	-	22.06	2020-21		NA
5			117.06	-	117.06	2021-22		NA
6			2.21	-	2.21	[illegible]		NA

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PART-I

FORM-I

Details of decapitalization during 2023-24

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
Station COD	01-12-1995
For Financial Year	2023-24

Decap of Spares - Part of Capital Cost

Amount in Rs. Lakh

S.N	Name of the Asset	Nature of de-capitalization (whether claimed under exclusion or as additional capital expenditure)	Value of the Asset decapitalised as per IndAS	Ind AS Adjustment	Value of the Asset decapitalised as per IGAAP	Year Put to use	Depreciation recovered till date of decapitalization	Whether earning RoE at the normal rate of weightage average rate of interest on loan
		Sub-total: (D)	199.23	-	199.23			
E	Decap of MBOAs - Not part of Capital Cost							
1	Other Buildings	Claimed under Exclusion	6.23	2.04	2.27	2001-02	Hon'ble Commission vide para 12 of order dt 12.05.2005 in Pet no 183/2004 has disallowed replacement of assets after useful life.	NA
2			2.46	1.17	3.63	2005-06	Capitalization of these assets was kept under additional capitalization and allowed by Hon'ble Commission vide para 19 of order dtd 24.11.2008 in Petition no. 34/2007. Accordingly, decap of these assets is kept under exclusion. Hon'ble Commission may be pleased to allow the same.	NA
3			0.02	0.20	0.23	2001-02	Hon'ble Commission vide para 12 of order dt 12.05.2005 in Pet no 183/2004 has disallowed replacement of assets after useful life.	NA
4			-	0.04	0.04	2004-05	Capitalization of these assets was kept under additional capitalization and allowed by Hon'ble Commission vide para 19 of order dtd 24.11.2008 in Petition no. 34/2007. Accordingly, decap of these assets is kept under exclusion. Hon'ble Commission may be pleased to allow the same.	NA
5			0.02	0.23	0.20	2005-06		NA
6	ESP, WP machines & SATCOM equipment		1.06	0.04	1.10	2013-14	Capitalization of these assets was kept under exclusion and allowed by Hon'ble Commission vide para 39 of order dtd 04.01.2023 in Petition no. 308/GT/2020. Accordingly, decap of these assets is kept under exclusion. Hon'ble Commission may be pleased to allow the same.	NA
7			1.03	0.32	1.35	2014-15		NA
8			1.04	-	1.04	2016-17		NA
9			7.40	-	7.40	2017-18		NA
10			8.34	-	8.34	2018-19		NA
11			1.46	-	1.46	2019-20	Since capitalization of MBOAs after cut-off date is not allowed as per Tariff Regulations, 2019, hence their decapitalization is kept under exclusion. Hon'ble Commission may be pleased to allow the same.	NA
12			0.60	-	0.60	2020-21		NA
		Sub-total: (E)	24.34	4.50	29.52			
Grand Total of Decap of assets in 2023-24 (A+B+C+D+E)			261.94	291.86	667.79		216.59	

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(Petitioner)

Part-I

Form -

Summary of Gross Block reconciliation

Name of the Petitioner:

Name of the Generating Station:

(USD)

Sl No.	Particular	2019-20	2020-21	2021-22	2022-23	Next to Re. Level 2023-24
1	Opening Gross Block as per IND-AS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	Add: Cumulative Ind AS Adjustment (breakup given below)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2.1	Adjustment of accumulated depreciation as on 1.4.2015	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2.2	Less: Cumulative Gross Block adjustment with regard to Ind. Ind AS for decapitalisation	1,905	2,401	4,258	4,714	4,529
2.3	Less: Cumulative capital overhaul/major expenditure capitalised out of revenue	7,733	8,856	7,329	8,540	10,369
2.4	Add: Cumulative De-capitalisation of Capital Overhauling	-	-	1,680	4,529	8,160
2.5	Less: spares capitalised out of inventory system (under 120)	603	603	603	603	603
2.6	Less: spares capitalised out of inventory system (under 140)	1,367	1,367	1,367	1,367	1,367
2.7	Less: Cumulative Capitalisation of PV of Future minimum lease obligation in Gross Block	-	-	-	-	-
2.8	Less: Cumulative Unwinding mismatch Capitalised	-	-	-	-	-
2.9	Add: Cumulative Vendor Discounting	6	9	6	10,24	47
2.10	Add: Borrowing cost adjusted due to change in interest rate (IAS)	-	-	-	-	-
2.11	Add/Less: Any other Adj in PPE due to INd AS implementation	-	-	-	-	-
2.12	Cumulative Capital spares Capitalised	1,611	1,611	1,611	1,611	1,611
3	Closing Gross Block as per GAAP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	Opening Gross Block as per IND-AS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	Add: Cumulative Ind AS Adjustment (breakup given below)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2.1	Adjustment of accumulated depreciation as on 1.4.2015	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2.2	Less: Cumulative Gross Block adjustment with regard to Ind. Ind AS for decapitalisation	1,905	2,401	4,258	4,714	4,529
2.3	Less: Cumulative capital overhaul/major expenditure capitalised out of revenue	7,733	8,856	7,329	8,540	10,369
2.4	Add: Cumulative De-capitalisation of Capital Overhauling	-	-	1,680	4,529	8,160
2.5	Less: spares capitalised out of inventory system (under 120)	603	603	603	603	603
2.6	Less: spares capitalised out of inventory system (under 140)	1,367	1,367	1,367	1,367	1,367
2.7	Less: Cumulative Capitalisation of PV of Future minimum lease obligation in Gross Block	-	-	-	-	-
2.8	Less: Cumulative Unwinding mismatch Capitalised	-	-	-	-	-
2.9	Add: Cumulative Vendor discounting	7	9	6	6	47
2.10	Add: Borrowing cost adjusted due to change in interest rate (IAS)	-	-	-	-	-
2.11	Add/Less: Any other Adj in PPE due to INd AS implementation	-	-	-	-	-
2.12	Cumulative Capital spares Capitalised	1,611	1,611	1,611	1,611	1,611
3						
4	Closing Gross Block as per GAAP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	Net Additions as per Notes [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	Addition as per IGAAP corresponding to Debt [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	Addition as per IGAAP corresponding to Debt Loan Ref.	-	-	-	-	-
8	Addition as per IGAAP corresponding to Debt Equity	[illegible]	[illegible]	[illegible]	[illegible]	-
9	Net Addition certified to equity (Item 5-(6+7+8))	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	Less: Equity capital not allowable for tariff calculation	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	Net Additional Capital Expenditure claimed not attract Tariff	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	Less: Un-discharged Liabilities (as per IGAAP)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	Add: Discharges of Un-discharged liabilities, corresponding to addition assessed while [illegible] (as per IGAAP)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	Net Additional Capital Expenditure claimed for Loan Assets	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Petitioner

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Location: NTPC Limited

Secure Reference of Difference Computation

Name of the Distributor	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Delhi, Stage-I
Date of Commercial Operation	01-12-1995
For Financial Year	2019-20

Sl. No.	Head of Work Equipment	Party Name	Accrual funds as per Note 3 of 3B	Int (3A) adj	Accrual funds as per GAAP	Un-discharged Liability included in col. 4	Cash basis	RC included in col. 3	Justification
			ACE Closed (actual) for 2019-20						
1	2	3	4	5	6	7	8	9	10
1	Capitalised								
B.1	Assets Added								
i	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	Subtotal (B.1)		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
B.2	Assets not Owned								
i	Land Government Funding		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
ii	Other Assets/Items	Balance Wholesale Ltd Pvt Ltd	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	These assets acquired by NTPC are capitalised and registered using Specific Exemption allowed under Regulation 28 of CERC Tariff Regulations 2019.
iii	Replacement of Complete Unit/Assets, Tie Bars post the Commercial Date	Tulsian Engineers	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Therefore, these assets are part the corresponding Group, we kept more exclusion
iv	Capability with Sunrise DT	NR TRO India Ltd	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
v	Other Assets or work in progress Housing		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	The work was deferred vide para 3(b)(i) of order dt. 21.01.2011 in petition no. 138/2009. Hence cost adjustment against the same is kept under exclusion. Hence the Commission may be pleased to allow the same.
	Subtotal (B.2)		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
B.3	Prior Periods under Supplementary Tariff Petition								The additional capitalisation is on account of Revised Estimate Expenditure. The Petitioner has filed a separate petition for recovery in the ratio as per Regulation 28 of Tariff Regulations 2019. Hence, this amount is kept under exclusion. Hence the Commission may be pleased to allow the same.
1	[illegible]	Balance Trade Pvt Ltd	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
2	[illegible]	Balance Trade Pvt Ltd	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	Subtotal (B.3)		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
B.4	Capitalisation of Spares		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Capitalisation of spares figures include spares as per Tariff Regulations 2019 excluding the capitalisation of spares which are kept under inclusion. Hence the Commission may be pleased to allow the same.
B.5	Decrease in Capital Expenditure part of Capital Cost		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Justification given in Point 16.10
B.6	Decrease of Effective Tax Rate of Capital Cost		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Justification given in Point 16.10
B.7	Other adjustment								
1	Commissioning		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	The Capitalisation is on account of Change in Accounting Practice. Therefore, it is kept under exclusion. Hence the Commission may be pleased to allow the same under exclusion.
2	Change in CIP credits		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
B.8	Asset Class Change		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	The Capitalisation is on account of Change in Accounting Practice. Therefore, it is kept under exclusion. Hence the Commission may be pleased to allow the same under exclusion.
	Total Exclusion (B)		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

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Location: NTPC Limited

Amount in Rs. Lakh

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
Station COD	01-12-1995
For Financial Year	2020-21

Sl. No.	Head of Work /Equipment	Party Name	ACE Claimed (Actual for 2020-21)						Justification
			Accrual basis as per Note-2 of BS	IND AS Adj	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5	6	7	8	9	10
B	Exclusions								
B.1	Items claimed under Supplementary Tariff Petition								
1	Dry Sorbent Injection System (DSI) Stg-I Unit 1	Metso India Pvt Ltd	87.29	0.00	87.29	9.50	77.79	0.00	The additional capitalisation is on account of Revised Emission Standards. The Petitioner has filed a separate petition for recovery of this add-cap as per Regulation 25 of Tariff Regulations, 2019. Hence, this add-cap is kept under exclusion here. Hon'ble Commission may be pleased to allow the same
2	Dry Sorbent Injection System (DSI) Stg-I Unit 2		87.29	0.00	87.29	9.31	80.98	0.00	
3	Dry Sorbent Injection System (DSI) Stg-I Unit 3		2232.97	0.00	2232.97	295.42	1937.55	0.00	
4	Dry Sorbent Injection System (DSI) Stg-I Unit 4		2232.97	0.00	2232.97	291.96	1915.11	0.00	
	Sub-Total (B.1)		4640.51	0.00	4640.51	605.17	4011.39	0.00	
B.2	Disallowed Items								
1	LAND FREEHOLD PLANT/OFFICE (MURADNAGAR)		-31.47	0.00	-31.47	-31.47	0.00	0.00	Hon'ble Commission, vide order dtd 21.01.2011 in Petition no 120/2009, has disallowed the capitalization of this item (Ref. para 37 at page no 14 in order dtd 21.01.2011). Hence, claimed under exclusion. Hon'ble Commission may be pleased to allow the same
	Sub-Total (B.2)		-31.47	0.00	-31.47	-31.47	0.00	0.00	
B.3	Ind AS Adjustment								
1	Overhauling		1154.90	-1154.90	0.00	0.00	0.00	0.00	This Capitalisation is on account of Change in Accounting Practice. Therefore, it is kept under exclusion. Hon'ble Commission may be pleased to allow the same under exclusion
	Subtotal (B.3)		1154.90	-1154.90	0.00	0.00	0.00	0.00	
B.4	Capitalisation of Capital Spares	Various Parties	324.89	0.48	324.41	32.05	292.36	0.00	Capitalisation of spares beyond cut-off date is not admissible as per Tariff Regulations 2019 accordingly the capitalization of these spares are claimed under exclusion. Hon'ble Commission may be pleased to allow the same
B.5	Decap of MBOAs: Not Part of Capital Cost		-0.11	0.25	-1.36	0.00	-1.36	0.00	Justification given in 'Form-I 20-21'
B.6	Decap of Spares: Not Part of Capital Cost		-33.22	0.00	-33.22	0.00	-33.22	0.00	Justification given in 'Form-I 20-21'

Declaration certified by Petitioner
Petition nomenclature/ Tariff Regulation

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Location: NTPC Limited

PART-I
Form-K

Year wise Statement of Additional Capitalisation after COD

Amount in Rs. Lakh

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
Station COD	01-12-1995
For Financial Year	2020-21

Sl. No.	Head of Work /Equipment	Party Name	ACE Claimed (Actual for 2020-21)						Justification
			Accrual basis as per Note-2 of BS	IND AS Adj	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5	6	7	8	9	10
B.7	Inter Unit Transfer		42.11	23.26	65.37	0.00	65.37	0.00	As per practice, the Hon'ble Commission is not considering Interunit transfers for tariff, hence kept under exclusion. Hon'ble Commission may be pleased to allow the same.
B.7.1	Furniture and Fixtures	From Badarpur	28.85	14.52	43.37	0.00	43.37	0.00	
B.7.2	Other Office Equipments	From Badarpur	11.42	6.58	18.00	0.00	18.00	0.00	
B.7.3	EDP, WP machines & SATCOM equipment	From Badarpur	1.46	1.70	3.14	0.00	3.14	0.00	
B.7.4	Vehicles (including speedboats)	From Badarpur	0.38	0.46	0.85	0.00	0.85	0.00	
	Total Exclusion Claimed (B1+B2+B3+B4+B5+B6+B7)		6987.61	-1133.38	4964.23	639.74	4364.49	0.00	

Petitioner

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Date: 2024.[illegible]17 14:26 IST
Reason: ACM (Commercial)
Location: NTPC Limited

PART-I
Form-K
Amount in Rs. Lakh

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
Station COD	01-12-1995
For Financial Year	2021-22

Sl. No.	Head of Work /Equipment	Party Name	ACE Claimed (Actual for 2021-22)						Justification
			Accrual basis as per Note-2 of B3	IND AS Adj	Accrual basis as per IGAAP	Un-discharged Liability included in col. 1	Cash basis	IDC included in col. 3	
1	2	3	4	5	6	7	8	9	10
B	Exclusions								
B.1	Items claimed under Supplementary Tariff Petition								
1	Dry Sorbent Injection System (DSI) Stg-1 Unit 1	Mitsui India Pvt Ltd	283.11	0.00	283.11	0.00	283.11	0.00	This additional capitalisation is on account of Revised Emission Standards. The Petitioner has filed a separate petition for recovery of this add cap as per Regulation 29 of Tariff Regulations, 2019. Hence, this add cap is kept under exclusion here. Hon'ble Commission may be pleased to allow the same.
2	Dry Sorbent Injection System (DSI) Stg-1 Unit 2		283.11	0.00	283.11	0.00	283.11	0.00	
3	Dry Sorbent Injection System (DSI) Stg-1 Unit 3		283.11	0.00	283.11	0.00	283.11	0.00	
4	Dry Sorbent Injection System (DSI) Stg-1 Unit 4		283.11	0.00	283.11	0.00	283.11	0.00	
	Sub-Total (B.1)		1132.45	0.00	1132.45	0.00	1132.45	0.00	
B.2	Disallowed Items								
1	LAND FREEHOLD PLANTOFFICE (MUDAGHUGDAR)		1.51	0.00	1.51	1.51	0.00	0.00	Hon'ble Commission, vide order dtd 21.01.2011 in Petition no. 120/2009, has disallowed the capitalisation of this item (Ref. para 37 at page no 14 in order dtd 21.01.2011). Hence, claimed under exclusion. Hon'ble Commission may be pleased to allow the same.
	Sub-Total (B.2)		1.51	0.00	1.51	1.51	0.00	0.00	
B.3	Ind AS Adjustment								
1	Overhauling		478.37	478.37	0.00	0.00	0.00	0.00	This Capitalisation is on account of Change in Accounting Practice. Therefore, it is kept under exclusion. Hon'ble Commission may be pleased to allow the same under exclusion.
2	Decap of CH Assets		-1686.65	1686.65	0.00	0.00	0.00	0.00	
	Sub-Total (B.3)		-1208.28	1208.28	0.00	0.00	0.00	0.00	
B.4	Capitalisation of Capital Spares	Various Parties	948.32	3.19	948.32	51.06	626.51	0.00	Capitalisation of spares beyond cut off date is not admissible as per Tariff Regulations 2019 accordingly the capitalisation of these spares is claimed under exclusion. Hon'ble Commission may be pleased to allow the same.
B.5	Decap of MBOAs: Not Part of Capital Cost		-8.70	127.80	-136.51	0.00	-136.51	0.00	Justification given in Form-I 21-22
B.6	Decap of Spares: Not Part of Capital Cost		-155.79	-2.14	-153.65	0.00	[illegible]	[illegible]	Justification given in Form-I 21-22

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Location: NTPC Limited

PART-I
Form-K

Year wise Statement of Additional Capitalisation after COD

Amount in Rs. Lakh

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
Station COD	01-12-1995
For Financial Year	2021-22

Sl. No.	Head of Work /Equipment	Party Name	ACE Claimed (Actual for 2021-22)						Justification
			Accrual basis as per Note-2 of IS	IND AS Adj	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5	6	7	8	9	10
B.7	Inter Unit Transfer		382.13	0.00	382.13	0.00	382.13	0.00	As per practice, the Hon'ble Commission is not considering temporary inter unit transfers for tariff, hence kept under exclusion. Hon'ble Commission may be pleased to allow the same.
B.7.1	Plant & Machinery	From Kutby	382.13	0.00	382.13	0.00	382.13	0.00	
	Total Exclusion Claimed (B1+B2+B3+B4+B5+B6+B7)		1051.83	1080.54	2172.37	52.66	1948.45	0.00	

(Petitioner)

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Reason: ACM (Commercial)
Location: NTPC Limited

PART-I
Form-K

Year wise Statement of Additional Capitalisation after COD

Amount in Rs. Lakh

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
Station COD	01-12-1995
For Financial Year	2022-23

Sl. No.	Head of Work /Equipment	Party Name	ACE Claimed (Actual for 2022-23)						Justification
			Accrual basis as per Note-2 of BS	IND AS Adj	Accrual basis as per IGAAP	Un-discharged Liability included in col. 2	Cash Basis	IDC included in col. 3	
1	2	3	4	5	6	7	8	9	10
B	Exclusions								
B.1	Items Not Claimed								
1	Replacement of Boiler Lifts	Otis Elevator Co India Limited	225.04	0.00	225.04	65.94	154.10	0.00	These works related to R&M are executed and capitalised using Special Allowances allowed under Regulation 29 of CERC Tariff Regulations 2019.
	Decap corresponding to S.No.1 above		-4.54	-25.04	-45.18	0.00	-45.18	0.00	Therefore, these works alongwith the corresponding decap are kept under exclusion. Hon'ble Commission may be pleased to allow the same.
	Subtotal(B.1)		219.50	-25.04	179.86	65.94	113.92	0.00	
B.2	Items claimed under Supplementary Tariff Petition								
1	Dry Sorbent Injection System (DSI) Stg-1 Unit 1	Wabag India Pvt Ltd	-357.81	0.00	-357.81	5.07	-362.88	0.00	The additional capitalisation is on account of Revised Emission Standards. The Petitioner has filed a separate petition for recovery of the add-cap as per Regulation 29 of Tariff Regulations, 2019. Hence, this add-cap is kept under exclusion here.
2	Dry Sorbent Injection System (DSI) Stg-1 Unit 2		-357.81	0.00	-357.81	5.07	-362.88	0.00	
3	Dry Sorbent Injection System (DSI) Stg-1 Unit 3		-357.81	0.00	-357.81	5.07	-362.88	0.00	
4	Dry Sorbent Injection System (DSI) Stg-1 Unit 4		-357.81	0.00	-357.81	5.07	-362.88	0.00	
	Sub Total(B.2)		-1431.24	0.00	-1431.24	20.28	-1451.52	0.00	
B.3	Disallowed Items								
1	LAND: FREEHOLD -PLANT/OFFICE (MURADNAGAR)		-396.71	0.00	-396.71	0.74	-397.45	0.00	Hon'ble Commission, vide order dtd 21.01.2011 in Petition no. 120/2009, has disallowed the capitalisation of this item (Ref. para 17 at page no. 18 in order dtd. 21.01.2011). Hence, claimed under exclusion.
	Sub-Total (B.3)		396.71	0.00	396.71	0.74	397.45	0.00	
B.4	Ind AS Adjustment								
1	Overhauling		894.56	894.56	0.00	0.00	0.00	0.00	This Capitalisation is on account of Change in Accounting Practice. Therefore, it is kept under exclusion. Hon'ble Commission may be pleased to allow the same under exclusion.
2	Decap of OH Assets		-702.56	-702.56	0.00	0.00	0.00	0.00	
	Sub-Total (B.4)		191.50	191.50	0.00	0.00	0.00	0.00	
B.5	Capitalisation of Capital Spares	Vishnoi Pipches	227.67	0.55	226.30	Discharge [illegible] Prinoth [illegible]	[illegible]	0.00	Capitalisation of spares beyond cut-off date is not admissible as per Tariff Regulations 2019 accordingly the capitalisation of these spares are claimed under exclusion.
B.6	Decap of BBGAs, Not Part of Capital Cost		-1.07	0.00	-1.07	Digitally signed by [illegible] Date: [illegible] Reason: [illegible] Location: NTPC Limited		0.00	Justification given in Form-I 22-23.
B.7	Decap of Spares, Not Part of Capital Cost		-34.63	-2.77	[illegible]				Justification given in Form-I 22-23.

PART-I
Form-K

Year wise Statement of Additional Capitalisation after COD

Amount in Rs. Lakh

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
Station COD	01-12-1995
For Financial Year	2022-23

Sr. No.	Head of Work /Equipment	Party Name	ACE Claimed (Actual for 2022-23)						Justification
			Accrual basis as per Note-2 of BS	IND AS Adj	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5	6	7	8	9	10
B.8	Inter Unit Transfer		0.00	0.00	0.00	0.00	0.00	0.00	As per practice, the Hon'ble Commission is not considering temporary inter unit transfers for tariff, hence kept under exclusion. Hon'ble Commission may be pleased to allow the same.
B.8.1	Plant & Machinery	From Cardanwara	0.00	0.00	0.00	0.00	0.00	0.00	
	Total Exclusion Claimed (B1+B2+B3+B4+B5+B6+B7+B8)		-1047.50	328.93	-1477.86	119.40	-1697.26	0.00	

(Petitioner)

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Date: 2024 17 14:26 IST
Reason: AO(Commercial)
Location: NTPC Limited

Year wise Statement of Additional Capitalisation after COD

Amount in Rs. Lakh

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
Station COD	01.12.1996
For Financial Year	2023-24

Sl. No.	Head of Work /Equipment	Party Name	ACE Claimed (Actual for 2023-24)						Justification
			Accrual basis as per Note-2 of BS	IND AS Adj	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5	6	7	8	9	10
B	Exclusions								
B.1	Items Not Claimed								
1	Replacement of Boiler Lifts	Otis Elevator Co. (India) Limited	69.50	0.00	69.50	0.00	69.50	0.00	These works related to R&M are executed and capitalised using Special Allowances allowed under Regulation 26 of CERC Tariff Regulations 2019. Therefore, these works alongside the corresponding decap. are kept under exclusion. Hon'ble Commission may be pleased to allow the same.
2	Skid Steer Loader for CHP	Mantec Equipment India Pvt. Ltd./ Vert Equipment Pvt. Ltd.	41.51	0.00	41.51	0.00	41.51	0.00	
	Subtotal (B.1)		111.70	0.00	111.70	0.00	111.70	0.00	
B.2	Disallowed Items								
1	LAND FREEHOLD -PLANT OFFICE (MEHRAULI/GGR)		1.51	0.00	1.51	1.51	0.00	0.00	Hon'ble Commission, vide order dtd 21.01.2011 in Petition no 129/2008, has disallowed the capitalisation of the item (Ref. para 37 at page no. 14 in order dtd 21.01.2011). Hence, claimed under exclusion.
	Sub-Total: (B.2)		1.51	0.00	1.51	1.51	0.00	0.00	
B.3	Ind AS Adjustment								
1	Overhauling		1610.74	-1610.74	0.00	0.00	0.00	0.00	This Capitalisation is on account of Change in Accounting Practice. Therefore, it is kept under exclusion. Hon'ble Commission may be pleased to allow the same under exclusion.
2	Decap of Old Assets		2431.98	2431.98	0.00	0.00	0.00	0.00	
	Sub-Total: (B.3)		-841.24	841.24	0.00	0.00	0.00	0.00	
B.4	Capitalisation of Capital Spares	Various Parties	1823.97	0.00	1823.97	154.09	1669.88	0.00	Capitalisation of spares beyond cut-off date is not admissible as per Tariff Regulations 2019 accordingly the capitalisation of these spares are carried under exclusion.
B.5	Decap of MBOAs: Not Part of Capital Cost		-24.34	-4.68	-29.02	0.00	-29.02	0.00	Justification given in Form-I 23-24'
B.6	Decap of Spares: Not Part of Capital Cost		-196.23	0.00	-196.23	0.00	-196.23	0.00	Justification given in 'Form-I 23-24'

Documents verified by PANKAJ PIYUSH Pankaj Piyush Mishra (Manager)

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Reason: [illegible]
Location: NTPC Limited

Year wise Statement of Additional Capitalisation after COD

Amount in Rs. Lakh

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
Station COD	01-12-1996
For Financial Year	2023-24

Sl. No.	Head of Work /Equipment	Party Name	ACE Claimed (Actual for 2023-24)						Justification
			Accrual basis as per Note-2 of BS	IND AS Adj	Accrual basis as per IGAAP	De-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	
1	2	3	4	5	6	7	8	9	10
B.7	Inter Unit Transfer		13.01	0.01	13.02	0.00	13.02	0.00	As per practice, the Hon'ble Commission is not considering temporary inter unit transfers for tariff, hence kept under exclusion. Hon'ble Commission may be pleased to allow the same.
B.7.1	Furniture and fixtures	From Barauni	0.00	0.01	0.01	0.00	0.01	0.00	
B.7.2	ESP, WP machines & SATCOM equipment	From Auraiya	3.17	0.00	3.17	0.00	3.17	0.00	
B.7.3		From Corporate Centre	1.79	0.00	1.79	0.00	1.79	0.00	
B.7.4		From Corporate Centre (CSR)	5.67	0.00	5.67	0.00	5.67	0.00	
B.7.5		From Kanti	1.27	0.00	1.27	0.00	1.27	0.00	
B.7.6		From Kawas	0.64	0.00	0.64	0.00	0.64	0.00	
B.7.7		From Lara	0.49	0.00	0.49	0.00	0.49	0.00	
B.7.8		From Vindhyachal	0.54	0.00	0.54	0.00	0.54	0.00	
B.7.9		To Darlipali	-0.50	0.00	-0.50	0.00	-0.50	0.00	
B.8	Reversal of Liability		-4.08	0.00	-4.08	-4.08	0.00	0.00	Since, tariff is on cash basis, liability reversal is kept under exclusion. Hon'ble Commission may be pleased to allow the same.
	Total Exclusion Claimed (B1+B2+B3+B4+B5+B6+B7+B8)		881.30	836.88	1717.98	151.92	1566.36	0.00	

(Petitioner)

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Date: 2024 17 14:26 IST
Reason: AGM (Commercial)
Location: NTPC Limited

PART-2
FORM-1

Statement of Capital cost

(Rs Lakh)

Name of the Company: NTPC Limited
Name of the Generating Station: Nabinagar Capital Thermal Power Station (NCTPS), Bihar
COD: [illegible]
For Financial Year: 2023-24

Sl. No.	Particulars	2019-20			2020-21			2021-22			2022-23			2023-24		
		Actual Basis	Un-discharged Liabilities	Cash Basis	Actual Basis	Un-discharged Liabilities	Cash Basis	Actual Basis	Un-discharged Liabilities	Cash Basis	Actual Basis	Un-discharged Liabilities	Cash Basis	Actual Basis	Un-discharged Liabilities	Cash Basis
A	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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(Rs Lakh)

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Date: 2024 [illegible] 17 14:26 IST
Reason: ACM (Commercial)
Location: NTPC Limited

PART-I
FORM- M

Statement of Capital Works in Progress

(Rs Lakh)

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Delhi, Stage-I
COD	01-12-1988
For Financial Year	2023-24

Sl. No.	Particulars	2019-20			2020-21			2021-22			2022-23			2023-24		
		Accrual Basis	Un-discharged Liabilities	Cash Basis	Accrual Basis	Un-discharged Liabilities	Cash Basis	Accrual Basis	Un-discharged Liabilities	Cash Basis	Accrual Basis	Un-discharged Liabilities	Cash Basis	Accrual Basis	Un-discharged Liabilities	Cash Basis
A	(a) Opening CWIP as per books	13,494.04	416.72	13,282.32	11,797.30	600.31	11,197.39	8,352.32	98.14	8,254.18	8,516.89	1,354.58	7,162.31	8,300.30	1,266.11	7,034.20
	(b) Amount of IDC in A(a) above	702.08			0.00			0.00			0.00			0.00		
	(c) Amount of FC in A(a) above															
	(d) Amount of FERV in A(a) above															
	(e) Amount of Hedging Cost in A(a) above															
	(f) Amount of IEDC in A(a) above															
B	(a) Addition in CWIP during the period	8,588.25	1,232.16	910.39	1,713.87	494.10	208.72	308.22	180.91	140.30	3.46	28.72	25.26	3,008.63	476.80	3,132.27
	(b) Amount of IDC in B(a) above	40.11														
	(c) Amount of FC in B(a) above															
	(d) Amount of FERV in B(a) above															
	(e) Amount of Hedging Cost in B(a) above															
	(f) Amount of IEDC in B(a) above															
C	(a) Transferred to Gross Block Amount During the period	10,737.42	864.00	8,913.71	5,150.25	682.70	4,679.46	141.05		141.05	220.04	85.84	134.10	3,313.16	691.95	2,721.20
	(b) Amount of IDC in C(a) above	81.79														
	(c) Amount of FC in C(a) above															
	(d) Amount of FERV in C(a) above															
	(e) Amount of Hedging Cost in C(a) above															
	(f) Amount of IEDC in C(a) above															
D	(a) Deletion in CWIP during the period															
	(b) Amount of IDC in D(a) above															
	(c) Amount of FC in D(a) above															
	(d) Amount of FERV in D(a) above															
	(e) Amount of Hedging Cost in D(a) above															
	(f) Amount of IEDC in D(a) above															
E	(a) Closing CWIP as per books	11,757.30	800.31	11,197.39	8,352.32	98.14	3,254.18	8,516.89	1,354.58	7,162.31	8,300.30	1,266.11	7,034.20	8,021.37	541.40	8,052.67
	(b) Amount of IDC in E(a) above	0.00			0.00			0.00			0.00			0.00		
	(c) Amount of FC in E(a) above															
	(d) Amount of FERV in E(a) above															
	(e) Amount of Hedging Cost in E(a) above															
	(f) Amount of IEDC in E(a) above															

(Petitioner)

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Reason: [illegible]
Location: NTPC Limited

PART-2
FORM- 9

Calculation of Interest on Normative Loan

Name of the Company :	NTPC Limited
Name of the Power Station :	National Capital Thermal Power Station Dadri, Stage-I

(Amount in Rs Lakh)

S. No.	Particulars		Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2		3	4	5	6	7	8
1	Gross Normative loan – Opening	A	85,116.55	89,711.25	89,194.32	88,147.32	88,362.49	89,037.46
2	Cumulative repayment of Normative loan up to previous year	B	85,116.55	89,711.25	89,088.11	88,147.32	88,362.47	89,037.45
3	Net Normative loan – Opening	C=A-B	-	-	106.21	0.01	0.01	0.01
4	Add: Increase due to addition during the year / period	D	462.38	3,861.85	260.13	176.18	196.22	729.50
5	Less: Decrease due to de-capitalisation during the year / period	E	158.80	170.48	407.47	448.54	528.11	130.00
6	Less: Decrease due to reversal during the year / period	F		-	-	-	-	-
7	Add: Increase due to discharges during the year / period	G	300.45	2.47	136.53	85.38	4.87	45.76
8	Normative Loan Closing	H=C+D-E-F+G	604.99	3,485.07	95.42	-185.04	74.99	644.27
9	Repayment of Loan during the year	I	753.43	3610.34	3763.85	3178.73	462.20	633.71
10	Repayment adjustment on account of decapitalisation	J	158.84	240.38	408.85	480.56	141.29	167.68
11	Net Repayment of loan during the year	K=I-J	594.59	3,327.96	3,374.93	3,018.33	320.87	466.04
12	Net Normative loan - Closing	L=H-K	0.01	155.21	-	-	-	178.24
13	Average Normative loan	M=Average(C,L)	0.00	52.61	52.61	0.00	0.00	89.12
14	Weighted average rate of interest	N	9.993%	8.759%	7.454%	7.153%	7.000%	7.000%
15	Interest on Loan	O=MxN	0.00	4.33	3.91	0.00	0.00	6.24
16	Cumulative repayment of Normative loan at the end of the period	P=G+F	85,711.25	89,085.11	88,408.36	88,085.56	88,313.36	89,083.46

(Petitioner)

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Reason: AGM (Commercial)
Location: NTPC Limited

PART -I
FORM- O

Calculation of Interest on Working Capital

Name of the Company :	NTPC Limited
Name of the Power Station :	National Capital Thermal Power Station Dadri, Stage-I

(Amount in Rs Lakh)

S. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
1	Cost of Coal/Lignite	28,981.61	28788.41	31538.88	23589.83	26452.98	36244.46
2	Cost of Main Secondary Fuel Oi	190.12	242.32	266.83	223.25	257.35	416.99
3	Fuel Cost						
4	Liquid Fuel Stock						
5	O & M Expenses	2,192.56	2490.16	2578.53	2682.75	2753.61	2891.88
6	Maintenance Spares	5,262.13	5978.39	6188.47	6438.60	6608.66	6940.51
7	Receivables	38,859.76	33234.12	36176.16	28277.84	30243.98	39764.06
8	Total Working Capital	75486.18	70731.40	76748.86	61212.28	66356.56	86257.92
9	Rate of Interest	13.50%	12.05%	11.25%	10.50%	10.50%	12.00%
10	**Interest on Working Capital**	**101.91**	**8523.13**	**8634.25**	**6427.29**	**6967.44**	**10350.95**

(Petitioner)

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Date: 2024
Reason: AOC
Location: NTPC Limited

Sl. No.	Name of the Asset	Date of Creation of Identifiable Asset/Work Completion	Cost of Identifiable Asset/Work Completion	Liability of Asset/Work Completion for Which Not Capitalised	Capitalised Value	Withdrawn Capitalised Value			Cost of Identifiable Asset/Work Completion
						Assignment	Transfer		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]									
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					[illegible]
[illegible]	[illegible]	[illegible]	[illegible]						[illegible]
[illegible]	[illegible]	[illegible]	[illegible]			[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]			[illegible]		[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]						[illegible]

Sl. No.	Name of the Vendor	Date of receipt of Bank Guarantee (in Dd/mm/yyyy format)	Amount of Bank Guarantee (in Rs. Lakhs)	Validity of Bank Guarantee (in Dd/mm/yyyy format)	Claim period (Dd/mm/yyyy)	Pending Billing (in Rs. Lakhs)			Pending Claims (in Rs. Lakhs)
						Supply Part	Erection Part	Total Percentage	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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Part-I
Form-I
ADDITIONAL FORM

Summary of Gross Block reconciliation of NCEPS Dadri-I (2019-20)

Amount in Rs.

Sr. No.	Particular	TOTAL GROSS BLOCK	ST-I	ST-II	Dadri-Loni	Solar
1	Closing Gross Block as per Audited Balance Sheet 31.03.2020	47,96,73,70,632	5,93,69,66,638	40,44,48,27,623	1,12,57,37,246	44,98,38,895
2	Opening Gross Block as per Audited Balance Sheet 01.04.2019	46,69,53,03,195	5,05,48,63,359	40,06,53,86,649	1,12,57,37,246	44,93,15,740
3	**Addition During the Year (1-2) (IndAS)**	**1,26,20,67,408**	**88,21,03,479**	**37,94,40,774**	-	5,23,155
4	IndAS Adjustment	8,35,74,396	20,60,00,627	-12,24,26,231	-	-
5	**Addition during the year (3+4) (IGAAP)**	**1,34,56,41,804**	**1,08,81,04,106**	**25,70,14,543**	-	**5,23,155**

Petitioner)

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Location: NTPC Limited

PART-I
FORM-IA

Year wise Statement of Additional Capitalisation | ADDITIONAL FORM

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
Date of Commercial Operation	01-12-1995
For Financial Year	2019-20

Amount in Rs.

Sl. No.	Head of Work /Equipment	Party Name	ACE Claimed: Accrual basis as per Note-2 of BS	Ind AS Adj	Accrual basis as per IGAAP	Un-discharged Liability included in col. 6	Cash basis	IDC included in col. 3
1	2	3	4	5	6	7	8	9
A	Claims							
A.1	Claimed/Allowed Items							
1	LAND THRESHOLD PLANT OFFICE		68,13,076	-	68,13,076	20,11,461	48,01,615	
2	Upgradation of DCCMIS	BHEL	32,13,80,119		32,13,80,119	1,89,01,540	30,24,87,879	7,30,61,584
3	Augmentation of Fire Detection and Protection System	Agnivir Fire Protection Ltd/ Ujjwal Insulations Pvt Ltd	3,78,77,060	-	3,78,77,060	76,71,563	3,02,05,497	7,92,478
4	VFD system in ID Fans of Unit-II	Yantra Harvest Energy Pvt. Ltd.	2,62,43,471	93,439	2,63,36,910	24,15,365	2,39,23,525	-
5	Online Coal Analyser	Real Time Instruments Pvt Ltd	6,07,45,896	-	6,07,45,896	72,18,258	5,35,27,638	
6	Raw coal bunker wall monitoring system	Endeavor/Hayter India Pvt Ltd	39,70,538	-	39,70,538	8,62,388	31,08,150	6,75,849
7	Biomass Handling Infrastructure Civil Work	Pragya Vikas Enterprises	40,99,632	-	40,99,632	3,06,500	37,93,132	
8	Replacement of Fire Tenders	Hindustan Technologies Pvt Ltd	1,00,72,323	-	1,00,72,323	-	1,00,72,323	
9	LED Electrification in Plant Area Stage-I		10,66,701	-	10,66,701	-	10,66,701	
10	Aerial Working Platform	Semin Power Hydraulics Pvt Ltd	23,49,523	-	23,49,523	57,545	22,92,378	
11	In-Motion Weigh Bridge	Rice Lake Weighing Systems	24,69,647	-	24,69,647	-	24,69,647	
12	Hazard Identification for Rectification in Critical Piping at Dadri-I station		8,72,66,732	-	8,72,66,732	37,55,178	8,35,01,554	68,24,924
	Decap corresponding to Sl No 12 above		-99,97,115	-69,97,403	-99,97,115	-	-99,97,115	-
	Subtotal (A.1)		56,32,96,606	(89,03,964)	55,43,92,642	4,31,99,718	51,11,92,924	8,15,44,835
A.2	MBOAs		1,03,86,039	-	1,03,86,039	-	1,03,86,039	-
1	Office Equipments	Various parties	79,18,927	-	79,18,927	-	79,18,927	-
2	EDP, WP machines & SAT/COM equipment	Various parties	4,53,790	-	4,53,790	-	4,53,790	-
3	Laboratory and workshop equipment	IR Technology Services Pvt. Ltd	20,15,322	-	20,15,322	-	20,15,322	-
A.3	Decap of MBOAs: Part of Capital Cost		-7,34,991	-37,95,691	-45,30,522	-	-45,30,522	-
A.4	Decap of Spares: Part of Capital Cost		-50,24,980	-1,47,87,615	-1,98,12,595	-	-1,98,12,595	-
	TOTAL Claim (A)		58,79,22,893	-2,74,87,240	54,04,35,654	4,31,99,718	49,72,35,936	8,15,44,835
B	Exclusions							
B.1	Disallowed Items							

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Reason: ACM (Commercial)
Location: NTPC Limited

PART-I
FORM-IA
ADDITIONAL FORM

Year wise Statement of Additional Capitalisation

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri Stage-I
Date of Commercial Operation	01-12-1995
For Financial Year	2019-20

Amount in Rs.

Sl. No.	Head of Work /Equipment	Party Name	ACE Claimed: Accrual basis as per Note-2 of B5	Incl AS Adj	Accrual basis as per IGAAP	Un-discharged Liability included in col. 6	Cash basis	IDC included in col. 3
1	2	3	4	5	6	7	8	9
1	LAND FREEHOLD -PLANT/OFFICE (MURADNAGAR)		3,60,421	-	3,60,421	3,60,421	-	
	Subtotal (B.1)		3,60,421	-	3,60,421	3,60,421	-	-
B.2	Items not claimed							
1	Lab Equipments Building		10,55,256	-	10,55,256	-	10,55,256	
2	Chain Pulley blocks	Bakelite Electrical Mfg Co Pvt Ltd	1,92,647	-	1,92,647	-	1,92,647	-
3	Replacement of Complete AHU Assembly for Main plant Air Conditioning system	Tatson Engineers	1,18,62,891	-	1,18,62,891	-	1,18,62,891	
4	Digital Bay with Optical CT	GE T&D India Ltd	3,62,60,877	-	3,62,60,877	-	3,62,60,877	
5	HVAC System of Administration Building		-31,930	-	-31,930	-	-31,930	
	Subtotal B.2		4,93,39,743	-	4,93,39,743	-	4,93,39,743	-
B.3	Items claimed under Supplementary Tariff Petition							
1	Dry Sorbent Injection System (DSI) Stg-1 Unit 1	Metco India Pvt Ltd	20,77,17,458	-	20,77,17,458	2,42,50,399	18,34,67,060	
2	Dry Sorbent Injection System (DSI) Stg-1 Unit 2	Metco India Pvt Ltd	20,77,17,458	-	20,77,17,458	2,09,74,844	18,67,42,614	
	Subtotal (B.3)		41,54,34,916.90	-	41,54,34,916.90	4,52,25,242.84	37,02,09,673.97	-
B.4	Capitalisation of Spares		9,55,02,662	12,033	9,55,14,695	69,73,055	8,85,41,640	-
B.5	Decap of Capital Spares-Not part of Capital Cost		-1,14,09,906	-0	-1,14,09,906	-	-1,14,09,906	-
B.6	Decap of MBOAs- Not Part of Capital Cost		-2,50,317	-3,54,940	-6,05,163	-	-6,05,163	-
B.7	InAS5 Adjustment							
1	Overhauling		5,34,15,042	-5,34,15,042	-	-	-	-
2	Decap of OH assets		-28,61,16,370	28,61,16,370	-	-	-	-
B.8	Asset Class Change		96,616	2,09,548	3,06,164	-	3,06,164	-
	Total Exclusion (B)		31,41,88,676	23,34,67,904	[illegible]	8,29,56,719	49,51,09,823	-
	Grand Total for Dadri Stage-I (A+B)		88,21,59,476	[illegible]	[illegible]	9,57,59,437	99,23,45,969	8,15,44,835

Deputy Manager (Commercial)
Reason: ACE (Commercial)
Location: NTPC Limited

PART-I
FORM-IA

Year wise Statement of Additional Capitalisation | ADDITIONAL FORM

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
Date of Commercial Operation	01-12-1995
For Financial Year	2019-20

Amount in Rs.

Sl. No.	Head of Work /Equipment	Party Name	ACE Claimed					
			Accrual basis as per Note-2 of BS	Ind AS Adj	Accrual basis as per IGAAP	Un-discharged Liability included in col. 6	Cash basis	IDC included in col. 3
1	2	3	4	5	6	7	8	9

(Petitioner)

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Reason: ACM (Commercial)
Location: NTPC Limited

Part-I
Form-II
ADDITIONAL FORM

Summary of Gross Block reconciliation of NCTPS Dadri-I (2020-21)

Amount in Rs.

Sr. No.	Particular	ST-I	ST-II	Dadri-Loni	Solar	TOTAL GROSS BLOCK (Rs)
1	Closing Gross Block as per Audited Balance Sheet 31.03.2021 (Ind-AS)	6,62,49,52,663	40,54,66,76,059	1,12,57,37,246	45,24,80,308	48,74,98,46,297
2	Opening Gross Block as per Audited Balance Sheet 01.04.2020 (Ind-AS)	5,93,69,66,838	40,44,48,27,623	1,12,57,37,246	44,98,38,895	47,95,73,70,602
3	Addition During the Year (1-2) (Ind-AS)	68,79,85,845	10,18,49,436		26,41,413	79,24,75,695
4	Ind-AS Adjustment	- 16,57,14,496	- 38,83,465			- 16,95,97,961
5	Addition During the Year (3+4) (IGAAP)	52,22,71,349	9,79,64,971	-	26,41,413	62,28,77,733

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Reason: ACM (Commercial)
Location: NTPC Limited

PART-I
FORM-IIA
ADDITIONAL FORM

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
Station COD	01-12-1995
For Financial Year	2020-21

Amount in Rs.

Sl. No.	Head of Work /Equipment	Party Name	ACE Claimed (Actual for 2020-21)					
			Accrual basis as per Note-2 of BS	(IND AS Adj)	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3
1	2	3	4	5	6	7	8	9
A	Claims							
A.1	Claimed Allowed Items							
1	Land Freehold- Plant Office		5,22,47,488	-	5,22,47,488	3,63,89,911	1,58,57,577	
2	Upgradation of DDCMIS	BHEL	26,000	-	26,000		26,000	
3	Augmentation of Fire Detection and Protection System	Agnice Fire Protection Ltd/ Lloyd Insulations India Ltd	68,17,337	-	68,17,337		68,17,337	
4	Continuous Emission Monitoring System	Analyser Instruments Co Pvt Ltd	- 1,70,423	-	- 1,70,423		- 1,70,423	
5	Inert Gas Fire Extinguishing System	Minimax Gmbh & Co	3,08,985	-	3,08,985		3,08,985	
6	COVID Hospital Infrastructure	Apollo Home Healthcare Limited	1,06,94,204	-	1,06,94,204	96,71,592	9,22,612	
7	VFD system in ID Fans of Unit-II	Ethan Power Private Limited	- 33,262	-	- 33,262		- 33,262	
8	Online Coal Analyser	Real Time Instruments Pvt Ltd	68,29,912	-	68,29,912		68,29,912	
9	Biomass Handling Infrastructure Civil Work	Pragya Vikas Enterprises	10,66,077	-	10,66,077	25,708	10,39,369	
10	LED Electrification in Plant Area Stage-I		1,58,628	-	1,58,628		1,58,628	
11	Peripheral drain & effluent treatment pit	Anil Kumar Jindal	15,99,840	-	15,99,840	1,24,663	14,75,177	
12	Hazard Identification for Rectification in Critical Piping at Dadri I station	NTPC GE Power Services Limited	4,84,656	-	4,84,656		4,84,656	
	Subtotal (A.1)		8,19,27,443	-	8,19,27,443	4,62,11,874	3,57,15,570	-
A.2	Capitalization of MBOAs	Various Parties	21,30,513	-	21,30,513	6,82,210	14,48,303	-
A.3	Decap of MBOAs Part of Capital Cost		- 43,56,285.30	- 3,79,08,766	- 4,23,52,051	-	- 4,23,52,051	-
A.4	Decap of Spares Part of Capital Cost		- 14,77,211	- 1,43,80,581	- 1,58,57,793	-	- 1,58,57,793	-
	Total claim (A1+A2+A3+A4)		7,82,24,460	- 5,23,76,347	2,58,48,113	4,68,94,084	- 2,10,45,971	-
B	Exclusions							
B.1	Items claimed under Supplementary Tariff Petition							
1	Dry Sorbent Injection System (DSI) Stg-I Unit-1		87,28,683	-	87,28,683	9,58,846	77,69,836	

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Reason: ACM (Commercial)
Location: NTPC Limited

PART-I
FORM-IIA
ADDITIONAL FORM

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
Station COD	01-12-1995
For Financial Year	2020-21

Amount in Rs.

Sl. No.	Head of Work /Equipment	Party Name	ACE Claimed (Actual for 2020-21)					
			Accrual basis as per Note-2 of BS	IND AS Adj	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3
1	2	3	4	5	6	7	8	9
2	Dry Sorbent Injection System (DSI) Stg-1 Unit 2	Metso India Pvt Ltd	87,28,683	-	87,28,683	6,30,764	80,97,919	
3	Dry Sorbent Injection System (DSI) Stg-1 Unit 3		22,32,96,914	-	22,32,96,914	2,95,41,506	19,37,55,408	
4	Dry Sorbent Injection System (DSI) Stg-1 Unit 4		22,32,96,912	-	22,32,96,912	2,97,85,535	19,35,11,377	
	Sub-Total: (B.1)		**46,40,51,191**	-	**46,40,51,191**	**6,09,16,654**	**40,31,34,538**	-
B.2	**Disallowed Items**							
1	LAND FREEHOLD -PLANT/OFFICE (MUKARAMNAGAR)		-31,47,373	0	- 31,47,373	-31,47,373	-	
	Sub-Total: (B.2)		-31,47,373	0	-31,47,373	-31,47,373	0	
B.3	**Ind AS Adjustment**							
1	Overhauling		11,54,89,864	- 11,54,89,864	-	-	-	-
	Subtotal (B.3)		**11,54,89,864**	**-11,54,89,864**	-	-	-	-
B.4	Capitalisation of Capital Spares	Various Parties	3,24,88,997	- 48,456	3,24,40,541	32,05,060	2,92,35,481	-
B.5	Decap of MBOAs, Not Part of Capital Cost		- 11,013	- 1,24,983	- 1,35,996	-	- 1,35,996	-
B.6	Decap of Spares, Not Part of Capital Cost		33,21,775	-	- 33,21,775	-	- 33,21,775	-
B.7	Inter Unit Transfer		42,11,493	23,25,155	65,36,648	-	65,36,648	-
B.7.1	Furniture and Fixtures	From Badarpur	28,85,606.97	14,51,813.59	43,37,421		43,37,421	
B.7.2	Other Office Equipments	From Badarpur	11,42,694.56	6,57,535.59	18,00,230		18,00,230	
B.7.3	EDP, WP machines & SATCOM equipment	From Badarpur	1,44,730.74	1,69,528.46	3,14,259		3,14,259	
B.7.4	Vehicles including speedboats	From Badarpur	38,360.24	46,477.76	84,738		84,738	
	Total Exclusion Claimed (B1+B2+B3+B4+B+5+B6+B7)		**60,97,61,389**	**- 11,33,36,149**	**49,64,23,237**	**6,09,74,341**	**43,54,48,896**	-
	Grand Total (A+B)		**68,79,85,846**	**- 16,57,14,496**	**52,22,71,350**	**10,78,68,424**	**41,44,02,926**	-

Petitioner)

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Reason: ACM [illegible] (Commercial)
Location: NTPC Limited

Part-I
Form-III
ADDITIONAL FORM

Summary of Gross Block reconciliation of NCTPS Dadri-I (2021-22)

Amount in Rs.

Sr. No.	Particular	ST-I	ST-II	Dadri-Loni	Solar	TOTAL GROSS BLOCK (Rs)
1	Closing Gross Block as per Audited Balance Sheet 31.03.2021 (Ind-AS)	6,77,18,32,395	40,59,47,66,432	1,12,57,37,246	45,40,51,561	48,94,63,89,634
2	Opening Gross Block as per Audited Balance Sheet 01.04.2020 (Ind-AS)	6,62,49,52,683	40,54,66,76,059	1,12,57,37,246	45,24,80,308	48,74,98,46,297
3	Addition During the Year (1-2) (Ind-AS)	14,68,79,712	4,80,82,372	-	15,71,253	19,65,43,337
4	Ind-AS Adjustment	4,81,78,272	6,36,40,840	-	-	11,18,19,112
5	Addition During the Year (3+4) (IGAAP)	19,50,57,984	11,17,33,212	-	15,71,253	30,83,62,449

(Petitioner)

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Reason: ACM (Commercial)
Location: NTPC Limited

PART-I
FORM-IIIA
ADDITIONAL FORM

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
Station COD	01-12-1995
For Financial Year	2021-22

Amount in Rs.

Sl. No.	Head of Work /Equipment	Party Name	ACE Claimed (Actual for 2021-22)					
			Accrual basis as per Note-2 of BS	IND AS Adj	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3
1	2	3	4	5	6	7	8	9
A	Claims							
A.1	Claimed Allowed Items							
1	Land Freehold- Plant Office		1,84,02,403.50	-	1,84,02,404	1,58,33,318.00	25,69,086	
2	Decap of Fire Tender		- 2,00,694.70	- 18,05,252.30	- 20,06,947.00		- 20,06,947	
3	Upgradation of DDCMIS	BHEL	13,93,661.73	-	13,93,661.73		13,93,662	
4	LED Electrification in Plant Area Stage-I		22,52,830	-	22,52,830		22,52,830	
5	PLC upgrade at Ash Mound Area	Silicon Systems India Pvt Ltd	1,33,11,999.00		1,33,11,999.00		1,33,11,999	
6	Peripheral drain & effluent treatment pit	Anil Kumar Jindal	49,733.40	-	49,733.40		49,733	
	Subtotal (A.1)		3,52,96,563	- 18,06,252	3,33,99,701	1,58,33,318	1,75,66,383	-
A.2	Capitalisation of MBOAs	Various Parties	81,55,963.00	-	81,55,963	7,08,950	74,47,013	- 4,94,013
A.3	Decap of MBOAs, Part of Capital Cost		- 15,15,195.86	-1,26,23,369	1,41,38,569	-	1,41,38,569	-
A.4	Decap of Spares, Part of Capital Cost		43,50,323	-4,52,45,408	4,95,95,731	-	4,95,95,731	
	Total claim (A1+A2+A3+A4)		3,76,96,723	- 6,96,75,269	10,73,72,992	1,65,41,318	8,87,19,694	- 4,94,013
B	Exclusions							
B.1	Items claimed under Supplementary Tariff Petition							
1	Dry Sorbent Injection System (DSI) Stg-1 Unit 1	Mikro India Pvt Ltd	2,83,11,216.99	-	2,83,11,216		2,83,11,216	
2	Dry Sorbent Injection System (DSI) Stg-1 Unit 2		2,83,11,216.99	-	2,83,11,216		2,83,11,216	
3	Dry Sorbent Injection System (DSI) Stg-1 Unit 3		2,83,11,216.99	-	2,83,11,216		2,83,11,216	
4	Dry Sorbent Injection System (DSI) Stg-1 Unit 4		2,83,11,216.99	-	2,83,11,216		2,83,11,216	
	Sub-Total (B.1)		11,32,44,864	-	11,32,44,864		11,32,44,864	-
B.2	Disallowed Items							
1	LAND FREEHOLD -PLANT/OFFICE (MURADNAGAR)		1,50,737	-	1,50,737	1,50,737	-	
	Sub-Total (B.2)		1,50,737	0	1,50,737	1,50,737	0	
B.3	Ind AS Adjustment							
1	Overhauling		4,75,36,570	- 4,75,36,570	-	-	-	-
2	Decap of Old Assets		- 16,86,65,098	16,86,65,098	-	-	-	-
	Sub-Total (B.3)		-12,08,28,528	12,08,28,528	-	-	-	-
B.4	Capitalisation of Capital Spares	Various Parties	6,44,12,322	[illegible]	[illegible]	51,06,220	6,36,30,553	-
B.5	Decap of MBOAs, Not Part of Capital Cost		- 5,78,243	- [illegible]	[illegible]	-	- 1,36,50,606	-

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Date: 2024.[illegible]
Reason: [illegible]
Location: NTPC Limited

PART-I
FORM-IIIA
ADDITIONAL FORM

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner		NTPC Limited						
Name of the Generating Station		National Capital Thermal Power Station Dadri, Stage-I						
Station COD		01-12-1995						
For Financial Year		2021-22						Amount in Rs.
			ACE Claimed (Actual for 2021-22)					
Sl. No.	Head of Work /Equipment	Party Name	Accrual basis as per Note-2 of BS	IND AS Adj	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3
B6	Decap of Sewer Not Part of Capital Cost		- 1,55,78,959	- 13,843	- 1,55,92,802	-	- 1,55,92,802	-
B7	Inter Unit Transfer		3,82,12,796	-	3,82,12,796	-	3,82,12,796	-
B7.1	Plant & Machinery	From Korba	3,82,12,796.00		3,82,12,796		3,82,12,796	
	Total Exclusion Claimed (B1+B2+B3+B4+B5+B6+B7)		10,91,82,989	10,80,53,631	21,72,36,620	52,56,964	18,45,44,803	-
	Grand Total (A+B)		14,68,78,712	4,81,78,272	19,50,57,984	2,17,57,282	14,61,24,849	- 4,94,013

(Petitioner)

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Reason: ACM (Commercial)
Location: NTPC Limited

Part-I
Form-IV
ADDITIONAL FORM

Summary of Gross Block reconciliation of NCTPS Dadri-I (2022-23)

Amount in Rs.

Sr. No.	Particular	ST-I	ST-II	Dadri-Loni	Solar	TOTAL GROSS BLOCK (Rs)
1	Closing Gross Block as per Audited Balance Sheet 31.03.2023 (Ind-AS)	6,68,04,02,511	46,46,97,19,924	1,12,57,37,246	45,77,92,361	64,73,36,52,042
2	Opening Gross Block as per Audited Balance Sheet 01.04.2022 (Ind-AS)	6,77,18,32,395	40,59,47,68,432	1,12,57,37,246	45,40,51,561	48,94,63,89,634
3	Addition During the Year (1-2) (Ind-AS)	- 9,14,29,884	5,87,49,51,492		37,40,800	5,78,72,62,408
4	Ind-AS Adjustment	- 4,01,50,877	8,79,41,066			4,77,90,189
5	Addition During the Year (3+4) (IGAAP)	- 13,15,80,761	5,96,28,92,558	-	37,40,800	5,83,50,52,597

(Petitioner)

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Reason: ACM (Commercial)
Location: NTPC Limited

PART-I
FORM-IVA
ADDITIONAL FORM

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
Station COD	01-11-1995
For Financial Year	2022-23

Amount in Rs.

Sl. No.	Head of Work (Equipment)	Party Name	ACE Claimed (Actual for 2022-23)					
			Accrual basis as per Note-2 of BS	IND AS Adj	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3
1	2	3	4	5	6	7	8	9
A	Claims							
A.1	Claimed Allowed Items							
1	Land Freehold- Plant Office		34,19,262.01	-	34,19,262	13,37,638.91	21,81,720	
2	Turbine vibration analysis & diagnostic system	Forbes Marshall Pvt. Ltd.	1,54,76,704.49	41,296.51	1,55,20,001.00		1,55,20,000	
3	AHT Mixers	Kumar Enterprises	44,70,528.36	18,958.64	44,89,487.00	1,82,790	43,06,777	
	Decap corresponding to S.No. 3 above		- 17,902.64	- 8,38,035.40	- 7,10,938.43		- 7,10,938	
4	Replacement of Circuit Breakers	Siemens Ltd.	36,35,274.00		36,35,274.00		36,35,274	
5	AOC implementation work	ABB India Limited	42,33,922.87		42,33,922.87	45,80,878	2,80,266	
6	LED Electrification in Plant Area Stage-I	Signify Innovations India Limited/ Energy Efficiency Services Limited/ Surya Roshni Limited	38,53,482	-	38,53,482		38,53,482	
	Decap corresponding to S.No. 6 above		- 1,70,257	- 10,36,267	- 11,77,524		- 11,77,524	
7	Online Coal Analyser- Package ERV		1,86,068		1,86,068	1,86,068	-	
	Total (A1)		2,87,40,636	- 16,34,013	2,45,06,623	61,86,207	2,83,16,436	-
A.2	Capitalisation of MSORs	Various Parties			-		-	
A.3	Decap of MSORs- Part of Capital Cost			- 33,24,779	33,24,779		- 33,24,779	-
A.4	Decap of Spares- Part of Capital Cost		- 27,77,846	- 1,21,99,087	1,49,76,932		- 1,49,76,932	
	Total claim (A1+A2+A3+A4)		3,15,62,790	- 1,71,57,879	4,28,08,334	61,86,207	1,00,14,924	-
B	Exclusions							
B.1	Items Not Claimed							
1	Replacement of Boiler Lifts	Otis Elevator Co. India Limited	2,33,94,370.00		2,33,94,370.00	39,94,860	1,34,09,912	
	Decap corresponding to S.No. 1 above		- 4,34,010.38	- 28,94,371.00	- 46,78,381.77		- 46,78,382	
	Subtotal(B.1)		2,15,30,361.62	- 28,94,371.00	1,70,36,000.23	39,94,860.00	93,31,529.23	-
B.2	Items claimed under Supplementary Tariff Petition							
1	Dry Bottom Injection System (DBI) Stg-1 Unit 1	Maxo India Pvt Ltd.	- 3,57,81,061.12	-	- 3,57,81,061	5,96,526	- 3,63,67,577	
2	Dry Bottom Injection System (DBI) Stg-1 Unit 2		- 3,57,81,061.12	-	- 3,57,81,061	5,96,526	- 3,63,67,577	
3	Dry Bottom Injection System (DBI) Stg-1 Unit 3		- 3,57,81,061.12	-	- 3,57,81,061	5,96,526	- 3,63,67,577	
4	Dry Bottom Injection System (DBI) Stg-1 Unit 4		- 3,57,81,061.12	-	- 3,57,81,061	5,96,526	- 3,63,67,577	
	Sub Total (B.2)		- 14,31,24,245	-	- 14,31,24,245	23,86,105	- 14,54,69,310	-
B.3	Disallowed Items							
1	LAND FREEHOLD PLANT/OFFICE (MUNICIPAL/GAIL)		- 3,96,71,040	-	- 3,96,71,040	75,575	- 3,97,46,620	
	Sub Total (B.3)		- 3,96,71,040	0	- 3,96,71,040	75,575	- 3,97,46,620	
B.4	Ind AS Adjustment							
1	Overhauling		6,94,39,400	- 6,94,39,400	-	-	-	-
2	Decap of Old Assets		- 7,02,86,[illegible]	[illegible]	-	-	-	-
	Sub Total (B.4)		1,31,35,062	[illegible]	0	0	0	0
B.5	Capitalisation of Capital Spares	Various Parties	2,37,36,931	[illegible]	2,28,22,862	12,44,153	2,15,85,507	-

[illegible]
Location: NTPC Limited

PART-I
FORM-IVA
ADDITIONAL FORM

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
Station COD	01-11-1995
For Financial Year	2022-23

Amount in Rs.

Sl. No.	Head of Work /Equipment	Party Name	ACE Claimed (Actual for 2022-23)					
			Accrual basis as per Note-2 of BS	IND AS Adj	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3
1	2	3	4	5	6	7	8	9
B.6	Decap of MBOAs, Not Part of Capital Cost		- 1,09,965	- 84,726	- 1,91,721	-	- 1,91,721	-
B.7	Decap of Spares, Not Part of Capital Cost		- 54,40,321	- 2,26,828	- 57,12,149	-	- 57,12,149	-
B.8	Less Inv Provision		67,581	-	67,581	-	67,581	-
B.8.1	Plant & Machinery	From Gandhiwara	67,581.29		67,581		67,581	
	Total Exclusion Claimed (B1+B2+B3+B4+B5+B6+B7+B8)		- 12,47,92,934	- 2,29,12,955	- 14,77,05,889	1,19,40,293	- 13,57,26,195	-
	Grand Total (A+B)		- 5,14,29,884	- 4,01,50,977	- 13,15,80,761	1,81,30,500	- 14,97,11,261	-

Petitioner)

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Reason: ACM
Location: NTPC Limited

Part-I
Form-V
ADDITIONAL FORM

Summary of Gross Block reconciliation of NCTPS Dadri-I (2023-24)

Amount in Rs.

Sr. No.	Particular	ST-I	ST-II	Dadri-Loni	Solar	TOTAL GROSS BLOCK (Rs)
1	Closing Gross Block as per Audited Balance Sheet 31.03.2023 (Ind-AS)	6,93,60,12,584	47,90,73,92,954	1,12,57,37,246	45,77,92,361	56,42,69,35,126
2	Opening Gross Block as per Audited Balance Sheet 31.04.2022 (Ind-AS)	5,68,04,02,511	46,46,97,19,924	1,12,57,37,246	45,77,92,381	54,73,38,52,042
3	Addition During the Year (1-2) (Ind-AS)	25,56,10,053	1,43,76,73,031			1,69,32,83,083
4	Ind-AS Adjustment	6,42,57,399	- 3,32,42,762			3,10,14,637
5	Addition During the Year (3+4) (IGAAP)	31,98,67,451	1,40,44,30,269	-	-	1,72,42,97,720

(Petitioner)

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Date: 2024 17 14:26 IST
Reason: ACM (Commercial)
Location: NTPC Limited

PART-I
Form-VA
ADDITIONAL FORM

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited
Name of the Generating Station	National Capital Thermal Power Station Dadri, Stage-I
Station COD	01-12-1995
For Financial Year	2023-24

Amount in Rs.

Sl. No.	Head of Work /Equipment	Party Name	ACE Claimed (Actual for 2023-24)					
			Accrual basis as per Note-2 of 60	IND AS Adj	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3
1	2	3	4	5	6	7	8	9
A	Claims							
A.1	Claimed Items							
1	Land Freehold- Plant Office		33,86,747.00	-	33,86,747	33,86,747.00	-	
2	Online Coal Analysis	Kumar Enterprises	57,06,373.00		57,06,373	57,06,373.00	-	
3	Turbine vibration analysis & diagnostic system	Forbes Marshall Pvt. Ltd / Bhoskawa Electric Company Ltd	4,61,504.24	2,46,146	7,08,000	0	7,08,000.00	
4	Replacement of Circuit Breakers	Siemens Ltd	2,30,24,780.00	71,249.00	2,31,46,043	1,29,87,219	1,01,58,829.00	
5	HMI upgradation with Cyber Security Features Unit 1&2	Bharat Heavy Electricals Limited	10,45,15,641.05		10,45,15,641	3,48,30,180	6,96,85,462.05	
	Details pertaining to S.No. 5 above		6,58,990	48,44,091	55,03,081		55,03,080.00	
6	Replacement of Battery Charger		22,42,556.00		22,42,556	3,74,144.00	18,68,744.00	
7	Security System- CCTV installation		16,68,373		16,68,373	3,98,473	12,70,898.00	
8	Self Propelled articulated boom lift for CHP	Royal Smithe Pvt. Ltd.	72,57,000.00		72,57,000	0	72,57,000.00	
9	Peripheral drain & effluent treatment set	Anil Kumar Jindal	646.29		646.29		646	
	Subtotal (A.1)		14,79,87,661	48,27,182	14,94,70,426	5,78,96,116	8,85,76,313	-
A.2	Capitalisation of NBOAs	Various Parties	2,31,80,529.74	-	2,31,80,529.74	46,84,318.51	1,84,96,211.23	-
A.3	Decap of NBOAs, Part of Capital Cost		2,19,069.47	-11,70,910	10,90,000		10,90,000	-
A.4	Decap of Spares, Part of Capital Cost		-26,75,005	-1,37,02,008	1,71,61,003		1,71,61,003	
	Total claim (A1+A2+A3+A4)		16,74,60,367	1,54,00,206	18,80,79,961	5,25,79,434	8,55,00,426	-
B	Exclusions							
B.1	Items Not Claimed							
1	Replacement of Boiler Lifts	Otis Elevator Co. India Limited	69,89,095.00		69,89,095.00		69,89,095	
2	Skid Steer Loader for CHP	Manitou Equipment India Pvt. Ltd / Weil Equipment Pvt. Ltd	41,81,092		41,81,092		41,81,092	
	Subtotal (B.1)		1,11,70,187.00		1,11,70,187.00		1,11,70,187.00	
B.2	Disallowed Items							
1	LAND FREEHOLD-PLANT/OFFICE (MUNDKA/NGBP)		1,51,150.30	-	1,51,150.30	1,51,150.30	-	
	Sub-Total: (B.2)		1,51,150	0	1,51,150.30	1,51,150.30	-	
B.3	Ind AS Adjustment							
1	Overhauling		16,10,74,185	[illegible]	[illegible]	-	-	-
2	Decap of OH Assets		29,51,38,147	[illegible]	[illegible]	-	-	-
	Sub-Total: (B.3)		-8,41,34,332	8,41,34,332	0	0	0	0
B.4	Capitalisation of Capital Spares	Various Parties	16,23,87,421	[illegible]	[illegible]	1,34,07,936	16,89,68,565	-

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Date: 2024.[illegible]
Reason: AO[illegible]
Location: NTPC Limited

PART-I
Form-VA
ADDITIONAL FORM

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner		NTPC Limited						
Name of the Generating Station		National Capital Thermal Power Station Dadri, Stage-I						
Station COD		01-12-1995						
For Financial Year		2023-24						Amount in Rs.
			ACE Claimed (Actual for 2023-24)					
Sl. No.	Head of Work /Equipment	Party Name	Accrual basis as per Note-2 of BS	IND AS Adj	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3
1	2	3	4	5	6	7	8	9
B.5	Decap of MBOAs Not Part of Capital Cost		- 24,54,309.71	- 4,67,614.62	- 29,01,924	-	- 29,01,924	-
B.6	Decap of Spares Not Part of Capital Cost		- 1,99,22,852		- 1,99,22,852	-	- 1,99,22,852	-
B.7	Inter Unit Transfer		13,00,721.27	887.25	13,01,609	-	13,01,609	-
B.7.1	Furniture and Fixures	From Badarpur		887.25	887		887	
B.7.2	ESP, WP machines & SATCOM equipment	From Auraiya	3,16,896.92	-	3,16,897		3,16,897	
B.7.3		From Corporate Centre	1,79,236.26	-	1,79,236		1,79,236	
B.7.4		From Corporate Centre-EOC	5,66,725.62	-	5,66,726		5,66,726	
B.7.5		From Kanti	1,26,654.80	-	1,26,654		1,26,654	
B.7.6		From Kawas	63,900.00	-	63,900		63,900	
B.7.7		From Lara	49,036.44	-	49,036		49,036	
B.7.8		From Vindhyachal	54,063.95	-	54,063		54,063	
B.7.9		To Dadri Gas	(55,812.63)	-	- 55,813		- 55,813	
B.8	Reversal of Liability		- 4,56,000		- 4,56,000	- 4,56,000	-	
	Total Exclusion Claimed (B1+B2+B3+B4+B5+B6+B7+B8)		8,81,28,988	2,36,57,606	17,17,87,591	1,61,51,606	15,66,35,904	-
	Grand Total (A+B)		28,56,10,063	6,42,67,389	31,98,67,451	7,77,21,121	24,21,36,330	-

(Petitioner)

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Date: 2024 17 14:28 IST
Reason: ACM (Commercial)
Location: NTPC Limited

Summary of Issue involved in the petition							PART 1 FORM-T
Name of the Company :		NTPC Limited					
Name of the Power Station :		National Capital Thermal Power Station Dadri, Stage-I					
1	Petitioner:	NTPC Limited					
2	Subject	Determination of Tariff for 2019-24 period					
3	Prayer: i) Approve revised tariff of NCTPS-I for the tariff period 2019-24 as per provision of Regulation 13 of Tariff Regulations 2019. ii) Allow the reimbursement of water charges, capital spares and security expenses for the instant station, as claimed by the Petitioner. iii) Allow the supplementary tariff for the Emission Control System (ECS) implemented in the instant station after truing-up. iv) Consider additional APC of 291.7 kW (0.14%) for DSI based FGD as per the OEM Guarantee Schedule and tariff may be computed accordingly. v) Pass any other order as it may deem fit in the circumstances mentioned above.						
4	Respondents						
	Name of Respondents						
	a. Uttar Pradesh Power Corp. Ltd.						
	b. Gujarat Urja Vikas Nigam Ltd. (GUVNL)						
	c. Assam State Electricity Board (ASEB)						
	d. BSES Rajdhani Power Ltd. (BRPL)						
	e. BSES Yamuna Power Ltd. (BYPL)						
	f. Tata Power Delhi Distribution Ltd (TPDDL)						
	g. New Delhi Municipal Corporation (NDMC)						
	h. Haryana Power Purchase Centre (HPPC)						
	i. Rajasthan Urja Vika Nigam Limited (RUVNL)						
5	Project Scope						
	Capital Cost as on 01.04.2024 (Rs. Lakh)	176311.90					
	Date of Station COD	01-12-1995					
	Claim (Rs Lakh)	2019-20	2020-21	2021-22	2022-23	2023-24	
	AFC	62109.13	67579.10	63799.46	58362.55	63582.73	
	Capital Cost	173127.71	175682.19	175416.59	175337.97	175851.71	
	Initial spare	N/A					
	NAPAF (Gen)	85%					
	Any Specific						

(Petitioner)

Document verified by PARIMAL PITLISH
Digitally signed by PARIMAL PITLISH
Date: 2024 14:29 IST
Reason: AGM (Commercial)
Location: NTPC Limited

Annnxure-1

GCV CALCULATION SHEET FOR OCTOBER 2018

			AS PER CIMFR REPORT					DOMESTIC COAL DAYRESE		AS BILLED	
R.R.No.	RR Qty (MT)	As Billed GCV (kCal/kg)	As Received CIMFR (EQ Basis) GCV (kCal/kg)	TM	EQM	As Received CIMFR (TM Basis) GCV (kCal/kg)	HEAT VALUE As Received	GCV (kCal/kg)	QTY (MT)	QTY. (MT)	HEAT VALUE (kCal)
1028	3,560,730	4,001	4,280	16.7	8.5	3913	13572387			3,561	13514730
1028	3,366,970	0	4,520	12.1	7.6	4031	12624655			0	0
1027-B	612,700	4,001	3,930	17.3	8.3	3459	2129721			574	3405434
1027-A	2,782,230	0	4,350	17.4	8.4	3949	10984627			0	0
1026-B	1,197,800	4,001	3,940	19.3	8.8	3539	4238542			1,198	4791588
1026-A	2,369,410	0	4,170	16.2	7.0	3668	8687527			0	0
1025-B	1,188,400	4,001	4,080	14.8	6.3	3692	4387213	3757	24871	1,188	4754798
1025-A	2,152,940	0	4,190	15.3	6.8	3902	8394800			0	0
1030-B	1,651,400	6,250	4,460	8.8	8.4	4248	7014989			1,651	15551756
1030-C	479,105	6,250	4,590	13.2	8.4	4257	2039308			479	2084379
1030-A	1,947,990	6,250	4,960	13.4	5.9	4298	7824400			1,948	11146752
1024	3,772,380	4,001	4,080	18.4	7.1	3664	13826179			3,779	17356720
1032	3,442,440	0	4,020	16.7	6.8	4179	14386236			0	0
1033	3,492,030	4,001	4,472	16.5	7.2	4032	14082672			3,492	16968860
1034	3,387,340	0	4,442	16.9	6.7	3989	13504479			0	0
1035	3,383,250	0	4,160	16.4	6.0	3813	12900941			0	0
1036-A	2,296,210	0	4,320	19.8	8.0	3496	8030968			0	0
1036-B	1,192,900	4,001	4,490	15.6	7.0	4074	4859877	3964	24871	1,193	4771663
1031-A	1,248,900	6,250	4,490	13.6	7.1	4265	5325438			1,249	5329425
1031-B	2,600,900	5,250	3,800	19.3	5.3	3383	8795890			2,600	15470000
1037-D	1,189,780	5,250	4,160	13.7	8.2	3939	4686429			1,190	10463356
1037-A	612,980	5,250	4,140	12.9	8.4	3861	2367309			613	3667251
1037-B	909,185	5,250	4,410	10.4	6.5	4239	3842247			909	4864113
1037-C	977,395	5,250	3,900	11.5	4.7	3929	3841463			977	5819471
1040	3,390,430	0	3,930	13.0	6.9	3840	13261052			0	0
1041-C	1,317,800	6,250	3,110	13.3	6.9	4218	5555812			1,318	11084375
1041-B	1,433,300	6,250	4,010	12.7	3.7	4175	5985174			1,434	5985175
1041-A	549,330	6,250	4,740	11.2	6.1	4483	2462288			549	3621125
1042-B	999,735	5,250	3,860	8.0	4.3	3901	3900994	3792	19898	975	3798900
1042-C	1,018,200	5,250	4,260	11.8	4.2	3935	4007518			1,018	3447375
1042-B	1,092,000	5,250	4,310	14.1	7.2	3980	4347867			1,092	5841300
1042-A	857,300	5,250	3,980	12.0	4.0	3648	3333216			857	3215400
1039	3,667,220	4,001	3,830	13.8	7.3	3854	14128179			3,667	15342173
1038	3,603,630	4,001	3,590	16.6	7.1	3262	11753342			3,604	15440273
1043	3,597,920	0	4,270	18.9	8.8	3848	13846357			0	0
1045	3,930,030	0	3,860	10.7	7.9	4609	18112031			0	0
1046-D	1,242,100	6,250	3,810	14.8	7.7	4278	5312182			1,242	7191875
1046-B	231,600	6,250	4,730	10.0	1.8	4270	989175			232	1444875
1046-C	1,024,700	6,250	4,390	13.8	4.4	4241	4345286			1,025	6150375
1046-A	569,500	6,250	3,820	14.5	7.8	4138	2357424	4862	19898	569	3416625
1044-D	1,006,240	6,250	3,880	14.7	8.5	4261	4287361			1,006	6037500
1044-C	871,140	6,250	3,870	18.5	9.1	4171	3634298			871	5444625
1044-A	868,460	6,250	3,700	18.1	8.5	4222	3666990			868	5427875
1046-B	218,300	6,250	3,820	13.3	8.0	4289	1135188			218	1364375
1046-C	509,800	6,250	3,780	12.8	4.5	4400	2242850			510	3187500
1054-A	2,967,270	0	4,180	13.1	7.0	4025	11943127			0	0
1054-B	977,900	4,001	4,030	18.0	8.9	3849	3764144			979	3911179
1053	3,508,840	4,001	4,170	17.8	7.0	3880	13612547			3,509	14022958
1061	3,470,430	0	4,160	18.0	6.9	3799	13180324			0	0
1055-A	1,546,350	4,001	4,080	16.9	8.0	3797	5872047			1,546	6188400
1059-B	1,919,790	0	4,490	13.2	7.8	4252	8159769	3981	20014	0	0
1059	3,695,210	0	4,190	17.6	8.8	3704	13683818			0	0
1053-B	1,706,110	6,250	4,130	13.1	8.2	3800	6482980			1,706	10657250
1053-C	1,419,030	6,250	4,850	11.8	6.6	4640	6579148			1,419	8868938
1053-A	325,100	6,250	4,260	18.0	6.3	3758	1220738			325	2031250
1047	3,848,300	4,850	4,900	18.0	7.8	4508	17346153			3,848	17944135
1048	3,706,950	4,450	4,400	18.4	8.0	3883	14391164			3,706	16503219
1060	3,639,030	0	3,930	18.3	7.0	3772	13723537			0	0
1057	3,716,410	0	4,140	19.6	7.3	3755	14034493			0	0
1056-A	2,664,370	0	4,350	14.4	5.6	3846	10247198			0	0
1056-B	806,900	4,001	3,870	11.2	8.1	4486	3621819			807	3414806
1061-C	3,137,830	4,001	3,910	16.6	4.9	3404	10680020			3,138	12549125
1061-A	181,870	4,001	4,320	13.1	6.7	3754	682954	3588	20114	182	727512
1061-B	398,510	4,001	3,840	16.8	3.7	4021	1602312			399	1594718
1058	3,033,630	4,001	4,330	17.4	7.4	3872	11746428			[illegible]	[illegible]
1062	3,246,700	4,001	3,860	14.0	7.3	3764	12224799			[illegible]	[illegible]
1062-A	440,300	4,001	4,100	17.3	6.6	4139	2819603			[illegible]	[illegible]

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Date: 2024.[illegible]17.14:20:IST
Reason: Approved
Location: NTPC Limited

1060-B	2,750,300	5,650	4,300	16.4	0.9	3745	[illegible]			2,750	[illegible]
1061	3,454,950	0	4,260	19.9	8.2	3717	[illegible]	2727	7122	0	0
1062	3,566,810	0	3,960	12.7	7.7	3738	[illegible]			0	0
1063-B	250,560	4,001	4,040	13.0	8.2	3747	[illegible]	3865	12580	251	[illegible]
1064-A	3,214,970	4,601	4,290	17.2	8.2	3553	[illegible]			3,215	[illegible]
1066	444,030	4,001	3,709	11.7	6.5	3429	[illegible]			444	[illegible]
1066-A	2,971,310	4,001	4,220	16.9	8.1	3968	[illegible]			2,971	[illegible]
1065	3,516,930	4,201	3,860	16.0	6.8	3293	[illegible]			3,516	[illegible]
1067	3,409,840	4,301	3,910	16.8	8.5	3483	[illegible]			3,410	[illegible]
1068	3,783,910	0	3,320	7.8	3.1	4,161	[illegible]			0	0
1070	3,516,030	0	4,000	16.5	7.0	3672	[illegible]	3470	24344	0	0
1071-A	3,593,830	4,601	4,180	18.0	7.3	3699	[illegible]			3,594	[illegible]
1071-B	64,090	4,001	3,070	12.9	5.7	3400	[illegible]			65	[illegible]
1070-A	1,918,190	0	4,020	16.5	7.8	3541	[illegible]			0	0
1070-B	1,514,990	4,001	3,930	17.4	7.5	3509	[illegible]			1,515	[illegible]
1069	3,261,190	0	3,880	16.7	8.2	3259	[illegible]			0	0
1072-A	192,310	3,701	4,340	11.1	7.3	3874	[illegible]			192	[illegible]
1072-B	3,540,060	3,401	3,840	17.6	8.4	3345	[illegible]			3,540	[illegible]
1074-B	3,641,840	3,401	3,510	16.6	6.9	3193	[illegible]			3,642	[illegible]
1074-A	189,570	3,701	4,190	12.1	6.7	3913	[illegible]			190	[illegible]
1075	3,629,430	4,201	3,860	14.3	7.3	3552	[illegible]			3,629	[illegible]
1078-B	936,060	4,501	4,120	18.2	6.9	3815	[illegible]	3844	21443	936	[illegible]
1076-A	2,600,160	0	4,280	18.4	6.4	3731	[illegible]			0	0
1081	3,646,710	0	4,300	14.9	8.0	3893	[illegible]			0	0
1080	3,614,110	0	4,110	14.0	7.9	3835	[illegible]			0	0
1079	3,346,960	0	4,160	15.4	7.5	3835	[illegible]			0	0
1076-B	247,860	4,001	4,130	10.9	6.3	3927	[illegible]			248	[illegible]
1076-A	3,260,060	4,601	4,220	16.3	7.5	3727	[illegible]			3,360	[illegible]
1077	3,729,900	0	4,590	6.3	4.3	4627	[illegible]			0	0
1085	2,686,370	0	3,940	14.2	8.9	3619	[illegible]			0	0
1084-B	672,560	4,001	4,200	16.5	7.1	3608	[illegible]			673	[illegible]
1084-A	2,637,950	0	3,990	14.1	6.5	3583	[illegible]			0	0
1083-B	964,300	4,001	4,220	14.9	7.1	3869	[illegible]			964	[illegible]
1083-A	2,511,750	0	4,450	14.1	6.0	4067	[illegible]	4172	34291	0	0
1089-A	3,141,340	5,250	3,940	11.9	7.0	3330	[illegible]			3,141	[illegible]
1087-B	379,070	5,350	4,400	12.3	8.0	4103	[illegible]			379	[illegible]
1082-C	1,941,910	5,250	3,970	11.4	8.9	3123	[illegible]			1,942	[illegible]
1082-B	1,570,110	5,250	4,050	11.7	7.2	3373	[illegible]			1,570	[illegible]
1082-A	513,000	5,250	4,150	12.7	8.1	3882	[illegible]			514	[illegible]
1088	3,640,010	0	3,930	16.6	7.7	3405	[illegible]			0	0
1087	274,860	4,001	3,890	11.4	8.0	3614	[illegible]			275	[illegible]
1087-A	3,972,560	4,601	4,590	12.2	9.0	4424	[illegible]			3,973	[illegible]
1090	3,929,830	0	4,220	14.8	7.8	3893	[illegible]	3829	17521	0	0
1088-B	588,300	4,001	4,390	14.8	7.4	3793	[illegible]			589	[illegible]
1088-A	2,783,850	0	4,340	16.6	8.9	3798	[illegible]			0	0
1091	3,450,910	0	4,120	17.2	8.1	3374	[illegible]			0	0
1092	3,519,205	0	4,330	19.1	8.8	4011	[illegible]			0	0
1094-B	3,470,450	3,401	4,090	13.1	8.2	3780	[illegible]			3,470	[illegible]
1094-A	280,480	3,701	4,130	16.1	8.3	3854	[illegible]			280	[illegible]
1095	3,298,950	0	4,440	18.4	8.8	3873	[illegible]	3861	17502	0	0
1093-C	1,771,700	5,350	3,910	16.3	7.3	4343	[illegible]			1,772	[illegible]
1093-B	1,290,400	5,450	4,890	12.8	7.4	4398	[illegible]			1,290	[illegible]
1093-A	847,200	5,250	4,310	13.4	9.1	4207	[illegible]			847	[illegible]
1096	3,099,820	4,201	4,080	16.1	7.2	3,709	[illegible]			3,100	[illegible]
1099-B	960,280	4,001	4,170	17.0	4.0	3747	[illegible]			960	[illegible]
1099-A	2,590,590	0	3,940	16.6	8.5	3834	[illegible]			0	0
1098	3,112,870	0	4,410	17.0	4.0	3882	[illegible]			0	0
1097-B	1,395,380	5,350	4,960	19.4	7.9	4244	[illegible]	4109	14297	1,395	[illegible]
1097-A	800,180	5,250	4,120	16.0	7.4	4097	[illegible]			800	[illegible]
1097-C	1,269,650	5,250	3,770	16.3	7.7	3918	[illegible]			1,269	[illegible]
1100-A	3,049,900	5,251	4,390	19.1	7.5	4127	[illegible]			3,049	[illegible]
1100-B	861,850	5,401	4,130	17.0	7.5	3921	[illegible]			862	[illegible]
1104-A	248,980	3,701	4,130	10.9	8.1	3918	[illegible]			249	[illegible]
1104-B	3,260,860	3,401	4,990	14.8	8.1	4043	[illegible]			3,261	[illegible]
1107-B	239,090	4,001	3,810	13.0	6.8	3639	[illegible]			239	[illegible]
1107-A	2,211,790	4,601	4,220	14.9	7.7	3905	[illegible]			2,212	[illegible]
1109-B	242,890	4,001	3,140	11.8	8.1	4049	[illegible]			243	[illegible]
1109-A	3,290,880	4,601	4,910	19.7	9.0	4316	[illegible]	3869	28114	3,291	[illegible]
1106	3,463,110	4,351	4,930	21.8	8.3	3867	[illegible]			3,463	[illegible]
1101-B	894,760	4,001	4,030	19.9	7.8	4216	[illegible]			894	[illegible]
1101-A	2,637,680	0	4,390	18.1	7.4	[illegible]	[illegible]			0	0
1108	3,585,410	0	3,440	18.2	7.8	3814	[illegible]			0	0
1112	4,907,410	5,560	4,280	11.8	9.2	3993	[illegible]			4,908	[illegible]
1110	3,440,010	4,001	4,130	17.4	7.8	3862	[illegible]			3,440	[illegible]
1113-A	3,041,810	0	4,330	18.2	4.0	3868	[illegible]			0	0
1113-B	408,890	4,001	4,100	12.8	8.1	3835	[illegible]	3758	[illegible]	[illegible]	[illegible]
1109	3,573,910	0	4,260	17.8	4.0	3841	[illegible]			0	0

Quality Control Approved
PTUSA
Date: 2024-[illegible]-17 14:26:05T
Reason: ACK [illegible]
Location: NTPC Limited

1113	3,519,110	0	4,560	17.8	8.0	4125	14027101			0	0
1114-B	1,509,990	4,001	4,360	17.1	8.4	3963	5969670			1,508	6037706
1114-A	1,781,920	0	4,370	16.9	8.5	4017	6856867	3662	13709	0	0
1112	3,477,920	0	4,510	15.9	8.1	4087	14213916			0	0
1111-B	628,900	4,001	4,100	17.0	7.7	3741	2352017			629	2516229
1111-A	2,862,430	0	3,920	16.8	7.6	3573	10224947			0	0
1116	3,486,340	0	4,220	18.7	8.2	3768	13129921			0	0
1117-B	2,592,100	3,401	3,973	16.2	7.5	3488	12413361			3,340	12175920
1117-A	358,860	3,751	3,930	19.1	7.9	3429	980809			359	998041
1115	3,831,100	4,301	4,363	18.7	8.3	4327	16847147	2924	10170	3,831	16477347
1118	3,166,820	4,201	4,940	16.2	7.0	3640	12968049			3,337	13397885
1119	3,487,280	0	4,892	8.4	3.4	4362	15089328			0	0
1124	3,719,970	0	4,690	16.5	4.5	4198	15410850			0	0
1120	3,636,110	0	3,760	14.8	7.0	3445	12182544			0	0
1122	3,697,210	0	3,950	15.9	8.1	3616	13271789			0	0
1125-A	2,791,340	0	4,400	19.2	8.7	3894	10860243			0	0
1125-B	520,200	4,001	4,570	16.2	8.0	4108	2683863	3738	21862	808	2491400
1121-B	1,261,900	4,001	4,060	17.6	8.3	3645	4603719			1,262	5048852
1121-A	2,228,140	0	3,850	15.8	7.4	3501	7798672			0	0
1123-A	2,007,930	6,101	4,000	10.6	7.8	3873	7867835			2,007	13425735
1123-B	254,120	6,101	4,362	12.3	8.3	4044	1082396			254	1611386
1123-C	1,666,910	6,101	3,560	12.2	6.1	3422	5417360			1,669	9890030
1127	3,490,710	0	4,330	16.6	8.9	3930	13703379			0	0
1129-A	61,870	9,992	9,210	9.4	3.6	3011	330087	3862	12745	99	401637
1129-B	5,595,140	6,250	4,440	10.5	6.4	4341	5494835			3,559	22255135
1128	3,685,220	4,301	3,590	12.3	8.0	3343	12274284			3,685	15394117
1131	3,600,310	0	4,180	16.7	8.7	3950	13903181			0	0
1136-B	892,560	4,001	4,330	16.3	7.8	3922	2715862			861	2775865
1136-A	3,220,900	0	4,440	16.3	8.7	4061	13096528			0	0
1136-A	2,699,700	0	4,390	16.3	8.1	4081	11752615			0	0
1136-B	1,904,700	4,001	4,000	14.8	6.4	3735	8792291			1,905	4803809
1134	3,562,830	0	4,310	16.9	8.2	3902	13901167			0	0
1129	3,459,920	0	3,370	15.8	6.7	3081	10460838			0	0
1133-B	3,574,190	3,401	4,620	16.5	6.1	4249	14033473	3860	28535	3,574	11477186
1133-A	288,660	3,701	4,480	16.2	7.1	4234	1084798			289	993317
1132-D	1,000,880	6,250	3,770	9.5	8.0	3467	8049473			1,000	6812262
1132-A	1,506,930	6,550	4,170	10.6	6.4	3860	3987847			1,506	9461167
1132-C	784,500	6,550	3,630	9.8	8.3	3335	4087275			785	5607475
1132-B	447,500	6,550	3,110	8.8	4.8	4900	2143040			448	2831200
1130-C	1,586,360	6,650	2,940	16.3	4.8	2332	4641115			1,586	7131292
1130-D	600,080	6,650	3,930	16.0	6.1	3534	3128829			599	3414917
1130-A	895,420	6,350	4,020	14.9	7.0	3679	3183441			895	3883504
1137-B	1,326,530	9,350	4,380	11.9	8.0	4253	3884173			1,327	4796815
1137-C	2,084,190	6,350	3,540	14.8	9.3	3037	6159777			2,084	13009329
1137-A	527,860	9,350	3,160	17.7	9.8	3022	1596874	4420	7798	528	5334051
1139-B	1,667,160	6,250	4,800	10.0	5.8	4549	7127658			1,668	9761475
1139-A	2,504,310	6,250	4,490	14.3	6.4	4079	8977868			2,504	14401158
1139	3,307,570	0	4,660	20.2	8.1	3872	12722587			0	0
1140	3,642,310	4,001	4,260	12.7	6.0	3294	12001589			3,642	15720340
1140-B	870,260	4,001	4,490	19.8	8.9	3605	3240977			871	3961117
1140-A	2,618,410	0	4,660	17.3	8.0	4053	11423634			0	0
1143	3,717,430	0	4,630	18.0	8.7	4240	13012221			0	0
1144	3,408,810	0	4,140	16.1	8.1	3786	12901153			0	0
1147	3,599,200	4,401	3,590	14.8	3.9	3207	12119968			3,600	15721363
1142	3,933,460	4,001	3,930	16.1	6.4	3608	13703194			3,933	17137653
1149	3,498,110	4,001	3,630	14.6	6.5	3375	11789797			3,498	15288438
1148	3,151,140	0	4,390	19.2	9.4	3872	12120233			0	0
1150-A	2,588,260	6,250	3,943	13.6	5.4	3535	9153865			2,588	14612123
1150-B	1,402,400	6,250	3,960	16.0	6.8	3614	5070943	3917	23408	1,402	8767300
1146	3,296,270	4,301	3,250	16.1	7.1	3465	11418813			3,296	14172904
1151	3,580,410	4,301	3,740	7.1	7.0	3154	11344198			3,580	15131141
1147	3,672,310	4,301	3,410	16.7	6.6	3331	12212838			3,673	15734275
1160	3,485,110	0	3,980	17.1	8.2	3518	12368378			0	0
1159	3,508,350	0	4,300	16.2	7.5	3896	13606008			0	0
1160-D	369,949	6,250	3,290	10.1	3.5	3024	1848218			281	2369713
1160-B	1,484,640	6,250	3,940	14.2	5.4	3211	4675808			1,484	9441108
1158-C	882,330	6,250	3,290	10.8	6.3	4361	4801185			882	4173888
1160-A	843,980	6,250	3,970	10.9	5.0	3867	3241872			844	3271408
1158-B	3,465,990	3,401	3,960	17.3	7.2	3478	12[illegible]			3,462	17[illegible]
1158-A	262,980	3,701	4,410	12.5	6.1	4217	[illegible]			263	[illegible]
1154	2,441,070	0	4,270	15.4	7.2	3938	[illegible]			0	0
1155	3,391,820	4,301	4,120	16.1	7.8	3863	[illegible]			[illegible]	[illegible]
1157	3,413,910	0	4,280	16.3	7.4	3962	[illegible]			0	0
1162-C	1,501,630	6,250	4,030	11.9	4.9	3864	[illegible]			1,502	[illegible]
1162-B	1,931,730	4,350	4,310	13.3	4.2	3435	[illegible]			[illegible]	[illegible]
1161-A	1,048,190	6,250	4,280	11.2	5.9	4044	[illegible]	3767		[illegible]	[illegible]
1163-A	1,591,420	6,250	4,230	14.8	4.2	3618	[illegible]			[illegible]	[illegible]

Reviewed [illegible]
Date: 2026[illegible]7 14:39:07
Reason: Acceptable
Location: NYC, United

1159-C	1,506,060	6,250	4,070	16.1	7.3	3954	3647776			1,506	3412875
1159-B	661,700	6,250	4,110	14.1	6.2	3794	2452960			662	1871125
1158	3,571,340	4,001	3,970	16.6	5.4	3159	11374994			3,571	15552003
1161-A	2,629,390	0	4,350	19.7	8.1	3801	9999060			0	0
1161-B	850,459	4,001	3,890	18.2	7.8	3578	3183285			850	3650689
1163	3,284,790	0	4,190	17.1	6.4	3783	12428191			0	0
1164	3,542,910	0	4,100	14.9	7.2	3931	13924752	3820	14177	0	0
1166-A	997,999	6,250	4,030	13.6	9.0	3928	3775940			998	3912503
1165-B	1,301,400	6,250	4,670	14.3	8.3	4314	5609307			1,301	4934780
1165-C	1,520,530	6,250	3,930	14.3	8.0	3618	5560169			1,521	5503313
1166	3,286,300	0	4,210	14.9	6.2	3832	12879447			0	0
1167-A	2,508,530	0	4,310	12.9	8.1	4054	12043183			0	0
1167-B	1,306,110	8,001	4,080	18.0	6.2	3927	4743965			1,306	5131146
1169	3,977,980	4,001	4,610	14.0	8.2	4356	17399209	3880	19542	3,978	15315179
1169-B	3,416,100	3,401	3,940	17.3	7.0	3413	11661573			3,416	11814716
1168-A	480,900	3,701	4,180	14.7	7.0	3863	1756557			480	1667286
1170-A	2,635,400	5,601	3,910	8.5	8.0	3846	10249825			2,635	14,350,679
1170-B	978,110	6,250	3,830	8.8	7.1	3751	3641600			978	4100888
1173-B	620,600	4,001	3,930	19.0	6.1	3408	2151987			621	3483821
1173-A	2,907,320	0	4,120	17.8	8.8	3723	11345714			0	0
1176	3,480,120	0	4,040	18.3	6.7	3668	12753722			0	0
1177	3,624,316	0	3,960	17.1	7.5	3640	12903253			0	0
1174	4,099,000	3,401	4,150	18.2	8.0	3590	15097468			4,099	13000008
1175	3,590,890	0	4,190	16.2	7.9	3809	13738659	3654	22540	0	0
1171-A	2,521,690	0	4,300	13.1	8.7	4044	12197414			0	0
1171-B	982,550	4,001	4,090	19.7	8.1	3874	3425980			983	3851163
1172-C	1,466,030	6,250	4,030	13.5	8.1	3802	5573360			1,466	5165000
1172-B	1,059,020	6,250	3,920	16.9	7.2	3634	3742070			1,059	5015875
1172-A	1,628,010	6,250	4,130	17.3	6.6	3897	6846251			1,628	6500061
1179	3,590,290	4,001	3,679	16.1	8.9	3572	11742977			3,590	15441968
1184	3,966,130	0	4,050	16.9	6.3	3836	13353026			0	0
1183	3,688,710	0	4,310	14.3	7.2	3983	14707719			0	0
1179	3,972,930	0	4,010	18.3	7.3	3654	12528967			0	0
1182	3,420,930	4,001	3,880	13.6	7.0	3707	12690744			3,421	13139631
1189-A	1,903,790	0	4,190	16.0	7.1	3985	6938485			0	0
1187-B	1,598,850	4,001	4,550	13.9	8.1	4289	6967430	3829	28158	1,599	4198800
1191-C	1,343,210	6,250	3,470	11.2	8.8	3155	4445894			1,343	4295243
1191-B	1,431,400	6,250	4,250	17.1	6.2	3747	5363741			1,431	5660083
1191-A	1,908,940	6,250	4,490	16.7	7.9	4091	7808560			1,909	5062175
1188	3,587,420	4,001	2,880	22.7	8.1	2349	8345149			3,588	15311524
1190	4,087,000	4,001	4,020	12.7	6.2	3770	15211741			4,087	17119197
1197	3,609,400	0	4,530	14.2	7.8	4202	15163428			0	0
1198-B	1,364,930	6,250	4,860	13.6	8.5	4513	6160182			1,365	6629155
1198-C	1,234,290	6,250	4,870	11.8	7.5	4445	5483823	3852	19108	1,234	7713275
1198-A	1,298,900	6,250	4,920	15.4	8.8	4445	5775471			1,299	8110128
1196	3,793,470	4,001	3,740	23.4	9.4	3141	11923173			3,793	15214490
1199	3,902,400	4,420	3,710	14.8	4.9	2434	9499628			3,902	17264492
	8,00,573,700						2,24,98,81,321		4,05,573.70	3,28,961	1,69,46,11,073

* Since the financial settlement for washed coal is on Ash content basis, hence its as fired GCV value is not available and is taken as zero for calculation of as fired GCV.

MONTHLY GCV

Month Sl no		EQ BASIS	ADB BASIS
1	GCV BANKING COAL AS BILLED	4829	-
2	GCV BROKERED COAL AS BILLED	-	-
3	Weighted GCV AS BILLED	4829	

Document verified by PARIMAL PITLISH
Digitally signed by PARIMAL PITLISH
Date: 2024 17:14:29 IST
Reason: AGM Commercial
Location: NTPC Limited

GCV CALCULATION SHEET FOR OCTOBER'2018

DADRI-COAL
Oct-18

AS RECEIVED GCV (DOMESTIC COAL)

OP. STOCK	142254	MT
OP. GCV	3781	kcal/kg
OP. HEAT VALUE	537918821	

	Receipt Qty (MT)	DAY's Receipt GCV (kcal/kg)	Days Wtd Avg. GCV (kcal/kg)	FORM-15 Sl No. 21 FORM -15 GCV AS RECEIVED
1-Oct-18	24971	3767	3772	93819467
2-Oct-18	24631	3804	3795	95159476
3-Oct-18	16009	3790	3794	60750799
4-Oct-18	15246	4053	3878	71093728
5-Oct-18	29014	3981	3904	115437064
6-Oct-18	25139	3590	3850	90295712
7-Oct-18	7132	3727	3844	26543788
8-Oct-18	17690	3803	3846	67943448
9-Oct-18	24944	3470	3782	86551228
10-Oct-18	21443	3644	3806	78085984
11-Oct-18	16061	4172	3854	75345285
12-Oct-18	17621	3829	3851	67479445
13-Oct-18	17802	4001	3871	71424942
14-Oct-18	14207	4109	3897	58706172
15-Oct-18	28114	3959	3904	111311745
16-Oct-18	7228	3760	3902	27194433
17-Oct-18	17799	3052	3906	54331199
18-Oct-18	16170	3924	3909	71383594
19-Oct-18	21602	3736	3910	81399968
20-Oct-18	10749	3849	3911	41369538
21-Oct-18	29905	3892	3913	116432789
22-Oct-18	7795	4475	3919	34875852
23-Oct-18	24805	3779	3923	[illegible]
24-Oct-18	29068	3817	3919	111492238
25-Oct-18	17812	3710	3907	66071013
26-Oct-18	15079	3747	3903	56514853
27-Oct-18	14177	3820	3897	54153851
28-Oct-18	16542	3862	3893	63845077
29-Oct-18	29049	3854	3877	111945799
30-Oct-18	28134	3988	3878	112209919
31-Oct-18	13161	3962	3887	52164399
TOTAL	600872.760			2295087321
AS RECEIVED GCV (DOMESTIC COAL)				3821

*This represents GCV as on closing of the concerned month which bears a opening for next month.

AS RECEIVED GCV (DOMESTIC COAL EXCLUSIVE OF OPENING STOCK)	3829

Document verified by PARWAN
Digitally signed by PARWAN
Date: 2024 IST 14:29 IST
Reason: AGM (Commercial)
Location: NTPC Limited

GCV CALCULATION SHEET FOR NOVEMBER'2018

R.R.No.	RR Qty	As Billed * GCV	AS PER CIMFR REPORT: As Received CIMFR (EQ Basis) GCV	TM	EQM	As Received CIMFR (TM Basis) GCV	HEAT VALUE As Received	DOMESTIC COAL DAYWISE: GCV (Kcal/Kg)	DOMESTIC COAL DAYWISE: QTY (MT)	AS MILLED: QTY. (MT)	AS MILLED: HEAT VALUE
1191	3,551,840	3,950	3,870	9.3	8.4	3518	12496303			2,552	21121993
1194	3,527,230	0	3,470	14.2	7.2	3039	11094555			0	0
1195	3,586,230	0	3,360	14.8	7.4	3102	11123833	3088	18085	0	0
1192	3,654,820	4,301	3,460	14.4	4.5	3301	11349659			3,655	15140028
1193	3,980,400	4,450	3,300	12.5	5.1	2748	10933297			3,980	17622750
1197-A	1,676,230	0	3,820	16.4	7.5	3467	5812206			0	0
1197-B	1,161,000	4,001	4,090	16.5	8.4	3899	4524915			1,161	4645161
1198-B	801,750	4,001	4,230	11.7	6.5	3895	3122674			802	3207202
1198-A	2,117,860	0	4,030	10.7	8.4	3727	7891484			0	0
1199-A	2,046,606	0	3,210	10.1	7.0	3103	6350606			0	0
1199-B	1,799,200	4,001	4,080	13.9	6.8	3801	6838813			1,799	7196396
1200-A	2,408,180	0	3,760	15.2	7.8	3418	8230269			0	0
1200-B	896,650	4,001	3,910	14.7	7.7	3576	3184046	3688	31381	897	3587407
1194-C	1,224,600	6,350	4,780	14.8	7.2	4303	5267303			1,224	7350000
1194-B	1,342,200	6,250	4,690	14.8	7.6	4260	5718088			1,342	8052750
1195-A	1,273,480	6,250	4,300	12.7	7.5	4058	5168631			1,273	7640250
1201-B	1,736,710	5,450	4,330	13.4	4.1	3910	6789688			1,737	9512412
1201-A	1,227,380	5,450	3,320	10.3	5.6	3447	4230758			1,227	6134594
1201-C	442,400	6,250	3,270	14.2	4.2	2979	1317641			442	2652000
1201-D	451,200	5,950	3,560	13.9	4.5	3211	1449799			451	2706000
1203-B	651,300	4,001	3,330	13.2	6.6	3002	1954096			651	3123881
1202-A	3,930,100	0	4,310	16.5	6.5	3980	15634709			0	0
1203	3,403,540	0	4,180	17.1	7.3	3736	12717540			0	0
1208	3,404,330	0	4,230	20.4	6.5	3861	13134365			0	0
1206	3,431,970	0	4,090	17.6	7.8	3809	13297440	3835	25289	0	0
1207	4,014,200	0	3,990	19.3	6.5	3602	14462610			0	0
1246-B	2,140,100	5,350	4,210	14.2	6.3	3990	8539658			2,140	11440535
1246-A	1,312,650	5,350	3,240	8.2	9.3	3076	4038444			1,313	7125678
1204	3,434,580	4,450	4,320	19.0	8.7	4041	13878118			3,435	15828681
1205	3,641,010	0	3,920	10.7	6.0	3278	11934701			0	0
1210	3,797,800	0	4,130	11.1	7.3	3861	15241861			0	0
1212-B	1,165,000	4,001	4,320	17.1	6.7	3838	4544871			1,165	4661180
1212-A	2,924,670	0	4,050	18.1	6.4	3953	11558486	3612	25294	0	0
1213	3,915,100	0	3,960	17.5	6.8	3494	13674600			0	0
1214	3,941,900	0	3,910	14.5	7.1	3599	14182112			0	0
1209	3,927,400	4,400	3,900	16.7	8.5	3516	13804121			3,927	17031400
1211	3,362,640	4,600	4,520	21.2	6.1	3763	12653614			3,363	15120000
1218	3,504,800	5,200	3,390	11.7	5.3	3130	11238608			3,505	22691200
1217-A	1,981,000	0	4,240	14.5	7.4	3710	7350401			0	0
1217-B	1,329,800	4,001	4,090	15.4	7.8	3775	5018600			1,330	5320532
1219	3,382,750	4,401	4,190	17.3	8.3	3719	12581027			3,384	15275436
1239	3,649,860	4,601	3,950	16.5	8.3	3672	13401042			3,644	16760708
1220	3,440,510	0	4,360	16.0	9.5	3868	13304710	3707	34742	0	0
1221	3,709,070	0	4,080	15.5	7.5	3716	13785027			0	0
1215-B	1,880,500	3,801	4,020	31.0	5.7	4043	7600261			1,881	7600261
1215-A	328,400	5,601	3,320	12.8	5.0	3200	1051520			328	1641504
1216-C	890,300	6,950	3,740	12.4	3.6	3471	3089131			890	4451500
1216-D	1,087,500	6,250	4,260	19.4	7.0	3707	4031475			1,088	5437500
1193	3,833,410	0	4,140	14.2	7.5	4331	16601397			0	0
1228	3,233,740	0	4,170	18.0	8.4	3924	12691526			0	0
1226	3,081,630	0	3,790	16.3	7.1	3093	9532107			0	0
1230	3,610,500	0	4,390	8.4	3.8	4507	16272147			0	0
1224-B	2,192,900	6,250	4,310	12.0	5.3	4184	9174602			2,193	13155000
1224-A	964,350	6,350	4,370	13.2	5.7	4170	4022436			964	6112500
1224-C	996,350	6,350	4,160	14.5	7.4	3767	3754844			997	6325000
1223-A	2,465,230	5,350	4,120	11.9	6.4	3126	9746922	3888	32939	2,465	13190000
1225-B	1,608,350	6,650	3,960	7.9	5.3	3801	6114167			1,608	8034163
1225-A	2,192,600	5,650	4,460	13.6	5.5	3979	8721366			2,193	12188000
1229-A	1,129,420	5,550	4,160	9.7	5.1	3917	4425934			1,130	6272700
1229-C	128,420	6,250	3,900	13.5	4.7	3544	455481			128	712500
1232	3,947,600	4,001	4,440	13.4	7.1	4017	15851663			3,948	14498000
1231	3,583,400	4,301	4,310	14.4	6.5	4221	15126174			3,584	15410000
1237	1,007,800	4,301	4,320	13.1	6.2	3848	3878014			1,008	4400000
1233	3,911,230	0	4,130	13.1	6.6	3994	15621411	3962	7192	0	0
1231	2,773,350	4,350	4,340	8.3	5.6	3836	10639175				
12.0.0	2,419,750	5,000	4,300	8.9	5.8	4145	10031174				
1234-B	3,313,890	0	4,340	4.9	5.2	4412	14620015				
1236	3,987,370	0	4,400	10.8	7.5	4239	16901002				

Date: 2024 17:14:30 IST
Reason: A
Location: NTPC Lara

1236	3,157,070	0	3,820	18.9	5.2	3383	10615498			0	0	
1237	3,820,100	0	4,610	14.2	4.9	4134	15869865			0	0	
1238-B	1,162,300	4,001	4,290	16.8	8.7	2809	4543923			1,162	4650362	
1239-A	2,210,010	0	4,920	16.5	6.8	3871	5535720			0	0	
1242	3,439,910	0	4,100	15.9	8.0	3748	12892356	3857	35653	0	0	
1243-C	579,130	0	5,070	12.9	2.8	4549	2634732			0	0	
1248-A	690,770	0	4,160	13.2	4.6	3772	3248773			0	0	
1243-B	2,075,970	5,050	4,810	10.6	1.1	4503	9042835			2,076	10453589	
1246-C	1,512,699	5,053	2,740	6.4	3.6	3530	5555651			1,516	8020356	
1249-B	1,252,190	5,050	2,990	9.1	2.3	3833	4789357			1,252	5327195	
1246-A	1,225,300	5,350	4,330	7.1	1.9	4087	5004429			1,226	5556429	
1238	3,513,820	4,650	4,160	21.5	4.2	3409	11985251			3,520	15387453	
1241	4,099,600	4,301	3,100	31.7	8.8	2908	11912176			4,109	17522380	
1245	3,330,740	0	4,460	15.1	6.4	4054	13492550			0	0	
1247	3,261,420	0	4,430	17.2	8.8	4031	13147733			0	0	
1248	3,750,790	0	4,660	14.5	6.5	4059	15400232			0	0	
1249	3,204,400	0	5,050	17.0	4.3	4358	13968875	4321	17381	0	0	
1244-C	1,626,400	6,250	4,830	15.5	7.5	4412	8048512			1,626	13415506	
1244-A	778,890	6,550	4,770	13.6	5.7	4380	3460039			780	5106390	
1244-B	1,237,240	6,250	4,520	13.8	4.8	4099	5243943			1,237	7801376	
1250	3,653,300	3,401	4,120	14.2	7.2	3809	14667889			3,533	13933560	
1251	3,844,610	0	4,470	13.8	4.8	4047	15841345			0	0	
1253-B	1,362,419	0	4,470	5.49	5.28	4481	6077125			0	0	
1253-A	1,926,490	6,050	3,640	9.5	2.3	3511	6734214	4092	14640	1,927	9625347	
1252-B	1,035,200	6,250	5,120	13.5	6.3	4750	4571986			1,035	6407300	
1252-C	1,301,300	6,250	4,380	10.3	6.5	4219	5496134			1,301	8133135	
1252-A	1,565,100	6,250	5,190	12.7	7.3	4872	6653324			1,566	8326425	
1255-A	1,380,880	6,050	5,080	8.1	1.3	4832	6722251			1,381	7028944	
1256-B	2,061,930	0	4,690	4.6	1.1	4524	9376271			0	0	
1258-A	1,635,350	5,701	3,790	14.7	9.3	3447	5636328			1,436	8355430	
1258-B	2,283,199	3,401	3,910	14.9	8.2	3310	7401321			2,283	7555987	
1259	3,649,210	0	4,750	12.4	4.3	4199	15663522			0	0	
1260-A	1,917,810	3,701	4,290	11.1	4.2	3764	7352598	3878	28606	1,918	7097229	
1260-B	1,910,400	3,401	4,010	14.8	8.9	3628	6931113			1,910	8867210	
1261-A	1,770,830	6,250	5,420	9.3	5.9	5186	9201375			1,771	9195158	
1261-B	1,664,120	5,050	7,520	9.2	4.3	5130	8375826			1,664	9521704	
1254	4,010,030	4,901	2,730	15.3	6.2	2442	9743032			4,013	17347032	
1255	3,360,200	4,301	4,200	13.4	8.9	3694	13836354			3,358	14024618	
1257	3,126,480	4,301	3,440	15.2	5.2	3892	9042517			3,128	13448504	
1263	3,663,620	0	3,940	13.6	5.8	3518	13940586			0	0	
1264	3,454,120	0	3,970	12.6	6.3	3584	12750843			0	0	
1266	3,417,430	0	4,680	15.9	1.9	4112	14030486			0	0	
1267	3,669,340	0	4,360	5.1	1.9	4325	15745369			0	0	
1262-B	3,073,900	4,250	3,720	16.9	5.4	4641	9824158	3871	28646	3,074	12981178	
1262-A	1,270,000	4,250	3,160	12.7	4.0	4820	5021952			1,270	8891120	
1262-C	546,500	6,150	3,980	17.8	3.1	4471	2432463			547	3913025	
1265	3,662,800	4,801	4,960	11.8	6.9	3779	14304738			3,663	20000042	
1269	3,448,010	4,301	4,210	27.1	8.1	3634	17881103			3,448	19868651	
1270	3,411,730	0	4,480	18.0	4.4	3939	15104832			0	0	
1271	3,632,310	0	4,320	15.4	9.1	3918	12849578			0	0	
1273-B	870,750	4,001	4510	18.2	6.4	3767	3313108			870	5519661	
1272-A	2,408,290	0	4020	12.8	8.7	3770	9322031			0	0	
1274	3,081,490	0	4,940	17.7	4.4	3485	10738178			0	0	
1268-B	1,363,230	5,350	4,010	4.8	1.5	3465	5110154			1,363	10000227	
1268-A	1,652,960	5,953	4,770	3.6	1.3	4858	7933021	3798	24379	1,653	9431752	
1276-B	2,371,400	5,250	4,290	13.8	4.8	3875	9185208			2,371	14812200	
1275-A	1,486,590	6,150	4,400	20.8	5.7	3783	5728363			1,487	8251126	
1273-C	1,108,460	5,202	3370	9.1	3	3442	3881088			1,108	5020980	
1273-B	890,340	0	4310	12	2.6	3602	2238914			0	0	
1275-A	1,628,400	0	4210	11.5	4.3	3886	5942127			0	0	
1275-C	537,680	0	3840	8	1.8	3859	2065497			0	0	
1277-B	920,850	4,001	4,360	11.9	6.6	3941	3135098			921	3687321	
1277-A	2,904,940	0	4,190	18.2	3.9	3882	10339970			0	0	
1280	3,428,310	4,601	4,980	22.4	5.5	3731	12794489			3,428	12746578	
1278-B	1,300,990	6,050	4,690	12.6	6.1	4630	6465394	4321	18868	1,301	7143333	
1279-A	1,792,610	6,250	3,830	14.1	7.5	3346	6341541			1,793	11028813	
1279-B	797,860	6,553	3,640	13.4	7.3	4084	3720478			798	5234473	
1279	3,881,490	4,750	4,960	10.1	4.2	4281	11728415			3,881	13415115	
1278	2,836,300	4,150	4,790	7.9	4.3	4405	10833342			2,837	16113475	
1281	3,232,940	4,601	5,250	8.4	9.1	4113	13234545			3,233	14179417	
1283-B	1,447,650	4,301	4,310	4.4	1.3	4128	5745328			1,447	7001247	
1283-A	1,870,800	0	4,520	12.3	5.6	4566	8511196			0	0	
1284	3,495,410	4,601	4,010	10.5	0.0	4277	14931588			3,495	16036377	
1286	3,960,450	0	4,290	8.4	7.4	4614	17291104			0	0	
1285-B	1,084,000	5,150	4,300	11.7	1.8	3887	5175788	4003	[illegible]	[illegible]	[illegible]	
1285-C	1,315,940	4,250	4,260	11.1	0.9	4110	5605[illegible]					

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Location: NTPC Limited

1285-A	994,540	6,252	4,480	14.1	5.4	4998	4645795			995	5215675
1286	3,752,000	4,750	5,280	9.5	3.3	4917	18454177			3,753	17605175
1287	3,646,810	4,301	2,590	15.2	7.1	3277	12500885			2,647	15655124
1288	3,435,010	0	4,380	15.3	5.3	3917	15458609			0	0
1289-B	1,746,440	0	4,710	3.8	1.4	4605	8051407			0	0
1289-A	1,891,200	5,030	4,410	3.8	1.3	4298	8132941			1,891	9557580
1290-A	2,663,000	0	4,480	13.1	3.4	4012	11868610			0	0
1290-B	1,076,900	4,003	5,240	13.2	6.9	4990	5311449			1,077	4108627
1294	3,993,480	0	4,910	16.7	4.2	3804	13806398	4008	30128	0	0
1295	3,992,200	0	4,370	15.1	8.4	3958	15769659			0	0
1296-B	2,375,800	6,750	4,400	12.3	5.8	4745	9847798			2,376	14846752
1296-C	1,035,450	6,252	5,070	11.6	6.5	4783	4034289			1,035	5428792
1296-A	541,400	6,250	5,000	10.9	6.2	4749	2517041			541	3387458
1299	3,661,190	4,652	4,470	19.2	2.1	3689	13241740			3,662	17541124
1291	3,908,200	4,601	4,110	13.8	5.8	3765	14714189			3,908	17961529
1298	3,927,000	6,250	4,660	9.3	5.3	4987	17159147			3,927	24549750
1297-A	2,030,360	0	4,260	11.6	6.3	4010	11375539			0	0
1297-B	636,800	4,031	4,160	17.1	7.4	3742	2382594			637	2947937
1298	3,480,420	4,901	4,800	19.6	9.7	4437	15443438	4271	14784	3,480	26513472
1296-A	1,584,690	6,252	5090	12.4	1.5	4527	7173074			1,585	9623799
1296-B	1,682,430	6,252	4350	10.7	5.3	4085	6787798			1,682	10396198
1296-C	862,280	6,252	4590	12.3	9.9	4276	3837748			862	5734250
1300	3,490,830	0	4,090	10.2	6.3	2858	12799934			0	0
1301	3,884,590	0	4,960	10.5	2.3	4226	16289463			0	0
1302	3,607,510	0	4,590	19.6	3.0	3985	14436503			0	0
1303-A	2,837,130	0	4,210	17.5	7.1	3739	10607177			0	0
1303-B	565,290	4,031	4,510	16.2	4.1	3941	2531551	3812	29288	565	2661525
1304	3,662,810	4,601	4,490	19.2	8.1	3985	14726502			3,663	19980312
1305	3,627,140	0	4,820	15.4	4.1	4252	15432796			0	0
1306	3,640,810	3,050	3,620	11.0	6.3	2839	10333442			3,641	21602800
1307-B	869,558	4,001	4,970	19.1	4.7	3658	3177527			867	3667167
1307-A	3,890,960	0	4,260	19.1	4.8	3758	14616409			0	0
1308-C	733,360	5,252	4910	9	2.8	4320	3165143			733	3752189
1308-B	1,000,000	0	4260	10.9	0	3817	3417539			0	0
1308-A	1,232,190	0	3920	5.3	5	3608	4828002			0	0
1310	3,949,690	0	4,910	16.2	7.7	3484	13201722			0	0
1311	3,238,870	0	4,060	17.4	7.6	3036	11444601			0	0
1309-C	1,679,930	5,753	2,720	8.6	3.8	2989	5018714			1,680	8986021
1309-A	772,530	5,402	2,250	5.4	6.1	2012	2521942	2642	19971	773	4418026
1309-B	1,538,960	5,953	3,000	8.8	2.4	2659	3919549			1,539	7969812
1312-B	2,946,190	6,252	4,340	12.3	6.6	3723	7764246			2,947	12918173
1312-A	1,770,500	6,252	4,020	15.3	5.3	3693	5931841			1,771	11000428
1313-A	675,500	6,252	4,770	14.0	4.7	4387	3849357			676	5417475
1313-B	2,450,100	6,252	2,990	14.3	8.4	3871	5947703			2,451	10128475
1313-C	919,000	6,252	4,470	12.4	5.4	4146	1811395			919	2710595
1315	3,843,100	0	2,990	5.6	2.3	4641	13996109			0	0
1316	3,909,500	0	4,210	16.8	6.6	3797	16084423			0	0
1318	3,987,070	0	4,740	19.9	3.1	4148	14849870			0	0
1316-B	1,003,200	4,031	4,050	19.1	7.1	3747	3756617			1,003	4275503
1319-A	2,793,900	0	4,070	15.7	5.4	3932	10741259			0	0
1320	3,407,720	0	4,190	17.3	4.7	3879	13866[illegible]	3871	29381	0	0
1321-A	2,032,110	0	4,230	19.8	6.3	3840	8455[illegible]			0	0
1321-B	1,214,000	4,031	4,320	18.2	1.3	3608	4622829			1,214	4857714
1314	3,464,210	4,301	4,000	16.3	6.2	3087	13198173			3,464	16746157
1317	3,534,610	4,321	2,860	16.3	5.0	3640	13431729			3,535	16965339
1322-B	1,193,100	4,001	4,140	19.8	6.1	3714	4769[illegible]			1,193	4713383
1322-A	2,526,310	0	4,230	21.5	6.5	3691	9[illegible]			0	0
1323	3,651,440	4,601	4,270	19.3	7.2	3703	14277386			3,651	19982275
1324	3,968,340	0	4,440	14.7	6.1	4010	13[illegible]4264	3949	34017	0	0
1325-C	905,490	6,252	4,990	14.4	7.2	4592	4[illegible]			906	3[illegible]413
1325-B	1,860,390	6,252	4,790	16.3	6.1	4317	8[illegible]			1,860	[illegible]
1325-A	1,321,680	6,252	4,100	15.4	7.3	3949	5[illegible]			1,322	5[illegible]
1327	3,607,910	0	4,340	14.4	7.4	4012	14[illegible]			0	0
1328	3,939,490	0	4,905	14.4	6.5	4115	1[illegible]			0	0
1329	3,880,130	6,901	5,110	11.8	5.4	4606	1[illegible]			3,880	[illegible]
1330-B	871,950	4,031	4,140	16.2	4.3	3999	[illegible]			872	[illegible]
1330-A	2,932,170	0	4,100	16.3	6.3	3939	[illegible]			0	0
1331-B	1,342,490	4,001	3,880	13.4	1.5	3942	[illegible]			1,342	5174943
1331-A	2,720,800	0	4,110	12.1	6.1	3847	[illegible]			0	0
1332	3,512,300	0	4,490	16.8	6.2	3586	[illegible]			0	0
1334	3,341,840	0	4,490	14.4	6.6	3112	[illegible]			0	0
1333-C	1,028,000	6,502	3,890	12.8	6.5	3279	[illegible]			1,028	[illegible]
1333-B	1,126,100	6,501	4,310	16.2	5.5	3740	[illegible]			1,126	[illegible]
1333-A	1,285,800	6,501	4,120	16.3	6.4	3712	[illegible]			1,286	[illegible]
1336	3,514,820	4,301	3,910	16.8	7.7	3941	[illegible]			[illegible]	[illegible]
1335-B	925,200	4,001	2,840	13.8	7.8	3328	[illegible]			[illegible]	[illegible]

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1336-A	3,581,730	0	3,740	14.0	7.0	5458	[illegible]			0	0
1337	2,590,110	0	3,290	15.2	4.2	2947	[illegible]			0	0
1338	3,359,940	4,601	4,080	18.5	7.5	3898	[illegible]	3717	14591	3,353	[illegible]
1335-A	1,341,500	6,250	4,970	13.1	6.9	4839	[illegible]			1,342	[illegible]
1335-B	1,220,300	6,250	5,260	12.1	6.1	4757	[illegible]			1,220	[illegible]
1335-C	1,337,390	6,250	5,290	13.8	7.2	4891	[illegible]			1,332	[illegible]
1340	3,408,180	0	3,690	12.7	5.8	3498	[illegible]			0	0
1341-A	1,693,900	5,250	4,050	14.5	6.3	3695	[illegible]	3474	5734	1,694	[illegible]
1340-B	1,637,400	6,250	3,860	15.9	6.7	3280	[illegible]			1,632	[illegible]
1342-A	2,773,180	0	3,880	13.6	7.2	3409	[illegible]			0	0
1342-B	934,400	4,601	3,950	19.2	7.4	3417	[illegible]			934	[illegible]
1343	3,299,340	4,601	4,500	19.5	6.8	4378	[illegible]			3,299	[illegible]
1345	3,589,080	0	3,960	15.5	7.3	3697	[illegible]			0	0
1346-B	2,456,670	0	4,240	4.9	2.1	4123	[illegible]	3642	21420	0	0
1346-A	948,740	5,050	4,580	3.9	1.8	4492	[illegible]			949	[illegible]
1344-C	1,514,740	6,250	4,220	16.0	3.5	3675	[illegible]			1,515	[illegible]
1344-B	1,321,050	6,250	4,480	16.0	5.8	4023	[illegible]			1,321	[illegible]
1344-A	981,670	6,250	3,460	18.2	5.6	3108	[illegible]			982	[illegible]
1341	3,579,210	4,301	3,030	19.3	6.1	3577	[illegible]			3,579	[illegible]
1347	3,358,440	0	4,320	14.1	6.9	4034	[illegible]			0	0
1348	3,389,730	4,601	4,210	19.1	7.8	3698	[illegible]			3,390	[illegible]
1349	2,493,410	0	3,730	14.2	7.5	3432	[illegible]			0	0
1350-A	2,555,100	0	3,830	16.3	8.4	3676	[illegible]	3563	17334	0	0
1350-B	933,550	4,601	3,960	14.2	8.4	3672	[illegible]			934	[illegible]
1351-A	2,269,030	0	3,950	15.5	7.9	3600	[illegible]			0	0
1351-B	1,200,700	4,601	3,610	15.8	7.8	3479	[illegible]			1,201	[illegible]
1353	3,886,000	4,750	4,510	4.5	1.9	4190	[illegible]			3,886	[illegible]
1354	2,732,210	0	3,880	14.1	8.4	3706	[illegible]			0	0
1355	3,434,130	4,601	3,800	16.5	7.1	3416	[illegible]			3,434	[illegible]
1356-A	2,457,010	0	3,890	15.4	7.8	3468	[illegible]			0	0
1356-B	1,287,900	4,601	4,010	18.1	7.9	3653	[illegible]			1,288	[illegible]
1357	3,286,570	0	4,220	16.0	8.0	3879	[illegible]	3791	28217	0	0
1358	3,603,110	4,601	3,810	15.4	7.3	3615	[illegible]			3,603	[illegible]
1359	2,656,930	0	4,130	14.4	7.9	3816	[illegible]			0	0
1352-B	1,799,700	6,250	3,320	15.4	1.8	3840	[illegible]			1,797	[illegible]
1352-C	1,013,500	6,250	4,390	10.3	6.8	4138	[illegible]			1,014	[illegible]
1352-A	1,193,600	6,250	4,160	12.2	5.4	3817	[illegible]			1,192	[illegible]
1360-C	291,450	4,601	3,540	17.5	6.9	3705	[illegible]			291	[illegible]
1360-B	2,497,740	4,601	2,460	11.1	3.9	3595	[illegible]			2,498	[illegible]
1360-A	1,133,420	3,750	3,660	12.0	6.9	3364	[illegible]			1,133	[illegible]
1362	3,327,450	0	3,520	16.7	6.3	3692	[illegible]			0	0
1363	3,438,620	4,601	4,130	18.1	6.1	3859	[illegible]	3763	21908	3,439	[illegible]
1364	3,737,040	4,750	4,370	6.5	2.0	4110	[illegible]			3,737	[illegible]
1365-B	841,000	4,601	4,520	13.8	7.1	3743	[illegible]			841	[illegible]
1365-A	2,947,140	0	4,480	14.0	8.2	4253	[illegible]			0	0
1361	3,153,880	4,650	4,470	16.8	5.2	3937	[illegible]			3,154	[illegible]
1366-A	2,939,530	0	4,580	14.2	7.9	4036	[illegible]			0	0
1366-B	899,100	4,601	4,570	16.0	8.0	4112	[illegible]			899	[illegible]
1368-A	2,729,410	0	3,860	17.5	7.4	3400	[illegible]			0	0
1368-B	634,800	4,601	4,170	17.1	7.3	3729	[illegible]			635	[illegible]
1369	3,154,070	4,601	4,330	19.9	8.1	3754	[illegible]			3,154	[illegible]
1372	3,705,920	0	3,910	14.9	7.2	3380	[illegible]			0	0
1367-C	1,502,830	5,950	3,070	13.2	6.9	3832	[illegible]	3621	24538	1,503	[illegible]
1367-A	1,840,890	6,250	2,900	14.1	4.7	3127	[illegible]			1,841	[illegible]
1367-B	497,400	5,650	3,340	13.7	7.5	4001	[illegible]			498	[illegible]
1370-B	2,493,300	3,950	3,200	12.2	3.8	3974	[illegible]			2,493	[illegible]
1370-A	1,548,000	5,650	3,730	8.8	4.1	3603	[illegible]			1,548	[illegible]
1370-C	268,500	6,250	7,330	14.0	5.1	3199	[illegible]			269	[illegible]
1371	3,180,490	0	4,110	13.7	7.7	3843	[illegible]			0	0
1373	3,454,520	0	4,050	17.5	7.8	3575	[illegible]			0	0
1374	3,022,490	5,050	3,530	8.8	3.5	3625	[illegible]			3,022	[illegible]
1375	3,992,970	4,750	4,820	8.3	1.9	4128	[illegible]	3722	18174	3,993	[illegible]
1376	3,717,910	0	4,040	14.9	6.6	3675	[illegible]			0	0
1377-A	2,658,850	0	4,260	17.1	6.8	3780	[illegible]			0	0
1377-B	922,400	4,601	4,170	14.7	4.1	3738	[illegible]			922	[illegible]
	6,70,078,930						2,33,32,24,892		6,72,079	1,47,325	1,74,33,67,344

*Since the financial settlement for coarser coal is on Ash content basis, hence its as billed GCV value is not available and is taken as zero for calculation of as billed GCV.

MONTH Nov'18

Form-15 (Ref)		FQ BASIS	SOR BASIS
1	GCV BASED ON FINAL AS BILLED	[illegible]	
2	GCV BASED ON FINAL AS BILLED		
3	GCV BASED ON AS BILLED		[illegible]

Digitally signed by [illegible] PRAKAL PITRUSH
Date: 2024.[illegible]7 14:35:[illegible]
Reason: [illegible]
Location: NTPC Limited

GCV CALCULATION SHEET FOR NOVEMBER'2018

DADRI-COAL
Nov-18

AS RECEIVED GCV (DOMESTIC COAL)

OP. STOCK	104809	MT
OP. GCV	3708	kcal/kg
OP. HEAT VALUE	388916567	

	Receipt Qty (MT)	DAY's Receipt GCV (kcal/kg)	Days Wtd Avg GCV (kcal/kg)	FORM-15 Sl.No. 21 FORM -15 GCV AS RECIVED
1-Nov-18	18361	3648	3616	66960639
2-Nov-18	21391	3680	3626	78714874
3-Nov-18	25289	3835	3654	96969996
4-Nov-18	26099	3612	3665	94247709
5-Nov-18	24743	3707	3683	91792143
6-Nov-18	32039	3589	3708	114998755
7-Nov-18	7703	3952	3717	30757852
8-Nov-18	35851	3812	3736	136639625
9-Nov-18	17381	4227	3763	73474443
10-Nov-18	14040	4095	3807	57548957
11-Nov-18	28866	3678	3787	106365341
12-Nov-18	26043	3871	3811	100826189
13-Nov-18	24378	3796	3809	92513890
14-Nov-18	18853	4121	3838	77684457
15-Nov-18	24790	4093	3855	101428297
16-Nov-18	30126	4006	3863	120630620
17-Nov-18	14784	4271	3888	63146579
18-Nov-18	29869	3812	3896	113845864
19-Nov-18	20971	3642	3874	76367567
20-Nov-18	29361	3871	3873	113646841
21-Nov-18	14377	3949	3877	56739109
22-Nov-18	33062	3916	3881	129439178
23-Nov-18	14561	3717	3871	54087422
24-Nov-18	6734	3474	3860	23393534
25-Nov-18	27402	3642	3841	77337722
26-Nov-18	17334	3693	3828	64005034
27-Nov-18	29217	3151	3819	109543025
28-Nov-18	21599	3763	3813	79964304
29-Nov-18	24459	3521	3799	86117048
30-Nov-18	16174	2722	3737	44034701
TOTAL	670979			2553534893
AS RECEIVED GCV (DOMESTIC COAL)*				3791

*This represents GCV as on closing of the concerned month which inturn is opening for next month.

AS RECEIVED GCV (DOMESTIC COAL EXCLUSIVE OF OPENING STOCK)	3811

Document verified by PARWAN PIYUSH
Digitally signed by PARWAN PIYUSH
Date: 2024 IST 14:29 IST
Reason: AGM (Commercial)
Location: NTPC Limited

GCV CALCULATION SHEET FOR DECEMBER'2018

R.R. No.	RR Qty	As Billed* GCV	AS PER CIMFR REPORT: As Received CIMFR (EQ Basis) GCV	TM	EQM	As Received CIMFR (TM Basis) GCV	HEAT VALUE As Received	DOMESTIC COAL DAYWISE: GCV (Kcal/Kg)	DOMESTIC COAL DAYWISE: QTY (MT)	AS BILLED: QTY. (MT)	AS BILLED: HEAT VALUE
1378	3,390,450	4,001	4,440	18.2	7.7	3925	13341555			2,320	11380000
1379	3,445,940	0	4,330	17.3	7.2	3858	13288088			0	0
1380	3,088,240	0	4,250	18.0	7.5	3759	13965654			0	0
1381-B	1,348,000	4,001	4,260	12.7	8.9	4097	5522771			1,349	5501344
1381-A	2,331,500	0	4,310	14.5	8.4	4023	10184175	3952	21716	0	0
1382-B	1,711,800	6,250	4,260	12.6	7.5	4048	6915342			1,712	15684755
1382-C	1,024,300	6,250	4,320	12.7	8.2	4103	4204193			1,024	5401379
1382-A	1,248,700	6,250	4,370	18.3	6.0	3879	4844990			1,249	7795630
1383	3,322,450	0	4,380	14.3	8.5	4093	13593049			0	0
1384	4,056,610	0	4,040	18.1	8.0	3808	14628552			0	0
1385-A	1,028,460	5,350	3,220	12.3	5.3	3975	4047756			1,028	6717280
1385-B	2,321,640	5,350	4,260	8.8	2.0	3857	8909766			2,322	13423774
1385-C	883,170	5,250	4,460	14.1	6.5	4057	3613756	3772	11053	883	5010413
1386-A	1,200,700	5,650	4,310	12.6	7.1	4055	5172171			1,201	7123394
1386-B	361,880	5,650	4,460	13.3	7.1	4020	1710816			362	2741198
1386-B	616,180	6,250	3,740	13.3	7.9	3423	2108779			616	3259558
1387	3,893,310	0	4,340	14.3	7.7	4000	14791969			0	0
1388	4,072,460	4,001	4,080	15.4	7.5	3732	15197604			4,072	15232368
1389-A	1,315,090	5,350	3,250	9.1	5.5	3129	5099936			1,315	12045732
1389-B	561,680	5,350	2,480	7.8	5.4	3392	1905280			562	3342356
1389-C	1,357,910	5,350	3,270	11.0	5.8	3509	4761791			1,357	8264313
1391	3,489,450	0	4,460	15.7	7.4	4006	14197659	3758	55688	0	0
1392	4,148,100	0	3,930	12.1	7.5	3527	13467915			0	0
1394	4,116,800	0	3,790	15.8	7.5	3406	14022857			0	0
1089	3,496,150	4,301	4,180	18.1	6.8	3873	13795468			3,496	14973003
1393-C	766,170	6,151	4,460	12.4	6.1	4104	3202472			766	4814736
1393-D	1,056,010	6,151	3,930	15.5	6.1	3837	3726787			1,057	5446378
1393-A	1,066,650	6,151	4,460	14.2	6.3	4045	4311550			1,067	7132422
1396	3,438,650	0	4,460	17.5	7.8	4139	14227112			0	0
1398	3,697,430	4,001	4,230	17.8	6.2	4121	15108817			3,697	17311626
1397	3,474,520	0	4,190	14.8	8.2	3864	14229635			0	0
1399-A	2,601,730	0	4,400	14.0	7.3	4198	13260001			0	0
1399-B	864,430	4,001	4,360	16.2	8.0	4427	3825175	4256	26448	864	3[illegible]9984
1399-B	1,320,170	6,250	4,140	15.3	6.4	3878	5121273			1,320	7221383
1399-A	1,592,010	6,250	4,470	14.8	6.6	4068	6478747			1,592	6481583
1100-C	864,840	6,250	4,190	13.3	7.2	4203	3637438			865	4168256
1400	3,245,450	4,301	4,380	21.7	7.5	3708	13935450			3,245	13910873
1401	3,198,260	4,001	4,320	21.3	7.9	4104	13430372			3,198	14667817
1402	3,778,960	0	4,310	18.7	7.3	4117	15564427			0	0
1403-B	882,460	4,001	4,290	14.8	7.4	3868	3444651			882	3410642
1403-A	3,433,280	0	4,240	15.2	7.6	3891	13401125			0	0
1404-A	3,941,130	3,250	4,440	3.6	2.3	4302	16951371	3898	17669	3,942	16[illegible]737
1404-B	2,008,220	0	4,360	4.2	1.8	3962	7956733			0	0
1405	4,047,530	0	4,170	18.9	7.6	3614	14643653			0	0
1406	3,113,670	4,301	4,440	14.8	7.7	4293	13365413			3,113	13[illegible]984
1407	3,641,130	4,401	4,380	17.0	8.3	3948	14365192			3,641	14[illegible]928
1408-A	1,977,880	5,350	4,310	10.2	6.1	4212	8331178			1,978	11114943
1408-B	1,971,120	5,350	4,220	8.8	2.4	4059	8000257			1,972	13347[illegible]
1409	3,187,210	0	4,150	19.6	7.9	4182	13254[illegible]			0	0
1410-B	1,200,370	0	4,030	8.7	1.8	3843	4[illegible]			0	0
1410-A	1,282,940	5,350	4,382	3.9	2.2	4219	5415187			1,283	9414337
1411	3,844,910	0	4,460	18.7	8.0	3842	14766314	3819	35262	0	0
1412	3,071,410	0	4,150	18.7	8.3	3759	11544[illegible]			0	0
1413-A	2,046,930	3,451	3,820	18.4	1.8	3345	13763[illegible]			2,047	13[illegible]273
1413-B	860,810	4,601	4,270	12.5	8.1	4009	3[illegible]			861	3[illegible]
1416	3,500,130	4,601	4,220	14.7	7.4	3982	13944[illegible]			3,500	[illegible]
1415	3,289,850	4,650	4,130	15.8	8.3	3816	12550344			3,290	12[illegible]
1416	3,580,510	4,650	4,140	22.8	8.0	3446	12332[illegible]			3,581	[illegible]
1417-A	1,231,400	6,250	3,280	12.8	8.7	3854	[illegible]			1,231	[illegible]
1417-B	1,367,300	6,250	4,470	13.3	8.2	4136	5654461			1,367	8641[illegible]
1417-C	1,363,590	6,250	4,480	8.0	6.4	4316	5[illegible]			1,364	8[illegible]
1418	3,478,010	0	4,380	18.1	8.1	4040	14[illegible]			0	0
1419-A	436,060	6,250	3,880	14.2	8.4	4042	1[illegible]	4468	32058	436	2[illegible]
1419-B	2,463,770	6,250	3,290	12.3	8.0	3380	12[illegible]			2,464	1[illegible]
1419-C	999,480	6,250	4,030	12.8	8.8	4[illegible]	4[illegible]			999	[illegible]
1420	3,621,440	4,601	4,350	15.1	7.9	4412	16[illegible]			3,620	[illegible]
1421	3,562,530	4,750	4,140	23.1	8.3	4462	17[illegible]			3,563	1[illegible]
1422	3,537,430	0	3,460	20.4	8.6	4002	14[illegible]			0	0
1423	[illegible]	4,750	4,220	8.1	7.7	4570	1[illegible]			[illegible]	[illegible]
1424	3,464,710	0	4,084	19.8	7.9	3832	14[illegible]	3984	17339	[illegible]	[illegible]
1425-D	3,181,370	0	3,880	19.1	7.4	3481	11[illegible]			[illegible]	[illegible]
1425-B	861,150	4,001	4,170	17.4	7.8	3,791	3[illegible]			[illegible]	[illegible]

[illegible]
Date: 2024[illegible]7 14:06 IST
Reason: A[illegible]
Location: NTPC Limited

1427-C	1,399,330	5,255	3,910	4.8	2.1	3832	5320348			1,398	7364598
1427-B	2,277,400	0	4,190	3.2	2.0	4024	9154623			0	0
1428-C	661,309	4,001	3,790	13.7	4.6	3427	2354559			391	2725391
1428-A	2,967,900	0	3,890	17.9	7.0	3425	10155791			0	0
1429-B	1,853,450	5,950	3,980	6.7	2.0	3709	7343654			1,459	1126739
1429-A	2,014,620	5,350	4,050	11.7	2.2	3654	7422322	3401	20292	2,315	1577822
1430-B	2,018,900	5,350	3,940	10.1	3.5	2937	5717882			2,219	1091115
1430-A	1,883,000	5,350	3,940	12.4	5.7	2754	5156187			1,384	1017885
1431	3,432,840	3,950	3,960	17.4	7.2	3535	12989344			3,435	1959653
1430	3,873,850	4,300	3,870	18.1	8.0	3474	13263831			3,874	1965645
1431	3,634,610	4,501	3,180	15.7	7.1	2985	10527665			3,535	1343319
1432	717,500	5,500	4,220	3.3	3.0	3035	2313818			718	2545250
1433	2,398,020	0	3,730	16.0	6.0	2339	11326201			0	0
1434-B	1,113,700	4,001	4,280	17.0	7.8	3673	4390452			1,114	4475814
1434-A	1,904,880	0	4,240	17.0	8.5	3848	7336321			0	0
1435	3,753,750	0	4,210	17.0	8.6	3821	12455541	3385	19388	0	0
1435-B	2,235,120	0	4,290	8.3	1.8	4023	8385239			0	0
1436-A	1,289,100	5,050	4,360	2.9	1.7	4327	5581290			1,299	4491320
1434	3,335,000	4,901	3,180	18.9	5.1	3719	8784194			3,335	1580675
1437	981,999	4,300	4,030	10.4	7.6	3508	3539758			981	2500400
1440-B	1,280,000	4,201	4,420	16.9	8.4	3875	4439351			1,281	5044981
1440-A	3,300,750	0	4,190	15.1	2.5	3843	8351468			0	0
1441	3,317,110	0	4,210	16.9	7.9	2789	12802372			0	0
1444	2,989,460	0	4,430	15.0	8.8	4133	12346637			0	0
1445-B	1,236,600	4,001	4,430	17.6	8.8	4023	4951391			1,236	4951830
1445-A	3,352,300	0	4,410	16.7	6.6	4026	9475643	3008	24946	0	0
1446-C	1,052,310	5,255	3,940	14.9	2.3	3197	5227968			1,053	8019452
1446-A	1,512,940	6,750	4,350	15.6	8.8	3884	5534854			1,513	5453915
1446-B	651,346	6,945	3,355	14.2	5.2	3930	1886121			651	4298452
1442	3,714,910	4,201	4,250	16.7	7.5	3836	14251518			3,715	11977628
1443	4,080,100	4,750	4,020	8.5	4.1	3784	15574038			4,108	16398479
1447-B	999,050	4,001	3,903	16.2	5.8	3429	2912958			992	3477263
1447-A	3,112,710	0	3,750	16.4	7.1	3375	10554140			0	0
1449	3,395,550	4,001	4,340	15.4	9.7	4112	12942729			3,396	13632972
1449-B	851,898	4,001	4,280	15.0	7.9	3591	3490494			854	3409514
1449-A	3,302,310	0	4,110	15.6	7.5	3742	9915358	3923	24937	0	0
1451	3,358,210	0	4,280	17.3	7.4	3822	12602173			0	0
1452-A	3,890,850	5,440	4,160	13.8	7.1	3880	15254985			3,891	16032898
1452-B	496,700	6,255	4,310	8.3	7.8	4408	2024847			497	2474379
1453	3,980,570	0	4,270	13.8	7.5	3878	14157304			0	0
1455	3,383,140	4,901	4,280	21.9	7.4	4037	13349931			3,383	14291759
1454	3,363,450	0	4,380	17.7	8.2	3871	13910918			0	0
1455-A	2,740,950	0	4,180	19.3	7.5	3647	9882362			0	0
1456-B	897,530	4,001	4,247	13.8	7.5	3903	3333415			898	3947798
1456-B	1,983,600	4,001	4,270	16.6	7.7	3883	4579681	3596	14281	1,983	5021467
1456-A	2,309,250	0	4,460	20.7	7.7	3832	8465479			0	0
1457-A	1,298,600	5,950	3,970	16.0	2.4	2937	4420865			1,297	2477866
1457-B	1,126,430	5,950	3,970	16.8	5.5	3980	3241407			1,126	2711987
1457-C	1,604,640	4,750	3,940	8.3	3.8	3953	3447388			1,605	3403506
1458	3,091,810	0	4,150	15.8	8.8	3779	13928650			0	0
1458-A	2,310,870	5,650	3,950	17.8	6.4	3441	7935844			2,312	7336211
1460-B	1,621,700	5,350	4,080	14.3	8.9	4278	7147980			1,622	7344125
1461-A	1,191,400	5,050	4,020	3.9	2.1	3995	4780963	3962	25911	1,191	5998372
1461-B	2,555,000	0	3,980	3.3	1.8	3943	8813874			0	0
1462	3,217,940	0	3,870	14.3	8.7	3153	11364417			0	0
1463	3,670,940	4,901	4,210	16.4	8.5	3838	14010338			3,674	16857158
1464	3,919,120	0	3,920	15.2	7.1	3334	11428182			0	0
1460	4,087,410	4,301	3,910	15.5	8.9	3641	14979478			4,087	17172850
1465-B	949,350	4,001	3,920	17.0	7.9	3917	3537247			949	3711940
1465-A	2,786,070	0	3,890	19.3	7.2	3434	9386657			0	0
1467	3,091,840	0	3,840	16.8	7.5	3412	12355344			0	0
1466-B	951,198	4,001	3,890	13.0	7.2	3714	3382047	3546	15386	952	3875151
1466-A	3,271,630	0	3,890	17.8	7.7	3423	11295364			0	0
1468	3,544,800	5,601	4,340	14.8	7.9	4078	11669142			3,545	9798350
1469-C	1,946,100	5,950	4,110	3.9	3.1	4043	8067756			1,946	9010409
1469-B	952,909	5,950	3,870	8.2	2.5	3844	3043396			952	5944691
1469-A	905,988	5,350	3,290	3.5	2.7	2133	2863917			907	4812241
1470-B	1,354,800	4,001	3,590	13.9	3.1	3146	3846403	3528	14880	1,356	5020830
1470-A	3,328,510	0	3,790	16.7	4.8	2355	7811617			0	0
1471-C	2,400,500	5,350	2,860	7.5	8.2	1877	6396394			2,401	12842173
1471-A	733,400	5,150	4,100	7.7	1.0	3709	2777642			733	2613980
1471-B	909,900	5,950	3,370	8.0	4.3	1814	3172968			910	5170968
1472	3,868,342	0	4,270	14.0	8.2	3745	14463391			0	0
1473	2,998,930	4,401	3,090	16.1	7.7	4372	9783424			1,996	17855419
1474-A	2,996,511	0	4,190	13.1	8.7	4863	11264713			0	0
1474-B	417,600	4,001	3,490	13.8	8.0	3441	2417512	3898	14878	418	3213813
1475	3,761,750	0	3,990	15.1	7.4	3630	13736803			0	0
1476	3,415,311	0	3,980	14.1	8.7	3341	11348424			0	0
1477	3,240,000	0	4,170	13.4	7.5	3868	12843431			[illegible]	[illegible]
1478	4,398,400	5,350	3,470	14.1	7.4	3514	13499440			[illegible]	[illegible]
1479	3,874,713	4,001	3,460	17.4	7.5	3398	13619987	[illegible]	[illegible]	[illegible]	[illegible]

1480-B	2,795,570	0	3,730	3.5	1.8	3946	10184725	[illegible]	[illegible]	[illegible]	0	0
1480-A	975,760	4,750	3,400	4.0	1.5	3255	3215381				979	4654880
1481	3,272,640	0	4,240	16.4	7.6	3836	12555208				0	0
1482	3,478,110	0	4,210	16.6	4.7	3492	12142907				0	0
1483	3,427,340	0	3,750	15.8	2.4	1244	11117504				0	0
1484-A	1,784,220	0	5,560	5.0	2.0	5405	993174	3734	13755		0	0
1484-B	1,089,420	0	4,770	3.4	1.6	4198	778863				0	0
1485	3,377,150	0	3,980	12.7	1.3	3157	10805385				0	0
1486-A	2,826,150	0	3,748	23.0	7.3	3134	8381473				0	0
1486-B	384,200	4,001	4,470	21.7	7.5	3784	2213483				384	2137384
1487	3,861,270	4,501	4,340	18.2	8.5	3762	14873533				3,861	14803064
1488	3,375,050	4,901	4,490	19.7	9.2	3971	14195744	3999	21022		3,375	13448825
1489	2,364,630	5,950	4,140	14.1	5.9	3779	9347174				2,365	21209549
1490	3,089,460	0	3,000	20.0	5.3	4226	13053946				0	0
1491	3,709,380	0	4,170	3.8	2.5	4609	17595364				0	0
1492	3,541,410	0	4,540	13.4	8.0	3539	12534436				0	0
1493	3,240,550	5,450	4,940	14.3	7.5	4497	14017540				3,241	16387273
1494-D	1,830,890	5,450	5,240	13.1	3.6	3921	9519082				1,821	16834265
1494-C	325,745	5,950	3,450	7.8	2.9	3433	1128987	3877	19175		321	1024433
1494-B	652,300	5,950	3,990	3.4	2.9	3845	1898964				652	2085495
1494-A	606,330	5,950	3,590	7.1	4.4	3496	2196429				588	2229436
1495	3,835,360	5,950	3,920	12.9	4.7	3579	12313783				3,835	21171011
1496	3,112,890	4,501	4,270	10.0	9.1	3835	11943251				3,113	14331027
1497-B	1,294,400	4,001	3,490	18.3	6.7	4030	3942948				1,295	5162896
1497-A	2,351,950	0	4,280	10.7	9.0	3609	8446016	3702	17463		0	0
1498	3,551,610	4,601	4,540	21.7	9.2	3515	13925336				3,550	15341878
1499-B	1,321,900	4,901	4,110	20.4	5.8	3477	4245802				1,321	4995223
1499-A	2,918,240	0	4,150	17.3	8.8	3604	9749105				0	0
1500	3,606,730	0	3,850	18.5	7.7	3314	11129628				0	0
1501	6,066,730	5,650	3,490	3.8	2.5	3353	13842423	3559	14783		4,207	20538835
1502	3,518,210	4,601	3,930	20.2	8.8	3414	12097261				3,513	19764019
1503	3,794,320	4,651	3,370	13.6	3.6	1296	12655603				3,794	17949179
1504	3,831,850	5,950	3,970	14.4	5.5	3509	13412979				3,832	22739557
1505	3,316,750	43,001	4,230	16.4	7.1	3713	13471224				3,317	19413697
1506	3,499,240	5,250	4,930	11.3	8.7	4150	13847135	4139	17608		3,498	21800250
1507	3,497,620	0	4,450	16.4	5.4	4352	15019568				0	0
1508-A	1,039,860	4,750	4,730	4.2	2.0	4087	3496332				1,031	3639448
1508-B	2,362,200	0	4,750	3.4	2.9	4082	10881096				0	0
1509	3,445,840	0	4,130	14.4	8.5	3946	13353456				0	0
1510-B	1,941,200	5,450	5,330	11.0	6.7	4047	15815199				1,941	16055143
1510-A	464,800	6,250	4,950	11.0	5.6	4193	3120005	3776	14875		465	1341008
1511	3,742,450	4,351	3,950	20.1	7.3	3447	13764323				3,743	16896097
1512	3,799,820	4,351	3,460	20.1	7.3	3982	11304493				3,791	19317371
1513-A	2,594,610	0	4,670	14.3	6.4	4035	10444192				0	0
1513-B	886,840	4,001	3,330	17.9	9.9	2701	2887742				879	3879906
1514	3,384,730	0	3,910	18.5	6.1	3456	11732939				0	0
1515	3,304,950	0	3,670	19.8	9.9	4359	12846334				0	0
1516-A	3,831,410	0	3,750	17.5	8.4	1551	13801136	3498	25614		0	0
1516-B	2,218,270	0	3,990	18.9	8.5	3541	7897242				0	0
1516-D	1,228,700	4,001	3,730	18.2	8.0	1709	4334987				1,228	4604128
1516	3,004,000	4,501	3,550	16.1	5.7	3158	12514665				3,004	11779124
1518	3,328,150	5,950	4,170	12.9	6.2	3513	11801979				3,329	23375195
1519	3,312,340	0	4,030	18.2	7.8	3883	12229454				0	0
1520-D	853,800	4,001	2,860	13.2	7.9	3878	2386311				853	3638875
1520-B	2,047,090	5,451	3,070	17.7	9.4	3317	6738910				2,047	16812517
1520-D	2,764,100	5,950	3,820	16.5	9.6	3637	10031345	3649	17843		2,764	19446346
1522-A	992,600	5,250	3,230	11.9	4.9	3783	3223622				993	6142006
1524-B	1,867,030	0	4,020	3.0	1.7	3945	7173198				0	0
1524-A	1,298,830	4,750	4,550	3.4	1.6	4462	7854385				1,299	8427918
1525	3,313,710	5,950	3,770	13.9	8.4	3517	11792127				3,314	19610115
1526-A	2,169,180	0	4,190	16.1	7.1	3743	9395709				0	0
1526-B	629,400	4,001	3,570	14.3	2.4	3705	2364279				629	1613208
1526-B	2,044,600	5,950	3,290	12.0	4.7	3024	8667777	3642	15346		2,046	17949625
1526-A	872,700	5,222	3,490	12.4	4.3	3881	2183344				871	5133234
1527	1,843,510	4,601	4,390	17.8	7.2	4034	5409027				3,844	16874400
1528	4,094,860	0	3,790	19.7	8.6	3493	14039475				0	0
1529	3,366,950	4,201	4,950	14.3	4.8	4044	13945948	3528	10586		3,370	14444176
1529-B	1,107,200	4,001	3,790	14.9	3.4	3260	3738579				1,107	4194887
1530-A	2,305,820	0	3,470	14.4	3.8	2944	6962705				0	0
1531-A	2,853,790	0	3,910	19.3	4.7	4062	7211545				0	0
1531-B	1,398,000	4,001	4,050	16.1	5.3	3544	4919525				1,398	5511396
1532-A	979,800	4,750	3,930	4.2	3.4	3944	1184025				980	4111140
1533-B	3,888,400	0	3,890	2.1	1.8	3834	5108474				0	0
1533-A	854,500	4,750	3,990	11.3	1.1	3330	2843842				854	4394420
1533-B	1,164,500	5,950	4,990	8.4	3.7	4234	4671147				1,165	5040479
1533-C	196,400	5,950	3,930	9.8	2.5	3362	1311115				196	1091142
1533-D	1,412,800	5,950	3,890	11.8	3.5	4171	5234798				1,413	5844481
1534-D	1,410,800	5,950	3,600	9.1	2.2	3710	4710318	3437	27555		[illegible]	[illegible]
1534-C	800,100	5,950	4,170	7.6	3.6	4046	2732492				[illegible]	[illegible]
1534-B	300,300	5,950	3,590	8.4	4.7	3996	1000196				[illegible]	[illegible]
1534-A	1,294,500	5,950	4,270	8.1	1.9	3734	4831642				[illegible]	[illegible]

Date: 2024[illegible]7.14.20 IST
Reason: A[illegible]
Location: NTPC Limited

1535-B	1,023,480	4,301	4,080	11.5	5.7	3780	3857272				1,023	4064923
1535-A	2,054,700	0	4,110	13.5	6.8	3802	10890572				0	0
1536	3,600,930	0	3,970	15.8	5.8	3841	13130179				0	0
1537-B	2,246,900	5,350	3,720	12.3	5.4	3449	7755710				2,249	5005615
1537-A	1,227,190	5,350	3,880	12.1	2.2	3496	5071798				1,227	5225985
1538	3,054,500	4,501	4,840	14.7	6.9	4251	13337493				3,055	13713555
1539-B	605,600	4,301	4,160	16.8	6.9	3735	2262227				606	2472308
1539-A	3,996,010	0	4,030	15.5	6.8	3854	15661861				0	0
1540	3,326,170	4,891	4,480	15.8	8.1	4105	13660925				3,326	15012915
1541-A	1,248,790	5,350	4,080	9.9	7.5	3954	4935720				1,247	5417395
1541-B	617,500	5,350	3,970	10.6	6.7	3804	2349000	3900	26750		618	2614130
1541-C	1,015,900	5,350	3,850	12.2	2.9	3289	3335477				1,015	3703759
1541-D	844,600	5,350	4,130	9.1	7.1	4041	3413819				845	4219380
1542-B	2,238,240	0	4,140	14.0	7.2	3823	8561328				0	0
1542-A	1,243,600	4,000	3,910	14.8	7.0	3480	4335631				1,244	4675844
1543	3,425,140	0	3,840	18.8	4.5	3364	11522583				0	0
1544	3,012,420	0	3,960	13.8	7.8	3702	11274240				0	0
	5,97,300.370						2,23,77,92,169		5,97,301		2,24,198	1,73,49,20,698

* Since the financial settlement for washed coal is on Ash content basis, hence, its as billed GCV value is not available and is taken as zero for calculation of as billed GCV.
GCV as billed value in excel row no. 192 (R.R. No.1505) is a typographical error. It should be 4301 kCal/kg corresponding to which GCV as billed for the month would be 5910 kCal/kg

MONTH Dec 19								
Form-15 Sl.no.							EC BASIS	AOB BASIS
1	GCV-DOMESTIC COAL AS BILLED						5414	-
2	GCV-IMPORTED COAL AS BILLED						-	-
3	Weighted GCV-AS BILLED						5414	

Document verified by PARWAN
PIYUSH <parwan.piyush@ntpc.co.in>
Digitally signed by PARWAN PIYUSH
Date: 2024.[illegible] 17:14:29 IST
Reason: AGM (Commercial)
Location: NTPC Limited

GCV CALCULATION SHEET FOR DECEMBER'2018

DADRI-COAL
Dec-18

AS RECEIVED GCV (DOMESTIC COAL)

OP. STOCK	246884	MT
OP. GCV	3793	kcal/kg
OP. HEAT VALUE	933985468	

	Receipt Qty (MT)	DAY's Receipt GCV (kcal/kg)	FORM-15 Sl No. 21 FORM -15 GCV AS RECIVED
1-Dec-18	31716	3967	8583625
2-Dec-18	11051	3772	41684905
3-Dec-18	30698	3736	115152867
4-Dec-18	28440	4056	99158180
5-Dec-18	17203	3989	68608809
6-Dec-18	35392	3819	134936496
7-Dec-18	27254	4455	95604457
8-Dec-18	11258	3944	44557183
9-Dec-18	26752	3401	91022192
10-Dec-18	16596	3535	58657546
11-Dec-18	24990	3628	90657534
12-Dec-18	24537	3633	89184137
13-Dec-18	14351	3896	55891158
14-Dec-18	9911	3660	36269983
15-Dec-18	15586	3566	55595631
16-Dec-18	14860	3635	54140684
17-Dec-18	14679	3636	53311861
18-Dec-18	17088	3304	56455423
19-Dec-18	13756	3734	51356492
20-Dec-18	21022	3849	80922825
21-Dec-18	10175	3677	37414023
22-Dec-18	17403	3782	65847781
23-Dec-18	14793	3392	50181149
24-Dec-18	17946	4125	74152442
25-Dec-18	14675	3778	55454179
26-Dec-18	25414	3489	88685532
27-Dec-18	17942	3649	65481274
28-Dec-18	10598	3543	37557453
29-Dec-18	10845	3598	39012723
30-Dec-18	21755	3437	65404447
31-Dec-18	24756	3833	94914288
TOTAL	597301		2237182185
AS RECEIVED GCV (DOMESTIC COAL)			3746

AS RECEIVED GCV (DOMESTIC COAL EXCLUDING OF OPENING STOCK)	3745

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Date: 2024 IST 14:29 IST
Reason: AGM (Commercial)
Location: NTPC Limited

Annexure-2

केन्द्रीय खनन एवं ईंधन अनुसंधान संस्थान
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)
बरवा रोड, धनबाद - 826 015, झारखण्ड, भारत
एक आई एस ओ 9001 प्रमाणित संस्थान

CSIR-Central Institute of Mining and Fuel Research
(Council of Scientific and Industrial Research)
Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Date: 17.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 25.10.2018 to 26.08.2018

UNLOADING END ANALYSIS REPORT

TSSI REPORT No: CIMFR/DHN/TPS/UNLDN/OV/18-19/2457
COAL COMPANY : CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING: BACHRA
POWER UTILITY : NCPP, Dadri

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 50% RH & at 40°C Basis			EM%	Assigned Grade
				R.R. Quantity (MT)	R.R.No. & Wagon No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/7264	25.10.2018	29.10.2018		1152		7.5	32.1	4360	16.3	G11
2	TPS/7264	25.10.2018	29.10.2018		1154		7.2	35.3	4070	15.9	G12
3	TPS/7264	25.10.2018	29.10.2018		1156		6.7	37.5	3950	15.3	G12
4	TPS/7264	26.10.2018	29.10.2018		1157		7.5	31.4	4359	16.3	G10
5	TPS/7269	27.10.2018	30.10.2018		1161/A		8.1	31.2	4350	15.7	G10
6	TPS/7269	27.10.2018	30.10.2018		1161/B		7.8	37.1	3890	15.1	G12
7	TPS/7270	27.10.2018	31.10.2018		1163		8.4	32.4	4100	17.1	G11
8	TPS/7271	27.10.2018	31.10.2018		1164		7.7	25.1	4350	14.9	G11
9	TPS/7271	30.10.2018	31.10.2018		1166		8.7	37.2	4230	14.9	G12
10	TPS/7272	30.10.2018	31.10.2018		1167-A		8.1	32.5	4240	12.6	G11
11	TPS/7274	30.10.2018	31.10.2018		1167/B		8.2	39.8	4000	16.0	G11

NOTE: (i) Sample collected as per IS/5 (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2015; GCM IS 1883-19
(iii) GCV as per IS 1350 (Part-II), 1974 Reaffirmed 2010; GCM IS 1883-19

(Authorized Signatory)

डॉ० अशोक कुमार सिंह / Dr. Ashok Kr. Singh
मुख्य अनुसंधान अधिकारी / Chief Research Officer
केन्द्रीय खनन एवं ईंधन अनुसंधान संस्थान
Central Institute of Mining & Fuel Research
बरवा रोड, धनबाद
Barwa Road, Dhanbad
P.O.: C.M.E., DHANBAD, Jharkhand

Digitally signed by PIYUSH
Date: 2021.07.14 20:07:57 IST
Reason: Authorized signatory
Location: NTPC Dadri

सीएसआईआर-केंद्रीय खनन एवं ईंधन अनुसंधान संस्थान
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)
बरवा रोड, धनबाद - 826 015, झारखण्ड, भारत
एक आई एस ओ 9001 प्रमाणित संस्थान

CSIR-Central Institute of Mining and Fuel Research
(Council of Scientific and Industrial Research)
Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Date: 08.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 31.10.2018 & 01.11.2018

UNLOADING AND ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/NLD/NOV/18-19/20018
POWER UTILITY- NCPP, DADRI
COAL COMPANY- NORTHERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NLR			On 60% RH & 40 0 C Basis			TM%	Analysis Grade
				R.R. Quantity (Mt)	R.R./NLR Note No.	R.R. Date	M%	A%(O)	GCV (Kcal/kg)		
1	TPS/73529	31.10.2018	02.11.2018		1190		4.9	34.0	3796	14.6	G16
2	TPS/73530	01.11.2018	03.11.2018		1191		4.5	46.4	3060	14.4	G12

NOTE: (i) Sample collected as per FSA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2008/ ASTM D-5865-13

(Authorized Signatory)

डॉ० अशोक कुमार सिंह / Dr. Ashok Kr. Singh
वरिष्ठ वैज्ञानिक अधिकारी, संस्थान प्रौद्योगिकी प्रबंधन विभाग / Scientist, Institute Technology Management Division
सीएसआईआर-केंद्रीय खनन एवं ईंधन अनुसंधान संस्थान
CSIR-Central Institute Of Mining & Fuel Research
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सीएसआईआर-केन्द्रीय खनन एवं ईंधन अनुसंधान संस्थान
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Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Date:24.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 20.10.2018 to 01.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/NCL/DNGN/18-19/23627
POWER UTILITY- NCPP, DADRI
COAL COMPANY- NORTHERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TMS%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ E-Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/23627	20.10.2018	03.11.2018		1196		5.1	52.2	3000	22.7	G10
2	TPS/23628	21.10.2018	03.11.2018		1152		6.4	48.9	2790	21.4	G12
3	TPS/23629	01.11.2018	05.11.2018		1153		5.1	49.5	2900	18.5	G11

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D-7582-16
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-Cl

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date:21.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 28.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR DHN/TPS/UNLD/NOV/18-19/23510
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-KDH
POWER UTILITY- NTPC, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On GCV ARB basis			TM%	Assessed Grade
				R.R. Quantity (Mt)	R.R.No./ E. Note No.	R.R. Rake	M%	ASH%	GCV (Kcal/kg)		
1	TPS/15319	28.10.2018	02.11.2018		71003-A		7.0	24.9	4368	14.7	G11

NOTE: (i) Sample collected as per ISO, (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2010/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified institute

Date:24.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 20.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/JHEN/OPS/UNLD/NOV/18-19/2831
POWER UTILITY: NCPP, DADRI
COAL COMPANY: EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			Air dry basis, IS, at 40 °C basis			TAFC	Analysed Grade
				R.R. Quantity (MT)	R.R.No./ T. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/7396	20.10.2018	20.10.2018		1159-A		8.2	35.5	4260	14.4	G12
2	TPS/7397	20.10.2018	20.10.2018		1159-B		6.2	37.8	4110	14.2	G13

* NOTE: (i) Sample collected as per ISO 18283 Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2009/ ASTM D-7582-15
(ii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date:27.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 23.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/NOV/18-19/33715
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-RCM
POWER UTILITY - NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R./Wt./ E-Note No.	R.R. Date	M%	A(M)%	G.C.V (Kcal/kg)		
1	TPS/71023	23.10.2018	25.10.2018		3148		4.8	38.8	4268	12.7	G11

NOTE: (i) Sample collected as per IS6 (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2014/ ASTM D 7582-15
(iii) G.C.V as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D 5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date:09.11.2019

Analytical Results of sample drawn by CSIR-CIMFR (Third Party Sampling) during the period 18.10.2019

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/NLD/NOV/18-19/20019
COAL COMPANY:- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING:-RWGR
POWER UTILITY:- NTPC DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TMC%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ F. Slate No.	R.R. Date	A%	ASH%	GCV (Kcal/kg)		
1	TPS/18/06	18.10.2019	22.10.2019		5119		3.4	37.2	4060	8.4	G16

NOTE: (i) Sample collected as per ISO 18. (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2010/ ASTM D 5142-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorised Signatory)

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An ISO 9001 Certified Institute

Date:06.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 15.10.2018 to 19.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/IMN/TPS/NLG-NOV/18-19/2001
COAL COMPANY:- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING:-BACHRA
POWER UTILITY:- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis				Analysed Grade
				R.R. Quantity (Mt)	R.R.No/ P. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)	F.M%	
1	[illegible]	[illegible]	19.10.2018		1108		7.5	30.2	4009	18.8	G08
2	[illegible]	[illegible]	19.10.2018		1109		6.6	38.0	4210	17.9	G11
3	[illegible]	[illegible]	19.10.2018		1110-A		8.0	32.2	4009	16.2	G10
4	[illegible]	[illegible]	19.10.2018		1110-B		8.3	33.0	3908	15.8	G11
5	[illegible]	[illegible]	19.10.2018		1111-A		7.9	36.6	3928	15.8	G12
6	[illegible]	[illegible]	19.10.2018		1111-B		7.7	34.2	4008	17.0	G11
7	[illegible]	[illegible]	19.10.2018		1112		8.3	28.0	4010	16.5	G10
8	[illegible]	[illegible]	19.10.2018		1113		8.0	27.4	4068	17.4	G10
9	[illegible]	[illegible]	20.10.2018		1114-A		8.5	26.7	4130	18.9	G10
10	[illegible]	[illegible]	20.10.2018		1114-B		9.8	30.3	4160	17.1	G09
11	[illegible]	[illegible]	20.10.2018		1116		8.5	35.4	4120	18.7	G11
12	[illegible]	[illegible]	22.10.2018		1120		7.9	39.4	3160	14.8	G12
13	[illegible]	[illegible]	22.10.2018		1121-A		7.4	38.2	3890	15.8	G12
14	[illegible]	[illegible]	23.10.2018		1121-B		8.3	36.6	3860	17.4	G12
15	[illegible]	[illegible]	23.10.2018		1122		8.1	39.8	3950	15.6	G12
16	[illegible]	[illegible]	23.10.2018		1124		8.5	38.2	4090	15.9	G11
17	[illegible]	[illegible]	23.10.2018		1125-A		8.7	36.2	4060	19.2	G10
18	[illegible]	[illegible]	23.10.2018		1125-B		8.0	39.9	4010	20.2	G10

NOTE: (i) Sample collected as per FSA (I) Act & Violation as Rr. UDI (Part-I), 1984 Rectified 2002, MMDR & 1992 as (ii) GCV as per IS 1040(Part-11), 1978 Rectified 2010/ ASTM D-3865-13

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Date:06.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 28.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CSIR/CIMFR/TPS/UNLD/NOV/18-19/23012
POWER UTILITY - NCPE, DADRI
COAL COMPANY - EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ E.Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/70161	28.10.2018	23.10.2018		1126-A		5.8	25.5	5220	9.4	G7
2	TPS/70162	28.10.2018	23.10.2018		1126-B		6.4	32.8	4440	10.0	G10

NOTE: (i) Sample collected as per FSA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2012/ ASTM D 7582-15 (iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2018/ ASTM D-5865-13

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Dhanbad, 11.2018

Analytical Results of samples drawn by CMFRI-CIMFR (Third Party Sampling) during the period: 15.10.2018 & 19.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/NOV/18-19/2013
POWER UTILITY- NCPP, DADRI
COAL COMPANY- NORTHERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of Collection	Date of Dispatch	Railway Rake/MDH			On 60% RH & at 40°C Basis			TM(%)	Analysed Sample
				R.R. Quantity (MT)	R.R./Truck/MDH Rake No.	R.R. Date	M(%)	ASH(%)	GCV (Kcal/kg)		
1	TPS/78163	15.10.2018	15.10.2018		1120		7.6	28.6	4216	25.4	5.69
2	TPS/78164	18.10.2018	19.10.2018		1118		8.1	29.8	3968	28.7	5.9
3	TPS/78165	18.10.2018	19.10.2018		1118		7.8	27.2	4000	44.2	6.11

NOTE: (i) Sample collected as per IS:6 (Pt-1) & Modified as IS:1350 (Part-I), 1984 Reaffirmed 2003/ ASTM D-7582-15
(ii) GCV as per IS:1350 (Part-II), 1959 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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सीएसआईआर-केंद्रीय खनन एवं ईंधन अनुसंधान संस्थान
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एक आई एस ओ 9001 प्रमाणित संस्थान

CSIR-Central Institute of Mining and Fuel Research
(Council of Scientific and Industrial Research)
Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Date:04.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 15.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.: CSIR/CIMFR/DHN/TPS/ENL/DNDN/18-19/23009
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA:SIDING-ECM
POWER UTILITY: NUPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NCR			On adhoc ESA & AF C Basis			TMS	Analysed Grade
				R.R. Quantity (Mt)	B.H.No./R. Nala No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/70134	15.10.2018	19.10.2018		1106		8.5	37.3	4630	20.8	G9
2	TPS/70135	15.10.2018	19.10.2018		2107-A		9.7	32.9	4520	34.5	G11
3	TPS/70136	15.10.2018	19.10.2018		2107-B		6.8	38.5	3814	21.9	G12

NOTE: (i) Sample collected as per ESA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2010/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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CSIR-Central Institute of Mining and Fuel Research
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Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Date:05.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 18.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.: CIMFR/DHN/TPS/UNLD/NOV/18-19/2004
COAL COMPANY: CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING: KJH
POWER UTILITY: NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MCR			On AD% basis at 60°C Basis			TM%	Analysed Grade
				R.H.	R.H.No./C.	R.R.	M%	A(M)%	GCV		
1	TPS/701/49	18.10.2018	22.10.2018		1117-A		7.3	37.7	3950	10.1	G13
2	TPS/701/49	18.10.2018	22.10.2018		1117-B		7.5	36.8	3979	10.2	G13

NOTE: (i) Sample collected as per IS4 (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2010/ ASTM D-2361-13
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date:24.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 31.10.2018 to 02.11.2018

UNLOADING UNIT ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/NOV/18-19/23626
POWER UTILITY- NLPP, BADRI
COAL COMPANY- EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			Quality BH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ E. Note No.	R.R. Date	M%	ASH%	G.C.V (Kcal/Kg)		
1	TPS/23516	31.10.2018	02.11.2018		1189-A		6.8	38.3	4026	15.8	G11
2	TPS/23517	31.10.2018	03.11.2018		1189-B		6.5	35.8	4090	13.6	G10
3	TPS/23518	01.11.2018	03.11.2018		1189-C		7.3	32.8	4476	11.8	G9
4	TPS/23519	02.11.2018	03.11.2018		1191		5.4	44.8	3670	9.3	G12
5	TPS/23520	02.11.2018	05.11.2018		1196-A		7.6	34.6	4000	12.7	G11
6	TPS/23521	02.11.2018	05.11.2018		1196-B		7.0	31.4	4160	14.6	G9
7	TPS/23522	02.11.2018	05.11.2018		1196-C		7.2	30.1	4180	11.9	G9
8	TPS/23523	02.11.2018	06.11.2018		1201-A		5.8	41.3	3670	16.5	G12
9	TPS/23524	02.11.2018	06.11.2018		1201-B		6.1	37.0	4320	13.4	G10
10	TPS/23525	02.11.2018	06.11.2018		1202-C		6.2	38.0	4070	14.2	G11
11	TPS/23526	02.11.2018	06.11.2018		1203-D		4.8	46.3	3900	13.9	G12

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2002/ ASTM D 3302-12
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

डॉ० आशुतोष कुमार सिंह / Dr. Ashutosh Singh
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केन्द्रीय खनन एवं ईंधन अनुसंधान संस्थान
Chief Research Officer, Council of Scientific & Industrial Research
Unit of CSIR, Dhanbad
P.O.: C.F.R.I., PIN-826015, Dhanbad

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CSIR-Central Institute of Mining and Fuel Research
(Council of Scientific and Industrial Research)
Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Date: 04.11.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period [illegible]

UNLOADING END ANALYSIS REPORT

TEST REPORT No: CIMFR/GDN/ZTS/NUD/MOV/18-19/2625
COAL COMPANY: CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING: BACHRA
POWER UTILITY: NTPC BARH

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake NGR			On 60% RH & 40°C Basis			TM%	Analysed Grade
				RR Quantity (Mt)	R.R.N.G.S.P. Point No.	RR Type	M%	A(db)%	GCV (Kcal/kg)		
1	TPS/73502	31.10.2019	03.11.2019		1287		7.5	29.9	4520	16.2	G16
2	TPS/73504	01.11.2019	05.11.2019		1194		7.2	32.6	3479	18.2	G17
3	TPS/73505	01.11.2019	05.11.2019		1197		7.4	42.7	3364	14.5	G14
4	TPS/73506	02.11.2019	05.11.2020		1197-A		7.9	39.2	3828	16.4	G13
5	TPS/73507	02.11.2019	05.11.2021		1197-B		8.4	36.2	4098	18.3	G10
6	TPS/73508	02.11.2019	05.11.2022		1196-A		8.4	34.3	4098	15.7	G12
7	TPS/73509	02.11.2019	05.11.2023		1198-B		8.5	32.6	4230	17.1	G12
8	TPS/73510	02.11.2019	06.11.2024		1199-A		7.0	35.0	3749	18.1	G14
9	TPS/73511	02.11.2019	06.11.2025		1199-B		8.6	34.5	4088	15.5	G12
10	TPS/73512	02.11.2019	06.11.2026		1200-A		7.8	35.8	3798	15.2	G12
11	TPS/73513	02.11.2019	06.11.2027		1200-B		7.7	37.9	3950	16.7	G11
12	TPS/73514	03.11.2019	06.11.2028		1192-A		8.5	31.6	4210	12.5	G13
13	TPS/73515	03.11.2019	06.11.2029		1192-B		8.6	36.1	3330	14.2	G14

NOTE: (1) Moisture (Moisture) as per ISO 589 & Moisture as IS 1350 (Part I): 1984 Reaffirmed 2010 [illegible]
(2) GCV as per IS 1350 (Part II): 1970 Reaffirmed 2010 ASTM D-5865-13

(Authorised Signatory)

डॉ० अशोक कुमार सिंह / Dr. Ashok Kr. Singh
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Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Date:31.10.2018

Analysis of Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 05.10.2018 & 16.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DN/CTPS/UNLD/OCT/18-19/2750
CHAF COMPANY - CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-BWGR
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/WGM			On 60% RH & at 40°C Basis			TMPC	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ P-Note No.	R.R. Date	MC	ASH%	GCV (Kcal/kg)		
1	TPS/18/029	08.10.2018	08.10.2018		1066		2.1	32.5	3826	7.6	G8
2	TPS/18/030	10.10.2018	12.10.2018		1077		4.2	34.9	3650	6.3	G9

NOTE: (i) Sample collected as per IS/A (ii) Ash & Moisture as IS 1350 (Part-1), 1984 Reaffirmed 2002/ ISO/IEC 17025:17
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2006/ ASTM D 5865-13

(Authorized Signatory)

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केन्द्रीय खान तथा ईंधन अनुसंधान संस्थान
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CSIR-Central Institute of Mining and Fuel Research
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An ISO 9001 Certified Institute

Date:30.10.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 10.10.2018 to 15.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/CNLB-OCT/18-19/1766
COAL COMPANY - CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-BACHRA
POWER UTILITY - NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			Gcv (40% RH & at 60°C Room Temp)			TM%	Analysed Grade
				R.N.	R.R.No/ F	M.N.	M%	ASH%	GCV		
1	TPS/0921	10.10.2018	13.10.2018		1078-A		6.4	34.1	4288	35.4	G11
2	TPS/0922	10.10.2018	13.10.2018		1078-B		6.0	35.9	4129	35.2	G12
3	TPS/0923	10.10.2018	13.10.2018		1079		7.5	34.2	4308	35.4	G11
4	TPS/0924	10.10.2018	13.10.2018		1090		7.0	34.0	4218	34.8	G11
5	TPS/0927	11.10.2018	15.10.2018		1093-B		7.3	34.3	4220	34.9	G11
6	TPS/0928	11.10.2018	15.10.2018		1094-A		6.5	35.6	3900	34.1	G12
7	TPS/0929	11.10.2018	15.10.2018		1094-B		7.1	34.1	4200	35.3	G11
8	TPS/0930	11.10.2018	15.10.2018		1086		6.5	35.0	3940	34.2	G12
9	TPS/0933	12.10.2018	16.10.2018		1090-A		6.8	35.3	4300	34.5	G11
10	TPS/0935	12.10.2018	16.10.2018		1089		7.7	37.0	3920	35.8	G12
11	TPS/0937	13.10.2018	16.10.2018		1091		8.5	35.7	4170	37.2	G11
12	TPS/0938	13.10.2018	17.10.2018		1092		8.0	35.3	4300	35.1	G10
13	TPS/0941	13.10.2018	17.10.2018		1095		8.0	35.5	4400	35.6	G10
14	TPS/0942	14.10.2018	18.10.2018		1098		8.0	36.0	4410	37.4	G10
15	TPS/0943	14.10.2018	18.10.2018		1099-A		8.5	36.7	3900	35.6	G11
16	TPS/0944	14.10.2018	18.10.2018		1099-B		8.6	35.8	4170	37.0	G11
17	TPS/0946	15.10.2018	19.10.2018		1101-B		7.8	29.3	4630	35.8	G8

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D 5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date: 22.10.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 21.10.2018,22.10.2018 to 15.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.: CIMFR/DHN/TPS/NLD/SEP/18-19/2787
POWER UTILITY- NCPP, BADDI
COAL COMPANY - EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NCLR				On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ T. Note No.	R.R. Date	M%	A60%	GCV (Kcal/kg)			
1	TPS/0051	11.10.2018	15.10.2018		1082-A		8.2	36.0	4198	12.7	G11	✓
2	TPS/0052	11.10.2018	15.10.2018		1082-B		7.4	37.5	4004	14.7	G11	✓
3	TPS/0053	11.10.2018	15.10.2018		1082-C		8.5	22.8	5278	11.4	G7	✓
4	TPS/0054	11.10.2018	15.10.2018		1085-A		7.8	28.8	5040	11.8	G8	✓
5	TPS/0055	11.10.2018	15.10.2018		1085-B		8.0	35.3	4480	12.2	G10	✓
6	TPS/0056	13.10.2018	17.10.2018		1093-A		6.1	22.9	4569	12.0	G10	✓
7	TPS/0057	13.10.2018	17.10.2018		1093-B		7.4	28.7	4908	12.4	G9	✓
8	TPS/0058	13.10.2018	17.10.2018		1093-C		7.3	27.2	5030	10.8	G8	✓
9	TPS/0059	14.10.2018	17.10.2018		1097-A		7.4	35.6	4130	13.0	G9	✓
10	TPS/0060	14.10.2018	17.10.2018		1097-B		7.5	38.4	4020	14.1	G9	✓
11	TPS/0061	14.10.2018	17.10.2018		1097-C		7.7	35.2	5190	13.0	G8	✓
12	TPS/0062	14.10.2018	18.10.2018		1100-A		7.8	31.2	4650	14.4	G10	✓
13	TPS/0063	14.10.2018	18.10.2018		1100-B		5.9	43.7	4190	17.8	G11	✓
14	TPS/0064	15.10.2018	18.10.2018		1102		8.2	39.5	4208	13.8	G11	✓

NOTE: (i) Sample collected as per IS:6 (ii) Ash & Moisture as IS:1350 (Part-I), 1984 Reaffirmed 2003; ASTM D 7582-10
(iii) GCV as per IS:1350 (Part-II), 1970 Reaffirmed 2010; ASTM D-5865-13

(Authorized Signatory)

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पिन / PIN-826 015, झारखण्ड / Jharkhand

केन्द्रीय खनिज एवं ईंधन अनुसंधान संस्थान
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)
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CSIR-Central Institute of Mining and Fuel Research
(Council of Scientific and Industrial Research)
Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified institute

Date: 31.10.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 05.10.2018 to 07.10.2018 & 09.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/OCT/18-19/21737
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/MINE- BACHORA
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/SLC			On 60% RH & at 40°C Basis			TM%	Assessed Grade
				R.R. Quantity (MT)	R.R.No./ F. Note No.	R.R. Rake	M%	ASH%	GCV (Kcal/kg)		
1	TPS/00014	05.10.2018	08.10.2018		1054-A		7.6	32.7	4350	13.1	G13
2	TPS/00015	05.10.2018	08.10.2018		1054-B		6.9	36.7	4029	15.2	G14
3	TPS/00016	06.10.2018	09.10.2018		1066-A		6.8	37.9	4089	14.8	G14
4	TPS/00019	06.10.2018	09.10.2018		1067		7.3	35.8	4340	13.6	G13
5	TPS/00021	06.10.2018	09.10.2018		1068		7.0	40.2	3870	16.5	G13
6	TPS/00025	07.10.2018	09.10.2018		1063		7.7	35.7	3930	13.7	G12
7	TPS/00026	07.10.2018	09.10.2018		1063		8.2	31.6	4260	19.9	G13
8	TPS/00031	09.10.2018	12.10.2018		1070-A		7.8	35.5	4030	16.5	G13
9	TPS/00034	09.10.2018	12.10.2018		1070-B		7.4	36.6	3930	17.4	G12
10	TPS/00039	09.10.2018	12.10.2018		1072		7.9	35.4	4080	15.5	G12

NOTE: (i) Sample collected as per IS/ISO 18283 (Part-6), 2006 Reaffirmed 2013; ASTM D 7582-12
(ii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2008; ASTM D-5865-12

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date: 31.10.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 06.10.2018/09.10.2018 to 08.10.2018/12.10.2018 & 15.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.: CIMFR/RHN/TPS/UNLDA/CTU/18-19/21749
COAL COMPANY : CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING: BCM
POWER UTILITY: NCPC, DADRI

Sl. No.	Sample ID	Date of Collection	Date of Preparation	Railway Rake/Siding			On 60% RH & at 40°C Basis				Adjusted Grade
				R.R. Quantity (MT)	R.R.No./T. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)	TM%	
1	TPS/0618	06.10.2018	09.10.2018		1856		7.4	40.7	4520	17.8	G10
2	TPS/0620	06.10.2018	09.10.2018		1859		7.3	40.7	3600	18.8	G13
3	TPS/0627	08.10.2018	09.10.2018		1864-A		8.2	35.8	4200	15.2	G10
4	TPS/0628	08.10.2018	09.10.2018		1864-B		8.2	36.3	4040	14.0	G11
5	TPS/0632	08.10.2018	10.10.2018		1869-B		8.3	40.7	3700	15.7	G13
6	TPS/0635	09.10.2018	12.10.2018		1873-A		7.3	34.4	4100	16.8	G11
7	TPS/0636	10.10.2018	12.10.2018		1873-B		8.7	42.8	3570	14.9	G13
8	TPS/0638	10.10.2018	13.10.2018		1876-A		7.3	33.3	4230	15.3	G11
9	TPS/0639	10.10.2018	13.10.2018		1876-B		8.2	36.3	4100	16.9	G11
10	TPS/0642	12.10.2018	16.10.2018		1880-B		8.6	38.2	3900	13.6	G12
11	TPS/0647	15.10.2018	18.10.2018		1883-A		8.6	36.3	4010	22.7	G9
12	TPS/0648	15.10.2018	18.10.2018		1883-B		8.1	35.6	3600	17.6	G8

NOTE: (i) Sample collected as per IS:6 (Part 4), 1994 Reaffirmed 2012/ ASTM D 7002-19
(ii) GCV as per IS:1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date:31.10.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 06.10.2018,09.10.2018,11.10.2018,& 15.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/RHN/TPS/UNLD/DC/7/18-19/21/39
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-KDH
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R/R.No./ F. Note No.	R.R. Rate	M%	ASH%	GCV (Kcal/kg)		
3*	TPS/68622	06.10.2018	09.10.2018		1003-C		6.9	38.9	3894	15.5	G12
4	TPS/68637	09.10.2018	12.10.2018		1072-A		7.3	36.4	4040	11.1	G11
5	TPS/68638	09.10.2018	12.10.2018		1075-B		6.4	38.7	3840	17.5	G12
6	TPS/68640	09.10.2018	12.10.2018		1074-A		6.7	35.6	4130	13.1	G12
7	TPS/68643	09.10.2018	12.10.2018		1074-B		5.9	43.7	3918	16.3	G13
8	TPS/69939	13.10.2018	17.10.2018		1094-A		8.2	34.9	4120	19.7	G11
9*	TPS/69940	13.10.2018	17.10.2018		1094-B		8.6	38.3	4000	13.7	G12
10	TPS/69949	15.10.2018	18.10.2018		1104-A		8.0	34.6	4130	12.8	G11
11	TPS/69950	15.10.2018	18.10.2018		1104-B		8.8	33.1	4060	14.5	G10

NOTE: (i) Sample collected as per ISO 18283 & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2010/ ASTM D 7582-15
(ii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Date: 24.10.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period: 04.10.2018 to 05.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/OCT/18-19/21524
POWER UTILITY- NCPP, DADRI
COAL COMPANY- EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			Quality: RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (MT)	R.R.No./ P. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/6720	04.10.2018	08.10.2018		1044-A		8.5	27.9	5700	16.1	G6
2	TPS/6721	04.10.2018	08.10.2018		1044-B		8.9	19.5	5620	43.1	G6
3	TPS/6722	04.10.2018	08.10.2018		1044-C		8.1	28.2	5620	15.6	G6
4	TPS/6723	04.10.2018	08.10.2018		1044-D		8.1	18.4	5670	14.7	G6
5	TPS/6724	04.10.2018	08.10.2018		1046-A		7.4	26.9	5620	14.5	G6
6	TPS/6726	04.10.2018	08.10.2018		1046-C		8.5	28.1	5700	12.6	G6
7	TPS/6727	04.10.2018	08.10.2018		1046-D		7.7	23.5	5620	14.9	G6
8	TPS/6728	04.10.2018	08.10.2018		1046-E		8.4	33.9	4720	19.0	G7
9	TPS/6729	04.10.2018	08.10.2018		1046-F		8.4	38.0	4200	13.9	G10
10	TPS/6730	05.10.2018	08.10.2018		1053-A		8.9	25.2	4565	56.5	G11
11	TPS/6731	05.10.2018	08.10.2018		1053-B		8.1	38.6	4150	53.2	G11
12	TPS/6732	05.10.2018	08.10.2018		1053-C		8.4	29.6	4800	16.9	G8

NOTE: (i) Sample collected as per ISO 50 Sampling & Measures as IS 1350 (Part-1), 1984 Reaffirmed 2002 & ASTM D 7582-15
(ii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D 5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date: 28.10.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 30.09.2018 to 05.10.2018 & 05.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/OCU/18-19/21525
POWER UTILITY- NCPP, BADRI
COAL COMPANY- NORTHERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			Quality (Gross Basis)				Analysis Result
				R.R. Quantity (MT)	R.R.No./T. Note No.	R.R. Date	M%	Ash%	GCV (Kcal/kg)		
1	TPS/6760	30.09.2018	03.10.2018		1903		7.4	36.9	4438	12.8	[illegible]
2	TPS/6764	01.10.2018	03.10.2018		1924		7.1	35.8	4460	12.4	[illegible]
3	TPS/6768	01.10.2018	04.10.2018		1949		6.9	35.6	4386	12.1	[illegible]
4	TPS/6766	03.10.2018	05.10.2018		1920		7.2	41.1	3949	13.6	[illegible]
5	TPS/6767	03.10.2018	05.10.2018		1925		7.2	37.0	3986	13.0	[illegible]
6	TPS/6769	05.10.2018	05.10.2018		1947		7.3	34.7	4040	13.0	[illegible]
7	TPS/6770	05.10.2018	06.10.2018		1948		6.6	35.3	4050	12.4	[illegible]

NOTE: (i) Sample collected as per IS/ISO, (ii) Ash & Moisture as IS: 1350 (Part-I), 1984 Reaffirmed 2003/ ASTM D-7582-15
(iii) GCV as per IS: 1350 (Part-II), 1970 Reaffirmed 2006/ ASTM D-5865-13

(Authorised Signatory)

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Date: 22.10.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 06.09.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/RBPN/TPS/UNLOADED/18-19/II/741
POWER UTILITY- NCPP, DADRI
COAL COMPANY- EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (MT)	R.R.No./ E.Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/00642	06.10.2018	09.10.2018		1860-A		6.8	34.1	4300	10.4	G11
2	TPS/00643	06.10.2018	09.10.2018		1860-B		7.8	41.4	4200	15.4	G12

NOTE: (i) Sample collected as per IS/ISO (ii) Sub & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2012/ ASTM D-7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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Council of Scientific and Industrial Research)
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Date: 31.10.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 05.10.2018,08.10.2018 & 14.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/OCT/18-19/21342
POWER UTILITY- NCPP, DADRI
COAL COMPANY- NORTHERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% GM & at 60% Moisture			Ash%	Analytical Grade
				R.R. Quantity (Mt)	R.R.No./CC Slip No.	R.R. Date	60%	3.00%	GCV (kcal/kg)		
1	TPS/DG/1	08.10.2018	10.10.2018		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	TPS/DG/2	08.10.2018	10.10.2018		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	TPS/DG/3	08.10.2018	10.10.2018		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	TPS/DG/4	14.10.2018	17.10.2018		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NOTE: (1) Sample collected as per IS/6 (Part-1), 1984 Reaffirmed 2010 & Moisture as IS 1350 (Part-1), 1984 Reaffirmed 2010. ASTM D 7582-12
(2) GCV as per IS 1350 (Part-II), 1959 Reaffirmed 2008. ASTM D-5865-12

(Authorized Signatory)

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Document certified by PAMSEL
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सीएसआईआर-केन्द्रीय खनन एवं ईंधन अनुसंधान संस्थान
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)
बरवा रोड, धनबाद - 826 015, झारखण्ड, भारत
एक आई एस ओ 9001 प्रमाणित संस्थान

CSIR-Central Institute of Mining and Fuel Research
(Council of Scientific and Industrial Research)
Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Date:12.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 20.10.2018 to 24.10.2018

UNLOADING END ANALYSIS REPORT

TPS-I REPORT No.- CIMFR/BIN/TPS/NUBNG/18-19/23226
CIAL COMPANY - CENTRAL COALFIELDS LIMITED
LOADING AREA:SHANG-BACHRA
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MCB			On 60% RH & at 60°C Basis				
				R.R. Diversion (Yes)	R.R.No./ E. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)	TM%	Analysed Grade
1	TPS/71017	20.10.2018	24.10.2018		1125		8.9	35.4	4329	35.6	G10
2	TPS/71018	21.10.2018	24.10.2018		1129		8.7	44.6	3978	35.8	G14
3	TPS/71019	21.10.2018	24.10.2018		1131		8.7	33.1	4358	35.7	G11
4	TPS/71022	21.10.2018	25.10.2018		1134		8.1	31.9	4319	35.0	G10
5	TPS/71023	21.10.2018	25.10.2018		1135A		8.7	38.8	4460	36.5	G10
6	TPS/71024	21.10.2018	25.10.2018		1135B		7.8	32.8	4329	36.3	G09
7	TPS/71025	22.10.2018	25.10.2018		1136A		9.1	29.9	4350	35.5	G10
8	TPS/71026	22.10.2018	25.10.2018		1136B		8.4	31.2	4328	34.9	G11
9	TPS/71027	22.10.2018	25.10.2018		1139		8.1	32.4	4398	29.2	G10
10	TPS/71030	23.10.2018	26.10.2018		1143		8.7	25.6	4430	36.3	G9
11	TPS/71031	23.10.2018	26.10.2018		1144		8.5	32.3	4340	36.4	G11
12	TPS/71032	24.10.2018	26.10.2018		1145A		9.0	35.9	4400	37.2	G10
13	TPS/71033	24.10.2018	26.10.2018		1145B		8.9	29.2	4400	35.8	G10
14	TPS/71035	24.10.2018	27.10.2018		1149		8.4	30.9	4350	34.2	G10

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part 2), 1984 Reaffirmed 2010/ ASTM D 7582-12
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-12

(Authorised Signatory)

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An ISO 9001 Certified Institute

Date: 30.10.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 02.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/HEN/TPS/UNLD/OCT/18-19/21586
POWER UTILITY- NCPP, DADRI
COAL COMPANY- EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/Mill			On 60% RH & at 40°C Basis			TM%	Assigned Grade
				R.R. Quantity (Mt)	R.R.No./ F. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/678/07	02.10.2018	04.10.2018		1035-A		7.1	31.1	4494	32.8	G10
2	TPS/679/12	02.10.2018	05.10.2018		1037-D		8.2	33.2	4198	33.7	G11

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2012/ ASTM D 7582-10
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date: 02.11.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 21.10.2019

UNLOADING END ANALYSIS REPORT

TEST REPORT No. CIMFR/DHN/TPS/UNLD/NOV/19-19/23044
COAL COMPANY - CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING- KDH
POWER UTILITY- NTPC BADHI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NGH			As 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ F. Note No.	R.R. Date	M%	A50%	GCV (Kcal/kg)		
1	TPS/71020	21.10.2019	24.10.2019		1135-A		7.1	35.2	4480	12.2	G10
2	TPS/71021	21.10.2019	24.10.2019		1135-B		8.1	38.4	4020	13.5	G10

NOTE: (i) Sample collected as per IS/A (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2013/ ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date:02.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 06.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/NOV/18-19/2097
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-NDH
POWER UTILITY-NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (MT)	R.R.No./ F. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/6622	06.10.2018	09.10.2018		1864-A		6.7	37.3	4038	13.1	G11
2	TPS/6623	06.10.2018	09.10.2018		1863-B		5.7	42.4	3590	19.8	G13

NOTE: (i) Sample collected as per FSA (ii) Ash & Moisture as IS-1350 (Part-I), 1984 Reaffirmed 2012/ ASTM D-7582-15
(iii) GCV as per IS-1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Date:02.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 08.10.2018

UNLOADING AND ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/NOV/18-19/21878
COAL COMPANY - CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING: BCN
POWER UTILITY- NTPC, BARH

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/SLDR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (MT)	R.R./Sur/ F. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS-036.30	08.10.2018	18.10.2018		1068-A		6.1	32.8	4220	15.5	G-11

NOTE: (i) Sample collected as per FSA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2012/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2016/ ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date:02.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 06.10.2018 & 09.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/NOV/18/P/23896
COAL COMPANY - CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING: BACHRA
POWER UTILITY - NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./C. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/16617	06.10.2018	09.10.2018		1025-B		6.4	38.5	2979	13.2	G12
2	TPS/16532	09.10.2018	10.10.2018		1001		8.2	38.5	3000	18.7	G12

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-I): 1984 Reaffirmed 2010/ ASTM D 7582-10
(iii) GCV as per IS 1350 (Part-II): 1970 Reaffirmed 2010/ ASTM D 5865-13

(Authorised Signatory)

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An ISO 9001 Certified Institute

Date:24.10.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 30.09.2018 to 02.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/OCT/18-19/21820
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-BACHRA
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NGR			On 60% RH & at 40 C Basis			TM%	Analysed Grade
				R.R. Quantity (MT)	R.R.No./ P. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/66980	30.09.2018	03.10.2018		1022-A		6.6	35.6	4096	14.5	G12
2	TPS/66982	30.09.2018	03.10.2018		1022-B		6.7	36.2	4098	14.8	G12
3	TPS/66983	01.10.2018	03.10.2018		1025-A		6.9	34.6	4190	15.1	G11
4	TPS/66984	01.10.2018	02.10.2018		1025-B		6.3	36.7	4060	14.3	G12
5	TPS/66985	01.10.2018	03.10.2018		1026-A		7.0	34.7	4170	15.2	G11
6	TPS/66986	01.10.2018	02.10.2018		1026-B		5.9	35.4	3940	15.3	G12
7	TPS/66987	01.10.2018	04.10.2018		1027-A		6.4	35.9	4360	17.4	G10
8	TPS/66988	01.10.2018	04.10.2018		1027-B		6.2	37.5	3930	17.3	G12
9	TPS/66989	01.10.2018	04.10.2018		1028		7.5	38.4	4320	17.1	G10
10	TPS/66990	02.10.2018	04.10.2018		1002		5.8	39.9	4020	15.7	G9

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2010/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D 5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date:24.10.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 02.10.2018 to 05.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLB/OCT/18-19(2152)
COAL COMPANY - CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-BACHRA
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/Siding			On 60% RH & at 40 C Basis			TM%	Analysed Grade
				R.H. Quantity (Mt)	R.R.No./ T. Note No.	R.H. Date	M%	A%(Dry)	GCV (Kcal/kg)		
1	TPS/66992	02.10.2018	04.10.2018		1034		6.7	21.4	4600	16.9	G10
2	TPS/66993	02.10.2018	04.10.2018		1035		6.8	35.7	4160	14.4	G13
3	TPS/66994	02.10.2018	05.10.2018		1036-A		6.8	34.5	4320	19.2	G10
4	TPS/66995	02.10.2018	05.10.2018		1036-B		7.6	31.4	4460	15.6	G10
5	TPS/66996	02.10.2018	05.10.2018		1040		6.9	37.9	3950	15.8	G13
6	TPS/66997	04.10.2018	06.10.2018		1041		6.5	24.9	4219	16.8	G11
7	TPS/66998	04.10.2018	08.10.2018		1045		7.8	22.9	5260	15.7	G7
8	TPS/66999	05.10.2018	08.10.2018		1049		6.8	30.9	4190	17.6	G11
9	TPS/67000	05.10.2018	08.10.2018		1050-A		6.8	28.8	4890	14.3	G12
10	TPS/67001	05.10.2018	08.10.2018		1050-B		7.9	28.9	4490	13.1	G10
11	TPS/67002	05.10.2018	08.10.2018		1051		6.9	28.4	4560	15.9	G13

N.B.:- * Remain delayed due to delay in sample preparation

NOTE: (i) Sample collected as per IS 436 (Part-I), 1964 Reaffirmed 2013/ ASTM D 7582-15
(ii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2018/ ASTM D-5865-13

(Authorized Signatory)

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Document Certified by Prabhat
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(Council of Scientific and Industrial Research)
Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Date:[illegible]

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period [illegible]

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/OCL/18-19/21522
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-RCM
POWER UTILITY- M/PP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (MT)	R.R.No./ E Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS64891	02.10.2018	04.10.2018		1859		7.2	31.4	4400	34.5	G10
2	TPS67002	05.10.2018	08.10.2018		1852		7.0	28.2	4170	37.0	G11

N.B.- * Result delayed due to delay in sample preparation

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2010/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

डॉ० अशोक कुमार सिंह / Dr. Ashok Kr. Singh
वरिष्ठ वैज्ञानिक तथा प्रभारी, [illegible]
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An ISO 9001 Certified Institute

Date: 24.10.2018

Analytical Results of Samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 02.10.2018 & 03.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/9489/TPS/UNLD/OCT/18-19/02535
POWER UTILITY- NCPC, BADRI
COAL COMPANY - EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR: R.R. Quantity (Mt)	R.R.No./ F. Note No.	R.R. Date	Dry 60% RH & at 40°C Basis: M%	ASH%	GCV (Kcal/kg)	TM%	Analysed Grade
1	TPS/67004	02.10.2018	04.10.2018		1030-A		5.9	32.3	3660	15.6	G9
2	TPS/67005	02.10.2018	04.10.2018		1030-B		5.4	30.8	4460	9.9	G9
3	TPS/67006	02.10.2018	04.10.2018		1030-C		5.4	32.7	4096	12.2	G9
4	TPS/67008	02.10.2018	04.10.2018		1031-B		5.1	43.8	2669	15.3	G12
5	TPS/67009	02.10.2018	05.10.2018		1037-A		6.4	38.4	4140	12.9	G11
6	TPS/67010	02.10.2018	05.10.2018		1037-B		6.5	36.7	4438	10.4	G10
7	TPS/67011	02.10.2018	05.10.2018		1037-C		4.1	42.6	3906	11.2	G12
8	TPS/67012	02.10.2018	06.10.2018		1041-A		6.1	30.7	4748	11.2	G9
9	TPS/67013	02.10.2018	06.10.2018		1041-B		5.7	34.4	4514	12.7	G10
10	TPS/67015	03.10.2018	06.10.2018		1041-C		6.8	27.4	5196	12.8	G9
11	TPS/67016	03.10.2018	06.10.2018		1042-A		6.0	43.5	3086	12.0	G12
12	TPS/67017	03.10.2018	06.10.2018		1042-B		7.2	34.2	4516	14.2	G10
13	TPS/67018	03.10.2018	06.10.2018		1042-C		4.2	38.7	4268	13.8	G11
14	TPS/67019	03.10.2018	06.10.2018		1042-D		4.5	44.9	3038	9.8	G12

NOTE: (i) Sample collected as per ISO 18283 (Part-2), 2006 Reaffirmed 2012 ASTM D 7582-15
(ii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010 ASTM D-5865-13

(Authorised Signatory)

डॉ. अशोक कुमार सिंह / Dr. Ashok Kr. Singh
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Date: [illegible]

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Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Date: 23.10.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 22.10.2018 & 24.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/NOV/18-19/2025
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/MINE-RCM
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake NCR			Gr.38% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Dispatch (Mt)	R.R.No./ P. Note No	R.R. Date	M%	A(ash)	GCV (Kcal/kg)		
1	TPS/7/1929	23.10.2018	26.10.2018		3142		4.4	28.9	3826	19.2	G12
2	TPS/7/1934	24.10.2018	27.10.2018		3148		4.5	30.8	3698	34.4	G12

NOTE: (i) Sample collected as per IS:436 (Part-I) Anth & Moisture as IS:1350 (Part-I), 1984 Reaffirmed 2010 AND M D 7082-23 (iii) GCV as per IS:1038 (Part-II), 1970 Reaffirmed 2010 ASTM D-5865-13

(Authorised Signatory)

डॉ० अशोक कुमार सिंह / Dr. Ashok Kr. Singh
मुख्य अनुसंधान अधिकारी, [illegible]
सी० एस० आई० आर०, केन्द्रीय खनन एवं ईंधन अनुसंधान संस्थान
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An ISO 9001 Certified Institute

Date: 07.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 29.10.2018 & 28.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DRN-TPS/UNLD/NOV/18-19/23412
C.O.M. COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-BACHRA
POWER UTILITY- NCPP, BADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40 C Basis			TMS%	Analysed Grade
				R.R. Quantity (MT)	R.R.No./E. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/72376	29.10.2018	01.11.2018		1171-A		8.7	32.9	4300	12.1	G12
2	TPS/72379	29.10.2018	01.11.2018		1171-B		8.1	35.6	4090	10.7	G13
3	TPS/72380	29.10.2018	01.11.2018		1173-A		8.8	33.5	4120	17.6	G14
4	TPS/72381	29.10.2018	02.11.2018		1173-B		8.1	36.9	3920	10.9	G12
5	TPS/72383	29.10.2018	02.11.2018		1175		7.6	34.7	4150	15.2	G13
6	TPS/72384	29.10.2018	02.11.2018		1177		7.5	37.2	3950	17.3	G12
7	TPS/72385	29.10.2018	02.11.2018		1178		6.7	37.3	4040	18.3	G11
8	TPS/72386	30.10.2018	02.11.2018		1179		7.2	36.9	4010	18.2	G11
9	TPS/72388	30.10.2018	02.11.2018		1181		7.3	35.9	4110	14.3	G10
10	TPS/72389	30.10.2018	02.11.2018		1184		6.3	38.3	4050	15.3	G11
11	TPS/72390	30.10.2018	02.11.2018		1185-A		7.1	34.9	4100	19.0	G11
12	TPS/72391	30.10.2018	02.11.2018		1185-B		8.1	35.8	4050	13.5	G10

NOTE: (i) Sample collected as per ISO Guide & Standard IS 1350 (Part-I), 1984 Reaffirmed 2012 ASTM D-7582-15
(ii) GCV as per IS 4359 (Part-II), 1979 Reaffirmed 2010 ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date:17.11.2018

Unofficial Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 28.10.2018 & 28.10.2018

UNLOADING AND ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLB/NOV/18-19/23403
COAL COMPANY: CENTRAL COALFIELDS LIMITED
LOADING AREA:MBNG-XGOH
POWER UTILITY: NCVP, BADHRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/WGR			On GCV basis & at 60% RH			TM%	Analysed Sample
				R.R.	R.R.No.(s)	R.R.	M%	ASH%	GCV		
1	TPS/72362	28.10.2018	28.10.2018		1153-A		8.1	28.8	4450	12.5	C1/1
2	TPS/72363	28.10.2018	29.10.2018		1153-B		7.3	36.9	3900	12.3	C1/2
3	TPS/72376	28.10.2018	01.12.2018		1160-B		7.8	35.8	3940	17.3	C1/3

NOTE: (i) Sample collected as per IS/A (II) Adj & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2010 ASTM D 5302-95
(ii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010 ASTM D-5865-13

(Authorised Signatory)

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An ISO 9001 Certified Institute

Date: 27.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 26.10.2018 to 27.10.2018 & 28.10.2018

UNLOADING ESH ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/US/2018/10/19/3414
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-BCM
POWER UTILITY- NCTPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NGR			Dry 60% RH & 35 deg C Basis			TM%	Analysed Grade
				R.R.	R.R.No./ V.	R.R.	M%	A100%	GCV		
1	TPS/12467	26.10.2018	30.10.2018		1168		7.8	33.7	4226	16.7	G10
2	TPS/12477	26.10.2018	31.10.2018		1169		8.2	27.8	4819	14.4	G9
3	TPS/12487	26.10.2018	31.10.2018		1182		7.4	27.8	4996	13.6	G10

NOTE: (i) Sample collected as per ISO 18283 & Maintained as IS 1208 (Part-I), 1984 Reaffirmed 2013/ASTM D 7582-15
(ii) GCV as per IS 1350 (Part-III), 1978 Reaffirmed 2010/ ASTM D-5865-13

(Authorised Signatory)

डॉ० अशोक कुमार सिंह / Dr. Ashok Kr. Singh
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Location: NTPC Dadri

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CSIR-Central Institute of Mining and Fuel Research
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Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Date:07.11.2018

Analytical Results of samples (from) by CSIR-CIMFR (Third Party Sampling) during the period 29.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLRNOV/18-19/2415
COAL COMPANY - CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-DCSK
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/WGN			Dry 60% RH & at 40°C Basis			EM%	Analysed Sample
				R.R.	R.R.No./ V	R.R.	A%	ASH%	GCV		
1.	TPS/7.2002	29.10.2018	05.11.2018		1874		18.8	24.5	4158	18.2	5.11

NOTE: (i) Sample collected as per FSA (i) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2003/ ASTM D 7582-15
(ii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2003/ ASTM D-5865-13

(Authorized Signatory)

डॉ० अवधेश कुमार सिंह / Dr. Avdesh K. Singh
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CSIR-Central Institute of Mining and Fuel Research
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Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Date: 17.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 25.10.2018 to 28.10.2018

ENI GASING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/MIN/TPS/ENI/LD/NOV/18-19/2476
POWER UTILITY: NCPP, DADRI
COAL COMPANY: EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of Collection	Date of Preparation	Railway Rake/Siding				On 60% RH & 38.89°C Basis			Ash%	Analysed Grade
				R.R.	R.R. No./ F. Note	R.R. Date		M%	GM%	GCV		
1	EPS/72492	25.10.2018	28.10.2018		1155-A			5.4	35.3	3819	32.6	G10
2	EPS/72501	25.10.2018	28.10.2018		1155-B			5.4	35.5	3948	34.1	G10
3	EPS/72494	25.10.2018	28.10.2018		1155-C			5.5	28.1	3298	38.8	G11
4	EPS/72495	25.10.2018	28.10.2018		1155-D			5.3	29.4	3269	38.1	G11
5	EPS/72498	26.10.2018	30.10.2018		1157-C			7.3	34.3	4076	29.1	G10
6	EPS/72499	27.10.2018	31.10.2018		1162-A			6.5	32.4	4369	25.2	G9
7	EPS/72460	27.10.2018	31.10.2018		1162-B			6.5	35.3	4366	26.5	G10
8	EPS/72461	27.10.2018	31.10.2018		1162-C			6.9	35.1	4288	23.9	G11
9	EPS/72462	28.10.2018	31.10.2018		1165-A			5.9	38.3	4030	33.6	G11
10	EPS/72463	28.10.2018	31.10.2018		1165-B			6.2	35.9	4029	34.6	G11
11	EPS/72464	28.10.2018	31.10.2018		1165-C			6.9	40.1	3938	34.3	G12

NOTE: (i) Samples collected as per IS: 436 (Part-1) Sampling of Coal & Coke. (ii) Moisture at 60 (±2) Relative Humidity & 38.89°C as per IS: 1350 (Part-1), 1984 Reaffirmed 2002. (iii) GCV as per IS: 1350 (Part-5), 1970 Reaffirmed 2002.

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Dated 17.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 29.10.2018 & 30.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLOADING/18-19/23417
POWER UTILITY- NCPP, DADRI
COAL COMPANY- EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake M.R.			On 60% RH & at 40°C Basis			TMS%	Analytical Grade
				R.R. Quantity (MT)	R.R.No/ E. Note No.	R.R. Date	M% [illegible]	ASH% [illegible]	GCV (Kcal/kg) [illegible]	TM% [illegible]	Analytical Grade [illegible]
1	TPS/72495	29.10.2018	01.11.2018		1170-A		8.9	40.5	2910	6.5	G-12
2	TPS/72496	29.10.2018	01.11.2018		1170-B		7.1	39.9	2850	8.3	G-12
3	TPS/72497	29.10.2018	01.11.2018		1171-A		8.6	37.9	4230	17.3	G-11
4	TPS/72498	29.10.2018	01.11.2018		1171-B		7.7	37.6	3920	14.8	G-12
5	TPS/72499	29.10.2018	01.11.2018		1172-A		8.1	38.0	4030	15.8	G-11
6	TPS/72410	30.10.2018	02.11.2018		1181-A		7.6	32.4	4400	15.7	G-10
7	TPS/72411	30.10.2018	02.11.2018		1181-B		6.2	36.7	4200	15.2	G-11
8	TPS/72412	30.10.2018	02.11.2018		1182-A		6.8	40.7	3970	11.3	G-12

NOTE: (1) Sample collected as per IS:436 (1) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2010 ASTM D 7582-10 and GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010 ASTM D 5865-13

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An ISO 9001 Certified Institute

Date:17.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 24.10.2018,26.10.2018,29.10.2018 & 30.10.2018

UNLOADING AND ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/NDA/18-19/2448
POWER UTILITY- NCPP, DADRI
COAL COMPANY- NORTHERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Receipt	Railway RAKE/MGR			Gross GCV (kcal/kg) basis			TM(%)	Analysed Grade
				R.R. Quantity (Mt)	R.R. No./ E. Note No.	R.R. Date	M(%)	A(%)	GCV (kcal/kg)		
1	TPS/7243	24.10.2018	27.10.2018		2162		7.9	46.5	3980	5.0	G12
2	TPS/7245	26.10.2018	30.10.2018		2138		7.4	43.6	4050	5.0	G12
3	TPS/7247	28.10.2018	02.11.2018		1150		8.0	42.6	3870	5.0	G12
4	TPS/7249	30.10.2018	02.11.2018		1166		8.7	40.5	3850	5.0	G12

NOTE: (i) Sample collected as per IS:436 (Part-I), 1964 Reaffirmed 2002 & IS:350 & 7502-15
(ii) GCV as per IS:1350 (Part-II), 1970 Reaffirmed 2016 & ASTM D5865-13

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Date:24.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period: 23.10.2018,22.10.2018 & 24.10.2018

UNLOADING AND ANALYSIS REPORT

TEST REPORT No.- CIMFR/BIN/TPS(N)/UD/NOV/18-19/2537
POWER UTILITY - NCPP, DADRI
COAL COMPANY - EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/Wagon			On 60% RH & at 40°C Basis			TMN	Analysed Grade
				R.R. Quantity (Mt)	R.R.No/ E. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/71039	21.10.2018	24.10.2018		1132-A		6.4	36.1	4178	38.6	G14
2	TPS/71043	22.10.2018	25.10.2018		1137-A		6.8	36.8	3960	37.7	G12
3	TPS/71045	24.10.2018	27.10.2018		1150-A		5.2	39.3	3946	35.5	G12
4	TPS/71049	24.10.2018	27.10.2018		1150-D		5.4	37.1	3988	35.9	G12

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D-7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date: 05.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 10.10.2018 to 12.10.2018 & 15.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/CNL/DNOV/18-19/3832
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING: BACHRA
POWER UTILITY: NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NCR			On 60% RH & at 40°C Basis			IM%	Analysis Grade
				R.R. Quantity (Mt)	R.R.No./ E. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/05925	10.10.2018	12.10.2018		1081		6.8	34.5	4308	14.5	G12
2	TPS/05926	11.10.2018	15.10.2018		1083-5		6.8	33.3	4450	14.4	G10
3	TPS/05934	12.10.2018	16.10.2018		1088-9		7.1	35.8	4098	14.8	G13
4	TPS/05936	12.10.2018	16.10.2018		1090		7.3	36.1	4220	14.8	G11
5	TPS/05945	15.10.2018	18.10.2018		1101-6		7.5	33.7	4300	18.1	G12

NOTE: (i) Sample collected as per IS(A (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2012/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1990 Reaffirmed 2016/ ASTM D-5865-13

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An ISO 9001 Certified Institute

Date:08.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 12.10.2018

UNLOADING END ANALYSIS REPORT

TPST REPORT No.- CIMFR/DHN/TPS/UNLD/NOV/18-19/2033
COAL COMPANY - CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-BCCM
POWER UTILITY - NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (MT)	R.R.No./ E-Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	T2N67931	12.10.2018	16.10.2018		1057-A		8.5	27.3	4350	12.2	G10

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NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2014/ ASTM D-3302-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2014/ ASTM D-5865-13

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An ISO 9001 Certified Institute

Date:09.11.2018

Analytical Results of samples drawn by CSIR/CIMFR (Third Party Sampling) during the period 09.10.2018

UNLOADING AND ANALYSIS REPORT

TEST REPORT No.- CIMFR/RHN/TPS/UNLD/NOV/18-19/2326
POWER UTILITY - NCPP, BADHI
COAL COMPANY - EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NICB			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (MT)	R.R.No./ F. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/70150	19.10.2018	22.10.2018		1125-A		7.8	36.1	4086	18.4	G12
2	TPS/70157	19.10.2018	22.10.2018		1125-B		6.9	33.9	4360	13.5	G10
3	TPS/70160	19.10.2018	22.10.2018		1125-C		6.1	41.8	3660	12.2	G13

NOTE: (i) Sample collected as per IS/ISO 18283 & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2012/ ASTM D-7582-10
(ii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-12

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Date:12.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period: 22.10.2018 & 22.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/360N/TPS/UNLOADING/18-19/2217
POWER UTILITY - NCPC, BADRI
COAL COMPANY - EASTERN COALFIELDS LIMITED

S. No.	Sample ID	Date of collection	Date of Preparation	Rake by Rake/MGR			On 60% IM & as-fired Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ E. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/Kg)		
1	TPS/71026	22.10.2018	24.10.2018		1128-A		7.8	35.4	4420	14.0	G11
2	TPS/71027	22.10.2018	24.10.2018		1128-B		6.3	33.5	4550	15.0	G12
3	TPS/71028	22.10.2018	24.10.2018		1128-C		6.8	36.4	4440	15.3	G10
4	TPS/71040	22.10.2018	24.10.2018		1132-B		6.9	33.7	5104	9.8	G8
5	TPS/71041	22.10.2018	24.10.2018		1132-C		6.2	28.7	5520	9.6	G6
6	TPS/71042	22.10.2018	24.10.2018		1132-D		6.8	30.4	5710	9.6	G8
7	TPS/71044	22.10.2018	25.10.2018		1137-B		6.9	32.6	4980	12.9	G10
8	TPS/71045	22.10.2018	25.10.2018		1137-C		6.5	31.4	5040	14.0	G10
9	TPS/71046	22.10.2018	25.10.2018		1138-A		5.9	32.6	4980	14.5	G10
10	TPS/71047	22.10.2018	25.10.2018		1138-B		5.5	29.3	4900	12.6	G9

NOTE: (i) Sample collected as per IS 436 (Part-I) Methods for IS 1350 (Part-I), 1984 Reaffirmed 2013 / ASTM D 7430-13
(ii) GCV as per IS 1350 (Part-III), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorised Signatory)

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An ISO 9001 Certified Institute

Date:12.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 28.10.2018,23.10.2018 & 24.10.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/NOV/18-19/2238
POWER UTILITY – NCPP, DADRI
COAL COMPANY - NORTHERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/PRR			As rec'd Basis			TM%	Sampling Grade
				R.R. Quantity (Mt)	R.R. No./T. Note No.	R.R. Date	M%	A(ad)%	GCV (kcal/kg)		
1	TPS/71056	28.10.2018	24.10.2018		1128		6.49	32.48	3980	17.3	[illegible]
2	TPS/71057	23.10.2018	24.10.2018		1141		5.9	33.3	4000	16.8	[illegible]
3	TPS/71052	24.10.2018	27.10.2018		1140		7.1	37.8	3500	18.6	[illegible]
4	TPS/71051	24.10.2018	27.10.2018		1147		5.9	34.8	3450	20.7	[illegible]

NOTE: (1) Sample collected as per ISO 18283 & Standard as IS 1350 (Part-I) & 1984 Reaffirmed 2013, IS/ISO 7935:1992
(2) GCV as per IS 1350 (Part-II) & 1990 Reaffirmed 2010, ASTM D 5865-13

(Authorised Signatory)

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An ISO 9001 Certified Institute

Date:04.11.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period [illegible]

UNLOADING END ANALYSIS REPORT

TEST REPORT No: CIMFR/GDN/ZTS/NUD/MOV/18-19/2625
COAL COMPANY: CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING: BACHRA
POWER UTILITY: NTPC BARH

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake NGR			On 60% RH & 40°C Basis			TM%	Analysed Grade
				RR Quantity (Mt)	R.R.N.G.S.P. Point No.	RR Type	M%	A(ad)%	GCV (Kcal/kg)		
1	TPS/73502	31.10.2018	03.11.2018		1287		7.5	29.9	4520	14.2	G16
2	TPS/73504	01.11.2018	05.11.2018		1194		7.2	32.6	3479	18.2	G17
3	TPS/73505	01.11.2018	05.11.2018		1197		7.4	42.7	3364	14.5	G14
4	TPS/73506	02.11.2018	05.11.2018		1197-A		7.9	39.2	3828	16.4	G13
5	TPS/73507	02.11.2018	05.11.2018		1197-B		8.4	36.2	4098	18.3	G10
6	TPS/73508	02.11.2018	05.11.2018		1196-A		8.4	34.3	4098	15.7	G12
7	TPS/73509	02.11.2018	05.11.2018		1196-B		8.5	32.6	4230	17.1	G12
8	TPS/73510	02.11.2018	06.11.2018		1199-A		7.0	35.0	3749	18.1	G14
9	TPS/73511	02.11.2018	06.11.2018		1199-B		8.6	34.8	4088	15.5	G12
10	TPS/73512	02.11.2018	06.11.2018		1200-A		7.8	35.8	3798	15.2	G12
11	TPS/73513	02.11.2018	06.11.2018		1200-B		7.7	37.9	3950	16.7	G12
12	TPS/73514	03.11.2018	06.11.2018		1192-A		8.5	31.6	4210	12.5	G13
13	TPS/73515	03.11.2018	06.11.2018		1192-B		8.6	36.1	3330	14.2	G14

NOTE: (1) Moisture collected as per ISO 5725 & Moisture as IS 1350 (Part I): 1984 Reaffirmed 2010 (2) GCV as per IS 1350 (Part II): 1970 Reaffirmed 2010 ASTM D-5865-13

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An ISO 9001 Certified Institute

Date:29.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 03.11.2018 to 05.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/NOV/18-19/2867
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-RSCHRA
POWER UTILITY- NCPP, DADRI.

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & 40°C Basis				
				R.R. Quantity (MT)	R.R.No./ T. Note No.	R.R. Date	M%	A(20%)	GCV (Kcal/kg)	VM%	Analysed Grade
1	TPS/74367	03.11.2018	07.11.2018		1202		7.3	35.4	4100	27.9	G12
2	TPS/74368	03.11.2018	07.11.2018		1205		6.5	35.0	4230	28.5	G12
3	TPS/74369	03.11.2018	07.11.2018		1206		7.0	35.3	4000	27.6	G12
4	TPS/74370	04.11.2018	07.11.2018		1207		6.5	35.2	4000	28.9	G12
5	TPS/74371	04.11.2018	07.11.2018		1208		6.9	35.4	4000	29.7	G12
6	TPS/74372	04.11.2018	07.11.2018		1210		7.3	34.7	4120	27.7	G12
7	TPS/74373	04.11.2018	07.11.2018		1213-A		6.9	36.4	4000	28.1	G12
8	TPS/74374	04.11.2018	07.11.2018		1212-B		6.7	35.4	4020	27.3	G12
9	TPS/74375	04.11.2018	08.11.2018		1213		6.9	37.0	3940	27.0	G12
10	TPS/74376	04.11.2018	08.11.2018		1214		7.2	37.7	3910	24.5	G12
11	TPS/74377	05.11.2018	09.11.2018		1217-A		7.4	35.6	4040	24.5	G12
12	TPS/74378	05.11.2018	09.11.2018		1217-B		7.8	34.3	4060	25.4	G12

NOTE: (1) Sample collected as per ISO 18283:2006 & Bureau of Indian Standards IS 1350 (Part-I), 1984 Reaffirmed 2010 ASTM D 7582-08
(2) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010 ASTM D-5865-10

(Authorized Signatory)

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Location: NTPC Dadri

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Date:25.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 05.11.2018 to 05.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.: CIMFR/DHN/TPS/UNLD/NOV/18-19/2044
COAL COMPANY- CENTRAL COAL FIELDS LIMITED
LOADING AREA/SIDING-BACHRA
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway RAKE/WGR			On 60% RH & at 40°C Basis			UM%	Analysed Grade
				R.M.	R.R.No./	R.R.	M%	A%(D)%	GCV		
1	TPS/74361	05.11.2018	09.11.2018		1220		7.5	32.0	4268	16.0	G10
2	TPS/74362	05.11.2018	09.11.2018		1221		7.2	28.4	4889	15.9	G10
3	TPS/74363	06.11.2018	09.11.2018		1222		7.8	30.4	4540	16.2	G10
4	TPS/74364	06.11.2018	10.11.2018		1226		8.4	33.4	4170	16.9	G10
5	TPS/74365	06.11.2018	10.11.2018		1228		7.7	35.5	3789	16.6	G12
6	TPS/74367	07.11.2018	10.11.2018		1232		8.2	33.9	4150	15.2	G11
7	TPS/74368	07.11.2018	10.11.2018		1233		6.6	32.0	4309	17.1	G10
8	TPS/74369	08.11.2018	12.11.2018		1235		7.0	29.4	4036	16.3	G11
9	TPS/74390	08.11.2018	12.11.2018		1236		8.9	29.4	3920	16.8	G12
10	TPS/74392	08.11.2018	12.11.2018		1239-A		8.6	30.8	4226	16.5	G10
11	TPS/74393	08.11.2018	12.11.2018		1239-B		8.7	31.4	4298	16.8	G11

NOTE: (i) Sample collected as per IS-6 (ii) Ash & Moisture as IS 1350 (Part-I) 1984 Reaffirmed 2012/ ASTM-D 7582-13 (iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2008/ ASTM D-5865-13

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Date:24.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 28.10.2018 to 01.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/NCL/DNGN/18-19/23627
POWER UTILITY- NCPP, DADRI
COAL COMPANY- NORTHERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TMS%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ E-Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/23627	28.10.2018	03.11.2018		1196		5.1	52.2	3000	22.7	G10
2	TPS/23628	31.10.2018	03.11.2018		1152		6.4	48.9	2790	21.4	G12
3	TPS/23629	01.11.2018	05.11.2018		1153		5.1	49.5	2900	18.5	G11

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D-7582-16
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-Cl

(Authorized Signatory)

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Date:[illegible]

Analysis Test Results of samples drawn by CSIR-CIMFR : Third Party Sampling during the period 08.11.2018 to 30.11.2018, 22.11.2018 to 14.12.2018

UNLOADING ENB ANALYSIS REPORT

TEST REPORT No.- CIMFR/MIN/TPS/NT/[illegible]
POWER CIRCLE:- NCPP, [illegible]
COAL COMPANY:- EASTERN COALFIELDS LIMITED

S. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NCB			Analysis [illegible] Basis				Analysed Grade
				R.R. Quantity (MT)	R.R.No./E. Note No.	R.R. Date	[illegible]	[illegible]	GCV (Kcal/kg)	[illegible]	
1	TPS/[illegible]	13.11.2018	13.11.2018		[illegible]-A		5.6	23.8	3420	5.6	[illegible]
2	TPS/[illegible]	12.11.2018	13.11.2018		[illegible]-B		4.3	48.6	3320	9.2	[illegible]
3	TPS/[illegible]	08.11.2018	13.11.2018		[illegible]-A		3.8	42.9	4320	7.1	[illegible]
4	TPS/[illegible]	08.11.2018	13.11.2018		[illegible]-B		2.8	48.9	3980	9.1	[illegible]
5	TPS/[illegible]	08.11.2018	13.11.2018		[illegible]-C		3.8	45.3	3540	8.4	[illegible]
6	TPS/[illegible]	09.11.2018	13.11.2018		[illegible]-A		8.7	32.1	4750	13.8	[illegible]
7	TPS/[illegible]	09.11.2018	13.11.2018		[illegible]-B		4.9	35.3	4520	13.8	[illegible]
8	TPS/[illegible]	09.11.2018	13.11.2018		[illegible]-C		7.9	28.8	4030	15.6	[illegible]
9	TPS/[illegible]	09.11.2018	13.11.2018		[illegible]-A		8.3	34.5	3340	9.3	[illegible]
10	TPS/[illegible]	09.11.2018	13.11.2018		[illegible]-B		9.2	36.2	4210	11.2	[illegible]
11	TPS/[illegible]	10.11.2018	14.11.2018		[illegible]-A		7.4	34.1	3490	13.7	[illegible]
12	TPS/[illegible]	10.11.2018	14.11.2018		[illegible]-B		5.8	39.0	3410	11.8	[illegible]
13	TPS/[illegible]	10.11.2018	14.11.2018		[illegible]-C		6.9	34.2	3980	10.0	[illegible]
14	TPS/[illegible]	11.11.2018	14.11.2018		[illegible]-A		6.9	35.6	[illegible]	13.1	[illegible]
15	TPS/[illegible]	11.11.2018	14.11.2018		[illegible]-B		8.4	36.2	[illegible]	11.9	[illegible]
16	TPS/[illegible]	12.11.2018	14.11.2018		[illegible]-C		3.5	23.0	[illegible]	17.3	[illegible]
17	TPS/[illegible]	13.11.2018	14.11.2018		[illegible]-A		5.3	45.1	[illegible]	20.4	[illegible]
18	TPS/[illegible]	14.11.2018	17.11.2018		[illegible]-B		4.4	25.7	[illegible]	15.5	[illegible]
19	TPS/[illegible]	14.11.2018	17.11.2018		[illegible]-A		5.9	44.5	3830	13.1	[illegible]
20	TPS/[illegible]	14.11.2018	17.11.2018		[illegible]-B		5.3	36.2	[illegible]	19.1	[illegible]
21	TPS/[illegible]	14.11.2018	17.11.2018		[illegible]-C		9.8	23.4	4870	12.0	[illegible]

NOTE: (i) Sample collected as per IS:436 (Part-1), 1964 Modified 2010 (ii) [illegible] (iii) GCV was set to 1250 (Part-II), 1990 Modified 2005 ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date:01.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 14.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No- CIMFR/DHN/TPS/CNL/D/DOC/06.19/2967
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/MINE-BANDAG
POWER UTILITY- NUTPP, HADDI

Sl. No.	Sample ID	Date of Collection	Date of Preparation	Railway Rake/MGR			Dry 60% RH & at 40°C, Basis			TM%	Analytical Grade
				B.R.	B.R.No./ F.	B.R.	M%	A 60%	GCV		
1	TPS/75603	14.11.2018	17.11.2018		1278		4.9	35.3	4768	13.0	G9
2	TPS/75604	14.11.2018	17.11.2018		1278		4.1	30.7	4868	10.2	G9

NOTE: (i) Sample collected as per ISO 10 Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D 7582-15
(ii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2018/ ASTM D-5865-13

(Authorised Signatory)

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An ISO 9001 Certified Institute

Date:03.12.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 08.11.2019 to 17.11.2019 to 23.11.2019

UNLOADING END ANALYSIS REPORT

TEST REPORT No.: CIMFR/RMN/TPS/UNLD/RKC/18/19/2869
POWER UTILITY: NCPP, DADRI
COAL COMPANY: NORTHERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/ACCR			On 60% RH & at 40°C Basis			TMS%	Analytical Grade
				R.K. Quantity (MT)	R.R.No./ P. Note No.	R.R. Date	M%	ASH%	G.C.V (K/cal/kg)		
1.	TPS/75621	08.11.2019	13.11.2019		1244		5.0	40.2	3260	11.7	G19
2	TPS/75628	10.11.2019	13.11.2019		1250		5.2	35.3	4130	14.2	G19
3.	TPS/75629	11.11.2019	14.11.2019		1254		5.2	33.8	3730	15.2	G16
4	TPS/75630	13.11.2019	14.11.2019		1255		4.6	35.8	4200	12.5	G15
5	TPS/75631	13.11.2019	15.11.2019		1257		5.0	40.1	3200	15.1	G14
6	TPS/75632	12.11.2019	16.11.2019		1265		4.0	36.5	3910	15.1	G15

NOTE: (i) Sample collected as per ISO 18283 Methods as IS 1350 (Part-I), 1984 Reaffirmed 2012/ ASTM D 7582-12 (ii) GCV as per IS 1350 (Part-III), 1970 Reaffirmed 2012/ ASTM D-5865-13

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An ISO 9001 Certified Institute

Date:03.12.2018

Analytical Results of Samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 05.10.2018 to 31.10.2018 & 01.11.2018 to 02.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/DEC/18-19/23970
POWER UTILITY- NCPP, DADRI
COAL COMPANY- BHARAT COKING COAL LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			Dry 60% RH & at 40°C Basis			TM%	Analysed G.C.V.
				R.R. Quantity (Mt)	R.R.No./ T. Note No.	R.R. Date	M%	A50%	GCV (Kcal/kg)		
1	TPS/75633	05.11.2018	12.11.2018		1242-A		1.8	39.8	4550	10.3	[illegible]
2	TPS/75634	05.11.2018	12.11.2018		1242-B		1.6	38.4	4530	10.8	[illegible]
3	TPS/75635	05.11.2018	13.11.2018		1243-C		2.0	34.3	5070	12.0	[illegible]
4	TPS/75636	13.11.2018	14.11.2018		1256-A		1.3	35.7	5060	4.3	[illegible]
5	TPS/75639	13.11.2018	14.11.2018		1266-B		1.1	40.2	4690	4.6	[illegible]
6	TPS/75640	13.11.2018	16.11.2018		1267		1.9	41.5	4560	3.1	[illegible]
7	TPS/75641	13.11.2018	16.11.2018		1273-A		1.5	38.8	4720	11.8	[illegible]
8	TPS/75642	13.11.2018	16.11.2018		1273-B		2.0	40.9	4310	12.8	[illegible]

NOTE: (i) Sample collected as per ISO 18283:2006 & Sampling as IS 1350 (Part-I), 1986 Reaffirmed 2012/ ASTM D 7582-15
(ii) GCV as per IS 4359 (Part-II), 1979 Reaffirmed 2018/ ASTM D 5865-13

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[illegible]
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Date:03.12.2018

Analytical Results of samples drawn by CMFR-CIMFR (Third Party Sampling) during the period 08.11.2018 to 14.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLOADING/18-19/3964
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING- BACHRA
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Pulverization	Railway Rake/SMGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (MT)	R.M.No./ E. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/75580	08.11.2018	12.11.2018		1242		8.0	35.0	4100	15.9	G11
2	TPS/75581	09.11.2018	13.11.2018		1245		6.6	33.6	4400	15.1	G10
3	TPS/75582	09.11.2018	13.11.2018		1247		5.6	38.1	4100	17.2	G11
4	TPS/75583	09.11.2018	13.11.2018		1249		8.6	28.4	4600	14.5	G9
5	TPS/75585	10.11.2018	14.11.2018		1251		4.8	34.6	4470	13.9	G10
6	TPS/75588	11.11.2018	15.11.2018		1255		4.1	34.1	4750	14.4	G9
7	TPS/75591	12.11.2018	16.11.2018		1263		5.5	38.9	3900	12.6	G12
8	TPS/75594	12.11.2018	16.11.2018		1264		4.9	37.8	3970	13.0	G12
9	TPS/75595	12.11.2018	16.11.2018		1266		3.6	35.1	4400	13.3	G9
10	TPS/75596	13.11.2018	16.11.2018		1270		5.3	33.8	4400	13.4	G10
11	TPS/75597	13.11.2018	16.11.2018		1272		6.1	36.2	4320	13.1	G10
12	TPS/75598	13.11.2018	16.11.2018		1272-A		6.7	36.8	4030	12.3	G11
13	TPS/75599	13.11.2018	16.11.2018		1272-B		6.4	34.3	4310	13.2	G10
14	TPS/75600	13.11.2018	17.11.2018		1274		4.6	48.8	4040	17.3	G11
15	TPS/75601	14.11.2018	17.11.2018		1275-A		3.8	38.7	4130	18.2	G10
16	TPS/75602	14.11.2018	17.11.2018		1275-B		4.3	33.9	4360	17.9	G10

NOTE: (i) Sample collected as per FSA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2012; ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010; ASTM D-5865-13

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An ISO 9001 Certified Institute

Date-03.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 18.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/THIN/TPS/NCL/DH/C/18/TE2065
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-BINJI
POWER UTILITY- NCTPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/SICR			On 60% RH & at 40°C Basis				
				R.R. Quantity (MT)	R.R.No./ T. Note No.	R.R. Date	M%	A%(d%)	GCV (Kcal/kg)	TM%	Analysed Grade
1	TPS-5584	18.11.2018	22.11.2018		13609		6.8	31.5	3850	17.5	G9

NOTE:- (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-1), 1984 Reaffirmed 2012, ASTM D-3173 (iii) GCV as per IS 4200 (Part-II), 1970 Reaffirmed 2010, ASTM D-5865-13

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An ISO 9001 Certified Institute

Date:03.12.2018

Analytical Results of samples drawn by CMDA-CSIMFR (Third Party Sampling) during the period 01.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DRN/TPS/NJAD/01/18-19/2968
COAL COMPANY:- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-KDH
POWER UTILITY- NTPC BADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NEB			Quality Bid & as per C. Tech			TM%	Declared Grade
				R.R. Quantity (Mt)	R.R./NEB/I.V. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	YPS/2586	11.11.2018	15.11.2018		1509-A		6.2	41.6	3798	34.7	G13
2	YPS/2587	11.11.2018	15.11.2018		1358-B		6.2	42.6	3818	34.4	G13
3	YPS/2588	11.11.2018	15.11.2018		1060-A		4.3	38.5	4299	31.7	G10
4	YPS/2590	11.11.2018	15.11.2018		1260-B		5.5	40.8	4029	34.5	G12

NOTE: (i) Sample collected as per ES-A (ii) Ash & Moisture as IS 1350 (Part-II), 1984 Reaffirmed 2002/ ASTM D 3302-99
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2002/ ASTM D 5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date: 01.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 07.11.2018

UNLOADING AND ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/CNCL/2018/EC/18-19/2846
COAL COMPANY - CENTRAL COAL FIELDS LIMITED
LOADING AREA/SIDING-SRB
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/SLR			On 60% RH & at 40°C Basis				
				R.R. Quantity (MT)	R.R.No./ F. Note No.	R.R. Date	M%	A(ash)%	GCV (Kcal/kg)	TM%	Analysed Grade
1	CPS/74286	07.11.2018	10.11.2018		1230		6.9	32.4	4550	8.2	G10

NOTE: (i) Sample collected as per PSA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2010/ ASTM D 7582-12 (iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D 5865-13.

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date:24.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 31.10.2018 to 02.11.2018

UNLOADING UNIT ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/NOV/18-19/23626
POWER UTILITY- NUPP, BADRI
COAL COMPANY- EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			Quality BH & at 40° C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ F. Note No.	R.R. Date	M%	ASH%	G.C.V (Kcal/Kg)		
1	TPS/23516	31.10.2018	02.11.2018		1189-A		6.8	38.3	4026	15.8	G11
2	TPS/23517	31.10.2018	03.11.2018		1189-B		6.5	35.8	4090	13.4	G10
3	TPS/23518	01.11.2018	03.11.2018		1189-C		7.3	32.8	4476	11.8	G9
4	TPS/23519	02.11.2018	03.11.2018		1191		5.4	44.8	3670	9.3	G13
5	TPS/23520	02.11.2018	05.11.2018		1196-A		7.8	34.6	4000	12.7	G11
6	TPS/23521	02.11.2018	05.11.2018		1196-B		7.0	31.4	4160	14.6	G9
7	TPS/23522	02.11.2018	05.11.2018		1196-C		7.2	30.1	4180	11.9	G9
8	TPS/23523	02.11.2018	06.11.2018		1201-A		5.8	41.3	3670	16.5	G13
9	TPS/23524	03.11.2018	06.11.2018		1201-B		6.1	37.9	4320	13.4	G10
10	TPS/23525	03.11.2018	06.11.2018		1202-C		6.2	38.8	4070	14.2	G11
11	TPS/23526	02.11.2018	06.11.2018		1203-D		4.8	46.3	3900	13.9	G13

NOTE: (i) Sample collected as per IS 436 (ii) Ash & Moisture as per IS 1350 (Part-I), 1984 Reaffirmed 2002/ ASTM D 3302-12
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date:29.11.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 08.11.2019

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLOAD/NOV/18-19/2B09
POWER UTILITY- NCPP, BADRI
COAL COMPANY- BHARAT COKING COAL LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/SICR			On 60% RH & at 40°C Basis			TM%	Assessed Grade
				R.R. Quantity (MT)	R.R.No./ E. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/74414	08.11.2019	12.11.2019		1334-A		1.8	46.7	4500	6.8	G-12
2	TPS/74415	08.11.2019	12.11.2019		1334-B		1.2	38.3	4840	6.6	G9

NOTE: (i) Sample collected as per ISS (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2015; ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010; ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date 23.12.2018

Analytical Results of samples drawn at the CMPF-CIMFR (Third Party Sampling) during the period 20.12.2018

UNLOADING ENERGY ANALYSIS REPORT

TEST REPORT No.- CMPF/CIMFR/TPS/NTL/DHFC/18-19/23616
FOR FACILITY:- NCPP, DADRI
COAL COMPANY:- NORTHERN COALFIELDS LIMITED

Sl. No.	Sample ID.	Date of collection	Date of Preparation	Railway Rake/Vessel			Gross GCV, KJ/kg at 60 C basis			Moisture	Analysed Grade
				R.R. Quantity Mt.	R.R.No./ E. Note No.	R.R. Date	M=%	ASH%	GCV (Kcal/kg)		
1	TPS/79241	20.12.2018	20.12.2018		1361		32	39.6	4419	26.5	G-10

1361

NOTE: (i) Sample collected as per PSA (ii) Ash & Moisture as IS 1350 (Part-I): 1984 Reaffirmed 2003, ASTM D-7582 (iii) GCV as per IS 1350 (Part-II): 1978 Reaffirmed 2008, ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date: 21.12.2018

Final Analysis of coal(s) drawn by CSIR-CIMFR Third Party Sampling during the period 2.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.: CIMFR/DHN/TPS/NURDEC/18/05064
COAL COMPANY: CENTRAL COALFIELDS LIMITED
LOADING AREA/DISPATCH FACILITY:
POWER UTILITY: NCTP, DADRI

Sl. No.	Sample (s)	Date of collection	Date of Preparation	Railway Bills/ MGR			On air/dry Bill & of Air C. Basis			TM%	Analysed Grade
				R.R. (Date/No. /Mt)	R.R.No./ E-Way Bill No.	R.R. Date	IM%	ASH%	GCV (Kcal/Kg)		
1	TPS NUN	2.11.2018	20.11.2018		1256-A		7.0	27.6	3920	14.1	G12

NOTE: (i) Sample collected as per PSA (Collection & Methods) as G.I.S.M (Part-I), 1984 (Reaffirmed 2013) IS:2310 & 7662 (Part-III) GCV as per IS 1350 (Part-III), 1984 (Reaffirmed 2013) IS:2309 & 5968-(1).

Dr. Sudhir
(Authorized Signatory)

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Date:23.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 22.11.2018 to 26.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.: CIMFR/DHN/TPS/UNLD/DEC/18-19/25277
COAL COMPANY: CENTRAL COALFIELDS LIMITED
LOADING AREA/MDUSG-BACHRA
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis				
				R.R. Quantity (Mt)	R.R.No./ R. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)	ESP%	Analysis Grade
1	TPS/78128	22.11.2018	24.11.2018		1331 A		6.1	37.0	4110	12.1	G11
2	TPS/78129	22.11.2018	24.11.2018		1331 B		7.0	37.2	3886	13.1	G12
3	TPS/78130	22.11.2018	24.11.2018		1333		8.2	35.7	3950	16.6	G12
4	TPS/78131	22.11.2018	26.11.2018		1334		8.9	34.3	4420	14.4	G10
5	TPS/78132	23.11.2018	26.11.2018		1336 A		7.0	39.3	3740	14.0	G12
6	TPS/78133	23.11.2018	26.11.2018		1336 B		7.0	38.6	3860	13.9	G11
7	TPS/78134	23.11.2018	26.11.2018		1337		6.2	35.0	3260	15.2	G14
8	TPS/78136	24.11.2018	26.11.2018		1339		6.8	36.7	3606	12.7	G13
9	TPS/78137	25.11.2018	26.11.2018		1342 A		7.2	40.4	3680	13.6	G13
10	TPS/78140	25.11.2018	26.11.2018		1345		7.8	37.5	3990	15.5	G12
11	TPS/78141	26.11.2018	26.11.2018		1347		8.0	32.8	4356	14.1	G10

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2020/ ASTM D-5865-13

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Date: 11.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 28.11.2018, 26.11.2018 to 26.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/NUD/DEC/18-19/25279
COAL COMPANY - CENTRAL COAL FIELDS LIMITED
LOADING AREA/SIDING-RCM
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ E-Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/78135	23.11.2018	26.11.2018		1338		7.5	35.1	4080	28.9	G11
2	TPS/78139	23.11.2018	26.11.2018		1343		8.0	36.4	4500	25.0	G10
3	TPS/78142	26.11.2018	28.11.2018		1348		7.9	32.7	4319	25.2	G11

NOTE: (i) Sample collected as per ISA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D-7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

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Date: 03.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 22.11.2018 to 25.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/RBN/TPS/UNLOADE/18-19/15279
POWER UTILITY - NUPP, DADRI
COAL COMPANY - EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/AGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ F. Note No.	R.R. Date	M%	A%(ad)%	GCV (Kcal/kg)		
1	TPS/78143	22.11.2018	24.11.2018		1332 A		6.6	38.3	4350	15.2	G11
2	TPS/78144	22.11.2018	24.11.2018		1332 B		5.9	38.2	4310	15.2	G11
3	TPS/78145	22.11.2018	24.11.2018		1332 C		5.5	44.5	3660	13.8	G13
4	TPS/78146	23.11.2018	26.11.2018		1335 A		4.9	37.9	4970	13.1	G9
5	TPS/78147	23.11.2018	26.11.2018		1335 B		6.5	28.9	5060	12.3	G8
6	TPS/78148	23.11.2018	26.11.2018		1335 C		5.1	24.5	5200	13.8	G7
7	TPS/78149	24.11.2018	26.11.2018		1340 B		5.1	43.9	3800	15.5	G13
8	TPS/78150	25.11.2018	28.11.2018		1344 A		5.6	46.9	3860	15.2	G13
9	TPS/78152	25.11.2018	28.11.2018		1344 B		6.8	33.7	4400	16.3	G10

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2010/ ASTM D-7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

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Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Date:04.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 05.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/DEC/18-19/23976
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-BACHRA
POWER UTILITY- NCPP, BADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TMS%	Analysed Grade
				R.H. Quantity (MT)	R.R.No./ F. Note No.	R.R. Date	M%	ASH%	G.C.V (Kcal/kg)		
1	TPS/74391	05.11.2018	12.11.2018		1237		4.8	34.3	4618	14.8	G8

NOTE- (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-1), 1984 Reaffirmed 2012/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date:04.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 06.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/CNL/DRT/18-19/23976
POWER UTILITY- NCPP, DADRI
COAL COMPANY- EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/SIDB			On AD% 301 & at 40 C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ F. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/24401	06.11.2018	09.11.2018		12284C		8.5	37.5	4140	14.5	C-D

NOTE: (i) Sample collected as per ISO, (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D-7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-11

(Authorized Signatory)

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Bank Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Date:04.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 08.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CSIR/DHN/TPS/UNLD/DEC/18-19/21077
POWER UTILITY- NCTP, DADRI
COAL COMPANY- NORTHERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ E. Note No.	R.R. Date	M%	AM%	GCV (Kcal/kg)		
1	TPS/74413	08.11.2018	12.11.2018		1238		4.2	35.9	4160	21.5	G12

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1260 (Part-I), 1984 Reaffirmed 2012/ ASTM D-7582-14 (iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13.

(Authorized Signatory)

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Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Date:08.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 08.11.2018 & 28.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- COMP/CIMFR/TPS/UNLD/DEC/18-19/25166
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-SRP
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Supply and Grade
				R.R. Quantity (Mt)	R.R.No./ F. Note No.	R.R. Date	M%	A%(%)	GCV (Kcal/kg)		
1	TPS/77833	08.11.2018	28.11.2018		1301		2.0	36.0	3860	16.5	G8
2	TPS/77843	28.11.2018	22.11.2018		1315		2.5	34.0	5000	5.6	G8

NOTE: (i) Sample collected as per ESA (ii) Ash & Moisture as IS 1350 (Part-I): 1984 Reaffirmed 2013/ ASTM D-7582-15
(iii) GCV as per IS 1350 (Part-II): 1970 Reaffirmed 2018/ ASTM D-5865-13

(Authorized Signatory)

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Date: 08.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 31.10.2018 & 01.11.2018

UNLOADING AND ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/NLD/NOV/18-19/20018
POWER UTILITY- NCPP, DADRI
COAL COMPANY- NORTHERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NLR			On 60% RH & 40 0 C Basis			TM%	Analysis Grade
				R.R. Quantity (Mt)	R.R./NLR Note No.	R.R. Date	M%	A%(O)	GCV (Kcal/kg)		
1	TPS/73529	31.10.2018	02.11.2018		1190		4.9	34.0	3796	14.6	G16
2	TPS/73530	01.11.2018	03.11.2018		1191		4.5	46.4	3060	14.4	G12

NOTE: (i) Sample collected as per FSA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2008/ ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date: 25.11.2019

Analytical Results of Samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 05.11.2019

UNLOADING END ANALYSIS REPORT

TEST REPORT No.: CIMFR/SMN/TPS/CNLJENOV/18-19/23545
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-RCM
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Pulverisation	Railway Rake/MGR			On 60% RH & at 40°C Basis			CM%	Sized-cut Grade
				R.R.	R.R.No/C.E.	R.R.	M%	ASH%	GCV		
1	TPS/7439	05.11.2018	06.11.2018		1318		8.2	33.9	4156	17.8	G11
2	TPS/7386	05.11.2018	06.11.2018		1319		8.2	35.7	3940	15.8	G12

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2012/ ASTM D 5982-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D 5865-13

(Authorised Signatory)

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Date:25.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 05.11.2018 & 06.11.2018

UNLOADING ENB ANALYSIS REPORT

TEST REPORT No:- CIMFR/ISO/N/TPS/NUC/NOV/18-19/23047
POWER UTILITY - NCPS, DADRI
COAL COMPANY - EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis				
				R.R. Quantity (MT)	R.R.No./ F. Note No.	R.R. Date	M%	AM%	GCV (Kcal/Kg)	TM%	Analysed Grade
1	TPS/74394	05.11.2018	08.11.2018		1215-A		6.0	40.4	2920	12.8	G12
2	TPS/74395	05.11.2018	09.11.2018		1215-B		5.7	39.2	4020	12.0	G8
3	TPS/74396	05.11.2018	09.11.2018		1215-C		5.6	42.6	3790	12.6	G12
4	TPS/74397	05.11.2018	09.11.2018		1215-D		7.0	36.1	3960	14.4	G12
5	TPS/74398	05.11.2018	09.11.2018		1216		5.2	47.6	3500	11.7	G14
6	TPS/74399	06.11.2018	09.11.2018		1324-A		4.7	38.3	4020	13.0	G10
7	TPS/74400	06.11.2018	09.11.2018		1324-B		5.2	34.8	4510	12.0	G10
8	TPS/74401	06.11.2018	09.11.2018		1225-A		3.2	44.5	4120	11.9	G10
9	TPS/74402	06.11.2018	09.11.2018		1225-B		3.3	48.9	3860	7.8	G12
10	TPS/74403	06.11.2018	10.11.2018		1229-A		5.1	38.4	4500	9.7	G10
11	TPS/74403	06.11.2018	10.11.2018		1229-B		3.8	38.1	4464	12.0	G10
12	TPS/74404	06.11.2018	10.11.2018		1229-C		6.7	42.8	3990	13.3	G12

NOTE:- (1) Sample collected as per IS/ISO 18283 & Moisture as per IS 1350 (Part-II), 1984 Reaffirmed 2012/ ASTM D 3302-05 (for GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

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An ISO 9001 Certified institute

Date 28.11.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 03.11.2018 to 14.11.2018, 20.11.2018 & 27.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/NUD/NOV/18-19/2848
POWER UTILITY- NCPP, DADRI
COAL COMPANY- NORTHERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake ID/B			Gross GCV Bid @ as rec'd Basis			TM%	Analysed Grade
				R.R. Quantity (MT)	R.R.No./ F. Note No.	R.R. Date	M%	A(20)%	GCV (Kcal/kg)		
1	TPS/74467	03.11.2018	07.11.2018		1204		8.2	36.2	3929	19.0	G10
2	TPS/74484	04.11.2018	07.11.2018		1209		6.5	30.4	3880	15.7	G12
3	TPS/74409	04.11.2018	07.11.2018		1211		8.2	33.5	4020	11.2	G10
4	TPS/74410	05.11.2018	08.11.2018		1222		7.3	32.1	4400	15.4	G10
5	TPS/74431	06.11.2018	10.11.2018		1227		6.9	30.1	3810	18.6	G12
6	TPS/74432	07.11.2018	10.11.2018		1228		5.9	31.9	4190	18.9	G10

NOTE: (i) Sample collected as per TS-9 (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2003/ ASTM D-3302-13 (iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2004/ ASTM D-5865-13

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Barwa Road, Dhanbad - 828 015, Jharkhand, India
An ISO 9001 Certified Institute

Date:[illegible]

[illegible] results of samples received to CSIR-CIMFR [illegible] Sampling during the period [illegible]

UNLOADING END ANALYSIS REPORT

TEST REPORT No. - CFDFR/DHN/FSK/NE/[illegible]
POWER UTILITY: NCTPP, DADRI
COAL COMPANY - EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of Collection	Date of Preparation	Railway Rake/SEZ/Ot			On 60% RH & at 40°C Basis				
				R.R. Quantity (Mt)	R.R.No./C.E. Note No.	R.R. Date	M%	AM2%	G.C.V. (Kcal/Kg)	S%(A)	Analysis Grade
1	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NOTE: (1) Sample [illegible] as per ISO [illegible] & [illegible] as IS [illegible] (Part-I), 1984 Modified 2002. ASTM D [illegible] (2) GCV as per IS [illegible] (Part II), 1970 Modified 2010. ASTM D [illegible]

(Authorised Signatory)

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सीएसआईआर-केंद्रीय खनन एवं ईंधन अनुसंधान संस्थान
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An ISO 9001 Certified Institute

Date: 24.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 30.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/DECC/18-19/25678
POWER UTILITY- NCTPP, DADRI
COAL COMPANY- BHARAT COKING COAL LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & 40°C Basis			TMS	Analysed Grade
				R.R. Quantity (MT)	R.R.No./ F. Slate No.	R.R. Date	M%	A50%	GCV (Kcal/kg)		
1	TPS/00556	30.11.2018	04.12.2018		13574		2.3	35.6	3650	5.8	G13
2	TPS/00557	30.11.2018	04.12.2018		13575		1.6	37.8	4020	5.3	G10

NOTE: (i) Sample collected as per FSA (ii) Ash & Moisture as IS 1350 (Part-I): 1984 Reaffirmed 2013/ ASTM D 7582-15 (iii) GCV as per IS 1350 (Part II): 1970 Reaffirmed 2018/ ASTM D-5865-13

(Authorised Signatory)

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Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Date: 24.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 29.11.2018 to 01.12.2018 & 03.12.2018

UNLOADING ENQUIRY ANALYSIS REPORT

TEST REPORT No.- CSIR/DHN/TPS/UNLD/DEC/18-19/25672
POWER UTILITY- NCPP, DADRI
COAL COMPANY- EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake NCR			On GAR's Bill & at ab / Basis				
				R.R. Quantity (MT)	R.R.No./ E. Note No.	R.R. Date	M%	A%(D)%	GCV (Kcal/Kg)	TM%	Assessed Grade
1	TPS/80575	29.11.2018	01.12.2018		1367-B		7.6	35.1	4140	13.7	G8
2	TPS/80576	29.11.2018	01.12.2018		1367-C		8.9	36.6	3870	13.5	G10
3	TPS/80580	29.11.2018	01.12.2018		1378-A		8.2	38.4	3780	13.8	G10
4	TPS/80581	29.11.2018	01.12.2018		1378-B		8.9	38.6	3580	13.2	G10
5	TPS/80582	29.11.2018	01.12.2018		1379-C		8.1	38.9	3580	14.0	G10
6	TPS/80596	01.12.2018	03.12.2018		1382-A		6.0	33.1	4670	13.2	G10
7	TPS/80598	01.12.2018	03.12.2018		1382-C		6.3	33.9	4620	13.7	G10
8	TPS/80604	02.12.2018	03.12.2018		1386-B		7.0	38.0	3740	13.4	G8
9	TPS/80605	02.12.2018	03.12.2018		1386-C		6.8	38.5	4440	14.1	G10
10	TPS/80606	02.12.2018	03.12.2018		1386-D		7.0	38.0	4010	13.2	G8

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-I)-1984 Reaffirmed 2014 ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2006 ISO 5981 D-5865-12

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date: 24.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 29.11.2018 to 02.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.: CIMFR/DAV/TPS/UNLD/DEC/18-19/206/3
COAL COMPANY: CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING: BACHRA
POWER UTILITY: NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake NIGH			On dry basis at 40°C Basis				
				R.R. Quantity (Mt)	R.R.No./ P. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)	TM%	Analysis Grade
1	TPS/DO/77	29.11.2018	01.12.2018		1368-A		7.4	38.2	3868	17.8	G12
2	TPS/DO/78	29.11.2018	01.12.2018		1363-B		7.3	34.3	4379	15.1	G11
3	TPS/DO/80	29.11.2018	01.12.2018		1371		7.7	36.9	4239	13.7	G12
4	TPS/DO/84	29.11.2018	04.12.2018		1372		7.2	37.8	3939	16.4	G12
5	TPS/DO/85	30.11.2018	04.12.2018		1373		7.4	36.4	4020	17.1	G12
6	TPS/DO/88	30.11.2018	04.12.2018		1376		6.4	37.6	4040	14.5	G12
7	TPS/DO/89	30.11.2018	04.12.2018		1377-A		4.8	34.8	4290	17.1	G10
8	TPS/DO/90	30.11.2018	04.12.2018		1377-B		4.1	40.1	4170	14.7	G11
9	TPS/DO/93	01.12.2018	04.12.2018		1380		7.3	33.3	4250	18.6	G11
10	TPS/DO/94	01.12.2018	05.12.2018		1381-A		8.4	31.7	4210	14.3	G10
11	TPS/DO/95	01.12.2018	05.12.2018		1381-B		8.8	34.1	4080	12.7	G11
12	TPS/DO/97	01.12.2018	05.12.2018		1383		8.3	38.4	4080	13.5	G10
13	TPS/DO/99	02.12.2018	05.12.2018		1384		6.8	35.6	4040	16.3	G11
14	TPS/DO/87	01.12.2018	06.12.2018		1387		7.7	32.2	4140	14.3	G10
15	TPS/DO/12	03.12.2018	06.12.2018		1391		7.8	30.3	4439	18.7	G10

NOTE: (i) Sample collected as per ISO 18283 (ii) Sub & Moisture as IS 4156 (Part-I), 1984 Reaffirmed 2003, ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-I), 1970 Reaffirmed 2010, ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date: 02.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 15.11.2018 to 16.11.2018 to 17.11.2018 to 28.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.: CIMFR/DHN/TPS/UNLD/DEC/18-19/25298
COAL COMPANY : CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-BACHRA
POWER UTILITY-NCTPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On arrival basis at 40°C Basis			TM%	Analysed Details
				R.R. Quantity (Mts)	R.R.No./T. Note No.	R.R. Date	M%	Ash%	GCV (Kcal/Kg)		
1.	TPS/77823	15.11.2018	19.11.2018		1283-B		7.7	28.2	4016	13.4	GX
2.	TPS/77824	16.11.2018	19.11.2018		1288		5.3	27.1	4388	15.1	[illegible]
3.	TPS/77825	16.11.2018	20.11.2018		1293-B		6.8	25.9	5240	13.2	[illegible]
4.	TPS/77834	16.11.2018	20.11.2018		1302		5.0	25.6	4456	16.8	[illegible]
5.	TPS/77845	20.11.2018	22.11.2018		1318		3.5	35.2	4782	15.6	[illegible]

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D-7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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Ref:CIT/2018

Analytical Results of samples drawn by CSIR-CIMFR Third Party Sampling during the period, 12.11.2018 & 13.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.: CIMFR/DRN/TPS/NUD/DEC/18-1925494
POWER UTILITY- NCPP, DADRI
COAL COMPANY- EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railways Rake Sl.n.R			Gm 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (MT)	R.R.No./ P. Note No.	R.R. Date	M%	ASH%	GCV (kcal/kg)		
1	1195/75619	12.11.2018	16.11.2018		1203		5.6	33.7	4968	11.0	G-11 ✓
2	1196/76620	13.11.2018	16.11.2018		1244/A		5.3	35.8	4739	5.6	G-12 ✓
3	1195/75621	13.11.2018	16.11.2018		1265/B		5.5	46.7	4539	6.5	G-13 ✓

NOTE: (i) Sample collected as per IS 436 (iii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013 ASTM D-7582-12
(iii) GCV as per IS 1350 (Part II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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Date: 15.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 16.11.2018 & 13.11.2018

UNLOADING AND ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/NL/01DEC/18-19/25493
POWER UTILITY - NCPP, DADRI
COAL COMPANY- BHARAT COKING COAL LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			Dry basis, Bill & at 60° C Basis			TM%	Analysed Grade
				S.R. Quantity (Mt)	R.R.No./ F. Note No.	R.R. Date	Ash%	VM%	GCV (Kcal/kg)		
1	TPS/7636	16.11.2018	14.11.2018		1133-A		28	19.8	3680	4.5	G13
2	TPS/7637	16.11.2018	14.11.2018		1193-B		32	24.8	4470	3.4	G10
3	TPS/7640	13.11.2018	16.11.2018		1273-C		28	18.2	3870	5.5	G12
4	TPS/7641	13.11.2018	16.11.2018		1273-D		31.8	18.1	3640	5.6	G12

NOTE: Q-Sample collected as per ISO 5070 & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2012/ ASTM D-7582-12
(b) GCV as per IS 1350 (Part-III), 1978 Reaffirmed 2010/ ASTM D-5865-13

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Location: [illegible]

केन्द्रीय खान और ईंधन अनुसंधान संस्थान
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)
बरवा रोड, धनबाद - 826 015, झारखण्ड, भारत
एक आई एस ओ 9001 प्रमाणित संस्थान

CSIR-Central Institute of Mining and Fuel Research
(Council of Scientific and Industrial Research)
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An ISO 9001 Certified Institute

Date: 18.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 25.11.2018

UNLOADING END ANALYSIS REPORT

TASI REPORT No.- CIMFR/TPS/UNLOADING/18-19/2858
POWER UTILITY- NCPE, BADDI
COAL COMPANY- NORTHERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ C Note No.	R.R. Date	M%	ASH%	G.C.V (Kcal/Kg)		
1	19/5/18/54	25.11.2018	26.11.2018		1341		3.3	34.8	3630	19.3	G15

NOTE: (i) Sample collected as per USA (or Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D 7582-15) (ii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Dated 06.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 29.11.2018

ANALYSIS AND ANALYSIS REPORT

TEST REPORT No.: CSIR/CIMFR/TPSA NO.18/DEC/18-19/15485
POWER UTILITY: NCTPP, DADRI
COAL COMPANY: BHARAT COKING COAL LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Wagon SECR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./T. Note No.	R.R. Date	M%	AM%	GCV (Kcal/kg)		
1	TPS78155	29.11.2018	29.11.2018		1386/A		3.6	40.4	4506	3.0	G10
2	TPS78156	29.11.2018	29.11.2018		1360/B		2.3	42.5	4248	4.3	G11

NOTE: (i) Sample collected as per ISO 18283 Anl & Moisture as IS 5350 (Part-I), 1984 Reaffirmed 2013/ ASTM D 7582-15
(ii) GCV as per IS 4200 (Part-II), 1970 Reaffirmed 2016/ ASTM D 5865-13

(Authorised Signatory)

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An ISO 9001 Certified Institute

Date: 18.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 27.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/BRN/TPS/NLB/ECC/18-19/25415
POWER UTILITY- NCPP, BADDI
COAL COMPANY- EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NGR			On 60% RH & at 40° C Basis			TM%	Analysed Grade
				R/R Quantity (MT)	R/R No./ L. Note No.	R/R Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/7940	27.11.2018	29.11.2018		1352-D		1.9	32.4	3330	13.4	G14

NOTE: (i) Sample collected as per ISSA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2018/ ASTM D-7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2018/ ASTM D-5865-13

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An ISO 9001 Certified Institute

Date-28.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 25.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLB/DEC/18-19/25487
POWER UTILITY- NCPC, BARH
COAL COMPANY - EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NGR			On 60% RH & at 40°C Basis			TM%	Analysed Sample
				R.R. Quantity (MT)	R.R.No./ E. Note No.	R.R. Date	M%	A%adb	GCV (Kcal/kg)		
1	TPS/25152	25.11.2018	28.11.2018		15816 C		3.5	46.8	4721	36.5	G13

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part I), 1984 (Reaffirmed 2010) ASTM D-7582-15 (iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date:14.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 25.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No:- CIMFR/DHN/TPS/UNLD/DEC/18-19/2068
COAL COMPANY:- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-BACHORA
POWER UTILITY - NCTP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (MT)	R.R.No./ F. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/7428	25.11.2018	26.11.2018		1242 R		7.4	37.9	3959	16.2	G12

NOTE: (i) Sample collected as per ISO. (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2003/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2003/ ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date:14.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 24.11.2018.

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/DEC/18-19/25308
POWER UTILITY - NCPP, DADRI
COAL COMPANY : EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NGR			On 60% RH & at 40 C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ F. Note No.	R.R. Date	M%	Ash%	GCV (kcal/kg)		
1	TPS/78/49	24.11.2018	26.11.2018		LI40 A		6.3	37.8	4890	10.5	G11

NOTE: (i) Sample collected as per ISA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2012/ ASTM D-7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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CSIR-Central Institute Of Mining & Fuel Research,

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Date: 25.11.2018

Analytical Results of samples drawn for CSIR-CIMFR (Third Party Sampling) during the period 26.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.: CSIR/CIMFR/TPS/NEW/LOADE/26.11/2018
PURCHASER COMPANY : CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING: BCM
POWER UTILITY : NTPC/BADRE

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			Dry 60% RH & at 40°C Basis			TM%	Coal grade
				R.R. Origin (Stn)	R.R. No./C.F. Note No.	R.R. Date	M%	A%(D)	GCV (Kcal/kg)		
1	TPS/71321	26.11.2018	30.11.2018		CMA		4.3	33.4	3620	19.7	G11

NOTE: (i) Sample collected as per IS 436 (Part-1), 1964 Reaffirmed 2003 ANNEX-B Table-1
(ii) GCV as per IS 1353 (Part-II), 1976 Reaffirmed 2010 ANNEX-D Table-D

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Date: 24.12.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 29.11.2019 to 12.12.2019 & 03.12.2019

UNLOADING AND ANALYSIS REPORT

TEST REPORT No.- CTI/HR/MIN/DPSL/NLD/DEC/19-20/874
COAL COMPANY - CENTRAL COALFIELDS LIMITED
LOADING AREA/MINE-BLM
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			Quality (Ash & as-rec. Basis)			EM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ I. Note No.	R.R. Date	M%	A(ad)%	GCV (Kcal/kg)		
1	TPS/50579	29.11.2019	01.12.2019		1369		8.1	34.3	4339	33.5	G10
2	TPS/50591	01.12.2019	04.12.2019		1378		7.7	38.7	3449	38.2	G10
3	TPS/50600	03.12.2019	06.12.2019		1388		7.5	39.6	3099	39.6	G10

NOTE: (i) Sample collected as per IS:436 (Pt-1) & ASTM D-7582-15
(ii) GCV as per IS:1350 (Part-II)-1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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Dated:07.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 18.11.2018,19.11.2018 & 21.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/DEC/18-13/25146
POWER UTILITY- SUPP, BADHI
COAL COMPANY- EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Room			TM%	Analysed Grade
				R.R. Quantity (Nt)	R.R.No./ T. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/77071	18.11.2018	21.11.2018		1309		5.2	32.8	3829	11.6	G13
2	TPS/77072	19.11.2018	21.11.2018		1309-A		2.9	32.1	3250	8.4	G14
3	TPS/77073	19.11.2018	21.11.2018		1309-B		2.4	33.8	3604	8.5	G13
4	TPS/77074	19.11.2018	21.11.2018		1309-C		2.6	33.5	3238	9.6	G14
5	TPS/77075	19.11.2018	22.11.2018		1312-A		5.8	35.8	4329	15.3	G10
6	TPS/77076	19.11.2018	22.11.2018		1312-B		6.5	37.5	4040	15.2	G10
7	TPS/77077	19.11.2018	22.11.2018		1313-A		6.7	36.8	4770	13.0	G9
8	TPS/77078	19.11.2018	22.11.2018		1313-B		6.4	39.3	3900	13.3	G12
9	TPS/77079	19.11.2018	22.11.2018		1313-C		6.8	33.6	4430	12.3	G10
10	TPS/77080	21.11.2018	23.11.2018		1325-A		7.8	35.4	4300	10.9	G12
11	TPS/77081	21.11.2018	23.11.2018		1325-B		6.7	29.8	4790	10.1	G9
12	TPS/77082	21.11.2018	23.11.2018		1325-C		7.3	36.7	4090	10.6	G9

NOTE: (i) Sample collected as per IS:436 (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D 7582-14
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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CSIR Central Institute Of Mining & Fuel Research
(Gov. Of India, Ministry
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Document Verified by [illegible]

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An ISO 9001 Certified Institute

Date:07.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 15.11.2018,16.11.2018,20.11.2018 & 22.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.: CIMFR/DRN/TPS/NUD/DEC/18-19/25029
POWER UTILITY- NCPP, DADRI
COAL COMPANY- NORTHERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. (January 1900)	R.R.No./ F. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/77003	15.11.2018	19.11.2018		1287		5.1	41.8	3936	15.2	G10
2	TPS/77004	16.11.2018	19.11.2018		1298		2.7	46.9	4478	15.1	G10
3	TPS/77005	16.11.2018	20.11.2018		1291		5.9	37.6	4118	13.1	G10
4	TPS/77006	20.11.2018	22.11.2018		1314		6.2	38.1	4020	16.3	G11
5	TPS/77007	20.11.2018	22.11.2018		1317		6.0	38.1	3950	16.3	G11
6	TPS/77008	22.11.2018	23.11.2018		1326		5.7	37.2	3956	16.8	G11

NOTE: (i) Sample collected as per ISO (Sl.Ink & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013) ASTM D 7582-15
(ii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010) ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date:8/ 12.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 16/11.2018 & 19/11.2018

UNLOADING AND ANALYSIS REPORTS

TEST REPORT No.: CIMFR/TRIP/PSU/NL DORC/18-19/25170
POWER UTILITY- NCPP, DADRI
COAL COMPANY- BHARAT COKING COAL LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On ADTs 105 & at 40°C Basis			TM%	Analysed Grade
				B.N.	R.R.No./ F.	R.R.	M%	ASH%	G.C.V		
1	TPS/77009	16.11.2018	19.11.2018		1249-A		4.3	42.9	4418	3.0	G10
2	TPS/77010	16.11.2018	19.11.2018		1281-B		3.4	39.6	4710	3.0	G9
3	TPS/77011	19.11.2018	21.11.2018		1305-A		5.0	40.1	3920	5.3	G12
4	TPS/77012	19.11.2018	21.11.2018		1306-B		3.0	40.5	4369	3.0	G12
5	TPS/77013	19.11.2018	21.11.2018		1306-C		2.9	36.8	4618	3.0	G9

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture at IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D 7582-15
(iii) G.C.V as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865/13

(Authorised Signatory)

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Dated 07.12.2018

Analysed Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 19.11.2018 to 22.11.2018

UNLOADING END ANALYSIS REPORT

TSM REPORT No.- CIMFR/DHN/TPS/UNLD/001 /28.11/2018
COAL COMPANY - CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-BACHRA
POWER UTILITY - NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/ MGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R.	R.R.No./ T.	R.R.	M%	ASH%	G.C.V		
1	TPS/7842	19.11.2018	20.11.2018		1311		7.6	35.7	4090	17.4	G11
2	TPS/7844	20.11.2018	22.11.2018		1316		6.8	36.1	4250	16.6	G11
3	TPS/7846	20.11.2018	22.11.2018		1319-A		6.4	36.8	4070	16.7	G11
4	TPS/7847	20.11.2018	22.11.2018		1319-B		7.1	35.8	4100	15.1	G11
5	TPS/7848	20.11.2018	22.11.2018		1320		6.7	35.2	4150	17.2	G11
6	TPS/7849	20.11.2018	22.11.2018		1321-A		6.8	33.8	4230	19.8	G11
7	TPS/7850	20.11.2018	22.11.2018		1321-B		7.2	32.4	4320	19.2	G10
8	TPS/7851	21.11.2018	23.11.2018		1322-A		6.5	34.4	4230	21.3	G11
9	TPS/7852	21.11.2018	23.11.2018		1322-B		6.1	33.7	4140	18.8	G11
10	TPS/7853	21.11.2018	24.11.2018		1324		6.7	32.4	4440	16.7	G10
11	TPS/7855	22.11.2018	24.11.2018		1327		7.4	33.9	4360	14.4	G10
12	TPS/7856	22.11.2018	24.11.2018		1328		6.4	32.6	4380	14.4	G10
13	TPS/7858	22.11.2018	24.11.2018		1330-A		6.2	36.0	3400	16.2	G11
14	TPS/7859	22.11.2018	24.11.2018		1330-B		6.2	35.5	4140	16.2	G11

NOTE: (i) Sample collected as per ISO (ii) Arb & Moisture as IS 1350 (Part I), 1984 Reaffirmed 2013/ ASTM D 7582-15
(iii) GCV as per IS 1353 (Part-II), 1991 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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Date:07.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 25.11.2018 to 17.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No:- CSIR/CIMFR/TPS/UNLD/DEC/28-19/20172
POWER UTILITY:- NCPP, DADRI
COAL COMPANY:- EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Nos)	R.R.No./ E. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
2	TPS/77861	15.11.2018	19.11.2018		1285-A		5.4	35.8	4390	14.1	G-10
2	TPS/77862	15.11.2018	19.11.2018		1285-B		5.6	46.2	4020	11.7	G-11
3	TPS/77863	15.11.2018	19.11.2018		1285-C		5.5	35.8	4380	11.7	G-10
4	TPS/77864	16.11.2018	20.11.2018		1292-A		6.2	35.4	4460	10.4	G-10
5	TPS/77865	16.11.2018	20.11.2018		1292-B		5.9	35.0	4450	11.3	G-10
6	TPS/77866	16.11.2018	20.11.2018		1292-C		6.5	37.3	4420	11.9	G-10
7	TPS/77867	17.11.2018	20.11.2018		1296		5.2	34.0	4460	9.8	G-10
8	TPS/77868	17.11.2018	20.11.2018		1298-A		5.5	35.5	4490	12.4	G-10
9	TPS/77869	17.11.2018	20.11.2018		1298-B		5.1	36.5	4320	10.7	G-10
10	TPS/77870	17.11.2018	20.11.2018		1298-C		5.3	35.5	4350	12.1	G-10

NOTE: (1) Sample collected as per IS:436 (Part-I): 1986 Reaffirmed 2018; ASTM D-7582-12
(2) GCV as per IS:1350 (Part-II), 1970 Reaffirmed 2018; ASTM D-5865-13

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An ISO 9001 Certified Institute

Date:07.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 15.11.2018 to 18.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/ENL/DEC/18-19/25164
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/MINE/ BACHRA
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Tt)	R.R.No./ F. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/77820	15.11.2018	29.11.2018		1255-A		6.8	37.3	4020	15.8	G11
2	TPS/77823	15.11.2018	19.11.2018		1286		7.4	36.4	4080	16.4	G12
3	TPS/77825	16.11.2018	20.11.2018		1295-A		8.4	39.0	4460	15.1	G10
4	TPS/77827	16.11.2018	20.11.2018		1254		6.2	38.1	4060	14.7	G11
5	TPS/77828	16.11.2018	20.11.2018		1295		8.1	33.7	4270	16.1	G11
6	TPS/77829	17.11.2018	20.11.2018		1297-A		6.5	35.8	4280	15.8	G11
7	TPS/77830	17.11.2018	20.11.2018		1297-B		7.4	35.1	4086	17.1	G10
8	TPS/77832	18.11.2018	20.11.2018		1300		6.8	37.4	4090	16.2	G11
9	TPS/77835	18.11.2018	21.11.2018		1303-A		7.3	34.6	4210	17.3	G11
10	TPS/77836	18.11.2018	21.11.2018		1303-B		4.1	36.5	4014	16.1	G10
11	TPS/77838	18.11.2018	21.11.2018		1305		4.1	35.7	4020	15.4	G9
12	TPS/77839	19.11.2018	21.11.2018		1307-A		4.9	37.7	4280	16.1	G11
13	TPS/77840	18.11.2018	21.11.2018		1307-B		6.7	36.9	4070	16.1	G11

NOTE: (i) Sample collected as per ISO 18283 & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2012 ASTM D 7582-15
(ii) GCV as per IS 1350 (Part-III), 1970 Reaffirmed 2010/ ASTM D-5865-13

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Date:07.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 14.11.2018 to 15.11.2018, 17.11.2018 to 19.11.2018, 19.11.2018 to 21.11.2018 & 22.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/CNL/DEC/18-19/25165
COAL COMPANY:- CENTRAL COAL FIELDS LIMITED
LOADING AREA/SIDING:-BCN
POWER UTILITY:- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/Siding			The 60% RH & at 40 C Basis			TMS	Analysed Grade
				R.R.	R.R.No./Z.	R.R.	M%	ASH%	G.C.V		
1	TPS/7919	14.11.2018	19.11.2018		1200		5.4	34.1	4960	22.6	G10
2	TPS/7819	15.11.2018	19.11.2018		1201		5.2	31.2	5250	11.4	G9
3	TPS/7822	15.11.2018	19.11.2018		1204		6.6	30.7	4770	16.5	G9
4	TPS/7903	17.11.2018	20.11.2018		1209		6.7	27.9	4800	18.6	G9
5	TPS/7937	18.11.2018	21.11.2018		1304		8.1	30.7	4400	18.7	G10
6	TPS/7944	19.11.2018	21.11.2018		1310		7.7	36.9	4050	15.2	G11
7	TPS/7953	21.11.2018	23.11.2018		1352		7.3	32.9	4270	16.3	G11
8	TPS/7957	22.11.2018	24.11.2018		1329		8.9	36.5	5140	11.7	G8

NOTE:- (i) Sample collected as per ISO Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2012/ ASTM D-7582-12 and GCV as per IS 4500 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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सीआईआर-केंद्रीय खनन एवं ईंधन अनुसंधान संस्थान
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An ISO 9001 Certified Institute

Date:8.12.2018

Analytical Results of Samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 15.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/CNL/DOR/C18-19/2367
COAL COMPANY - CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-BANDAG
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			F.M%	Analytical Grade
				R.R. Quantity (MT)	R.R.No./ E Mail No.	R.R. Date	M%	Ash%	GCV (Kcal/kg)		
1	TPS/7Nos	15.11.2018	19.11.2018		1252		3.3	28.2	5260	9.6	C/S

NOTE- (i) Sample collected as per FSA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2018/ ASTM D-5865-13

(Authorized Signatory)

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Date:29.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 29.11.2018 to 03.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/DEC/18-19/25017
POWER UTILITY- NCPP, DADRI
COAL COMPANY- EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ P. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/30574	29.11.2018	01.12.2018		1367-A		4.7	48.5	2360	14.3	G17
2	TPS/30597	01.12.2018	05.12.2018		1382-B		5.3	33.1	4200	12.6	G11
3	TPS/30601	02.12.2018	05.12.2018		1385-A		5.3	47.9	3229	12.8	G14
4	TPS/30602	02.12.2018	05.12.2018		1385-B		3.5	42.9	4080	9.8	G11
5	TPS/30603	03.12.2018	06.12.2018		1386-A		7.1	33.7	4319	12.6	G10
6	TPS/30610	03.12.2018	06.12.2018		1390-A		5.5	46.6	3250	9.3	G14
7	TPS/30611	03.12.2018	06.12.2018		1390-B		5.4	41.5	3488	7.8	G13
8	TPS/30612	03.12.2018	06.12.2018		1390-C		5.9	41.2	3770	11.9	G12

NOTE: (i) Sample collected as per ISO. (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D-7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2013/ ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date:07.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 28.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/RC/OB-19/25412
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-KOB
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Pronounciation	Railway Rake/WGR			On 60% RH & at 40 C Basis			TMS%	Analysed Grade
				R.R.	R.R.No./ F.	R.R.	M%	ASH%	GCV		
1	TPS/78333	28.11.2018	30.11.2018		1360-A		6.9	42.8	2500	12.0	G12
2	TPS/78333	28.11.2018	30.11.2018		1360-B		5.6	44.3	3400	11.7	G12
3	TPS/78333	28.11.2018	30.11.2018		1360-C		6.9	39.8	3040	11.5	G12

NOTE: (i) Sample collected as per FSA (II) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D-7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorised Signatory)

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An ISO 9001 Certified Institute

Date:17.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 27.11.2018 & 28.11.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/DEC/18-19/15414
POWER UTILITY - NCPP, DADRI
COAL COMPANY- BHARAT COKING COAL LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NCR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (MT)	R.R.No./ E Note No.	R.R. Date	M%	Ash%	GCV (Kcal/kg)		
1	TPS/70340	27.11.2018	29.11.2018		1363		1.9	48.7	2520	4.5	C-18
2	TPS/70341	28.11.2018	30.11.2018		1364		2.0	48.9	4370	5.0	C-18

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part II), 1970 Reaffirmed 2010/ ASTM D-5865-13

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An ISO 9001 Certified Institute

Date: 27.12.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 26.11.2019 to 29.11.2019

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/DEC/18-19/2541
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-BACHRA
POWER UTILITY- NCPP, BATHI

Sl. No.	Sample ID	Date of Collection	Date of Preparation	Railway Rake/WGR			On 60% RH & at 40°C Basis			TMC%	Analysed Grade
				R.R.	R.R.No./ F.	R.R.	M%	ASH%	GCV		
1	TPS/79219	26.11.2019	28.11.2019		1349		5.5	39.1	3720	14.9	G12
2	TPS/79220	26.11.2019	28.11.2019		1350-A		8.4	35.8	3920	16.6	G12
3	TPS/79221	26.11.2019	28.11.2019		1350-B		8.4	35.7	3920	14.5	G12
4	TPS/79222	26.11.2019	29.11.2019		1351-A		7.9	36.7	3910	15.6	G12
5	TPS/79223	26.11.2019	29.11.2019		1351-B		7.8	36.1	3910	15.8	G12
6	TPS/79224	27.11.2019	29.11.2019		1354		8.4	35.2	3900	14.7	G12
7	TPS/79227	27.11.2019	29.11.2019		1356-B		7.9	35.4	4010	14.3	G12
8	TPS/79228	27.11.2019	30.11.2019		1357		8.6	36.7	4100	16.8	G10
9	TPS/79230	27.11.2019	30.11.2019		1359		7.9	33.5	4150	14.9	G14
10	TPS/79234	28.11.2019	30.11.2019		1362		9.3	41.8	3690	15.7	G13
11	TPS/79236	28.11.2019	30.11.2019		1365-A		8.3	39.9	4000	15.0	G10
12	TPS/79237	28.11.2019	30.11.2019		1365-B		7.1	36.9	4020	13.7	G14
13	TPS/79238	29.11.2019	30.11.2019		1366-A		7.3	35.5	4050	14.2	G09
14	TPS/79239	29.11.2019	30.11.2019		1366-B		8.0	39.3	4070	14.8	G08

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-2), 1984 Reaffirmed 2013/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date:17.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 27.11.2018.

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMF&DHN/TPS/UNLD/DEC18-19/B412
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-BCNE
POWER UTILITY- NTPC HAZIRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/SICR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R.	R.R.No./	R.R.	M%	ASH%	GCV		
1	TPS/79325	27.11.2018	28.11.2018		1355		7.3	38.7	3860	16.5	G12
2	TPS/79326	27.11.2018	30.11.2018		1356		7.3	37.3	3878	15.4	G12

NOTE: (i) Sample collected as per ISA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2010/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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Date:02.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 08.12.2018 to 11.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/CNLD/GAN/18-20/022
COAL COMPANY:- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-BACHRA
POWER UTILITY- NUPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ T. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/02472	08.12.2018	11.12.2018		1424		7.9	36.8	4020	18.8	G11
2	TPS/02473	08.12.2018	11.12.2018		1425-A		7.2	35.1	3980	16.4	G12
3	TPS/02474	08.12.2018	11.12.2018		1425-B		7.9	34.1	4170	17.6	G11
4	TPS/02478	09.12.2018	11.12.2018		1428-A		7.8	39.2	3880	17.8	G12
5	TPS/02479	09.12.2018	11.12.2018		1428-B		4.8	43.7	3780	18.7	G12
6	TPS/02482	09.12.2018	11.12.2018		1430		6.0	39.8	3980	18.1	G12
7	TPS/02488	10.12.2018	11.12.2018		1436		6.0	40.2	3730	18.8	G12
8	TPS/02489	10.12.2018	11.12.2018		1436-A		8.8	42.6	4040	17.9	G11
9	TPS/02490	10.12.2018	11.12.2018		1436-B		7.8	39.3	4080	17.8	G11
10	TPS/02491	10.12.2018	12.12.2018		1437		7.4	36.9	4030	19.4	G11
11	TPS/02492	10.12.2018	12.12.2018		1438		8.0	32.8	4210	17.8	G11
12	TPS/02495	11.12.2018	12.12.2018		1440-A		3.8	41.8	4190	16.1	G11
13	TPS/02496	11.12.2018	12.12.2018		1440-B		8.4	39.3	4420	16.9	G10
14	TPS/02497	11.12.2018	12.12.2018		1441		7.8	33.3	4250	16.8	G11
15	TPS/02500	11.12.2018	12.12.2018		1444		8.5	39.7	4400	16.8	G10
16	TPS/02501	11.12.2018	12.12.2018		1445-A		8.8	39.7	4410	16.7	G10
17	TPS/02502	11.12.2018	12.12.2018		1445-B		8.8	39.4	4430	17.8	G10

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-I) 1984 Reaffirmed 2012/ ASTM D 7582-15 (iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D 5865-13

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An ISO 9001 Certified Institute

Date 02.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 09.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPSA/NUDG/UNLD-20433
COAL COMPANY - CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-KEJU
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40 C Basis			TS(%)	Assessed Grade
				R.R. Quantity (Mt)	R.R.No./ F. Note No.	R.R. Date	M(%)	ASH(%)	GCV (Kcal/kg)		
1	TPS/82484	09.12.2018	11.12.2018		1432		2.8	44.6	4820	5.2	G11

NOTE: (i) Sample collected as per ISA (ii) Ash & Moisture at IS 1350 (Part I), 1984 Reaffirmed 2018/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2018/ ASTM D-5865-13

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Analytical Results of samples drawn by CSIR-CIMFM (Third Party Sampling) during the period 01.12.2018 & 02.12.2018

Date: 28.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/DEC'18-19/29016
COAL COMPANY:- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-BACHRA
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/Wagon			On 60% RH & at 40°C Basis			TMS%	Analysed Grade
				R.K. Quantity (Mt)	R.R.No./E. Note No.	R.K. Date	M%	A(60)%	GCV (Kcal/kg)		
1	TPS/86692	01.12.2018	04.12.2018		12F9		7.2	33.1	4420	17.3	G38
2	TPS/86614	02.12.2018	06.12.2018		12H2		7.2	36.8	3830	22.1	G32

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2012/ ASTM D-7582-15 (iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2018/ ASTM D-5865-13

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Date:04.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 04.12.2018 to 06.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No. - CIMFR/SHENTPS/UNLD/JAN/19/00091
POWER UTILITY - NCPP, DADRI
COAL COMPANY - NORTHERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R.	R.R.No./F.	S.R.	M%	ASH%	GCV		
1	TPS/01482	04.12.2018	08.12.2018		1400		7.5	32.9	4380	23.7	G10
2	TPS/01483	04.12.2018	08.12.2018		1401		7.9	28.1	4920	21.2	G8
3	TPS/01496	05.12.2018	09.12.2018		1406		7.7	29.5	4640	14.6	G9
4	TPS/01498	06.12.2018	10.12.2018		1412		6.5	36.8	4120	16.8	G11
5	TPS/01502	06.12.2018	10.12.2018		1415		8.8	34.6	4100	23.8	G11

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1979 Reaffirmed 2016/ ASTM D-5865-13

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An ISO 9001 Certified Institute

Date:04.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 04.12.2018 to 07.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/JAN/19-20/002
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-BACHRA
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 60°C Basis				
				R.R. Quantity (MT)	R.R.No./ E. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)	TM%	Assigned Grade
1	TPS/01472	04.12.2018	07.12.2018		1394		7.5	29.3	3750	15.8	G12
2	TPS/01474	04.12.2018	07.12.2018		1395		7.8	29.2	4600	17.1	G10
3	TPS/01475	04.12.2018	07.12.2018		1396		9.2	28.5	4520	17.6	G10
4	TPS/01476	04.12.2018	07.12.2018		1397		8.2	22.7	4700	14.9	G11
5	TPS/01477	04.12.2018	07.12.2018		1398-A		7.3	26.3	4620	14.6	G9
6	TPS/01478	04.12.2018	07.12.2018		1398-B		8.0	27.3	4660	16.2	G9
7	TPS/01484	05.12.2018	08.12.2018		1402		7.5	34.7	4370	16.7	G14
8	TPS/01485	05.12.2018	08.12.2018		1403-A		7.4	33.7	4240	18.2	G11
9	TPS/01486	05.12.2018	08.12.2018		1403-B		7.4	33.6	4250	18.8	G11
10	TPS/01489	05.12.2018	08.12.2018		1405		7.6	34.9	4270	18.8	G11
11	TPS/01494	06.12.2018	10.12.2018		1409		7.3	28.2	4720	18.4	G9
12	TPS/01497	06.12.2018	10.12.2018		1411		3.0	35.4	4400	18.7	G14
13	TPS/01499	06.12.2018	10.12.2018		1413		8.0	33.2	4130	16.7	G11
14	TPS/01501	07.12.2018	10.12.2018		1418		8.8	28.1	4890	18.1	G10
15	TPS/01513	07.12.2018	10.12.2018		1422		6.6	32.6	5400	20.1	G7

NOTE: (i) Sample collected as per ISO Sub & Guidelines of IS 1350 (Part-I), 1984 Reaffirmed 2012/ ASTM D 7582-15
(ii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2016/ ASTM D-5865-13

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Date:04.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 06.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHNTPS/UNLD/JAN/19-20/002
COAL COMPANY:- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-KDH
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ T. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1.	TPS/01500	06.12.2018	10.12.2018		1414-A		5.8	47.4	3939	14.2	G12
2.	TPS/01501	06.12.2018	10.12.2018		1414/B		6.1	32.8	4278	12.8	G11

NOTE: (i) Sample collected as per IS6A (ii) Anl & Statistics as IS 1350 (Part-I), 1984 Reaffirmed 2012/ ASTM D 7582-15
(iii) GCV as per IS 1348 (Part II), 1974 Reaffirmed 2010/ ASTM D-5865-13

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Date:04.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 06.12.2018 & 07.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DBN/TPS/UNLD/JAN/19-20/004
COAL COMPANY:- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-RCN
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID.	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Nt)	R.R.No./ F-Note No.	R.R. Date	M%	A50%	GCV (Kcal/kg)		
1	TPS/01491	06.12.2018	10.12.2018		1407		8.3	32.0	4369	17.8	G10
2	TPS/01503	06.12.2018	10.12.2018		1476		7.8	32.4	4329	14.7	G10
3	TPS/01541	07.12.2018	10.12.2018		1420		7.3	33.1	4398	15.1	G11

NOTE: (i) Sample collected as per FSA (ii) Ash & Moisture as IS 1350 (Part-I), ISO Reaffirmed 2012/ ASTM D 7582-15
(iii) GCV as per IS 1356 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

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Date:04.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 16.12.2018

UNLOADING AND ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/JAN/18-28/086
POWER UTILITY- NCPP, DADRI
COAL COMPANY- BHARAT COKING COAL LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Assigned Grade
				R.R. Quantity (MT)	R.R.No./ F. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/Kg)		
1	TPS/82494	16.12.2018	17.12.2018		1426-B		3.9	43.2	4299	3.9	G11

NOTE: (i) Sample collected as per PSA (ii) Ash & Moisture as IS 1260 (Part-I), 1994 Reaffirmed 2012/ ASTM D-7582-15 (iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13.

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Date:04.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 12.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DRN/TPS/UNLD/JAN/19-20/007
POWER UTILITY- NCPP, DADRI
COAL COMPANY- EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NGR				On 60% RH & at 40 C Basis			TM%	Analytical Grade
				R.R. Quantity (MT)	R.R.No./ E. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/Kg)			
1.	TPS/12503	12.12.2018	13.12.2018		1446-A		6.5	34.1	4350		16.8	G10

NOTE: (i) Sample collected as per FSA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865/5-13

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सीएसआईआर-केंद्रीय खनन एवं ईंधन अनुसंधान संस्थान
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)
बरवा रोड, धनबाद - 826 015, झारखंड, भारत
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CSIR-Central Institute of Mining and Fuel Research
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Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Date:04.01.2019

Analysed Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 03.12.2018,04.12.2018,06.07.2018 & 07.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/JAN/18-20/009
POWER UTILITY- NCPP, BADRI
COAL COMPANY- EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/ECR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (MT)	R.R.No./ E. Note No.	R.R. Date	M%	A/M%	GCV (Kcal/kg)		
1	TPS/01470	03.12.2018	07.12.2018		1398-A		5.8	28.8	4980	14.2	G8
2	TPS/01471	03.12.2018	07.12.2018		1398-B		6.1	30.4	3930	15.5	G12
3	TPS/01472	03.12.2018	07.12.2018		1395-C		6.2	33.1	4400	12.1	G10
4	TPS/01479	04.12.2018	08.12.2018		1399-A		6.8	35.8	4470	14.6	G10
5	TPS/01480	04.12.2018	08.12.2018		1399-B		6.3	36.9	4140	12.3	G11
6	TPS/01481	04.12.2018	08.12.2018		1396-C		7.5	31.8	4590	15.2	G10
7	TPS/01492	06.12.2018	10.12.2018		1408-A		8.1	30.6	4310	16.2	G10
8	TPS/01493	06.12.2018	10.12.2018		1408-B		3.4	42.7	4020	8.5	G14
9	TPS/01504	07.12.2018	10.12.2018		1407-A		8.7	23.3	5290	12.6	G7
10	TPS/01505	07.12.2018	10.12.2018		1407-B		6.2	34.1	4470	12.2	G10
11	TPS/01506	07.12.2018	10.12.2018		1407-C		6.4	33.8	4400	5.8	G10
12	TPS/01508	07.12.2018	10.12.2018		1410-A		6.4	27.4	5050	16.8	G8
13	TPS/01509	07.12.2018	10.12.2018		1410-B		6.6	31.2	4890	13.5	G8
14	TPS/01510	07.12.2018	10.12.2018		1410-C		5.8	28.4	4420	12.8	G8

NOTE: (i) Sample collected as per IS:436 (Part-1), 1964 Reaffirmed 2004/ ASTM D-7582-12
(ii) GCV as per IS:1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorised Signatory)

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An ISO 9001 Certified Institute

Date:02.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 11.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLOADING/18-36/024
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-BANDAG
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ F. Note No.	R.R. Date	M%	A60%	GCV (Kcal/kg)		
1	TPS/30/499	11.12.2018	12.12.2018		1443		4.1	16.8	4820	9.5	G13

NOTE: (i) Sample collected as per FSA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2010/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-III), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date:02.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 05.12.2018 & 19.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/JAN/19-20/025
POWER UTILITY- NCPP, DADRI
COAL COMPANY- BHARAT COKING COAL LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NG/R			On 60% RH & at 40°C Basis			TMS	Analysed Grade
				R.R.	R.R.No./ R.	R.R.	M%	ASH%	GCV		
1	TPS/32476	08.12.2018	11.12.2018		1427-A		2.1	44.4	3919	4.8	G12
2	TPS/32477	09.12.2018	11.12.2018		1427-B		2.0	44.4	4160	5.2	G11
3	TPS/32493	18.12.2018	12.12.2018		1429-A		1.7	43.1	4389	2.9	G10

NOTE: (i) Sample collected as per ISO. (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2012/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2016/ ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date:02.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 09.12.2018 to 11.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLOADAN/01-18/026
POWER UTILITY- NCPP, DADRI
COAL COMPANY- NORTHERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MCR			On 60% RH & at 40°C Basis				
				R.R. Quantity (Mt)	R.R.No./ E. Note No.	R.R. Date	M%	A%(D)%	GCV (Kcal/kg)	IM%	Analysed Grade
1	TPS/02475	09.12.2018	11.12.2018		1426		7.2	36.7	3960	37.4	G12
2	TPS/02483	09.12.2018	11.12.2018		1437		7.1	47.2	3150	35.7	G14
3	TPS/02487	10.12.2018	11.12.2018		1454		5.1	38.1	3880	38.9	G12
4	TPS/02498	11.12.2018	12.12.2018		1441		7.5	33.4	4200	36.7	G11

NOTE: (i) Sample collected as per PSA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2012; ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010; ASTM D-5865-12

(Authorised Signatory)

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An ISO 9001 Certified Institute

Date:02.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 09.12.2018,10.12.2018 & 12.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/JAN19-20027
POWER UTILITY- NCPP, DADRI
COAL COMPANY- EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of Collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R.	R.R.No./ E. Note	R.R. Date	M%	ASH%	GCV		
1	TPS/02480	09.12.2018	11.12.2018		1429-A		2.2	48.7	4000	12.7	G11
2	TPS/02481	09.12.2018	11.12.2018		1429-B		2.9	47.1	3900	4.7	G12
3	TPS/02485	10.12.2018	11.12.2018		1433-A		3.7	53.0	3940	13.4	G13
4	TPS/02486	10.12.2018	11.12.2018		1433-B		3.5	53.4	3940	18.1	G13
5	TPS/02504	12.12.2018	13.12.2018		1446-B		5.2	49.6	3500	14.2	G14
6	TPS/02505	12.12.2018	13.12.2018		1446-C		5.1	45.6	3540	14.3	G12

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2018/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2016/ ASTM D-5865-13

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Date:08.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 12.12.2018,14.12.2018,17.12.2018 & 18.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/JAN/2019/09
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING- RCM
POWER UTILITY- NCPP, DADRI

Sl.No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/SICR			Dry 60% RH & at 40°C Basis				
				R.R. Quantity (Mt)	R.R.No./ S. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)	IM%	Analysed Grade
1	TPS/8574	12.12.2018	13.12.2018		1468		8.7	38.9	4349	15.8	G10
2	TPS/8597	14.12.2018	17.12.2018		1403		8.3	33.1	4219	16.4	G11
3	TPS/8614	17.12.2018	18.12.2018		1473		5.7	34.2	3838	16.1	G8
4	TPS/8631	18.12.2018	20.12.2018		1479		5.3	43.2	3468	17.9	G14

NOTE: (i) Sample collected as per IS&A (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D 7582-12
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2018/ ASTM D-5865-13

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Date:29.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 29.11.2018 to 03.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/DEC/18-19/25017
POWER UTILITY- NCPP, DADRI
COAL COMPANY- EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ P. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/30574	29.11.2018	01.12.2018		1367-A		4.7	48.5	2360	14.3	G17
2	TPS/30597	01.12.2018	05.12.2018		1382-B		5.3	33.1	4200	12.6	G11
3	TPS/30601	02.12.2018	05.12.2018		1385-A		5.3	47.9	3229	12.8	G14
4	TPS/30602	02.12.2018	05.12.2018		1385-B		3.5	42.9	4080	9.8	G11
5	TPS/30603	03.12.2018	06.12.2018		1386-A		7.1	33.7	4319	12.6	G10
6	TPS/30610	03.12.2018	06.12.2018		1390-A		5.5	46.6	3250	9.3	G14
7	TPS/30611	03.12.2018	06.12.2018		1390-B		5.4	41.5	3488	7.8	G13
8	TPS/30612	03.12.2018	06.12.2018		1390-C		5.9	41.2	3779	11.9	G12

NOTE: (i) Sample collected as per ISO. (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D-7582-15
(iii) GCV as per IS 1350 (Part II), 1970 Reaffirmed 2013/ ASTM D-5865-13

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सीआईएमएफआर-केन्द्रीय खनन एवं ईंधन अनुसंधान संस्थान
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)
बरवा रोड, धनबाद - 826 015, झारखण्ड, भारत
एक आई एस ओ 9001 प्रमाणित संस्थान

CSIR-Central Institute of Mining and Fuel Research
(Council of Scientific and Industrial Research)
Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Date: 24.12.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 29.11.2019 to 12.12.2019 & 03.12.2019

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CTI/FR/MIN/DPSE/NLD/DEC/19-20/874
COAL COMPANY - CENTRAL COALFIELDS LIMITED
LOADING AREA/MINE-BCM
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			Quality (Ash & as-rec. Basis)			EMC%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ I. Note No.	R.R. Date	M%	A(ad)%	GCV (Kcal/kg)		
1	TPS/50579	29.11.2019	01.12.2019		1369		8.1	34.3	4339	33.5	G10
2	TPS/50591	01.12.2019	04.12.2019		1378		7.7	30.7	4449	33.2	G10
3	TPS/50600	03.12.2019	06.12.2019		1388		7.5	29.6	4600	33.6	G13

NOTE: (i) Sample collected as per IS:436 (Pt-1) & Mintech as IS 1350 (Part-1), 1984 Reaffirmed 2013/ ASTM D-7582-15
(ii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2018/ ASTM D-5865-13

(Authorized Signatory)

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सीआईएमएफआर-केन्द्रीय खनन एवं ईंधन अनुसंधान संस्थान
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Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Date: 24.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 03.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.: CIMFR/DHN/TPS/NCL/DEC/18-19/2676
POWER FACILITY – NCTPP, DADRI
COAL COMPANY: NORTHERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/SICR			The 18% MC & 36-60 C Basis			TM%	Analysed Grade
				R.R. Quantity (MT)	R.R.No./ P. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1.	TPS/[illegible]	03.12.2018	06.12.2018		1389		8.8	35.7	4150	18.1	G-11

NOTE: (i) Sample collected as per FSA (ii) Act & Minimum as IS 4820 (Part-1), 1994 Reaffirmed 2013; ASTM D-7582-13 (iii) GCV as per IS 1350 (Part-2), 1970 Reaffirmed 2010/ ASTM D-5865-12

(Authorized Signatory)

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Location: NTPC [illegible]

सीआईएमएफआर-केंद्रीय खनन एवं ईंधन अनुसंधान संस्थान
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An ISO 9001 Certified Institute

Date: 24.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 29.11.2018 to 01.12.2018 & 03.12.2018

UNLOADING ENQUIRY ANALYSIS REPORT

TEST REPORT No.- CSIR/DHN/TPS/UNLD/DEC/18-19/25672
POWER UTILITY- NCPP, DADRI
COAL COMPANY- EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake NCR			On GAR's Bill & at ab / Basis				
				R.R. Quantity (MT)	R.R.No./ E. Note No.	R.R. Date	M%	A(ad)%	GCV (Kcal/kg)	TM%	Assessed Grade
1	TPS/80575	29.11.2018	01.12.2018		13670-B		7.6	35.1	4140	23.7	G8
2	TPS/80576	29.11.2018	01.12.2018		1367-C		8.9	36.6	3870	15.5	G10
3	TPS/80580	29.11.2018	01.12.2018		1378-A		8.2	38.4	3780	30.8	G12
4	TPS/80581	29.11.2018	01.12.2018		1378-B		3.9	38.6	3580	15.2	G14
5	TPS/80582	29.11.2018	01.12.2018		1379-C		5.1	36.9	3930	16.0	G12
6	TPS/80596	01.12.2018	03.12.2018		1382-A		6.0	33.1	4670	16.2	G10
7	TPS/80598	01.12.2018	03.12.2018		1382-C		6.3	33.9	4620	15.7	G10
8	TPS/80684	02.12.2018	03.12.2018		1386-B		7.0	38.0	3740	13.4	G8
9	TPS/80685	02.12.2018	03.12.2018		1386-C		6.8	38.5	4440	14.1	G10
10	TPS/80686	02.12.2018	03.12.2018		1386-D		7.0	38.0	4010	13.2	G8

NOTE: (i) Sample collected as per IS:436 (ii) Ash & Moisture as IS 1350 (Part-I)-1984 Reaffirmed 2014 (iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2008 ISO 781 D-5865-12

(Authorized Signatory)

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Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Date: 24.12.2018

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 29.11.2018 to 02.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.: CIMFR/DAV/TPS/UNLD/DEC/18-19/206/3
COAL COMPANY: CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING: BACHRA
POWER UTILITY: NCPP, BADHNI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/WGR			On dry basis at 40°C Basis				
				R.R. Quantity (Mt)	R.R.No./ P. Note No.	R.R. Date	M%	A50%	GCV (Kcal/kg)	E50%	Analysis Grade
1	TPS/30577	29.11.2018	01.12.2018		1368-A		7.4	38.2	3868	17.8	G12
2	TPS/30578	29.11.2018	01.12.2018		1368-B		7.3	34.3	4379	15.1	G11
3	TPS/30580	29.11.2018	01.12.2018		1371		7.7	36.9	4239	13.7	G12
4	TPS/30584	29.11.2018	04.12.2018		1372		7.2	37.8	3939	16.4	G12
5	TPS/30585	30.11.2018	04.12.2018		1373		7.4	36.4	4020	17.1	G12
6	TPS/30588	30.11.2018	04.12.2018		1376		6.4	37.6	4040	14.5	G11
7	TPS/30589	30.11.2018	04.12.2018		1377-A		4.8	34.8	4290	17.1	G10
8	TPS/30590	30.11.2018	04.12.2018		1377-B		4.1	40.1	4170	14.7	G11
9	TPS/30593	01.12.2018	04.12.2018		1380		7.3	33.3	4250	18.4	G11
10	TPS/30594	01.12.2018	05.12.2018		1381-A		8.4	31.7	4210	14.3	G10
11	TPS/30595	01.12.2018	05.12.2018		1381-B		8.8	36.1	4080	12.7	G11
12	TPS/30597	01.12.2018	05.12.2018		1383		8.3	38.4	4080	13.5	G10
13	TPS/30600	02.12.2018	05.12.2018		1384		6.8	38.6	4040	16.3	G11
14	TPS/30602	02.12.2018	06.12.2018		1387		7.7	32.2	4140	18.3	G10
15	TPS/30612	02.12.2018	06.12.2018		1391		7.8	30.3	4139	18.7	G10

NOTE: (i) Samples collected as per ISO 18283 (ii) Sub & Moisture as IS 1350 (Part I), 1984 Reaffirmed 2003, ASTM D 7582-10
(iii) GCV as per IS 1350 (Part II), 1970 Reaffirmed 2008, ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date:30.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 30.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLDG/AN/2019/259
POWER UTILITY- NCPP, DADRI
COAL COMPANY- BHARAT COKING COAL LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ T. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/1430	30.12.2018	31.12.2018		1532-A		2.4	42.6	3589	4.7	G12
2	TPS/1431	30.12.2018	31.12.2018		1532-B		2.8	49.1	3496	5.1	G12

NOTE: (i) Sample collected as per FSA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2015/ ASTM D 7582-15 (iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2016/ ASTM D-5865-11

(Authorised Signatory)

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Date:[illegible]

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 28.12.2018 & 31.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/NUDGAN/2018/2209
POWER UTILITY- NCPP, DADRI
COAL COMPANY- NORTHERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ E. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/1425	28.12.2018	31.12.2018		1521		4.8	33.8	4668	16.2	G10
2	TPS/1445	31.12.2018	01.01.2019		1538		5.3	34.0	4648	14.7	G9

NOTE: (i) Sample collected as per ESA (ii) Ash & Moisture as IS 1350 (Part I), 1984 Reaffirmed 2014/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part II), 1970 Reaffirmed 2014/ ASTM D-5865-13

(Authorized Signatory)

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Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Date:30.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 30.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DIPCTPS/UNLOADING/2019/2368
POWER UTILITY- NCPP, DADRI
COAL COMPANY - EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway RR/Lot/SLC			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No/ E. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/1432	30.12.2018	31.12.2018		1533-A		3.7	47.1	3600	11.2	G12
2	TPS/1433	30.12.2018	31.12.2018		1533-B		3.7	36.3	4450	8.4	G10
3	TPS/1434	30.12.2018	31.12.2018		1535-C		2.8	45.8	3090	8.8	G13
4	TPS/1435	30.12.2018	31.12.2018		1535-D		3.5	39.8	3520	11.2	G14
5	TPS/1436	30.12.2018	31.12.2018		1536-A		3.5	46.9	4019	8.1	G11
6	TPS/1437	30.12.2018	31.12.2018		1536-B		4.2	46.8	3850	8.4	G12
7	TPS/1438	30.12.2018	31.12.2018		1536-C		3.9	50.9	2750	7.8	G16
8	TPS/1439	30.12.2018	31.12.2018		1536-D		3.2	54.7	2920	9.8	G18
9	TPS/1440	30.12.2018	31.12.2018		1537-A		2.2	47.1	3660	12.1	G12
10	TPS/1441	30.12.2018	31.12.2018		1537-B		3.4	43.3	3720	11.9	G12

NOTE: (i) Sample collected as per ISO 18283 & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2012/ ASTM D 7582-12
(ii) GCV as per IS 1350 (Part-II) 1970 Reaffirmed 2010/ ASTM D-5865-12

(Authorized Signatory)

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Date: 30.01.2019

Analytical Results of samples drawn by CMFR-CIMFR (Third Party Sampling) during the period 31.12.2018 to 04.01.2019

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/JAN/2019/200
COAL COMPANY - CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-BACHRA
POWER UTILITY - NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% IM & at 60°C Basis			TM%	Analysed Grade
				R.R. Quantity (MT)	R.R.No./ R. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/2785	31.12.2018	01.01.2019		1520-A		4.5	35.9	4020	15.0	G11
2	TPS/2786	31.12.2018	01.01.2019		1589-B		4.9	37.2	4030	16.0	G11
3	TPS/2796	31.12.2018	01.01.2019		1540-A		7.0	38.0	3910	14.0	G12
4	TPS/2797	31.12.2018	01.01.2019		1545-B		7.2	39.0	3790	14.0	G11
5	TPS/2798	31.12.2018	01.01.2019		1543		4.9	41.6	3940	15.5	G12
6	TPS/2799	31.12.2018	01.01.2019		1544		7.8	36.9	3950	13.0	G12
7	TPS/2808	01.01.2019	02.01.2019		1549		9.2	36.4	4040	20.7	G13
8	TPS/2812	02.01.2019	03.01.2019		1551		1.0	31.2	3910	17.7	G12
9	TPS/2813	02.01.2019	03.01.2019		1553-A		5.5	37.5	4080	14.3	G11
10	TPS/2814	03.01.2019	03.01.2019		1555-B		6.4	42.7	3940	16.2	G12
11	TPS/2834	03.01.2019	05.01.2019		1558-A		5.3	35.4	3750	17.4	G14
12	TPS/2835	03.01.2019	05.01.2019		1558-B		6.7	42.3	3700	19.0	G11
13	TPS/2838	04.01.2019	05.01.2019		1560		5.7	37.8	4020	16.4	G11
14	TPS/2841	04.01.2019	06.01.2019		1562		6.4	37.1	3960	15.8	G11
15	TPS/2845	04.01.2019	06.01.2019		1568		5.3	37.4	3820	18.7	G12

NOTE: (i) Sample collected as per PSA (ii) Ash & Moisture as IS 1350 (Part-I)-1984 Reaffirmed 2014 ASTM D 3174-12 (iii) GCV as per IS 1350 (Part-II)-1978 Reaffirmed 2014 ASTM D 5865-13

(Authorised Signatory)

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An ISO 9001 Certified Institute

Date:[illegible]

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period [illegible]

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/RIS/TPS/UNLD/JAN/20/[illegible]
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/MINE-RCM
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 60°C Basis			ZM%	Analytical Grade
				R.R. Quantity (Mt)	R.R.No./ E. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS2791	31.12.2018	01.01.2019		1500		8.1	38.2	4400	23.8	G[illegible]
2	TPS2829	02.01.2019	03.01.2019		1555		8.3	37.4	3990	22.3	G[illegible]

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2010/ ASTM D-7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-12

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An ISO 9001 Certified Institute

Date 28.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 31.12.2018 to 02.01.2019

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/JAN2019/202
POWER UTILITY- NCPP, DADRI
COAL COMPANY- EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			The 60% RH & 40 C Basis			TSP%	Analysed Grade
				R.R. Quantity (MT)	R.R.No./P. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/2792	31.12.2018	01.01.2019		1541-A		7.5	38.8	4050	9.8	G12
2	TPS/2793	31.12.2018	01.01.2019		1541-B		6.7	38.0	3970	10.6	G12
3	TPS/2794	31.12.2018	01.01.2019		1541-C		5.9	43.2	3850	12.0	G13
4	TPS/2795	31.12.2018	01.01.2019		1541-D		7.1	36.4	4130	9.1	G11
5	TPS/2801	01.01.2019	02.01.2019		1546-A		5.2	41.8	3320	10.8	G14
6	TPS/2802	01.01.2019	02.01.2019		1546-B		5.3	46.8	3710	9.1	G12
7	TPS/2803	01.01.2019	02.01.2019		1546-C		5.9	47.4	3540	11.2	G13
8	TPS/2804	01.01.2019	02.01.2019		1547-A		5.3	36.5	4060	10.8	G9
9	TPS/2805	01.01.2019	02.01.2019		1547-B		5.8	31.6	4790	11.4	G9
10	TPS/2806	01.01.2019	02.01.2019		1547-C		5.9	38.1	4140	10.9	G8
11	TPS/2809	02.01.2019	03.01.2019		1550-A		5.8	34.2	4070	12.7	G10
12	TPS/2810	02.01.2019	03.01.2019		1550-B		5.9	40.7	3860	11.1	G12
13	TPS/2811	02.01.2019	03.01.2019		1550-C		5.6	41.4	3760	11.2	G12
14	TPS/2815	03.01.2019	03.01.2019		1553-A		6.9	47.2	3830	9.9	G8
15	TPS/2816	03.01.2019	03.01.2019		1553-B		6.3	28.9	4070	13.7	G8
16	TPS/2817	03.01.2019	03.01.2019		1553-C		5.4	40.7	3660	12.6	G13

NOTE:- (i) Sample collected as per FSA (Rule 8) & Modified as IS 1350 (Part I), 1984 Reaffirmed 2012/ ASTM D 7582-15
(ii) GCV as per IS 1350 (Part II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorised Signatory)

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An ISO 9001 Certified Institute

Date:30.01.2019

Analysed Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 28.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No- CIMFR/SAN/TPS/UNLD/JAN/2019/2287
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-RCM
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				H.R. Quantity (Mt)	R/K No./ F. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1.	TPS/1423	28.12.2018	28.12.2018		1527		7.2	29.8	4550	17.8	G16

NOTE: (i) Sample collected as per ISO Adh & Statutory as IS 1350 (Part-I), 1984 Reaffirmed 2012; ASTM D 7582-15
(ii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010; ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date:30.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 29.12.2018 & 30.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLOADING/01/9/2018
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA-MORG-BACHRA
POWER UTILITY- NCPP, BADAR

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			Quality Bill & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (MT)	R.R.No./ E-Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/1424	29.12.2018	30.12.2018		1528		6.0	39.8	3798	13.7	G12
2	TPS/1426	29.12.2018	30.12.2018		1518-A		3.5	47.3	3424	18.4	G13
3	TPS/1427	29.12.2018	30.12.2018		1526-B		3.4	44.1	3798	16.9	G12
4	TPS/1428	30.12.2018	31.12.2018		1521-A		4.7	42.3	3820	19.3	G13
5	TPS/1429	30.12.2018	31.12.2018		1531-B		5.5	35.2	4508	16.1	G12
6	TPS/1440	30.12.2018	31.12.2018		1535-A		4.9	36.4	4138	17.0	G12
7	TPS/1441	30.12.2018	31.12.2018		1528-B		4.7	42.4	4000	16.9	G13
8	TPS/1442	30.12.2018	31.12.2018		1536		5.1	39.8	3979	16.6	G12

NOTE: (i) Sample collected as per FSA (Is Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2018 ASTM D-7582-15 (ii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2018/ ASTM D-5865-13

(Authorised Signatory)

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An ISO 9001 Certified Institute

Date:17.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 23.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/JAN/2018/0507
COAL COMPANY:- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-RCM
POWER UTILITY- NEPP, HADMI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake NO/R			On 60% RH & at 40°C Basis			TSM%	Analysed Grade
				R.R. Quantity (MT)	R.R.No./ E. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/203	23.12.2018	25.12.2018		1501		8.8	35.7	3938	20.3	G12
2	TPS/204	23.12.2018	25.12.2018		1503		5.6	41.7	3879	19.8	G12

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2018/ ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date:08.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 12.12.2018 to 14.12.2018

UNLOADING EVR ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/JAN/2019/001
POWER UTILITY- NCPP, DADRI
COAL COMPANY- EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ E. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/83879	12.12.2018	12.12.2018		1452-A		7.1	35.0	4160	13.8	G13
2	TPS/83580	12.12.2018	13.12.2018		1452-B		7.8	36.5	4510	8.3	G10
3	TPS/83587	13.12.2018	14.12.2018		1487-A		3.4	45.0	3870	12.0	G12
4	TPS/83588	13.12.2018	14.12.2018		1487-B		5.6	45.6	3230	10.3	G14
5	TPS/83589	13.12.2018	14.12.2018		1487-C		3.8	45.7	3640	8.3	G12
6	TPS/83591	14.12.2018	17.12.2018		1489-A		6.4	40.3	3690	17.2	G12
7	TPS/83592	14.12.2018	17.12.2018		1489-B		8.6	29.5	4560	14.3	G10
8	TPS/83601	15.12.2018	17.12.2018		1496		7.3	31.6	4590	14.6	G10
9	TPS/83605	16.12.2018	18.12.2018		1469-A		2.7	35.4	3250	8.6	G14
10	TPS/83606	16.12.2018	18.12.2018		1469-B		3.9	45.6	3870	8.2	G12
11	TPS/83607	16.12.2018	18.12.2018		1469-C		3.1	42.1	4150	9.6	G13
12	TPS/83610	16.12.2018	18.12.2018		1471-A		3.0	46.8	4090	7.2	G13
13	TPS/83611	16.12.2018	18.12.2018		1471-B		8.9	44.1	3830	9.0	G13

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2018/ ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date 08.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 14.12.2018 & 18.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLOADAN/2019-092
POWER UTILITY- NCPP, DADRI
COAL COMPANY- BHARAT COKING COAL LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/SIDR			On 60% RH & at 40°C Basis			TS(%)	Analysed Grade
				R.R. Quantity (MT)	R.R.No./ E. Note No.	R.R. Date	M(%)	ASH(%)	GCV (Kcal/kg)		
1	TPS/82994	14.12.2018	17.12.2018		1461-A		2.3	45.5	4029	2.9	G11
2	TPS/83195	14.12.2018	17.12.2018		1461-B		1.8	47.9	3896	5.2	G12
3	TPS/83620	18.12.2018	20.12.2018		1479		2.4	47.7	3478	14.4	G13
4	TPS/83622	18.12.2018	20.12.2018		1480-A		1.8	53.7	3429	4.5	G13
5	TPS/83621	18.12.2018	20.12.2018		1480-B		1.8	49.6	3710	3.8	G12

NOTE: (i) Sample collected as per FSA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2012/ ASTM D 3682-13 (iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date:08.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 12.12.2018 & 14.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHVTPS/UNLD/JAN/2019/593
POWER UTILITY- NCPP, DADRI
COAL COMPANY- NORTHERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ F. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/83577	12.12.2018	12.12.2018		1450		7.4	38.7	4480	28.3	G10
2	TPS/83593	14.12.2018	17.12.2018		1460		6.9	38.9	3910	15.5	G12

NOTE: (i) Sample collected as per FSA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2010/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date 08.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 12.12.2018 to 14.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/JAN/2019/508
COAL COMPANY - CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-BACHRA
POWER UTILITY - NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/SLR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R.	R.R.No./ F.	R.R.	M%	A(D)%	GCV		
1	TPS/83572	12.12.2018	13.12.2018		1447-A		7.1	28.7	3750	16.4	G12
2	TPS/83573	12.12.2018	13.12.2018		1447-B		4.9	30.1	3888	16.2	G12
3	TPS/83575	12.12.2018	13.12.2018		1449-A		7.3	35.0	4119	15.6	G11
4	TPS/83576	12.12.2018	13.12.2018		1449-B		7.6	32.3	4280	16.0	G11
5	TPS/83578	12.12.2018	13.12.2018		1452		7.4	31.4	4389	17.2	G10
6	TPS/83581	12.12.2018	13.12.2018		1452		7.4	33.5	4270	23.8	G11
7	TPS/83582	13.12.2018	14.12.2018		1454		4.2	34.7	4280	17.1	G10
8	TPS/83583	13.12.2018	14.12.2018		1455-A		7.5	34.4	4180	15.2	G10
9	TPS/83584	13.12.2018	14.12.2018		1455-B		7.5	33.5	4240	13.6	G11
10	TPS/83585	13.12.2018	14.12.2018		1456-A		7.7	38.6	4108	20.7	G10
11	TPS/83586	13.12.2018	14.12.2018		1456-B		7.7	33.0	4278	16.5	G11
12	TPS/83590	14.12.2018	17.12.2018		1458		8.4	34.2	4108	15.6	G11
13	TPS/83594	14.12.2018	17.12.2018		1462		6.7	29.1	3978	14.5	G12
14	TPS/83595	14.12.2018	17.12.2018		1463		7.1	41.2	3638	16.9	G13

NOTE: (i) Sample collected as per FSA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2012/ ASTM D 7582-10
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D 5865-13

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An ISO 9001 Certified Institute

Date:08.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 15.12.2018 to 19.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/JAN/2019/589
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-BACHRA
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ F. Note No.	R.R. Date	M2%	A50%	GCV (Kcal/kg)		
1	TPS/[illegible]	15.12.2018	17.12.2018		1465-A		7.2	38.4	3900	18.2	G12
2	TPS/[illegible]	15.12.2018	17.12.2018		1465-B		7.5	38.2	3920	17.8	G12
3	TPS/[illegible]	15.12.2018	17.12.2018		1467		7.6	37.3	3940	19.0	G12
4	TPS/[illegible]	15.12.2018	17.12.2018		1468-A		7.7	38.4	3930	17.9	G12
5	TPS/[illegible]	15.12.2018	17.12.2018		1468-B		7.2	42.2	3890	18.5	G12
6	TPS/[illegible]	16.12.2018	18.12.2018		1476-A		6.8	45.9	3750	18.7	G12
7	TPS/[illegible]	16.12.2018	18.12.2018		1476-B		8.1	46.6	3590	13.8	G11
8	TPS/[illegible]	16.12.2018	18.12.2018		1472		8.5	33.8	4126	18.9	G11
9	TPS/[illegible]	17.12.2018	19.12.2018		1474-A		9.9	33.8	4150	18.8	G11
10	TPS/[illegible]	17.12.2018	19.12.2018		1474-B		8.9	38.2	3820	15.9	G12
11	TPS/[illegible]	17.12.2018	19.12.2018		1470		7.4	38.8	3890	15.3	G12
12	TPS/[illegible]	17.12.2018	19.12.2018		1471		8.7	46.5	3600	16.8	G12
13	TPS/[illegible]	18.12.2018	20.12.2018		1477		7.8	43.6	3870	15.8	G04
14	TPS/[illegible]	18.12.2018	20.12.2018		1481		7.6	32.8	4540	16.4	G11
15	TPS/[illegible]	19.12.2018	21.12.2018		1483		4.1	42.8	4010	16.8	G11

NOTE: (i) Sample collected as per IS[illegible] (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2012; ASTM D 7582-10
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010; ASTM D-5865-12

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An ISO 9001 Certified Institute

Date:15.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 05.12.2018 to 06.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/A.N.D/JAN/19-20/006
POWER UTILITY- NCPP, DADRI
COAL COMPANY- BHARAT COKING COAL LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NCR			Dry 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R. No./ P. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/01488	05.12.2018	08.12.2018		1404-B		1.8	46.7	[illegible]	4.2	G12
2	TPS/01495	06.12.2018	10.12.2018		1410-A		2.7	44.4	4868	2.7	G11
3	TPS/01496	06.12.2018	10.12.2018		1410-B		1.6	46.8	4628	4.7	G11
4	TPS/01512	07.12.2018	10.12.2018		1421		2.1	35.7	4748	3.4	G9
5	TPS/01514	08.12.2018	10.12.2018		1423		1.7	39.8	4739	5.1	G9

NOTE: (i) Sample collected as per FSA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2012/ ASTM D-7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2014/ ASTM D-5865-13

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An ISO 9001 Certified Institute

Date 17.12.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 19.12.2018 to 23.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No: CIMFR/RRN/TPS/UNLD/JAN/2019/752
COAL COMPANY - CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING- BACHRA
POWER UTILITY - NCPP, BADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			Dry 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ P. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/85362	19.12.2018	21.12.2018		1482		5.4	48.1	3760	15.8	G12
2	TPS/85363	19.12.2018	21.12.2018		1485		7.2	41.2	3660	19.7	G13
3	TPS/85364	20.12.2018	21.12.2018		1486-A		7.2	39.8	3740	21.8	G13
4	TPS/85367	20.12.2018	23.12.2018		1486-B		7.5	32.9	4476	21.7	G10
5	TPS/85371	20.12.2018	23.12.2018		1490		5.3	28.9	5060	26.8	G8
6	TPS/85373	21.12.2018	23.12.2018		1492		8.0	34.4	4040	19.4	G11
7	TPS/85381	22.12.2018	24.12.2018		1497-A		9.8	31.9	4250	19.1	G11
8	TPS/85382	22.12.2018	24.12.2018		1497-B		6.7	33.9	3690	18.3	G12
9	TPS/85384	22.12.2018	24.12.2018		1498-A		8.8	32.9	4210	17.1	G11
10	TPS/85385	22.12.2018	24.12.2018		1498-B		8.9	38.4	4110	20.4	G12
11	TPS/85386	23.12.2018	25.12.2018		1500		7.7	37.8	3600	19.6	G12

NOTE: (a) Sample collected as per ISO (b) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2010/ ASTM D 7582-15
(b) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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Date:18.01.2019

Analysed Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 20.12.2018 & 22.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLOAD/2018/794
COAL COMPANY- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING-BCH
POWER UTILITY- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake Visit			On 60% RH & at 40°C Basis			TSM%	Analysed Grade
				R.R. Quantity (MT)	R.R.No./ T. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/Kg)		
1	TPS/85269	20.12.2018	22.12.2018		1408		9.2	28.6	4498	19.7	G10
2	TPS/85360	22.12.2018	24.12.2018		1406		8.1	31.2	4276	19.8	G12
3	TPS/85383	22.12.2018	24.12.2018		1408		9.2	28.3	4548	21.7	G10

NOTE: (i) Sample collected as per FSA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2014/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2014/ ASTM D 5865-13 .

(Authorized Signatory)

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An ISO 9001 Certified Institute

Date: 18.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 15.12.2018 & 28.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/JAN/2019/795
POWER UTILITY- NCPP, DADRI
COAL COMPANY- BHARAT COKING COAL LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MTR			On 60% RH & at 40°C Basis				
				R.R. Quantity (MT)	R.R.No./ E. Note No.	R.R. Date	M%	ASH%	GCV (kcal/kg)	TM%	Analysed Grade
1	TPS/85363	15.12.2018	21.12.2018		1484-A		2.0	28.8	4550	5.0	G8
2	TPS/85364	19.12.2018	25.12.2018		1484-B		1.6	35.8	4770	5.4	G7
3	TPS/85372	28.12.2018	22.12.2018		1491		2.5	36.5	4670	5.5	G8

NOTE: (i) Sample collected as per FSA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13 ;

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Date:15.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 28.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/CNUB/JAN/2019/798
POWER UTILITY- NCPP, DADRI
COAL COMPANY- NORTHERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NGR			On 60% RH & at 40°C Basis			100%	Analysed Grade
				R.R. Quantity (MT)	R.R.No./ F. Note No.	R.R. Date	M%	AM1%	GCV (Kcal/kg)		
1	TPS/8503	28.12.2018	31.12.2018		1497		5.3	15.3	4249	18.2	G11

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture at 25±200 (Part-I), 1984 Reaffirmed 2010/ ASTM D 7582-15
100 GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D 5865-13

(Authorised Signatory)

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An ISO 9001 Certified Institute

Date:15.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 16.12.2018 to 22.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/JAN/2018/797
POWER UTILITY- NCPP, DADRI
COAL COMPANY- EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NGR			Un-60% (M) & at 40° C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ F. Note No.	R.R. Date	M%	A(M)%	GCV (Kcal/Kg)		
1	TPS/85370	16.12.2018	22.12.2018		1489		3.0	38.9	4140	14.1	G12
2	TPS/85374	21.12.2018	23.12.2018		1493		4.5	38.2	4040	14.3	G9
3	TPS/85375	21.12.2018	23.12.2018		1494-A		4.4	45.2	3550	7.1	G13
4	TPS/85376	21.12.2018	23.12.2018		1494-B		2.6	44.8	3664	8.4	G12
5	TPS/85377	21.12.2018	23.12.2018		1494-C		2.5	45.8	3620	7.8	G13
6	TPS/85378	21.12.2018	23.12.2018		1494-D		3.4	54.4	3240	13.1	G14
7	TPS/85379	22.12.2018	24.12.2018		1495		4.7	41.3	3920	13.0	G12

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D 7582-15
(iii) GCV as per BS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorised Signatory)

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Date: 11.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 16.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/JAN/2019/767
POWER UTILITY- NCPP, DADRI
COAL COMPANY- EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway (Rake/Wagon)			On 60% RH & at 40°C Basis			TM%	Assigned Grade
				R.R. Quantity (Mt)	R.R.No./ F. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/03612	16.12.2018	16.12.2018		1471-C		8.2	37.1	3660	7.8	G12

NOTE: (i) Sample collected as per IS/A (R) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2010/ ASTM D 7582-15
(ii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D 5865-13

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सीएसआईआर-केन्द्रीय खनन एवं ईंधन अनुसंधान संस्थान
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)
बरवा रोड, धनबाद - 826 015, झारखण्ड, भारत
एक आई एस ओ 9001 प्रमाणित संस्थान

CSIR-Central Institute of Mining and Fuel Research
(Council of Scientific and Industrial Research)
Barwa Road, Dhanbad - 826 015, Jharkhand, India
An ISO 9001 Certified Institute

Date: 7.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period: 23.12.2018 to 25.12.2018,27.12.2018 & 28.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/JAN/2019/950
POWER UTILITY- NCPP, DADRI
COAL COMPANY- EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R.	R.R.No./E.Note	R.R. Date	M%	ASH%	GCV		
1	TPS/265	23.12.2018	26.12.2018		1504		5.5	42.6	3879	14.4	G12
2	TPS/267	24.12.2018	26.12.2018		1506		6.2	33.9	4688	11.3	G10
3	TPS/272	25.12.2018	26.12.2018		1510-A		5.6	33.2	4668	11.9	G9
4	TPS/273	25.12.2018	26.12.2018		1510-B		6.7	34.9	4308	13.5	G7
5	TPS/285	27.12.2018	28.12.2018		1520		5.4	38.9	3750	12.5	G12
6	TPS/289	27.12.2018	28.12.2018		1523-A		4.9	46.9	3638	11.5	G13
7	TPS/290	27.12.2018	28.12.2018		1523-B		5.9	43.3	3639	10.3	G12
8	TPS/295	28.12.2018	29.12.2018		1529-A		4.3	34.5	2929	12.8	G15
9	TPS/296	28.12.2018	29.12.2018		1529-B		4.7	38.8	3298	13.9	G14

NOTE: (i) Sample collected as per FSA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2016/ ASTM D-5865-13

(Authorized Signatory)

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An ISO 9001 Certified Institute

Dated:[illegible]

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period [illegible]

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/TER/2019/2589
POWER UTILITY- NCPP, DADRI
COAL COMPANY- BHARAT COKING COAL LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/OGM			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (MT)	R.R.No./ T. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/01487	[illegible]	[illegible]		1496-A		2.3	39.9	4458	2.8	G10

NOTE: (i) Sample collected as per FSA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2003/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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Documents verified by [illegible]

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An ISO 9001 Certified Institute

Date:17.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 27.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No:- CIMFR/DHN/TPS/UNLD/JAN/2019/58
COAL COMPANY:- CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING:-NDH
POWER UTILITY:- NCPP, DADRI

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/SLOR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No/ F. Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/297	27.12.2018	28.12.2018		1522-A		6.4	42.5	3670	15.7	G13
2	TPS/298	27.12.2018	28.12.2018		1522-B		7.4	38.5	3860	13.3	G12

NOTE: (i) Sample collected as per ISA (ii) Ash & Moisture as IS 1260 (Part-I), 1984 Reaffirmed 2013/ ASTM D-7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorised Signatory)

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An ISO 9001 Certified Institute

Date:17.01.2019

Analytical Results of samples drawn by CSIR-CIMFR / Third Party Sampling during the period 24.12.2018 to 28.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.: CIMFR/DHN/TPS/UNLD/ZAN/2019/9[illegible]
COAL COMPANY: CENTRAL COALFIELDS LIMITED
LOADING AREA/SIDING: BACHRA
POWER UTILITY: NCTP, BADRI

Sl. No.	Sample ID	Date of collection	Date of Pergatation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. (Quantity) (Nos)	R.R.No./ F. Note No.	R.R. Date	M%	A50%	GCV (Kcal/kg)		
1	TPS/268	24.12.2018	26.12.2018		1507		8.4	38.5	4020	16.4	G9
2	TPS/271	25.12.2018	26.12.2018		1508		8.3	36.3	4129	16.4	G11
3	TPS/276	26.12.2018	28.12.2018		1513-A		5.8	33.1	4670	15.8	G9
4	TPS/277	26.12.2018	28.12.2018		1513-B		6.3	40.1	3330	17.9	G14
5	TPS/278	26.12.2018	28.12.2018		1514		5.1	35.8	3919	16.8	G12
6	TPS/281	26.12.2018	28.12.2018		1517		8.0	38.3	3820	16.4	G12
7	TPS/282	26.12.2018	28.12.2018		1518		8.4	38.7	3768	17.9	G13
8	TPS/283	26.12.2018	28.12.2018		1519-A		8.5	35.9	3896	16.6	G12
9	TPS/284	26.12.2018	28.12.2018		1519-B		8.9	39.2	3720	18.2	G12
10	TPS/286	27.12.2018	28.12.2018		1521		7.8	36.2	4020	16.3	G11
11	TPS/288	28.12.2018	29.12.2018		1525-A		7.1	35.8	3930	16.1	G11
12	TPS/294	28.12.2018	29.12.2018		1525-B		7.1	38.6	3878	14.3	G13

NOTE: (i) Sample collected as per FSA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2018/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2018/ ASTM D-5865-13

(Authorised Signatory)

डॉ० [illegible] / Dr. [illegible]
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An ISO 9001 Certified Institute

Date:17.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 27.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/JAN/2019/954
POWER UTILITY- NCPP, DADRI
COAL COMPANY- BHARAT COKING COAL LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NGR			On 60% RH & at 40°C Basis			TIM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ E-Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/291	27.12.2018	29.12.2018		1524-A		3.5	42.2	4550	3.4	G10
2	TPS/292	27.12.2018	29.12.2018		1524-B		3.7	47.1	4020	5.3	G13

NOTE: (i) Sample collected as per PSA (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2012, ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

(Authorized Signatory)

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Date:17.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 24.12.2018 to 26.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/ANDR/8955
POWER UTILITY- NCPP, DADRI
CIOAL COMPANY- NORTHERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/NCR			On 60% RH & at 40°C Basis			TS(%)	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ F. Note No	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/266	24.12.2018	24.12.2018		1885		7.3	39.9	4330	18.4	G13
2	TPS/274	25.12.2018	26.12.2018		1911		7.9	37.2	3856	28.1	G12
3	TPS/279	26.12.2018	26.12.2018		1915		5.7	45.2	3550	14.1	G13

NOTE: (i) Sample collected as per FSA (ii) Ash & Moisture as IS 1260 (Part-I), 1982 Reaffirmed 2012/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2012/ ASTM D-5865-13

(Authorized Signatory)

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Date:15.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 25.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.: CIMFR/DHN/TPS/UNLOADING/2018/2038
POWER UTILITY- NCPP, DADRI
COAL COMPANY- NORTHERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/WGR			On arb basis & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Mt)	R.R.No./ E-Note No.	R.R. Date	M%	ASH%	GCV (Kcal/kg)		
1	TPS/275	25.12.2018	26.12.2018		1312		5.2	41.7	3400	20.1	G11

NOTE: (i) Sample collected as per ISA (ii) Air & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

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Date:/01/2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 26.12.2018

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/UNLD/JAN/2019/2020
POWER UTILITY- NCTP, DADRI
COAL COMPANY- EASTERN COALFIELDS LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (MT)	R.R. No./ E. Note No.	R.R. Date	MM%	ASH%	GCV (Kcal/kg)		
1	TPS/250	26.12.2018	26.12.2018		1576		6.2	28.5	4178	12.0	G11

NOTE: (i) Sample collected as per ISO (ii) Ash & Moisture as IS 1350 (Part-I), 1984 Reaffirmed 2013/ ASTM D 7582-15
(iii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2010/ ASTM D-5865-13

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Date: 29.01.2019

Analytical Results of samples drawn by CSIR-CIMFR (Third Party Sampling) during the period 23.12.2018 & 24.12.2018.

UNLOADING END ANALYSIS REPORT

TEST REPORT No.- CIMFR/DHN/TPS/CNLD/JAN/28/9/2017
POWER UTILITY- NCPP, BADRI
COAL COMPANY- BHARAT COKING COAL LIMITED

Sl. No.	Sample ID	Date of collection	Date of Preparation	Railway Rake/MGR			On 60% RH & at 40°C Basis			TM%	Analysed Grade
				R.R. Quantity (Nos)	R.R.No/ C. Note No.	R.R. Date	M1%	AS(H)%	GCV (Kcal/kg)		
1	TPS/262	23.12.2018	23.12.2018		1500		2.5	31.3	3400	2.8	G14
2	TPS/263	24.12.2018	26.12.2018		1508-A		2.8	37.8	4750	4.2	G9
3	TPS/276	24.12.2018	26.12.2018		1508-B		2.8	38.1	4730	3.4	G9

NOTE: (i) Sample collected as per IS:436 (i) Ash & Moisture as IS 1350 (Part-1), 1984 Reaffirmed 2012 ASTM D 7582-15
(ii) GCV as per IS 1350 (Part-II), 1970 Reaffirmed 2012 ASTM D-5865-13

(Authorized Signatory)

डॉ० अशोक कुमार सिंह / Dr. Ashok Kr. Singh
वरिष्ठ-अनुसंधान अधिकारी, संस्थान प्रबंधन अनुभाग प्रभारी / Head, Inst. Services & Project Cell
सी० एस० आई० आर० केन्द्रीय खनन एवं ईंधन अनुसंधान संस्थान
CSIR-Central Institute Of Mining & Fuel Research
Govt. Of India, Dhanbad
P.O.- B.R.A., PO-828314, Jharkhand

HQ : Dhanbad - ☎ : +91-326-2296023, 2296026 (O) ☎ : +91-326-2296025 (PABX) : +91-326-2296081 2296082 Fax: +91-326-2296758
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Ranchi : ☎ +91-651-2481392, Roorkee : ☎ +91-1332-275568
Website: www.cimfr.nic.in

Annexure-3

OCTOBER'2018		
	As Billed	As Received CIMFR (EQ Basis)
R.R.No.	GCV (kCal/Kg)	GCV (kCal/Kg)
1025-B	4001	4360
1036-B	4001	4460
1054-B	4001	4020
1052	4001	4170
1050-A	4001	4090
1047	4650	4900
1061-C	3401	3850
1061-A	3701	4030
1081-B	3101	3590
1056	4001	4520
1064-B	4001	4040
1072-A	3701	4040
1073-B	3401	3840
1074-B	3401	3510
1074-A	3701	4150
1075-B	4001	4120
1070-B	4001	4130
1084-B	4001	4200
1083-B	4001	4220
1088-B	4001	4090
1094-B	3401	4000
1094-A	3701	4120
1099-B	4001	4170
1104-A	3701	4130
1104-B	3401	4360
1103-B	4001	5140
1103-A	4001	4810
1106	4001	4630
1101-B	4001	4630
1110-B	4001	4160
1114-B	4001	4260
1111-B	4001	4150
1117-B	3401	3270
1117-A	3701	3930
1116	4301	4560
1126-B	4001	4010
1121-B	4001	4280
1135-B	4001	4220
1136-B	4001	4120
1133-B	3401	4020
1133-A	3701	4460
1140	4001	4250
1145-B	4001	4460
1153-B	3401	3800
1153-A	3701	4460
1167-B	4001	4000
1169	4001	4610
1158-B	3401	3940
1158-A	3701	4160
1174	3401	4150
1171-B	4001	4360
1185-B	4001	4550

NOVEMBER'2018		
	As Billed	As Received CIMFR (EQ Basis)
Rake no. as per Report	GCV (kCal/Kg)	GCV (kCal/Kg)
1197-B	4001	4590
1198-B	4001	4200
1199-B	4001	4080
1204	4450	4920
1212-B	4001	4320
1217-B	4001	4350
1222	4001	4400
1232	4001	4150
1239-B	4001	4250
1239	3401	4120
1256-A	5050	5090
1256-A	3701	3700
1258-B	3401	3610
1260-A	3701	4090
1260-B	3401	4070
1272-B	4001	4310
1277-B	4001	4160
1278	4750	4860
1276	4750	4700
1281	4001	5250
1285-B	4001	4910
1284	4001	4770
1282	4750	5250
1293-B	4001	5240
1297-B	4001	4130
1299	4001	4800
1303-B	4001	4510
1307-B	4001	4070
1319-B	4001	4100
1321-B	4001	4320
1322-B	4001	4140
1329	4001	3110
1335-B	4001	4140
1354-B	4001	4010
1360-B	3401	3400
1361-B	4001	[illegible]
1366-B	4001	[illegible]
1368-B	4001	[illegible]
1379	4750	4320
1377-B	4001	4170

DECEMBER'2018		
	As Billed	As Received CIMFR (EQ Basis)
R.R. No.	GCV (kCal/Kg)	GCV (kCal/Kg)
1391-B	4,001	4,250
1398-B	4,001	4,850
1400	4,301	4,380
1401	4,350	4,920
1403-B	4,001	4,250
1408	4,301	4,540
1414-A	3,401	3,620
1425-B	4,001	4,170
1435-B	4,001	4,280
1440-B	4,001	4,420
1443-B	4,001	4,430
1449-B	4,001	4,250
1455-B	4,001	4,240
1456-B	4,001	4,270
1470	4,001	5,030
1486-B	4,001	4,470
1498-B	4,001	4,510
1500-A	4,750	4,790
1522-A	3,401	3,870
1529	4,301	4,520
1535-B	4,001	4,180
1538	4,301	4,540
1538-B	4,001	4,160

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Date: [illegible]
Reason: [illegible]
Location: NTPC Limited

Annexure-4

एनटीपीसी लिमिटेड
भारत सरकार का उद्यम
NTPC Limited
(A Govt. of India Enterprise)

दादरी
DADRI

संदर्भ संख्या / Ref. No. 08/NCPS/CIMFR/06

दिनांक/Date
01.01.2019

To,
Dr. Ashok Kumar Singh
HORG,RQA Division & Project Leader
CSIR-Central Institute of Mining and Fuel research
Govt. of India Dhanbad
PO- F.R.I.,Pin 828108

Subject: Regarding Third party sampling issue at NCPS Dadri and wide gap in GCV of coal between loading and unloading end for the month of Oct-2018

We would like to bring to your kind notice the discrepancies regarding third party sampling being carried out by CIMFR at loading and unloading end in respect of NCPS Dadri

It may please be noted that there is wide gap in GCV of coal at loading and unloading end which needs urgent attention. The GCV of coal at loading end is higher than that at unloading in most cases of CCL and ECL mines. This has resulted in the increase in Energy charges (ECR).

Subsidiary	Total no. of results received for loading end	Total no. of results received for Unloading end	No. of results having difference in GCV range **301-600** Kcal/Kg	No. of results having difference in GCV range **601-900** Kcal/Kg	No. of results having difference in GCV more than **900**
CCL	144	157	39	19	03
ECL	76	88	10	10	37

You are requested to kindly look into this issue and take necessary action for smooth functioning of third party sampling work to ensure that the problem does not arise in future.

(APURBA KUMAR DAS)
Chief General Manager, NCPS Dadri

01-01-2019

Annexure-5

FY	GCV as billed (EM Basis) (kCal/kg)	GCV as Received (TM Basis) (kCal/kg)
2018-19	4757	3870
2019-20	4601	3715
2020-21	4616	3629
2021-22	4444	3782
2022-23	4576	3640

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Date: 2024
Reason: AGM
Location: NTPC Limited

Annexure-6

Month	GCV Coal Opening Stock (kCal/kg)	GCV Coal As Received Exclusive of Opening Stock (kCal/kg)	GCV Coal As Received Inclusive of Opening Stock (kCal/kg)	GCV Coal As Billed (kCal/kg)
Oct-18	3781	3829	3821	4829
Nov-18	3708	3811	3797	5023
Dec-18	3783	3745	3756	5414

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Date: 2024 IST 14:29 IST
Reason: AGM (Commercial)
Location: NTPC Limited

9.2 **Excess Surface Moisture**

(i) In the event that monthly weighted average Surface Moisture in Coal exceeds seven percent (7%) during the months from October to May and nine percent (9%) during the months from June to September, the Coal quantities delivered to the Purchaser during such month shall be adjusted for the resultant excess Surface Moisture, which shall be calculated in percentage by which the Surface Moisture exceeds the foregoing limits.

(ii) The seller shall give regular credit note on account of excess Surface moisture, as per clause 9.2(i) above, calculated at the rate of Base Price of Analyzed Grade of coal and other charges, pursuant to clause 8.2 but excluding statutory charges pursuant to clause 8.3, if any, and railway freight for the quantity of excess Surface Moisture.

(iii) Sampling/ analysis and determination of Surface Moisture for compensation shall be done as per the procedure given in Schedule V.

10. OVERLOADING AND UNDER LOADING:

10.1 Any penal freight for overloading charged by the Railways for any consignment shall be payable by the Purchaser. However, if overloading is detected from any particular colliery, consistently during three (3) continuous months, on due intimation from the Purchaser to this effect, the Seller undertakes to take remedial measures.

10.2 For Non coking coal of GCV exceeding 5800 Kcal/Kg and coking coal of Steel Grade I, Steel Grade II, Washery Grade I, Washery Grade II, Semi-coking Grade I, Semi-coking Grade II and washed Coal; any idle freight for under-loading below the stenciled carrying capacity, as shown on the wagon or carrying capacity based on the actual tare weight or permissible carrying capacity as notified by the Railways (route-wise) for any particular type of wagon from time to time, in which case the stenciled carrying capacity as shown on the wagon is more than the permissible carrying capacity,, as the case may be, shall be borne by the Seller. For all other Grades of Coal, any idle freight for under-loading below the stenciled carrying capacity, as shown on the wagon or carrying capacity based on the actual tare weight, as the case may be, plus two (2) tonnes shall be borne by the Seller. However, in the cases where permissible carrying capacity is less than the stenciled carrying capacity, as mentioned above, the idle freight shall be borne by the Seller only up to the permissible carrying capacity

10.3 Idle freight resulting from under loading of wagon, as per Clause 10.2, shall be adjusted in the bills. Idle freight shall be reckoned as:

(i) For Non coking coal of GCV exceeding 5800 Kcal/Kg and coking coal of Steel Grade I, Steel Grade II, Washery Grade I, Washery Grade II, Semi-coking Grade I, Semi-coking Grade II and washed Coal, the difference between the freight charges applicable for the stenciled carrying capacity, as shown on the wagon or carrying capacity based on the actual tare weight or permissible carrying capacity

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Location: NTPC Limited

changed whenever there is a change in any component of the As Delivered Price of Coal. In addition to the IRLC, the Purchaser shall pay advance amount equivalent to seven (7) days Coal value by way of Demand Draft/ Banker's cheque/ Electronic Fund Transfer (EFT).

11.1.3 All the payments shall be made through Demand Draft / Banker's cheque/ Electronic Fund Transfer payable at **SBI, Main Branch, Dhanbad, Current A/C vide no. "000000 1097 659 7794" Style of A/C "BHARAT COKING COAL LIMITED", Branch Code "00066", RTGS Code – "SBIN 0000066", Bank More, Dhanbad-826001, 9-DIGIT MICR NUMBER OF THE BRANCH "826002 002"**. In the event of non-payment within the aforesaid stipulated period, the Purchaser shall be liable to pay interest in accordance with Clause 12.

11.1.4 Advance payment made by the Purchaser shall be non-interest bearing, and it shall change in accordance with change in the As Delivered Price of Coal.

11.2 Adjustment for analyzed quality/ Grade

11.2.1 The bills with regard to adjustment for quality, as determined under Clause 4.7, shall be supported by relevant documents in respect of the analysis carried out of the following parameters:

a) Total Moisture (%)
b) Equilibrated Moisture (%)
c) Ash (%)
d) GCV (Kcal/Kg)

(a) In the event for any reason whatsoever third Party sampling & analysis could not be conducted, joint sampling & analysis shall be carried out by the Seller in presence of the Purchaser at the loading end

(b) In the event no sample is collected either by the Third Party or Seller as mentioned at (a) above from dispatches by a rake or on any day, as the case may be, from a source for any reason, the weighted average of the most recent results available in any preceding month against respective Source and Grade shall be adopted for such dispatches for which samples were not collected.

11.2.2. The Seller shall give regular credit note on account of Grade slippage to the extent of difference in the Base Price of Declared Grade and analysed Grade of Coal. In case of analysed Grade being higher than the Declared Grade, bonus bill/ claim shall be raised by the Seller. The credit note on Grade slippage shall be issued by the Seller within seven (7) days of acceptance of results under joint signature.

11.2.3 The amount arising out of final settlement of any bill pursuant to Clause 11.2.1 that is disputed by the Purchaser shall be paid for, as part of the third (3rd) installment pursuant to Clause 11.1.2(a) that is due for payment in the same month or in the immediately succeeding month to the month in which such settlement takes place.

Documents verified by PSU Coal Procurement Organisation
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Reason: [illegible]
Location: NTPC Limited

Annexure-8

All figures in Rs.

	Oct-18	Nov-18
Quality Adjustment	11,26,25,024.97	78686619.23
Sampling Charges	-	19,74,958.70
Unloading Charges	18,57,147.92	68,46,354.70
	11,44,82,172.89	**8,75,07,932.63**

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PIYUSH
Date: 2024[illegible] 14:24 IST
Reason: AGM (Commercial)
Location: NTPC Limited

Annexure-9

00135

DRY SORBENT INJECTION (DSI) SYSTEM PACKAGE FOR NCTPP, DADRI STAGE-I (4X210MW)
BID DOCUMENT NO. CS-8120-109C(R)-2

(Guarantee Declaration)

Bidder's Name and Address:

Melco India Pvt. Ltd.
Plot No. 04 Sec. 27/A,
Faridabad Haryana
Pin-121002
Contact No. 0129-2275466

To

NTPC Limited, (CS-I)
6th Floor, Engineering Office Complex,
Plot A-8A, Sector 24, Noida-201301,
Distt. Gautam Budh Nagar,
State of U.P., India.

Dear Sirs,

We declare that the ratings and performance figures of the equipments furnished by us under the Package are guaranteed. We further declare that in the event of any deficiencies in meeting the guaranteed figures, you may at your discretion accept the equipment / system after assessing the Liquidated Damages as specified at Clause No. 3.00.00 of Sub-Section-VI, Part-A, Section- VI (Technical Specification) of the Bidding Documents or reject the equipment / system and recover the payments already made.

Sr. No.	Guaranteed Parameters	Guaranteed Figures (Per Gas Unit)
i.	**SO_2 removal Efficiency:** Minimum SO_2 removal efficiency under guarantee point condition as per Clause 4.01.00 (i), Sub-Section-VI, Part-A, Section-VI	67.5 %
ii.	**Sodium Bicarbonate:** Sodium Bicarbonate consumption under guarantee point condition as per Clause 4.01.00 (ii), Sub-Section-VI, Part-A, Section-VI	3580 kg/hr. **(To be indicated in Attribute field of General data of display bid screen at NTPC e-tender site)**
iii.	**Auxiliary Power Consumption:** The total auxiliary power consumption for DSI in normal operation at guaranteed point condition as per Clause 4.01.00 (iii) Sub-Section-VI, Part-A, Section-VI.	291.7 kW (Break up at Annexure-I for information purpose only) **(To be indicated in Attribute field of General data of display bid screen at NTPC e-tender site)**

(Bidder to note that Minimum Guaranteed requirement for SO_2 removal efficiency is 62.5%)

Date : 07.07.2019

Place : Faridabad

(Designation) : AGM (SO & DSI)

(Printed Name) : PARDEEP LAHGDO

Digitally signed by PARDEEP LAHGDO
Date: 2019.07.19 20:07
Reason: Approved
Location: NTPC Limited

Annexure-10-A/1

THE INSTITUTE OF CHARTERED ACCOUNTANTS OF INDIA

(Set up by an Act of Parliament)

Ref: TD/EAC/1/50/013

October 1, 2014

CA. Sipan Garg
Sr. Manager (Finance)
NTPC Limited
NTPC Bhawan, Scope Complex,
7, Institutional Area,
Lodi Road,
NEW DELHI – 110 003.

Dear Sir,

We are enclosing herewith the opinion of the Expert Advisory Committee of the Institute on the query raised by you on the subject 'Accounting treatment of interest on enhanced land compensation.'

Thanking you,

Yours faithfully,

(Parul Gupta)
Secretary
Expert Advisory Committee
Phone:30110563
Email: eac@icai.org

(151)

"ICAI Bhawan", Indraprastha Marg,
Post Box No. 7100, New Delhi-110 002, India

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Reason: AOK
Location: NTPC Limited

THE INSTITUTE OF CHARTERED ACCOUNTANTS OF INDIA

(Set up by an Act of Parliament)

Opinion

EAC/159/13

Querist: CA. Sipan K. Garg, NTPC Limited, New Delhi

Subject: Accounting treatment of interest on enhanced land compensation.

A. Facts of the Case

1. A Government of India company (hereinafter referred to as the 'company') is engaged in the construction and operation of thermal power plants in the country. The company has also diversified into hydro power generation, solar power generation, coal mining and oil & gas exploration, etc. The company is registered under the Companies Act, 1956. The company is also governed by the provisions of the Electricity Act, 2003 in respect of generation of electricity business. The company prepares its annual financial statements as per the provisions of the Companies Act, 1956. The company is also listed with the Bombay Stock Exchange and National Stock Exchange.

2. The company is functioning in a regulated environment. The tariff for sale of energy from its stations is determined by the Central Electricity Regulatory Commission (CERC). Tariff for sale of energy comprises of two components, namely, annual capacity (fixed) charges and energy (variable) charges. The capacity charges mainly consist of interest on loan capital, depreciation, return on equity, operation and maintenance expenses, interest on working capital etc. and to a large extent depend on the admitted capital cost of a generating station. The energy charges consist of primary fuel cost as stipulated in the tariff regulations.

3. The querist has provided the background of the issue raised as below:

(a)Land Acquisition Act, 1894 (hereinafter referred to as 'the Act') is applicable for acquisition of private land through the State Government for the projects of the

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Post Box No. 7100, New Delhi-110 002, India

company. As per the said Act, the compensation payable to the person whose land has been acquired (land loser) is determined by the Land Acquisition Officer (LAO) in the first instance. The compensation for the land acquired under the Act shall comprise in addition to the market value of land, an amount calculated at the rate of 12% per annum on the market value for the period commencing on and from the date of notification to the date of award or date of taking possession, whichever is earlier and further amount of 30% of the market value as solatium. The amount determined by the LAO is paid by the company to the land losers through the State Government. In case the land loser is aggrieved as regards the amount of the compensation or other matters, the Collector may, on an application by the land loser, refer the matter to the Court for determination of the compensation.

(b) Where the Court enhances the compensation, interest on the enhanced amount of compensation at the rate of 9% from the date of possession to the date of payment into Court for the first year and at the rate of 15% for the period beyond one year is payable as per section 28 of the Act.

(c)On an earlier reference to the Expert Advisory Committee (EAC) by an oil company for which opinion was finalized on February 23, 2006 (hereinafter referred to as 'oil company case') regarding accounting for interest paid on enhanced land compensation awarded by the courts under the Act, the EAC opined that interest payments (9% and 15%) referred in paragraph (b) above are "in the nature of cost for delay in the payment of enhanced compensation and are not directly attributable to bringing the asset to its working condition for its intended use. These costs also do not generate any future economic benefit. Accordingly, in the view of the Committee, these interest payments should not be capitalized but recognized in the profit and loss account for the year to which these are incurred".

4. *Present accounting practice followed by the company:*

(a)The basic price (market value), 12% p.a. on market value from the date of publication of notification under section 4 of the Act upto the date of award or possession

whichever is earlier and solatium, as determined by the LAO in terms of section 23 of the Act are treated as land cost.

(b) Where the land losers approach the Court demanding compensation higher than that awarded by the LAO and if the Court awards higher compensation, keeping in view the principles of conservatism and prudence, liability is provided for the enhanced compensation awarded by the court, including interest if any thereon, irrespective of fact whether the decisions are contested by the company or by the land losers before higher courts.

(c) Interest on the compensation awarded by the Court is recognised in the statement of profit and loss. Interest upto the date of commercial declaration of the first unit of the stage for which land has been acquired is capitalised as "Expenditure during Construction (EDC)", since during that period the entire project was under construction. Though this interest is not in the nature of borrowing costs, the accounting treatment followed by the company similar to the provisions of paragraph 16 of Accounting Standard (AS) 16, "Borrowing Costs", which states that "... *borrowing costs incurred while land is under development are capitalized during the period in which activities related to the development are being undertaken. ...*" (Emphasis supplied by the querist.)

(d) In respect of cases pending before the District Court (appeals against the amounts awarded by the LAO), the financial effect is disclosed as contingent liability after considering the following:

(i) In case the claims of some of the land losers are disposed off by a Court, the contingent liability in respect of the pending claims is disclosed considering the rate awarded by the Court in respect of cases in the same/adjacent locality.

(ii) If none of the cases have been decided by the Courts, opinion of the legal counsel dealing with the case is obtained with regard to tenability of the claims made and the amounts likely to be admitted by the Court taking into consideration the rate awarded by the land acquisition officer, decisions of the courts for land acquisition cases in the project vicinity and other relevant factors.

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Email: [illegible]

(e) Where interim payments are made as per directions of the Court, interest liability ceases on such payments from the date of payment into the Court, unless otherwise provided in the orders of the Court.

(f) In case a superior Court modifies the award of the lower Court, suitable updation of liability is carried out in the accounts in line with the decision of the superior Court, even though any appeals filed against such decision are pending.

5. The accounting treatment of land followed by the company is explained by way of an example as under:

Land acquired by the company (10 land losers 10 acres each)	= 100 acres
Market value of land awarded by the LAO	= Rs. 100 per acre
Date of publication of Notice u/s 4 of the Act	= 1st January, 2010
Date of possession of land by the company	= 31st March, 2010
Date of award by the LAO	= 31st March, 2010
Date of commercial declaration of first unit of the station	= 31st January, 2012
Amount deposited with LAO for land (calculated as under):	= Rs. 13,300/-

Market value of land	= Rs. 10,000/-
12% on market value upto the date of possession (10,000 X 0.12 X 3/12)	=Rs. 300/-
30% Solatium	=Rs. 3,000/-
	=Rs. 13,300/-

The amount of Rs. 13,300/- is capitalised as cost of land in the books of account.

After accepting the compensation awarded by the LAO, 5 land losers approach the District Court for enhancing the market value of land from Rs. 100 per acre to Rs.

200 per acre on 30th September, 2010 with consequential benefits. Further, the balance 5 land losers also approach Court for enhancing the market value of land from Rs. 100 per acre to Rs. 200 per acre on 31st December, 2010 with consequential benefits. The District Court after hearing the prayer of first 5 land losers enhances the market value of land from Rs. 100 per acre to Rs. 150 per acre on 30th November, 2012 along-with other entitlements as per the Act. The Court directs the collector to recalculate balance amount payable to the land losers. Such orders along-with the calculations for payments are received by the company from the office of the collector on 31st December, 2012. On 1st January, 2013, the company deposits the balance amount of Rs. 4,497/- with the LAO for payments to the land losers. The calculation of Rs. 4,497 is as under:

Differential market value of land	=Rs. 2,500/-
12% on market value upto the date of possession (2,500 X 0.12 X 3/12)	=Rs. 75/-
30% solatium	=Rs. 750/-
	=Rs. 3,325/-
Interest @ 9 % from 1st April, 2010 to 31st March, 2011 (3,325 X 0.09)	=Rs. 299/-
Interest @15% from 1st April, 2011 to 1st January, 2013) (3,325 X 0.15 X 21/12)	=Rs. 873/-
Total amount deposited with the LAO for 5 land losers	=Rs. 4,497/-

The enhanced compensation of Rs. 3,325/- is capitalised as cost of land. Interest of Rs. 299/- and Rs. 873/- is debited to the statement of profit and loss. Out of this, interest of Rs. 299/- (9% for one year) and Rs. 374/- (15% from 1st April, 2011 to 1st January, 2012

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i.e., the date of commercial declaration of the station) is capitalised as EDC since the entire project during this period was under construction.

6. The querist has stated that considering the guidelines given in paragraph 4 (d) above, claims of the land losers have been disclosed as under:

Financial Year 2010-11

Contingent liability of Rs. 14,497/- (differential market value of land with 12% on market value, 30% solatium and 9% interest from 1st April, 2010 to 31st March, 2011, i.e., Rs. 10,000/- (+) Rs. 300/- (+) Rs. 3,000/- (+) Rs. 1,197/-) is disclosed.

Financial Year 2011-12

Contingent liability of Rs. 14,497/- appearing in the accounts as at 31st March, 2011 is updated with 15% interest for the year 2011-12 and the amount of Rs. 16,492/- (i.e., differential market value of land with 12% on market value, 30% solatium, 9% interest for one year and 15% interest from 1st April, 2011 to 31st March, 2012, i.e., Rs. 10,000/- (+) Rs. 300/- (+) Rs. 3,000/- (+) Rs. 1,197/- (+) Rs. 1,995/-) is disclosed.

Financial Year 2012-13

On receipt of the judgment of the District Court on 31st December, 2012, an amount of Rs. 6,497/- is paid to the LAO based on the order of District Court. Contingent liability towards the claims of balance 5 land losers is updated based on the judgment of the Court in similar cases and disclosed at Rs. 4,872, (i.e., differential market value of land awarded by the district court along with 12% on market value, 30% solatium, 9% interest for one year and 15% interest from 1st April, 2011 to 31st March, 2013, i.e., Rs. 2,500/- (+) Rs. 75/- (+) Rs. 750/- (+) Rs. 259/- (+) Rs. 998/-).

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7. *New developments:*

In April 2012, the EAC of the Institute of Chartered Accountants of India (ICAI) pronounced another opinion which was finalised on 10th October, 2011 (hereinafter referred to as 'port trust case') relating to accounting for payments made in respect of land pending execution of conveyance deeds and borrowing costs incurred in respect thereof. The opinion related to the State Port Trust (SPT), entrusted with the construction of a new port by the Government of India (GOI) and subsequently handover it to a company as per the directions of the GOI. In the opinion, the Committee referred to paragraphs 49 (a), 58 and 88 of the Framework for the Preparation and Presentation of Financial Statements, issued by the ICAI and opined that the company should capitalise the total amount (including the interest) as cost of land as the interest in substance is part of the consideration of land.

8. *Points for Consideration*

The company is of the view that keeping in view the opinion of the EAC in the port trust case, there is a need to review the existing practice of accounting for interest on enhanced land compensation and the entire amount of enhanced compensation together with interest awarded by the Court should be treated as cost of land for the following reasons:

(a) As per paragraph 9.1 of Accounting Standard (AS) 10, 'Accounting for Fixed Assets', *"The cost of an item of fixed asset comprises its purchase price, including import duties and other non-refundable taxes or levies and any directly attributable cost of bringing the asset to its working condition for its intended use; any trade discounts and rebates are deducted in arriving at the purchase price. Examples of directly attributable costs are:*

(i) site preparation;
(ii) initial delivery and handling costs;
(iii) installation cost, such as special foundations for plant; and
(iv) professional fees, for example fees of architects and engineers.

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The cost of a fixed asset may undergo changes subsequent to its acquisition or construction on account of exchange fluctuations, price adjustments, changes in duties or similar factors". (Emphasis supplied by the querist.)

In the context of the land acquired under the Act, the price is initially determined by the LAO. The Act also has provisions for the land losers to make an application to the collector to refer the matter to the Court for determination of the compensation if they are not satisfied with the award of the LAO. The collector is obligated to make such reference and the Court thereupon determines the compensation taking into account various factors as provided in the Act. The decision of the Court can be challenged before the High Court and thereafter, to the Supreme Court as per the Code of Civil Procedure. Further, the Act also provides that if even in a single case the Court determines enhanced compensation compared to that awarded by the LAO, the other land losers can make an application for re-determination even though they have not previously made an application to the collector for reference to the Court. It is observed that invariably the award of the LAO is challenged and the land losers approach for enhanced compensation on various grounds. While there is a prescribed time for the collector to make an award, there is no such time limit for the Court to determine the compensation. Due to these reasons, the cost of the land acquired does not get finality for a considerable period of time.

It is observed that in many instances, with a view to expedite the project development, possession of the land is handed over to the company pending issuance of award by the LAO on deposit of 80% of the estimated compensation decided by the LAO. The awards are issued by the LAO subsequently following the procedure under the Act. Under the circumstances, the company provisionally capitalises the land in its books as per the best estimate of the cost incurred which is updated from time to time depending upon the developments in each case. Where the awards are challenged before courts, the cost of land is adjusted in the books as and when decisions of the courts are received. The above accounting treatment is similar to adjustment in the cost of assets provisionally capitalised pending final

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receipt of bills from the suppliers/contractors where upon receipt of final bills, adjustments are made in the asset cost as per the admitted bill amounts. This is also disclosed through accounting policy of the company which states that *"In the case of assets put to use, where final settlement of bills with contractors is yet to be effected, capitalization is done on provisional basis subject to necessary adjustment in the year of final settlement"* (emphasis supplied by the querist). AS 10 also recognises that the cost of a fixed asset may undergo changes subsequent to its acquisition or construction on account of exchange fluctuations, price adjustments, changes in duties or similar factors. The enhanced compensation awarded by the courts in the case of land acquisition together with interest thereon are in the nature of price adjustments subsequent to initial recognition as provided in AS 10 and should be recognised as cost of land.

(b) The compensation for land is determined by the collector or the Court considering various aspects including market value, standing crop, buildings, trees, wells, etc. on the land and any damages to the other property of the land loser. The market value of land is to be increased by 12% per annum for the period commencing on and from the date of publication of the notification under section 4 of the Act to the date of award of the collector or the date of taking possession of the land whichever is earlier. Solatium @ 30% of the market value is also to be paid due to the compulsory acquisition of the land. In cases where the Court enhances the compensation, it may order payment of interest on such excess @ 9% p.a. for the first year and 15% p.a. for the subsequent period till the payment of such excess into Court. It is submitted that all the above elements differ from one another only in the method by which they are computed and are in reality consideration paid for the acquisition of land. Accordingly, they should be treated as cost of land in terms of AS 10 since these payments are directly attributable to the acquisition of land. While AS 10 does not define 'directly attributable', drawing reference to the 'avoidability test' given in AS 16, it can be said that since all the above elements of cost, including interest, could have been avoided only if the company had not made the land acquisition, these are directly attributable costs. It may be appreciated that the competent authority to determine the compensation for the land acquired is the

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LAO or the Court (including the High Court or Supreme Court, where appeals are made) and until such determination is made by them, the cost is not finally known to the company. The company cannot avoid any such amount as finally determined by the courts and therefore, the same is a directly attributable cost for the land.

(c) As to the element of interest included in the compensation awarded by the Court, it may not be correct to term the same to be 'in the nature of cost for delay in the payment of enhanced compensation' since such interest arises due to the very process of determining the compensation specified in the Act which is inherently a time consuming affair. The amount of interest awarded by the courts does not constitute a penalty. Even assuming these are arising due to delays, such delays cannot be attributed to the company as primarily interest arises due to the time taken by various authorities for determination of the compensation and not due to any delay in payment of the compensation amount by the company. Even in those instances where the company appeals against the enhanced compensation awarded by a Court, the time taken by the higher Court for disposal of the appeal cannot be said to be a delay on the part of the company since the company, as a commercial organisation, is required to take all necessary actions to protect its interests. The company has also a moral obligation to ensure that the electricity tariffs for its customers do not go up on account of enhanced compensation awarded by the courts considered as unreasonable or excessive by it. In many instances the company has also seen that the enhanced compensation awarded by a lower Court has been rejected or significantly reduced by the higher courts.

(d) The views expressed by the EAC in the oil company opinion that the interest costs do not generate any future economic benefit are not substantiated. Land acquired under the Act is freehold land which is a non-depreciable asset with indefinite life. One of the reasons for not depreciating land is that usually land prices appreciate and therefore, there is no diminution in its value to be recognised in the financial statements. Drawing from the principles of Accounting Standard (AS) 28, 'Impairment of Assets', the economic benefit could be in the form of 'value in use' or 'net realisable value'. In any case, the cost of land would form part of the related

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cash generating unit and would be subjected to impairment testing as per AS 28. Therefore, it may not be fair to automatically conclude that the amounts paid as interest do not yield any future economic benefit.

The argument that there is no future economic benefit is particularly not relevant in the case of the company since tariffs for sale of energy are regulated by the Central Electricity Regulatory Commission (CERC). As per the Tariff Regulations issued by the CERC, the company is allowed to recover the capital cost incurred for generation of power by way of depreciation, interest on borrowed funds and a specified return on equity over the useful life of the asset. Where courts order payment of enhanced compensation for the land acquired, the company is entitled to approach the CERC for revision of the project cost for tariff purposes and the same would be considered by the CERC as per the Tariff Regulations providing "future economic benefits".

(e) For the sake of argument, let us assume that the LAO or Court determines the compensation as a lump sum amount without providing break-up for various elements considered. In such case, the entire amount would be treated as cost of land without the need to charge any portion thereof as "interest" to the statement of profit and loss. The methodology followed by the LAO or Court in determining the amounts payable for the land acquired should not guide the accounting in the books of the company. Applying the principle of substance over form, from the company's perspective the entire amount is a cost for the land acquired.

(f) In the port trust case also, the EAC has been guided by the substance over form principle and has stated that the entire amount paid should be treated as cost of land even though in arriving at the amount payable, an interest element was identified by the Government. While the facts of the port trust case are different from that of the oil company case (which squarely deals with land acquisition under the Act), certain important similarities are relevant. Firstly, the port company, from the beginning, obtained possession of the land though the price thereof was not fixed. Secondly, the IPT and the port company, undertook to be bound by the decision of

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the GOI on the cost of the land. In the case of land acquired by the company under the Land Acquisition Act, also (i) the possession of land is available pending final determination of compensation amount and (ii) the compensation amount is determined by an independent agency which is the LAO or the Court. The EAC in its opinion in the port trust case has been guided by the 'substance over form' principle and observed that "for accounting purposes, the transactions and events should be recorded in accordance with their substance and economic reality rather than legal form". Referring to paragraph 88 of the Framework for the Preparation and Presentation of Financial Statements, issued by the ICAI which states that "An asset is recognised in the balance sheet when it is probable that the future economic benefits associated with it will flow to the enterprise *and the asset has a cost or value that can be measured reliably*", the EAC noted that "until and unless the Government issued a final order that the title to the land can be obtained by the company alongwith determining the final payments that the company would make to SPT, *the cost of land cannot be measured reliably*". Accordingly, in accordance with paragraph 88 of the Framework, as reproduced above, the Committee was of the view that "*although in the extant case, the land may meet the criteria of an asset for the company, but before the financial year 2007-08 when the said order was issued by the Government of India, it cannot be recognised in the books of the company*". The EAC also opined that even though the compensation required to be paid by the port company included interest element, the same is not a borrowing cost nor it is payment for any delays on the part of the company. The EAC was of the view that "*... rate of interest is only as a reference point for determination of final sale consideration of the land and does not automatically lead to an inference that the amount so computed is of the nature of interest. In substance, the company is paying the total amount as a consideration to obtain the title to land*". It may be seen that the EAC opinion stresses on the fact that pending the Government order the cost of land could not be measured reliably. Drawing the same analogy, in the case of land acquired by the company, the acquisition is done as per the provisions of the Act where the LAO or the courts are the competent authorities to determine the compensation. The modus operandi for such determination is not relevant as in substance, all amounts paid by the company are consideration to obtain the title to

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land. As opposed to the port trust case, where perhaps the compensation amount was not disputed, in the case of land acquired by the company, the awards of the LAO are more often than not disputed before courts. Pending final determination of the compensation amount by the appropriate Court, the company provisionally recognises the payments made in respect of land in possession as land cost which is subsequently adjusted for increases/decreases ordered by the courts.
(Emphasis supplied by the querist.)

According to the querist, considering the above, it is submitted that the company is paying the total amount including interest to the land losers as consideration to obtain the title to land. Accordingly, the total amount should be recognised as cost of land in the books of account.

B. Query

9. The querist has sought the opinion of the Expert Advisory Committee on the following issues:

(a) Whether interest on enhanced land compensation awarded by the courts should be included in the capital cost of land.

(b) If answer to question (a) is negative, whether the current accounting practice of the company is in order.

(c) If answer to question (b) is also negative, what shall be the correct accounting treatment of such interest?

C. Points considered by the Committee

10. The Committee notes that the basic issue raised by the querist relates to accounting treatment of interest on enhanced land compensation. The Committee has, therefore, considered only this issue and has not examined any other issue that may be contained in

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the Facts of the Case, such as, accounting treatment of enhanced compensation and additional payments as mentioned in paragraph 3(a) above, accounting policy of the company for providing liability or disclosing contingent liability for the probable/possible enhancement in land compensation and interest thereon, propriety of capitalisation of land on provisional basis and updation of the same from time to time depending on the developments, etc. Further, the Committee's opinion expressed hereinafter is purely from accounting point of view and not from the angle of interpretation of various legal enactments, such as, Land Acquisition Act, etc. The Committee has also not examined the issue from the angle of tariff regulations issued by the CERC as the considerations for tariff determination may be different from accounting considerations. The Committee also wishes to point out that though the expression 'enhanced compensation' normally means original compensation plus increase in compensation, for sake of convenience, the Committee uses the expression 'enhanced compensation' as the difference between final compensation awarded by the Court (excluding 9% interest/15% interest) and the original compensation awarded by the Land Acquisition Officer (LAO).

11. At the outset, the Committee notes the earlier opinions of the Committee referred to by the querist in paragraph 3(c) above (viz., oil company case) and paragraph 7 above (viz., port trust case). The Committee also notes the arguments of the querist with respect to the earlier opinions of the Committee and is of the view that these deal with two different situations (as also admitted by the querist) as explained below:

(i) In the oil company case, initially the award for acquisition of land was given by the Land Acquisition Officer which was enhanced by the Court. Further, the Court also directed to pay interest @ 9%/15% on enhanced compensation for the period from the date of award/dispossession till the date of payment, though determined at a later date. Thus, the facts of this case were similar to the facts given in the present case.

(ii) In the port trust case, although the company in question had been handed over the possession of land by the transferor entity who had originally incurred certain costs for acquisition of land but at that time it was not clear

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> that which party will own that land, viz., the transferor entity or the company to whom the possession of the land was handed over (viz., the company in question). After few years, the Government decided that the land would be owned by the company in question and also determined the sale consideration by adding an amount equivalent to the interest at the rate of SBI PLR to the cost incurred by the transferor entity. Thus, the Committee had opined that SBI PLR was used as a benchmark to arrive at consideration *for the transfer of land.*

Since the facts are different in the two cases as discussed above, the opinion expressed on the oil company case differs from the opinion on the port trust case. However, though the facts of the case in oil company case are similar to facts of the extant case, the Committee notes that the earlier opinion in oil company case had apparently focused on the delay in payment of compensation by the company rather than on delay in the process of arriving at the final decision.

12. The Committee notes that section 18 of the 'Act' provides for reference to the Court by the Collector, at the instance of any interested person who has not accepted the award, for the determination by the Court of certain matters, which include the amount of the compensation. Sections 23 and 24 of the 'Act' specify the matters to be considered and matters to be neglected respectively by the Court in determining the amount of compensation to be awarded. As per section 25 of the 'Act', the amount of compensation awarded by the Court shall not be less than the amount awarded by the Collector under section 11. Section 28 of the 'Act' reads as below:

> **"28. Collector may be directed to pay interest on excess compensation:** If the sum which, in the opinion of the Court, the Collector ought to have awarded as compensation is in excess of the sum which the Collector did award as compensation, the award of the Court may direct that the Collector shall pay interest on such excess at the rate of nine per centum per annum from the date on which he took possession of the land to the date of payment of such excess into Court.

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Provided that the award of the Court may also direct that where such excess or any part thereof is paid into Court after the date of expiry of a period of one year from the date on which possession is taken, interest at the rate of fifteen per centum per annum shall be payable from the date of expiry of the said period of one year on the amount of such excess or part thereof which has not been paid into Court before the date of such expiry."

13. From the above, the Committee notes that since the award notified by the Land Acquisition Officer (LAO) may be enhanced by the Court in case reference is made to the Court, the compensation towards the acquisition of the land becomes final only on the date of the final award by the Court. The Committee further notes that the Land Acquisition Act itself recognises that the amount awarded by the LAO may not be final or acceptable to the land owners and accordingly, considering the long process of determination of final value of land, it envisages for the payment of various elements apart from the enhanced compensation such as interest @ 9% and 15% from the date of possession till the payment into the Court. The Committee also notes that till the final award of the Court, the quantum of interest to be paid cannot be determined as even the principal amount on which such interest payments are to be made is not determined and therefore, such interest is the result of the process of acquisition of land as per the Act. Accordingly, the Committee is of the view that 'interest' in the extant case is a part of the process for determination of purchase price of land and, therefore, in substance, should be considered as a component of purchase/ acquisition price only, to the extent the interest payments relate to the period of final determination of the price by the Court. Any interest beyond such period, viz., after the date of final award till the date of payment should not be capitalised and charged to the statement of profit and loss, since, interest after the date of Court's award is to compensate for delay in the payment of the enhanced compensation as finally awarded by the Court.

14. As regards the policy of the company to capitalise the interest on enhanced compensation incurred for the period before commercial declaration of the first unit of the stage for which land is acquired on the basis of the principles enunciated in AS 16, the Committee is of the view that any expenditure incurred during construction cannot be capitalised or expensed on the basis of the principles of AS 16. AS 16 prescribes principles

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for accounting treatment of borrowing costs. In the extant case, the interest payments cannot be considered as a 'borrowing cost' as there is no borrowing of funds by the company.

D. Opinion

15. On the basis of the above, the Committee is of the following opinion on the issues raised by the queries in paragraph 9 above:

(a) The interest payments on enhanced land compensation awarded by the Court should be included as cost of the land to the extent they relate to the period upto the date of Court's award. Any interest beyond that period should be treated as revenue expenditure and charged to the statement of profit and loss for the year of incurrence, as discussed in paragraph 13 above.

(b) No, the current accounting practice of the company is not in order, as discussed in paragraphs 13 and 14 above.

(c) See (a) above.

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Annexure-10-A/2

CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

Petition No. 598/GT/2020

Coram:

Shri I. S. Jha, Member
Shri Arun Goyal, Member
Shri Pravas Kumar Singh, Member

Date of Order: 17th April, 2023

In the matter of:

Petition for revision of tariff of Farakka Super Thermal Power Station, Stage-I & II (1600 MW) for the period 2014-19 period, after truing up exercise.

And

In the matter of:

NTPC Limited,
NTPC Bhawan,
Core-7, Scope Complex,
7, Institutional Area, Lodhi Road,
New Delhi - 110 003 **.....Petitioner**

Vs

1. West Bengal State Electricity Distribution Company Limited,
   Vidyut Bhawan, Block-DJ,
   Sector-II, Salt Lake City
   Kolkata – 700 091

2. Bihar State Power Holding Company Limited,
   Vidyut Bhawan, Bailey Road
   Patna – 800 001

3. Jharkhand Vidyut Vikas Nigam Limited,
   Engineering Bhawan,
   HEC, Dhurwa, Ranchi – 834004

4. GRIDCO Limited,
   24, Janpath, Bhubaneswar – 751007

5. Haryana Power Purchase Centre,
   Shakti Bhawan, Sector-6,
   Panchukla, Haryana - 134109

6. Power Department,
   Govt. of Sikkim, Kazi Road,
   Gangtok, Sikkim-737101

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Date: [illegible] 17:14:28 IST
Reason: [illegible]
Location: NTPC Limited

BOBR wagons of Rs.1019.38 lakh could not be met from the Compensation allowance /Special allowance, allowable to the Petitioner. In response, the Petitioner has clarified that the Respondents are objecting to the capitalization of this amount relying on the order dated 10.3.2017 passed in Petition No. 316/GT/2014. It has pointed out that in the said case, there was no clarity on extension of useful life of the generating station. However, with respect to generating station, the said units are operating at high PLF and supplying power to the beneficiaries even for the period 2019-24. The Petitioner has submitted that the Respondent UPPCL cannot mix the issue of IWC which has been provided in the 2014 Tariff Regulations to be on the normative basis and for the said purpose takes into account the energy charges prevailing for the last quarter of 2013-14 as the basis for determination of IWC. The Petitioner has also submitted that the additional capital expenditure on the above asset, would lead to a reduction in the actual ECR / energy charges being paid by the beneficiaries and cannot be confused with the issue of IWC. It has also submitted that the intention of providing Special allowance or Compensation allowance in the 2014 Tariff Regulations is not to replace the additional capitalisation for all times to come.

21. The submissions of the parties, have been considered. The admissibility of the claimed additional capital expenditure in terms of the provisions of the 2014 Tariff Regulations is examined below:

(Rs in lakh)

Sl. No.	Assets/Works	Claimed	Allowed	Reasoning
			2014-15	
1	Solar Power Generation unit	4.36	0.00	The additional capital expenditure claimed by the Petitioner under Regulation 14(3)(ii) of the 2014 Tariff Regulations, was dis-allowed by order dated 7.11.2021 in Petition No. 288/GT/2020 and by order dated 13.5.2022 in Petition No. 301/GT/2020 on the ground that the Petitioner has not justified the claim

Sl. No.	Assets/Works	Claimed	Allowed	Reasoning
				with any technical justification, duly supported by documentary evidence like test results carried out by an independent agency. It was also not clear as to what benefits/ advantages, the beneficiaries would derive on account of installation of the said asset. In the above background, the claim of the Petitioner is **not allowed**.
2	BOBR Complete Wagons/ Electro Pneumatic Operated Wagon	47.32	47.32	The Petitioner has claimed additional capital expenditure under Regulation 14(3)(x) of the 2014 Tariff Regulations. In justification of the same, it has submitted that the sanctioned strength of MGR Wagons is 276 nos., but as on date there are only 219 MGR wagons, for coal transportation from Lalmatia mines through deployment of 4 rakes in MGR circuit. It has also submitted that in view of the enhanced coal off take program from linked mines of Lalmatia from 2014-15 onwards, for optimization of coal cost vis-à-vis cost of generation, in line with Regulations, the 5th rake was operated at the earliest to maximize coal off take from Lalmatia. It is observed from the Form 15 that the generating station is required to procure imported coal for meeting its generation requirements. As such, the new rake for increasing off take from the linked mines would definitely reduce the ECR of the generating station and would benefit the beneficiaries of the generating station. Accordingly, Commission finds it prudent to allow the expenditure on procurement of BOBR wagons. Further, considering the fact that Compensation allowance allowed to the generating station does not cover such expenditure on procurement of new BOBR wagons, Commission in relaxation of second proviso to Regulation 14(3) of the 2014 Tariff Regulations which regulates any capital expenditure other than [illegible] nature specified in clauses [illegible]

Sl. No.	Assets/Works	Claimed	Allowed	Reasoning
				of Regulation 14(3) to be met from Compensation allowance, allows the claimed expenditure under Regulation 14(3)(x).
	Total amount claimed	**51.67**		
	Total amount allowed		**47.32**	
			2016-17	
1	Fire Detection System for CHP	179.80	179.80	The additional capital expenditure claimed by the Petitioner under Regulation 14(3)(ii) and Regulation 14(3)(iii) of the 2014 Tariff Regulations, was allowed by order dated 7.11.2021 in Petition No. 288/GT/2020 on the ground that the expenditure for the asset is for statutory compliance. In this background, the claim of the Petitioner is **allowed**.
2	Continuous Emission Monitoring System	177.75	177.75	As the additional capital expenditure incurred is for compliance to the orders of CPCB dated 5.2.2014 and the Environment (Protection) Amendment Rules, 2015 (MoEFCC Notification) dated 7.12.2015, the claim of the Petitioner is **allowed** under Regulation 14(3)(ii) of the 2014 Tariff Regulations.
3	Effluent Quality Monitoring System	34.79	34.79	
	Total amount claimed	**392.33**		
	Total amount allowed		**392.33**	
			2017-18	
1	Continuous Emission Monitoring System (CEMS)	8.59	8.59	The asset has been **allowed**, as discussed under Sl No. 2 in 2016-17 above
2	Fire Detection System for CHP	0.58	0.58	The asset has been **allowed**, as discussed under Sl No. 1 in 2016-17 above
3	Procurement of 400 KV circuit breakers	338.27	0.00	The Petitioner has claimed the additional capital expenditure under Regulation 14(3)(iii) of the 2014 Tariff Regulation on the ground of obsolescence. Regulation 14(3)(iii) of the 2014 Tariff Regulations allows expenditure for higher security and safety of the plant. As such, Regulation 14(3)(iii) of the 2014 Tariff Regulations is not applicable for procurement of circuit breaker. As per second proviso to Regulation 14(3) of the 2014 Tariff Regulations, it is very clear that any capital expenditure [illegible]

Sl. No.	Assets/Works	Claimed	Allowed	Reasoning
				of the nature specified in clauses (i) to (iv) of the Regulation 14(3) of the 2014 Tariff Regulations, in case of coal/lignite-based station, shall be met out of compensation allowance. As the Petitioner has been allowed Compensation allowance of Rs.4000 lakh during the period 2014-19, the claim towards Procurement of 400 KV circuit breakers is **not allowed.**
4	Installation of energy efficient lighting & fixtures	149.99	0.00	The additional capital expenditure claimed by the Petitioner under Regulation 14(3)(ii) of the 2014 Tariff Regulations, was dis-allowed by order dated 7.11.2021 in Petition No. 288/GT/2020 and by order dated 13.5.2022 in Petition No. 301/GT/2020. In line with the said decisions, the claim of the Petitioner is **not allowed**.
	Total amount claimed	**497.43**		
	Total amount allowed		**9.17**	
		2018-19		
1	4 X 10 KW Solar PV Grid	26.64	0.00	These assets are **not allowed**, as discussed under Sl.No.1 in 2014-15 above
2	Solar Power Generating Unit	0.28	0.00	
3	BOBR Complete Wagons	1019.38	1019.38	This asset is **allowed**, as discussed under Sl.No. 2 in 2014-15 above.
4	Upgradation of DDCMIS for Stage-II	6552.99	6552.99	The Petitioner has claimed the additional capital expenditure under Regulation 14(3)(iii) and Regulation 54 of the 2014 Tariff Regulation on the ground of obsolescence. In this regard, Commission is of the opinion that role of updated DDCMIS in efficient, reliable and safe operation of the plant needs no debate and as such, the corresponding expenditure on replacement of obsolete DDCMIS has been consistently allowed by the Commission to various generating stations of the Petitioner as well as other generating companies. In the instant case also, the Petitioner has submitted the supporting documents towards obsolescence. However, the Regulation [illegible] under which the [illegible]

Sl. No.	Assets/Works	Claimed	Allowed	Reasoning
				been claimed is not directly applicable as it requires advise or direction from the appropriate Government Agency or statutory authority which is not available in this case. Accordingly, Commission in consideration of the necessity of the expenditure incurred for safe operation of the plant, allows the expenditure under Regulation 14(3)(iii) as additional capital expenditure by invoking its power to relax under Regulation 54 to relax the requirement of advice or direction from appropriate Government Agency or statutory authority.
	Total amount claimed	**7599.27**		
	Total amount allowed		**7572.37**	

22. Accordingly, the additional capital expenditure allowed, on cash basis, before consideration of decapitalisation of spares, discharged liabilities and disallowed exclusions, is as under:

Sl. No	Head of Work /Equipment	Additional Capital Expenditure allowed on cash basis					
		2014-15	2015-16	2016-17	2017-18	2018-19	Total
1.	Fire Detection System for CHP	0.00	0.00	179.80	0.58	0.00	180.38
2	Continuous Emission Monitoring System	0.00	0.00	177.75	8.59	0.00	186.33
3	Effluent Quality Monitoring System	0.00	0.00	34.79	0.00	0.00	34.79
4	Procurement of 400 KV circuit breakers	0.00	0.00	0.00	0.00	0.00	0.00
5	Installation of energy efficient lighting & fixtures	0.00	0.00	0.00	0.00	0.00	0.00
6	4 X 10 KW Solar PV Grid	0.00	0.00	0.00	0.00	0.00	0.00
7	BOBR Complete Wagons	47.32	0.00	0.00	0.00	1019.38	1066.70
8	Solar Power Generating Unit	0.00	0.00	0.00	0.00	0.00	0.00
9	Upgradation of DDCMIS for Stage II	0.00	0.00	0.00	0.00	6552.99	6552.99
	Total additional capital expenditure allowed	**47.32**	**0.00**	**392.33**	**9.17**	**7572.37**	**8021.19**

Assumed Deletion

23. As per consistent methodology adopted by the Commission, the expenditure on replacement of assets, if found justified, is allowed for the purpose of tariff provided that

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Annexure-10-A/3

भारत का राजपत्र
The Gazette of India

असाधारण

EXTRAORDINARY

भाग III—खण्ड 4

PART III—Section 4

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

सं. 211] नई दिल्ली, शुक्रवार, अगस्त 20, 2010/श्रावण 29, 1932

No. 211] NEW DELHI, FRIDAY, AUGUST 20, 2010/SHRAVANA 29, 1932

CENTRAL ELECTRICITY AUTHORITY

NOTIFICATION

New Delhi, the 20th August, 2010

No. CEA/TETD/MP/R/01/2010.—In exercise of the powers conferred by sub-section (2) of Section 177 of the Electricity Act, 2003, the Central Electricity Authority hereby makes the following regulations namely :—

1. Short Title and Commencement.—(1) These regulations may be called the Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2010.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. Definitions.—(1) In these regulations, unless the context otherwise requires,—

(a) "Act" means the Electricity Act, 2003;

(b) "Authority" means the Central Electricity Authority established under sub-section (2) of Section 70 of the Act;

(c) "Base Load Operation" means operation at maximum continuous rating (MCR) or its high fraction;

(d) "Basic Insulation Level (BIL)" means reference voltage level expressed in peak (crest) voltage with standard 1.2/50 μs lightning impulse wave. Apparatus should be capable of withstanding test wave of basic insulation level or higher;

(e) "Black Start" means the start up of a generating unit or gas turbine or internal combustion (IC) engine based generating set without use of external power following grid failure;

(f) "Boiler Maximum Continuous Rating (BMCR)" means the maximum steam output, the steam generator (boiler) can deliver continuously at rated parameters;

(ii) The demineralized water shall be stored in minimum 2 nos. DM water storage tanks of total storage capacity equal to 24 hour Station requirement.

(e) *Waste Water Treatment System*

The waste water generated at various locations shall be segregated at the source of generation according to its type. Similar type of waste water shall be collected at one point and treated. The treated water shall be collected in central monitoring basin and recycled for plant use or disposed off complying with the requirements of MOE&F and any other stipulation of the CPCB and SPCB in this regard.

(5) **Fire detection, alarm and protection system**

(a) A comprehensive fire detection, alarm as well as fire protection system shall be installed for the Station in conformity with relevant IS. In addition, all buildings shall conform to National Building Code. Fire protection system shall be designed as per the guidelines of Tariff Advisory Committee (TAC) established under Insurance Act 1938 and /or NFPA.

(b) Automatic fire detection and alarm system shall be intelligent and addressable type and shall be provided to facilitate detection of fire at the incipient stage and give warning to the fire fighting staff.

(c) Major equipment to be used for fire detection and protection system shall be in accordance with Indian Standards or UL (Underwriters Laboratories, USA) or FM (Factory Mutuals, USA) or LPCB (Loss Prevention Certification Board, UK) or VDS (Germany).

(d) Dedicated fire water storage and pumping facilities shall be provided for the fire fighting system as per TAC guidelines. Main fire water pumps shall be electrically driven and standby pumps shall be diesel engine driven.

(e) Hydrant system, complying with TAC guidelines, shall be provided at various locations to cover the entire Station.

(f) All major and minor fire risks in the Station shall be protected against fire by suitable automatic fire protection systems. Following systems shall be generally adopted for various fire risks:

(i) Automatic high velocity water spray system, complying with TAC guidelines, shall be provided for the following areas:

(A) Transformers of rating 10 MVA and above or oil filled transformers with oil capacity of more than 2000 litres;

(B) Alternatively, these transformers may be provided with Nitrogen injection based fire protection system. The transformers of 220kV or higher voltage may preferably be provided with Nitrogen injection based fire protection system in addition to automatic high velocity water spray system;

(C) Lubricating oil systems including storage tanks, purifier units, coolers, turbine oil canal pipelines;

(D) Generator seal oil system tanks, coolers;

(E) Steam generator burner fronts.

(ii) Steam turbine bearing housing and air pre-heater shall be provided with manually actuated high velocity water spray system.

(iii) Automatic medium velocity water spray system, complying with TAC guidelines, shall be provided for the areas relating to:

(A) Cable galleries, cable vaults, cable spreader rooms, cable risers, cable shafts etc.;

(B) Coal conveyors, transfer points, crusher houses etc.;

(C) Fuel oil pumping stations;

(D) LDO and day oil tanks;

(E) DG set building.

(iv) Automatic foam system shall be provided for fuel oil storage tanks as per NFPA guidelines.

(v) Automatic inert gas flooding system, comprising of 2x100% inert gas cylinder batteries and conforming to NFPA, shall be provided for Unit control rooms, control equipment rooms and area above false ceiling of these rooms.

(g) Portable fire extinguishers as per TAC guidelines shall be provided for each room/area of power station in addition to fixed fire protection system to extinguish fire in its early phase to prevent its spread.

(h) Fire station and fire tenders alongwith trained staff shall also be provided for the Station.

(i) Passive fire protection measures such as fire barriers for cable galleries and shafts etc., fire retardant coatings, fire resistant penetration sealing for all openings in floors, ceilings, walls etc., fire proof doors etc. shall be provided to prevent spreading [illegible] containment of fire.

(6) **Compressed air system**

(a) Compressed air system comprising of instrument air and service air shall be provided to cater to the requirement for operation of various pneumatically operated drives and general purpose cleaning and maintenance services. Air dryers shall be provided for instrument air to achieve desired dryness.

(b) At least one number air compressor shall be provided as standby.

(7) **Ventilation and air-conditioning system**

(a) Suitable ventilation and air-conditioning system shall be provided to achieve proper working environment in the Station.

(b) Central control room, local control rooms and service building for O&M personnel shall be air conditioned. Air- conditioned areas shall be maintained at about 25°C and 50 % relative humidity for comfort conditions. Water chilling unit or condensing units shall have 2x100% capacity equipment. Package type air-conditioners shall have 2x100% capacity or 3x50% capacity equipment. For window air conditioners and split air conditioners, if used for small control rooms, at least one unit shall be kept as standby.

(c) The type of ventilation systems to be provided for non-air conditioned areas shall be as under:

(i) All floors of TG building, switchgear rooms and cable gallery	: Evaporating cooling system
(ii) Other buildings	: Mechanical ventilation system

(8) **Mill rejects system**- The mill rejects system shall be provided to collect reject from coal mills in case of vertical mills. The system shall be mechanized i.e. drag chain conveyor or pneumatically pressurized conveying system. The system shall consist of collection of rejects from each coal mill and transport to silos for final disposal.

(9) **Electric overhead travelling (EOT) crane**

(a) The EOT cranes shall be provided for maintenance of TG cycle equipment and CW pumps. These shall comply with the requirements of latest versions of relevant IS. The crane capacity shall be taken as 10% more than the single heaviest equipment to be lifted.

CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

Petition No. 416/GT/2020

Coram:
Shri I.S. Jha, Member
Shri Arun Goyal, Member
Shri Pravas Kumar Singh, Member

Date of Order: 5th October, 2023

In the matter of:

Petition for determination of tariff of Ramagundam Super Thermal Power Station Stages-I&II (2100 MW) for the period 2019-24.

AND

In the matter of:

NTPC Limited,
NTPC Bhawan,
Core-7, Scope Complex
7, Institutional Area, Lodhi Road,
New Delhi-110003 **.... Petitioner**

Vs

1. AP Eastern Power Distribution Company Limited,
   Corporate Office, P&T Colony, Seethammadhara,
   Visakhapatnam – 530 013 - (AP)

2. AP Southern Power Distribution Company Limited,
   Corporate Office, Back Side Srinivasa Kalyana Mandapam,
   Tiruchhanur Road, Kesavayana Gunta,Tirupathi – 517 503 (AP)

3. Telangana State Northern Power Distribution Company Limited,
   H.No. 2-5-31/2, Vidyut Bhavan, Nakkalagutta, Hanamkonda
   Warangal – 506 001 (AP)

4. Telangana State Southern Power Distribution Company Limited,
   Mint Compound, Corporate Office, Hyderabad (AP) – 500 063

5. Tamil Nadu Generation & Distribution Corporation Limited,
   144, Anna Salai, Chennai – 600 002

6. Bangalore Electricity Supply Company Limited,
   Krishna Rajendra Circle, Bangalore - 560 009

7. Mangalore Electricity Supply Company Limited,
   MESCOM bhavana, Corporate Office, Bejai, kavoor cross road,

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Date: [illegible]
Reason: [illegible]
Location: NTPC [illegible]

Fire Detection and Protection System

10. The Petitioner has claimed the projected additional capital expenditure of Rs.611 lakh in 2019-20 and Rs.67 lakh in 2020-21, towards Fire detection and Protection system, under Regulation 26(1)(b) and Regulation 26(1)(d) of the 2019 Tariff Regulations. In justification for the same, the Petitioner has submitted that augmentation of Fire Protection system is being carried out, in the cable gallery and Oil tanks, by installing fire protection system viz. Emulsifier, foam system to prevent any catastrophic damage in case fire breaks out in cable gallery since the existence of cables makes it vulnerable to fire hazard and the existing fire protection equipment may not be able to control the spread of fire. It has also submitted that fire detections and protection system is required to be installed for safety and security, as per the Central Electricity Authority (CEA) (Technical standards for construction of Electric plants and lines), Regulations, 2010 and CEA (safety requirement for Construction, Operation and Maintenance of Electric plants and Electric lines), Regulations, 2011. Accordingly, the Petitioner has prayed to allow the capitalisation of the expenditure under Regulations 26(1)(b) and Regulation 26(1)(d) of the 2019 Tariff Regulations.

11. The Respondent TANGEDCO has submitted that six units of the generating station were commissioned during the period from 1984 to 1991. It has further submitted that the Petitioner has not clarified, as to whether any Fire protection system was installed in cable gallery and oil tank areas and also regarding the need for going in for an augmentation of new system at the tag end of the generating station. The Respondent has also submitted that the expenses towards upkeep shall be met out from the Special allowances claimed by the Petitioner and therefore this claim of the Petitioner may be rejected.

12. The matter has been examined. Considering the essentiality of the firefighting equipment in critical areas and in line with Regulation 12(5) of CEA Regulations, 2010, the projected additional capital expenditure claimed is **allowed** under Regulation 26 (1) (b) of 2019 Tariff Regulations.

Medium Velocity Water (MVW) system for CHP package

13. The Petitioner has claimed projected additional capital expenditure of Rs.283 lakh in 2020-21, towards MVW system for CHP package, under Regulation 26(1)(b) read with Regulation 26(1)(d) of the 2019 Tariff Regulations. In justification for the same, the Petitioner has submitted that MVW system is required to be installed for safety and security, as per the Regulation 12(5) of Central Electricity Authority (Technical standards for construction of Electric plants and lines), Regulations, 2010 and Central Electricity Authority (safety requirement for Construction, Operation and Maintenance of Electric plants and Electric lines), Regulations, 2011. The Petitioner has further submitted that augmentation of fire protection system of Coal Handling Plant (CHP) and stacker reclaimer area is required to prevent any catastrophic damage in case fire breaks out in CHP, as existence of coal in CHP area makes it vulnerable to fire hazard and mobile fire protection equipment may not be able to control the spread of fire. Accordingly, it has prayed to allow the capitalisation of the expenditure claimed under Regulation 26(1)(b) and Regulation 26(1)(d) of the 2019 Tariff Regulations.

14. The Respondent TANGEDCO has submitted that MVW system for CHP is neither admissible under change in law, nor eligible to be considered for safety and security of the plant, hence this claim may be dismissed. The Respondent has further

Annexure-10-A/5

CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

Petition No. 433/GT/2020

Coram:
Shri I.S. Jha, Member
Shri Arun Goyal, Member
Shri Pravas Kumar Singh, Member

Date of Order: 15th September, 2023

In the matter of:

Petition for determination of tariff of Rihand Super Thermal Power Station Stage-I (1000 MW) for the period 2019-24.

AND

In the matter of:

NTPC Limited,
NTPC Bhawan,
Core-7, Scope Complex 7,
Institutional Area, Lodhi Road,
New Delhi-110003 .... **Petitioner**

Vs

1. Uttar Pradesh Power Corporation Limited,
   Shakti Bhawan, 14, Ashok Marg,
   Lucknow 226001
2. Rajasthan Urja Vikas Nigam Limited,
   Vidyut Bhawan, Janpath,
   Jaipur 302005
3. Tata Power Delhi Distribution Limited,
   Grid Substation, Hudson Road,
   Kingsway Camp, Delhi- 110019
4. BSES Rajdhani Power Limited,
   2nd Floor, B-Block, BSES Bhawan, Nehru Place,
   New Delhi- 110019
5. BSES Yamuna Power Limited,
   Shakti Kiran Building,
   Karkardooma, Delhi- 110092
6. Haryana Power Purchase Center,
   Shakti Bhawan, Sector-VI,
   Panchkula, Haryana - 134109

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Reason: Approved
Location: NTPC Delhi

12. The matter has been considered. The Petitioner has claimed additional capital expenditure under the head of 'change in law'. Clause 2(10) of the MoEF&CC Notification dated 25.1.2016, provides as under:

> *"Every Coal or lignite based thermal power plant shall install dedicated dry ash silos having separate access roads so as to ease the delivery of fly ash."*

13. In our view, the installation of DAES shall help in reducing the burden of ash disposal in the ash dyke area, which will also reduce the regular or time to time capitalization of expenditure for raising of ash dyke and environmental ground water pollution. Further, similar additional expenditure claimed by the Petitioner had been allowed vide Commission's order dated 6.6.2022 in Petition No. 425/GT/2020 (tariff of Sipat STPS-I). In this background and keeping in view that the additional expenditure claimed is for compliance to the existing norms in terms of the MOEF&CC notification and the order of NGT, the claim of the Petitioner **is allowed** under Regulation 26(1)(b) of the 2019 Tariff Regulations. The Petitioner is, however, directed to furnish the details of the revenue earned from sale of fly ash (excluding transportation charges if any paid by the petitioner) along with a copy of accounts, duly certified by the auditor, in terms of the said notification, at the time of truing up of tariff.

Augmentation of the Fire Detection and Protection System (CHP)

14. The Petitioner has claimed projected additional capital expenditure of Rs.276 lakh in 2019-20, towards Augmentation of Fire detection and protection system, under Regulation 26(1) (b) of the 2019 Tariff Regulations. In justification for the same, the Petitioner has submitted that the amount proposed to be capitalised is the balance payment of the works carried out for augmentation of the fire protection system of Coal Handling Plant (CHP) in line with Regulation 12(5) of Central Electricity Authority (CEA) (Technical Standards for construction of Electrical Plants and Electric Lines) Regulations, 2010 and the same was essentially required to prevent any

damage in case fire breaks out in CHP as presence of coal in CHP area makes it vulnerable to fire hazard and mobile fire protection equipment may not be able to control the spread of fire. The Petitioner has submitted that the Appellate Tribunal for Electricity (APTEL) vide order dated 5.8.2019 in Appeal No. 40 of 2017 had allowed similar additional capitalisation, in respect of other generating stations of the Petitioner for the period 2014-19 i.e. for Talcher I & II, Simhadri etc.

15. The Respondent UPPCL has submitted that Commission in its order dated 23.8.2016 in Petition 291/GT/2014 has disallowed the same claim of the Petitioner on the ground that it is not a change in law event and has directed the Petitioner to meet the expenditure from special allowance allowed to the Petitioner.

16. The matter has been examined. It is noticed that the asset claimed by the Petitioner was disallowed by the Commission vide its order dated 23.8.2016 in Petition 291/GT/2014, on the ground that the Petitioner had not established that the augmentation of a firefighting system was due to any change in law event and had directed the said claim may be met from the Special Allowance, allowed to the generating station for the period 2014-19. However, APTEL vide its judgment dated 5.8.2019 in Appeal No. 40 of 2017, had opined that the CEA Regulations, 2010 for augmentation of firefighting system constitutes as change in law event, in terms of Regulation 14 (3)(ii) of the 2014 Tariff Regulations and had accordingly allowed the claim of the Petitioner towards augmentation of firefighting system. The relevant portion of the order is quoted as under:

> *"Our Findings:*
> *14.7.5 We have considered the rival contentions of both the parties in the matter and also perused the findings of the Central Commission in its impugned order regarding disallowance of the expenditure towards installation of inert gas firefighting system. It is admitted fact that prior to notification of the referred CEA Regulations, 2010, the generating stations were provided with CO2 gas based firefighting system and after the notifications, the system was required to be augmented with fire[illegible] based on inert gas. The Appellant in pursuance of the Montreal [illegible]*

Regulations, 2010 went ahead for installation of inert gas firefighting system and incurred an expenditure of Rs. 161 lakh. While referring to the order dated 21.02.2017 of the Central Commission in respect of another thermal station namely Talchar Super Thermal Power Station Stage-I (1000 MW) relating to identical issue, we note that the Central Commission has acknowledged that CEA Regulations, 2010 for augmentation of firefighting system constitutes change in law in terms of Regulation 14 (3)(ii) i.e. compliance of any existing laws and accordingly has allowed the claim of NTPC for capitalisation of expenditures towards augmentation of firefighting system. We, therefore, opine that the claim of NTPC regarding augmentation of firefighting system is duly covered by the referred order of CERC. Accordingly, the claim of NTPC - Rs. 161 lakh for installation of inert gas firefighting system would need to be appraised by the Central Commission afresh in accordance with law.'

17. In line with the above decision, the claim of the Petitioner **is allowed** under Regulation 26(1)(b) of the 2019 Tariff Regulations.

CLO_2 Package

18. The Petitioner has claimed projected additional capital expenditure of Rs.103.33 lakh in 2019-20 and Rs.930.00 lakh in 2020-21, towards CLO_2 Package, under Regulation 26(1) (b) read with Regulation 26(1) (d) of the 2019 Tariff Regulations. In justification for the same, the Petitioner has submitted that the CLO2 Plant is being installed to enable a much safer way of producing CLO2 on site, by use of commercial grade HCl and sodium chlorite, instead of present practice of Chlorine gas, being dozed directly. It has stated that Chlorine gas is very hazardous and may prove fatal in case of leakage and handling & storage of same involves risk to the life of public at large and in the interest of public safety, the chlorine dozing system is now being replaced by CLO2 system, which is much safer and less hazardous than chlorine. The Petitioner has further submitted that at its Kudgi project, Department of Factories, Boiler, Industrial Safety and Health, Government of Karnataka has directed the Petitioner to replace highly hazardous gas Chlorination system with ClO2 system. SPCB, Odisha while issuing consent to establish in case of Darlipalli Station has asked the Petitioner to explore the possibility of installing ClO2 system instead of Chlorine gas system. In view of the directions of the various statutory authorities in different

Annexure-10-A/5

APPELLATE TRIBUNAL FOR ELECTRICITY AT NEW DELHI

(APPELLATE JURISDICTION)

APPEAL NO. 40 OF 2017

Dated : 05th August, 2019

Present: **Hon'ble Mrs. Justice Manjula Chellur, Chairperson**
Hon'ble Mr. S.D. Dubey, Technical Member

IN THE MATTER OF :

NTPC Limited
NTPC Bhavan,
Core – 7, Institutional Area, Lodhi Road,
New Delhi - 110003 **...APPELLANT**

VERSUS

1. Central Electricity Regulatory Commission
   3rd & 4th Floor, Chanderlok Building,
   36, Janpath,
   New Delhi- 110001

2. Kerala State Electricity Board Limited,
   Vaidyuthi Bhavanam,Pattom
   Thiruvananthapuram-695004 **...RESPONDENT(S)**

Counsel for the Appellant (s) : Mr. Sanjay Sen, Sr. Adv.
Mr. Pratiksha Chaturvedi

Counsel for the Respondent(s) : Mr. Manu Seshadri
Mr. Samarth Chowdhary for R-1

Mr. Mukund P. Unny
Mr. P.V. Dinesh
Ms. Sreeja for R-2

order dated 21.02.2017, the Central Commission has allowed the expenditure on installation of inert gas firefighting system. Accordingly, the instant case is squarely covered by the said order of CERC and needs to be applied in the present case.

7.5 ***Per contra,*** learned counsel for the Respondent No.2/KSEBL submitted that the regulation brought about by CERC itself will prove that the CEA regulation relied on by the Appellant-NTPC is neither a new law nor a re-enactment or adoption or change in interpretation or application and thus do not come under any of the clauses under the definition of 'Change in Law' as notified in the CERC Regulations. Accordingly, the proposed expenditure of Rs.161 lakhs has been rightly disallowed by CERC and the Appellant may be directed to account such expenditure, if any, in the O&M cost.

Our Findings:-

7.5 We have considered the rival contentions of both the parties in the matter and also perused the findings of the Central Commission in its impugned order regarding disallowance of the expenditure towards installation of inert gas firefighting system. It is admitted fact that prior to notification of the referred CEA Regulations,

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Reason: Authorship
Location: NTPC-Delhi

2010, the generating stations were provided with CO2 gas based firefighting system and after the notifications, the system was required to be augmented with fire fighting system based on inert gas. The Appellant in pursuance of the Montreal Protocol & CEA Regulations, 2010 went ahead for installation of inert gas firefighting system and incurred an expenditure of Rs.161 lakh. While referring to the order dated 21.02.2017of the Central Commission in respect of another thermal station namely Talchar Super Thermal Power Station Stage-I (1000 MW) relating to identical issue, we note that the Central Commission has acknowledged that CEA Regulations, 2010 for augmentation of firefighting system constitutes change in law in terms of Regulation 14 (3)(ii) i.e. compliance of any existing laws and accordingly has allowed the claim of NTPC for capitalisation of expenditures towards augmentation of firefighting system. We, therefore, opine that the claim of NTPC regarding augmentation of firefighting system is duly covered by the referred order of CERC. Accordingly, the claim of NTPC - Rs. 161 lakh for installation of inert gas firefighting system would need to be appraised by the Central Commission afresh in accordance with law.

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Location: NTPC Dadri

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Annexure-10-A/7
REGD. NO. D. L.-33004/99

भारत का राजपत्र
The Gazette of India

असाधारण
EXTRAORDINARY
भाग III—खण्ड 4
PART III—Section 4
प्राधिकार से प्रकाशित
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सं. 116] नई दिल्ली, बुधवार, अप्रैल 28, 2010/वैशाख 8, 1932
No. 116] NEW DELHI, WEDNESDAY, APRIL 28, 2010/VAISAKHA 8, 1932

ऊर्जा दक्षता ब्यूरो

अधिसूचना

नई दिल्ली, 28 अप्रैल, 2010

सं. 02/11(6)/05-बीईई.— ऊर्जा संरक्षण अधिनियम, 2001 (2001 का 52) की धारा 56 की उपधारा (1) की अधिदेशानुसार केन्द्रीय सरकार विनिर्दिष्ट अवधि ऊर्जा दक्षता ब्यूरो (ऊर्जा संरक्षण करने के लिए रीति और समय अंतराल) विनियम, 2009 ऊर्जा दक्षता ब्यूरो की अधिसूचना संख्यांक 02/11 (6)/05, तारीख 22 दिसम्बर, 2009 द्वारा भारत के राजपत्र, असाधारण, भाग 3, खंड 4, तारीख 28 दिसम्बर, 2009 में प्रकाशित किए गए थे जिनमें उन सभी व्यक्तियों से जिनसे उनसे प्रभावित होने की संभावना थी, उक्त अधिसूचना के राजपत्र में प्रकाशन की तारीख से पैंतालिस दिन की अवधि के भीतर आक्षेप और सुझाव मांगे गए थे।

और उक्त प्रारूप विनियम तारीख 28 दिसम्बर, 2009 को राजपत्र में प्रकाशित कर दिए गए थे।

और उक्त प्रारूप विनियमों की बाबत विशिष्टतः अवधि के भीतर कोई आक्षेप या सुझाव प्राप्त नहीं हुए हैं।

अतः अब, ऊर्जा दक्षता ब्यूरो केन्द्रीय सरकार के पूर्व अनुमोदन से उक्त अधिनियम की धारा 56 की उपधारा (2) के खंड (ङ) के साथ पठित धारा 58 की उपधारा (2) के खंड (ङ) द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए निम्नलिखित विनियम करता है, अर्थात्:-

1. **संक्षिप्त नाम और प्रारंभ** - (1) इन विनियमों का संक्षिप्त नाम ऊर्जा दक्षता ब्यूरो (ऊर्जा संरक्षण करने के लिए रीति और समय अंतराल) विनियम, 2010 है।

(2) ये राजपत्र में उनके प्रकाशन की तारीख को प्रवृत्त होंगे।

2. **परिभाषाएं** - (1) इन विनियमों में जब तक कि संदर्भ से अन्यथा अपेक्षित न हो,-

(क) "अधिनियम" से ऊर्जा संरक्षण अधिनियम, 2001 अभिप्रेत है ;

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(ख) "ऊर्जा लेखापरीक्षा रिपोर्ट" से विनियम 3 के अधीन प्रस्तुत और किसी प्रमाणित ऊर्जा लेखापरीक्षक द्वारा सत्यापित ऊर्जा लेखापरीक्षा रिपोर्ट अभिप्रेत है ;

(ग) "प्रपत्र" से इन विनियमों से संलग्न प्रपत्र अभिप्रेत है ;

(घ) "विनिर्दिष्ट ऊर्जा खपत" से संपूर्ण वित्तीय वर्ष के लिए उत्पादन या उत्पादन विधियों प्रति यूनिट ऊर्जा खपत का औसत अभिप्रेत है ;

(2) उन शब्दों और पदों के, जो इनमें प्रयुक्त हैं और परिभाषित नहीं हैं किन्तु अधिनियम में परिभाषित हैं, वही अर्थ होंगे जो अधिनियम में है ।

3. **ऊर्जा लेखापरीक्षा का संचालन करने के लिए समय अंतराल** - (1) प्रत्येक अधिसूचित उपभोक्ता अधिनियम की धारा 14 के खंड (i) के अधीन केन्द्रीय सरकार द्वारा जारी अधिसूचना के 15 मास के भीतर किसी प्रमाणित ऊर्जा लेखापरीक्षक द्वारा लेखापरीक्षा की गई अपनी प्रथम ऊर्जा लेखापरीक्षा करवाएगा ।

(2) उत्तरवर्ती ऊर्जा लेखापरीक्षाओं का संचालन करवाने और पूरा करने के लिए अधिसूचित ऊर्जा लेखापरीक्षक द्वारा अधिसूचित उपभोक्ता के प्रबंधक को प्रस्तुत की गई पूर्व ऊर्जा लेखापरीक्षा रिपोर्ट की तारीख के तीन वर्ष का समय अंतराल होगा ।

4. **ऊर्जा लेखापरीक्षा की रीति** - अधिनियम के अधीन प्रत्येक ऊर्जा लेखापरीक्षा निम्नलिखित रीति से की जाएगी -

(1) **ऊर्जा उपयोग के आंकड़े का संकलन करना** - प्रमाणित ऊर्जा लेखापरीक्षक -

(क) पिछले दो वर्षों के लिए ऊर्जा संरक्षण (अधिसूचित उपभोक्ताओं द्वारा ऊर्जा खपत की प्रतिवेदित पर रिपोर्ट प्रस्तुत करने के लिए प्रपत्र और रीति) नियम, 2007 के अधीन अधिसूचित अधिकरण द्वारा प्रस्तुत जानकारी का ऊर्जा बिल, उत्पादन आंकड़े की परीक्षा, उत्पादन, उत्पादन प्रक्रिया और पद्धति के ऊर्जा उपयोग के निर्देशांक, स्थल भ्रमण, विभाग-विभागों या संयंत्रों के प्रचालन के संबंध में अधिकारियों और कर्मचारी वृंदों के साथ साक्षात्कार, ऊर्जा प्रवाह प्रक्रिया, उपस्कर अनुरक्षण कार्यक्रमों, उपस्कर विशिष्टताएं, संस्थापित उपस्कर आयुक्तताएं, किए गए या योजनाबद्ध सुधारों, वार्षिक ऊर्जा खपत के संबंध में विनिर्माण आंकड़ा, स्थापन के संचालन के संचालन क्रमों और प्रकार 1 में प्रक्रम वर्ष के पूर्ववर्ती वर्ष के लिए, जिसके लिए ऊर्जा लेखापरीक्षा रिपोर्ट तैयार और प्रस्तुत की जानी है, रिपोर्ट तैयार करेगा;

(ख) खंड (क) में विनिर्दिष्ट वर्ष के लिए उत्पादन की प्रति यूनिट विनिर्दिष्ट ऊर्जा खपत स्थापित करेगा;

(ग) ऊर्जा खपत आंकड़ा का विश्लेषण करेगा और प्रमुख ऊर्जा उपयोग उपस्कर, प्रक्रिया और पद्धति की पहचान करेगा ।

(2) **ऊर्जा लेखापरीक्षा का निष्पादन** - प्रमाणित ऊर्जा लेखापरीक्षक संयुक्त रूप से अधिसूचित उपभोक्ता के ऊर्जा प्रबंधक के साथ -

(क) कुल ऊर्जा उपयोग की ऊर्जा लेखापरीक्षा के अध्यधीन आता है जो प्रक्रम के अनुसार पर्याप्त आच्छादन को सुनिश्चित करने के उद्देश्य से अधिनियम के अधीन अधिसूचित ऊर्जा लेखापरीक्षा का संचालन करने के लिए पहले का क्षेत्र निर्धारित करेगा;

(ख) ऊर्जा संरक्षित करने के लिए ऊर्जा संरक्षण उपायों का प्रक्रिया का चयन करेगा;

(ग) प्रस्तावित उपस्कर और ऊर्जा निष्पादन और ऊर्जा प्रवाह का प्राक्कलन करने के लिए एकल रेखिक पर ऊर्जा लाभ विश्लेषण की मदद करने के संबंध में क्षेत्र सर्वेक्षण प्रक्रियाओं पर सहमत होगा;

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(छ) ऊर्जा खपत और ऊर्जा संपरीक्षा के विस्तार से अंतर्गत आने वाले उपस्कर और प्रक्रियाओं के लिए उपस्कर आंकड़ा, प्रचालन आंकड़ा और इंधनों की समय अनुसूची, गैर सांविधिक प्रक्रिया प्रवाह चार्ट, संयंत्र द्वारा विनिर्दिष्ट संचालन स्तर यदि कोई हो, तथा ऐसे अन्य रोजनामचे आंकड़ा संग्रहण करना जो ऊर्जा संपरीक्षा प्रक्रियाओं को प्रारंभ करने के लिए है जो प्रस्तावित ऊर्जा संपरीक्षक द्वारा आवश्यक समझे जाएं ।

(5) ऊर्जा संपरीक्षा के लिए ऊर्जा आंकड़े के संग्रहण को मानीटर और विश्लेषण करना- प्रस्तावित ऊर्जा संपरीक्षक -

(क) अधिसूचना सं. का.आ.3148(अ), तारीख 2 मार्च, 2007 के नियमों के अनुसार अधिहित उपस्कर द्वारा नियुक्त या अधिहित ऊर्जा प्रबंधक के संबंधों से संगृहीत आंकड़ों की विश्वसनीयता का निर्धारण करने के लिए भारत परिषद्‌ के अनुसार संगृहीत आंकड़ा की गुणता का सत्यापन करेगा ;

(ख) निम्नलिखित के संबंध में आंकड़ा का विश्लेषण और प्रक्रमकरण करेगा -

(i) संगृहीत आंकड़ा की तुलना में अधिहित उपस्कर्कों की आंकड़ा मानीटरों की एकरूपतापूर्ण, सामंजस्य ;

(ii) ऊर्जा खपत को कम करने और ऊर्जा खपत में सुधार करने के लिए सिफारिशें ;

(iii) ईंधन प्रकार से और संयंत्र द्वारा सेवित के आधार में ऊर्जा खपत का तुलनात्मक मूल्यांकन ।

(ग) सम्यक् परिमाप और सावधानी सहित उपस्कर ऊर्जा निष्पादन उपायों का संग्रहण ।

(4) ऊर्जा बचत उपायों के संबंध में सिफारिशें तैयार करना, लागत लाभ आंकड़ा विश्लेषण - प्रस्तावित ऊर्जा संपरीक्षक उपस्कर प्रक्रियाओं की पूर्ण खपत, ऊर्जा बचत उपायों की तकनीकी-आर्थिक सम्भाव्यता, बचत दायरा और अधिहित उपयोगिता संयंत्र कार्यान्वयन के लिए विनिर्दिष्ट करने के संबंध में तकनीकी क्षमता को ध्यान में रखते हुए ऊर्जा बचाने के लिए सिफारिशों की सूची तैयार करेगा और सूची में निम्नलिखित सम्मिलित होगा -

(क) प्रत्येक सिफारिश किए गए उपाय का संक्षिप्त विवरण ;

(ख) प्रस्तावित ऊर्जा बचत और उपाय के पूर्वापेक्षित तकनीकी या आर्थिक आयोग से अधिक ऊर्जा उपयोग में बचाव करेगी;

(ग) प्रत्येक उपाय से संबंधित कोई प्रभाव या प्रस्तावित तकनीकी जोखिम ;

(घ) उपाय की अवधि से अधिक प्रस्तावित ऊर्जा उपयोग बचत, लागत पर प्रस्तावित संयंत्र अभिकल्प विनिर्माण की प्रत्येक उपाय का निर्धारण के लिए आकलन का पर्याप्त निर्धारण ;

(ङ) सुनिश्चित सिफारिशों का प्राथमिकृत संग्रहण उनकी कार्यान्वयन अनुसूची (समय, भारत और निर्भरताएं) के अनुसार ;

(च) यदि किसी ऊर्जा बचाव उपाय के कार्यान्वयन के लिए विशेष विशेषज्ञ उपस्कर से यदि सिफारिश ऊर्जा संपरीक्षक ऐसे विशेषज्ञों की पहचान करेगा और उनकी विस्तार विवरणी तैयार करेगा तथा तकनीकी - वित्तीय पक्ष से उनके संबंधन की सिफारिश करेगा;

(छ) यदि किसी सिफारिश किए गए ऊर्जा बचाव उपाय का अधिष्ठापन या कार्यान्वयन प्रचालन और अनुरक्षण की प्रक्रिया, कर्मचारियों तैयारी और कार्य की प्रणाली से यदि सिफारिश में ऐसी उपायों का विशेष विवरण उनके उपायों सहित सम्मिलित होगा ।

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5. **कार्य योजना का पूर्वविकाशकरण और तैयार करना** - (1) प्रत्यायित ऊर्जा सत्यापक ऊर्जा प्रबंधक के साथ परामर्श करके ऊर्जा सत्यापन रिपोर्ट से ऐसे सिफारिशें लिए गए उपायों का उपयोग करेगा जो विनियम 4 के उपविनियम (4) में सम्मिलित है ताकि जो अभिहित उपभोक्ता के बल में तकनीकी रूप से सीमित, वित्तीय रूप से आकर्षक तथा उनके वित्तीय मानकों के भीतर है, प्राथमिकता देगा और उनके कार्यान्वयन के लिए कार्य योजना तैयार करेगा और इस कार्य योजना में निम्नलिखित सम्मिलित होगा –

(क) प्रस्तावित उपायों का विस्तृत तकनीकी आर्थिक विश्लेषण तैयार करना ;

(ख) मापने और संबद्ध डाटा अभिहित अभिकरण को रिपोर्ट करने के लिए ऊर्जा संरक्षण और उत्पादन लागत की बचत प्रदायक उपकरण के प्रभाव की वार्षिक आधार पर मापन तथा करने के लिए मानदंडों और सत्यापन प्रोटोकॉल ;

(ग) नित की उपलब्धता और प्रस्तावित उपकरण जैसे प्रौद्योगिकी को ध्यान में रखते हुए प्रस्तावित उपायों के अभिहित उपभोक्ता द्वारा स्थापना समयसूची ।

(2) प्रत्यायित ऊर्जा सत्यापक, विनियम 4 के उपविनियम (4) और विनियम 5 के अधीन की गई कार्यवाहियों के आधार पर अभिहित उपभोक्ता के प्रस्ताव तथा को प्रपत्र 2 में रिपोर्ट प्रस्तुत करेगा ।

(3) प्रत्यायित ऊर्जा सत्यापक, कुल सत्यापन रिपोर्ट में प्रत्येक सिफारिश किए गए ऊर्जा बचत उपाय के कार्यान्वयन का मूल्यांकन करेगा और अभिहित उपभोक्ता के प्रस्ताव, यदि कोई प्रपत्र 3 में रिपोर्ट प्रस्तुत करेगा ।

6. **ऊर्जा सत्यापन रिपोर्ट की संरचना**- (1) ऊर्जा सत्यापन रिपोर्ट संरचना का प्रत्यायित ऊर्जा सत्यापक और अभिहित उपभोक्ता द्वारा संयुक्त रूप से विनिश्चय किया जाएगा ।

(2) ऊर्जा सत्यापन रिपोर्ट में विनिर्दिष्ट ऊर्जा लेखा परीक्षा, ऊर्जा खाता तथा लेखा को कम करने के लिए सिफारिशों की सूची, प्रस्तावित उपायों के प्रभाव की मात्रीकरण और मूल्यांकन का उल्लेख किया जाएगा और प्रत्यायित ऊर्जा सत्यापक द्वारा निम्नलिखित कथन करते हुए प्रमाणन द्वारा निष्कर्ष निकाला जाएगा कि-

(क) आकड़ा संग्रहण का उपयुक्तपूर्वक और सत्यता से कार्यान्वित किया गया है ;

(ख) सभी आंकड़ा मात्रीकरण पुष्टिकारी अथवा सत्यापनीय रूप में है और उन्हें अनुमोदित या प्राधिकृत अधिकारियों द्वारा अंशांकित या प्रमाणित किए गए हैं तथा ऐसी उपयुक्त पुष्टिकारी के साथ कोई छेड़छाड़ नहीं की गई है;

(ग) ऊर्जा सत्यापन रिपोर्ट तैयार करने में सभी पुष्टिकारक पुस्तिका, पुस्तकें, लाइसेंसी और पुष्टिकारक का प्रयोग किया गया है और उपयोगी अंतर्निहित तथ्यों का सभी प्रतिनिधित्व करती है;

(घ) सिफारिशों के कार्यान्वयन के पश्चात् वैधिक प्रावधानों में अंकेक्षित कार्यिकों को पर्याप्त प्रतिक्षण बरता गया है; और

(ङ) ऊर्जा सत्यापन, इन विनियमों के अनुसार की गई है.

और ऊर्जा सत्यापन रिपोर्ट तैयार करने के लिए रूप प्रिंटल मार्गदर्शन के लिए प्रपत्र 4 में दिया गया है ।

(3) प्रत्यायित ऊर्जा सत्यापक ऊर्जा सत्यापन रिपोर्ट में ऊर्जा प्रबंध और ऊर्जा लेखा में अभिहित उपभोक्ता की शक्ति और कमियों को प्रदर्शित करेगा तथा रिपोर्ट किए गए आंकड़ा की पद्धति, ऊर्जा प्रबंध पद्धति में सुधार करने के लिए विस्तृत रूप से उनके अनुपालन को रेखांकित करते हुए और अभिहित उपभोक्ता में ऊर्जा प्रबंध सुधार करने तथा ऊर्जा खपत में कमी करने के लिए आवश्यक कार्यवाही करने की सिफारिश करेगा ।

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(4) प्रत्याशित ऊर्जा संपरीक्षा, ऊर्जा संपरीक्षा का संचालन करने में नियोजित जनशक्ति के ब्यौरों के साथ सभी प्रावधान घटोरे देते हुए अपनी फर्म की मुहर के अधीन ऊर्जा संपरीक्षा रिपोर्ट पर हस्ताक्षर करेगा ।

(5) ऊर्जा संपरीक्षा रिपोर्ट में प्रत्याशित कोई ऊर्जा संरक्षिक और अधिकृत उपभोक्ता के ऊर्जा प्रबंधक द्वारा समक्ष रूप से हस्ताक्षरित एक कार्य अनुसूची पत्रक सम्मिलित होगा ।

प्रपत्र 1

खपत की गई ऊर्जा के आधार पर विनिर्माण आकड़े और उत्पादन की प्रति इकाई विनिर्दिष्ट ऊर्जा उपभोग के ब्यौरे
[विनियम 4(1)(क) और (ख) देखें]

1	इकाई का नाम	
2	सेक्टर जिसमें इकाई आती है (उपखंड 1 विनिर्दिष्ट करें)	
3(क)	इकाई के स्थान का मोबाइल, टेलीफोन फैक्स नं. और ई-मेल, सहित पूरा पता (मुख्य कार्यकारी का नाम और पदनाम सहित)	
(ख)	स्थापना का वर्ष	
4	टेलीफोन, फैक्स नं. और ई-मेल सहित रजिस्ट्रीकृत कार्यालय का पता	
5	ऊर्जा प्रबंधक का नाम, पदनाम, पता, मोबाइल, टेलीफोन फैक्स नं. और ई-मेल	
6	उत्पादन और उपयोग आंकड़ों के ब्यौरे	

वर्ष	मुख्य उत्पाद	यूनिट (कृपया विनिर्दिष्ट करें)	संस्थापित क्षमता (क)	वास्तविक उत्पादन (ख)	% क्षमता उपयोग (ख/क) x 100	विनिर्दिष्ट ऊर्जा खपत
	उत्पाद 1 उत्पाद 2 अन्य उत्पाद					
20-20						

		वर्ष 20 - 20
7.0	ऊर्जा खपत और लागत	
7.1	विद्युत खपत और लागत	
(क)	क्रय की गई विद्युत	
(i)	यूनिट (मिलियन किलोवाट/घंटा/वर्ष)	
(ii)	कुल लागत (मिलियन रु/वर्ष)	
(iii)	लोड से संबद्ध भार (कि.वा)	
(iv)	पारेषण सहित औसत खरीद लागत (रु/कि.वा.)	
(v)	संबद्ध भार (कि.वा.)	
(ख)	आंतरिक उत्पादन	
(क)	डीजल उत्पादन सेट के माध्यम से	
(i)	वार्षिक उत्पादन (मिलियन किलोवाट/घंटा/वर्ष)	
(ii)	कुल लागत (मिलियन/वर्ष)	
(iii)	उपयोग किए गए ईंधन (लाइट डीजल/एच.एस.डी./एच.एस.ओ./एल.डी.ओ. (उपखंड 2 विनिर्दिष्ट करें)	

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(iv)	सकल कैलोरिफिक मूल्य (किलोकैलोरी/कि.ग्रा.)	
(v)	वार्षिक ईंधन उपभोग (टन)	
(vi)	कुल वार्षिक ईंधन लागत (एक लाख रुपये)	
		वर्ष 20 - 20
(ख)	भाप टरबाईन/जनित्र के संयंत्र से	
(i)	वार्षिक उत्पादन (मेगावाट ऑवरयूनिट)	
(ii)	उपयोग किए गए ईंधन, बताएं किस प्रकार के ईंधन का उपयोग किया गया था (सी-कोयला, डी-डीजल, जी-गैस, एन-विद्युत) । यदि कोयला उपयोग किया गया है तो बताएं किस ग्रेड का क्योंकि जी/आई-आयातित या जी/आई-एक ग्रेड का कोयला	
(ग)	गैस टरबाईन की संयंत्र	
(i)	वार्षिक उत्पादन (एक लाख कीलोवाटघंटे)	
(ii)	उपयोग किए गए ईंधन [बताएं किस प्रकार के ईंधन का उपयोग किया गया था प्राकृतिक गैस (एनजी), नाफ्था प्राकृतिक गैस (एनएजी), संशोधित प्राकृतिक गैस (आरएनजी), एनएफ]	
(iii)	सकल कैलोरिफिक मूल्य (किलोकैलोरी/एनएजी)	
(iv)	वार्षिक ईंधन उपभोग	
(v)	कुल वार्षिक ईंधन लागत (एक लाख रुपये)	
(घ)	कुल विद्युत का संयंत्रवार (एक लाख कीलोवाटघंटे) ३.१(ग) [क(i) + ख(i) + ग(i)]	
(घ)	विद्युतमंत्री को प्रदाय की गई विद्युत (लिमिटेड को एक लाख कीलोवाटघंटे)	
(ङ)	कुल उपभोग की गई विद्युत (एक लाख कीलोवाटघंटे) ३.१ [घ(i) + क. ग]	
३.२	उपभोग किया गया ईंधन और प्रसंस्करण उपकरण के लिए उपयोग %	
(क)	कोयला	
(i)	सकल कैलोरिफिक मूल्य (किलोकैलोरी/कि.ग्रा.)	
(ii)	क्रय की गई मात्रा (टन/वर्ष)	
(iii)	विद्युत उत्पादन के लिए उपयोग की गई मात्रा (टन/वर्ष)	
(iv)	अन्य मदों के क्रम में उपयोग की गई मात्रा, यदि कोई हो (टन/वर्ष)	
(v)	प्रसंस्करण उपकरण के लिए उपयोग की गई मात्रा (टन/वर्ष)	
(vi)	प्रसंस्करण के कुल कोयला लागत (एक लाख रु./वर्ष)	
(ख)	लिग्नाइट	
(i)	सकल कैलोरिफिक मूल्य (किलोकैलोरी/कि.ग्रा.)	
(ii)	क्रय की गई मात्रा (टन/वर्ष)	
(iii)	विद्युत उत्पादन के लिए उपयोग की गई मात्रा (टन/वर्ष)	
(iv)	अन्य मदों के क्रम में उपयोग की गई मात्रा, यदि कोई	

	हो. (टन/वर्ष)	
(v)	प्रसंस्करण उत्पन्न के लिए उपयोग की गई मात्रा (टन/वर्ष)	
(vi)	प्रसंस्करण के कुल विनिर्दिष्ट लागत (एक लाख रु./वर्ष)	
		वर्ष 20 - 26
(ग)	कार्बो मात्रा अन्य क्रय किए गए ठोस ईंधन (कृपया विनिर्दिष्ट करें) कोई, पावल की भूसी, इत्यादि	
(i)	अंतिम के रूप में उत्पादित औसत गर्मी	
(ii)	अंतिम के रूप में औसत सकल कैलोरीफिक मूल्य (कैलोरी/कि.ग्रा.)	
(iii)	क्रय की गई मात्रा (टन/वर्ष)	
(iv)	कार्बो मात्रा की रूप में उपयोग की गई मात्रा यदि कोई हो. (टन/वर्ष)	
(v)	प्रसंस्करण उत्पन्न के लिए उपयोग की गई मात्रा (टन/वर्ष)	
(vi)	प्रसंस्करण के लिए कुल कोई की लागत (एक लाख रु./वर्ष)	
2.3	द्रव	
(क)	भट्ठी तेल (एक को)	
(i)	औसत कैलोरीफिक मूल्य (कैलोरी/कि.ग्रा.)	
(ii)	क्रय की गई मात्रा (टन/वर्ष)	
(iii)	विद्युत उत्पादन के लिए उपयोग की गई मात्रा (मेगावाट/वर्ष)	
(iv)	कार्बो मात्रा की रूप में उपयोग की गई मात्रा, यदि कोई हो. (मेगावाट/वर्ष)	
(v)	प्रसंस्करण उत्पन्न के लिए उपयोग की गई मात्रा (मेगावाट/वर्ष)	
(vi)	प्रसंस्करण उत्पन्न के लिए कुल भट्ठी तेल की लागत (एक लाख रु./वर्ष)	
(ख)	निम्न सल्फर भारी स्टॉक (एलएसएचएफओ)	
(i)	औसत कैलोरीफिक मूल्य (कैलोरी/कि.ग्रा.)	
(ii)	क्रय की गई मात्रा (टन/वर्ष)	
(iii)	विद्युत उत्पादन के लिए उपयोग की गई मात्रा (टन/वर्ष)	
(iv)	कार्बो मात्रा के रूप में उपयोग की गई मात्रा यदि कोई हो. (टन/वर्ष)	
(v)	प्रसंस्करण उत्पन्न के लिए उपयोग की गई मात्रा (टन/वर्ष)	
(vi)	प्रसंस्करण के कुल निम्न सल्फर भारी स्टॉक (एलएसएचएफओ) लागत (एक लाख रु./वर्ष)	
(ग)	उच्च सल्फर भारी स्टॉक (एचएसएचएफओ)	
(i)	औसत कैलोरीफिक मूल्य (कैलोरी/कि.ग्रा.)	
(ii)	क्रय की गई मात्रा (टन/वर्ष)	
(iii)	विद्युत उत्पादन के लिए उपयोग की गई मात्रा (टन/वर्ष)	

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(iv)	कच्चे माल के रूप में उपयोग की गई मात्रा, यदि कोई हो (मि.टन/वर्ष)	
(v)	प्रसंस्करण उपकरण के लिए उपयोग की गई मात्रा (टन/वर्ष)	
(vi)	प्रसंस्करण उपकरण के लिए कुल एमएसएमई की लागत (एक लाख रु./वर्ष)	वर्ष 20 - 20
(ङ)	डीजल तेल	
(क)	उच्च स्पीड डीजल (एचएसडी)	
(i)	सकल कैलोरिफिक मूल्य (किलोकैलरी/कि.ग्रा.)	
(ii)	क्रय की गई मात्रा (किलोलीटर/वर्ष)	
(iii)	विद्युत उत्पादन के लिए उपयोग की गई मात्रा (टन/वर्ष)	
(iv)	कच्चे माल के रूप में उपयोग की गई मात्रा, यदि कोई हो (किलोलीटर/वर्ष)	
(v)	प्रसंस्करण उपकरण के लिए उपयोग की गई मात्रा (किलोलीटर/वर्ष)	
(vi)	प्रसंस्करण उपकरण के लिए कुल एमएसडी की लागत (एक लाख रु./वर्ष)	
(ख)	हल्का डीजल तेल (एलडीओ)	
(i)	सकल कैलोरिफिक मूल्य (किलोकैलरी/कि.ग्रा.)	
(ii)	क्रय की गई मात्रा (किलोलीटर/वर्ष)	
(iii)	विद्युत उत्पादन के लिए उपयोग की गई मात्रा (किलोलीटर/वर्ष)	
(iv)	कच्चे माल के रूप में उपयोग की गई मात्रा, यदि कोई हो (किलोलीटर/वर्ष)	
(v)	प्रसंस्करण उपकरण के लिए उपयोग की गई मात्रा (किलोलीटर/वर्ष)	
(vi)	प्रसंस्करण उपकरण के लिए कुल एलडीओ की लागत (एक लाख रु./वर्ष)	
7.A	गैस	
(क)	संपीडित प्राकृतिक गैस (सीएनजी)	
(i)	सकल कैलोरिफिक मूल्य (किलोकैलरी/एससीएम) (उपलब्ध न हो तो विनिर्दिष्ट करें)	
(ii)	क्रय की गई मात्रा (एक लाख एससीएम/वर्ष)	
(iii)	विद्युत उत्पादन के लिए उपयोग की गई मात्रा (एक लाख एससीएम /वर्ष)	
(iv)	कच्चे माल के रूप में उपयोग की गई मात्रा, यदि कोई हो (एक लाख एससीएम /वर्ष)	
(v)	प्रसंस्करण उपकरण के लिए उपयोग की गई मात्रा (एक लाख एससीएम /वर्ष)	
(vi)	प्रसंस्करण उपकरण के लिए प्राकृतिक गैस की कुल लागत (एक लाख रु./वर्ष)	
(ख)	तरलीकृत पैट्रोलियम गैस (एलपीजी)	

(ii)	सकल कैलोरिफिक मूल्य (किलोजूल/एसएसटीएम)	
(iii)	कोयले की खपत मात्रा (टन लाख एसएसटीएम/वर्ष)	
(iv)	विद्युत उत्पादन के लिए उपयोग की गई मात्रा (टन लाख एसएसटीएम /वर्ष)	
(v)	कार्य भाग के रूप में उपयोग की गई मात्रा, यदि कोई हो (टन लाख एसएसटीएम /वर्ष)	
(v)	प्रसंस्करण उपयोग के लिए उपयोग की गई मात्रा (टन लाख एसएसटीएम /वर्ष)	
(vi)	प्रसंस्करण उपयोग के लिए एसएचईजी की कुल लागत (रुपए लाख रु./वर्ष)	
		वर्ष 20 - 20
(vi)	संयंत्र में उत्पाद/अपशिष्ट द्वारा उत्पादित गैस और ईंधन के रूप में उपयोग	
(i)	नाम	
(ii)	सकल कैलोरिफिक मूल्य (किलोजूल/एसएसटीएम)	
(iii)	विद्युत उत्पादन के लिए उपयोग की गई मात्रा (टन लाख एसएसटीएम/वर्ष)	
(iv)	विद्युत उत्पादन के लिए गैस सयंत्रों की कुल लागत (रुपए लाख रु./वर्ष)	
7.5	तेल अपशिष्ट	
	संयंत्र में उत्पादित तेल अपशिष्ट और ईंधन के रूप में उपयोग	
(i)	नाम	
(ii)	सकल कैलोरिफिक मूल्य (किलोजूल/कि.ग्रा.)	
(iii)	प्रसंस्करण उपयोग के लिए उपयोग की गई मात्रा (टन/वर्ष)	
(iv)	प्रसंस्करण उपयोग के लिए उपकरणों की कुल लागत (रुपए लाख रु./वर्ष)	
7.6	ठोस अपशिष्ट	
(क)	संयंत्र में उत्पादित ठोस तेल अपशिष्ट और ईंधन के रूप में उपयोग	
(i)	नाम	
(ii)	सकल कैलोरिफिक मूल्य (किलोजूल/कि.ग्रा.)	
(iii)	प्रसंस्करण उपयोग के लिए उपयोग की गई मात्रा (टन/वर्ष)	
(iv)	प्रसंस्करण उपयोग के लिए ठोस तेल की कुल लागत (रुपए लाख रु./वर्ष)	
7.7	अन्य	
(i)	नाम	
(ii)	औसत सकल कैलोरिफिक मूल्य (किलोजूल/कि.ग्रा.)	
(iii)	विद्युत उत्पादन के लिए उपयोग की गई मात्रा (टन/वर्ष)	

16 0 C 67/10-2

(iv)	[illegible]	
(v)	[illegible]	

[illegible]

[illegible]

[illegible]

[भाग III—खण्ड 4]

अनुसूची

क्रम सं.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										

[illegible]

[illegible]

[illegible]

उपाबन्ध 3

[विनियम 6(3) देखें]

खाने बचत के कोडों को अभिज्ञात करने के लिए सूचना और उपाबंधनों के क्षेत्र का सूचकांक एवं प्रकार

1	बैंकाश्योरेंस लेनदेन उपकरण
2	मोबाइल और सिंटिलेशन उपकरण का सॉफ्टवेयर सुरक्षा प्रमाणपत्र का प्रतिमानक
3	[illegible] प्रणाली
4	[illegible] प्रणाली
5	[illegible] प्रणाली
6	विद्युत [illegible] प्रणाली
7	[illegible] प्रणाली
8	[illegible] प्रणाली
9	[illegible] प्रणाली
10	[illegible] प्रणाली
11	[illegible] प्रणाली
12	[illegible] और [illegible] प्रणाली
13	विद्युत प्रणाली
14	प्रकाश प्रणाली
15	[illegible] उपकरण जैसे, [illegible], [illegible], [illegible], [illegible], इत्यादि
16	[illegible]
17	[illegible], [illegible], [illegible], [illegible], [illegible]
18	[illegible] उपकरण जैसे, [illegible], [illegible], [illegible], [illegible], इत्यादि
19	[illegible]
20	[illegible] और [illegible]
21	[illegible]
22	[illegible]
23	[illegible]
24	[illegible]
25	[illegible]
26	[illegible]
27	[illegible]

26 [illegible]
27 [illegible]

प्रपत्र 2

[विनियम 6(3) देखें]

क. कार्यान्वित — कार्यान्वित कार्यों संबंधित उपबंधों, जिन पर विनियम और प्राप्त कार्यों में बचत और अन्य क्रियाओं के क्रियान्वयन में प्रगति के ब्यौरे

क्र.सं.	कार्य स्थल के सुधार के उपाय का वर्णन	प्रकार	विनियम (क्या)	कार्यान्वित बचत (क्या)	कार्यान्वित कार्य बचत	प्रगति	दिनांक	टिप्पणी
1								
2								
3								

ख. क्रियान्वयनाधीन

क्र.सं.	कार्य स्थल के सुधार के उपाय का वर्णन	प्रकार	विनियम (क्या) अनुमोदित	कार्यान्वित बचत (क्या) अनुमोदित	कार्यान्वित कार्य बचत अनुमोदित	प्रगति	दिनांक	क्रियान्वयन की तारीखें
1								
2								
3								

हस्ताक्षर
कार्य प्रबंधक का नाम
कार्य का नाम
मूल्य
संबद्ध तारीखें
पूर्ण होने पर
[illegible]
कार्य का नाम

हस्ताक्षर
कार्यान्वित कार्य पर्यवेक्षक का नाम
कार्यान्वित तारीखें
मुहर

[illegible]

प्रपत्र 4

[विनियम 5(2) देखें]

ऊर्जा लेखापरीक्षा रिपोर्ट को तैयार करने के लिए मार्गदर्शी सिद्धान्त

प्रत्येक लेखापरीक्षा रिपोर्ट में निम्नलिखित सम्मिलित होगा:-

(1) मुख्य पृष्ठ

- रिपोर्ट शीर्षक
- मुद्रितकर्ता का नाम
- संयंत्र/स्थापना का स्थान
- रिपोर्ट की तारीख
- प्रमाणित ऊर्जा लेखापरीक्षक का नाम

(2) अन्तर्वस्तुओं की तालिका

(3) प्रस्तावना

(4) कार्यकारी सारांश

- प्रस्तावना एवं अवलोकन
- ऊर्जा प्रवाह आरेखण के लाभप्रद और दोषपूर्ण
  - मानक एवं ऊर्जा के लिए मुख्य दुर्गुणों और दोषों
  - बुनियादी और पहचान की गई ऊर्जा दक्षता के लिए मुख्य क्षेत्रों
- ऊर्जा का सारांश और वर्गीकरण
- कार्यकारी सारांश – प्रपत्र 2 में दी गई तालिका

1.0 संयंत्र /स्थापना के बारे में परिचय

1.1 संयंत्र/स्थापना लेआउट, स्थापना के बारे और विवरण

1.2 ऊर्जा लेखापरीक्षा दल

1.3 उपयोगकर्ता कारक के घटक (उत्पादों संख्याओं, ऊर्जा, रसायन, अपशिष्ट, अतिरिक्त पार्ट, आदि)

1.4 मुख्य ऊर्जा उपयोग क्षेत्र

2.0 वर्तमान प्रचालन का वर्णन

2.1 विनिर्माण प्रचालन का संक्षिप्त विवरण

2.2 प्रचालन प्रवाह रेखाचित्र और मुख्य गुणित प्रचालन

2.3 मुख्य ऊर्जा खपत संबंधी विवरण, भाग और लागत

3.0 ऊर्जा और उपयोगिता प्रणाली का विवरण

3.1 उपयोग की जाने वाली ऊर्जा संसाधनों की सूची

3.2 प्रत्येक उपयोगिता का संक्षिप्त विवरण

3.2.1 विद्युत का विवरण

3.2.2 भाप

3.2.3 गैस

3.2.4 संपीडित वायु

3.2.5 रेफ्रिजरेशन

3.2.6 कंडीशनिंग

3.2.7 जल

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4.0 विस्तृत प्रसंस्करण प्रणाली [illegible] और [illegible] और अतिरिक्त [illegible]

4.1 [illegible]

4.2 [illegible] के लिए [illegible]

4.3 [illegible]

5.0 मुख्य [illegible] और प्रसंस्करण [illegible] का मूल्यांकन करना

5.1 [illegible]

5.2 [illegible]

6.0 [illegible] और प्रसंस्करण प्रणाली में [illegible]

6.1 [illegible]

6.2 [illegible]

6.3 [illegible]

6.4 [illegible]

6.5 [illegible]

6.6 [illegible]

6.7 [illegible]

6.8 [illegible]

6.9 [illegible]

6.10 [illegible]

6.11 [illegible]

7.0 [illegible] प्रणाली का मूल्यांकन

7.1 [illegible]

7.2 [illegible]

7.3 [illegible]

7.4 [illegible]

7.5 [illegible] के लिए [illegible]

7.6 [illegible]

7.7 [illegible]

7.8 [illegible]

8.0 [illegible] संसाधन [illegible] और [illegible]

8.1 [illegible]

8.2 [illegible]

8.3 [illegible]

8.4 [illegible]

8.5 [illegible]

8.6 [illegible]

9.0 प्रमाणीकरण

[illegible] कि-

(1) [illegible]

(ii) सभी लेखापरीक्षा गतिविधियों पूर्णतया सही कराने करने की दक्षता में है और लेखापरीक्षा विधियां यह सुनिश्चित है कि प्रक्रियाएं अनुमोदित लेखापरीक्षा मानक अपनाविहित हैं और ऐसी गतिविधियों में कोई विचलन नहीं की गई है ।

(iii) सभी गतिविधियों अधिकतम पारदर्शिता, दक्षिणता और संवेदनशील पूर्वक उचित संतुलित विवेक - विवेक की गई है और उपयोगी लेखापरीक्षा उपायों को सही परिभाषित करती है ।

(iv) लेखापरीक्षा के क्रियान्वयन के पश्चात् किए गए सभी गतिविधियों को उचित परिमाण किया गया है ।

(v) उचित संतुलित उपाय पालन मानदंड (उपयोगी लेखापरीक्षा करने के लिए हेतु और उपयुक्त लेखापरीक्षा) विनियम 2010 के अनुसार है की गई है ।

हस्ताक्षर
प्रमाणित उपयोगी लेखापरीक्षक का नाम
प्रमाणित मोहर
मुहर

[विज्ञापन III-4/(50)10-असा.]

BUREAU OF ENERGY EFFICIENCY

NOTIFICATION

New Delhi, the 28th April, 2010

No. 02/11(6)/05-BEE.—Whereas certain draft regulations namely, the Bureau of Energy Efficiency (the manner and intervals of time for conduct of energy audit) Regulations, 2009,were published vide Bureau of Energy Efficiency notification number 02/11(6)/05, dated the 22nd December 2009 in the Gazette of India, Extraordinary, Part III, Section 4, dated the 26th December, 2009 as required under sub-section (1) of Section 58 of the Energy Conservation Act, 2001 (52 of 2001) inviting objections and suggestions from all persons likely to be affected thereby within forty five days from the date of publication of the said notification in the Gazette.

And whereas the said draft regulations were published in the official Gazette on the 26th December, 2009.

And whereas no objection or suggestion has been received in respect of the said draft regulations within the specified period.

Now, therefore, in exercise of the powers conferred by clause (g) of sub-section (2) of section 58, read with clause (q) of sub-section (2) of section 13 of the said Act, the Bureau of Energy Efficiency with the previous approval of the Central Government, hereby makes the following regulations, namely:-

1. Short title and commencement.- (1) These regulations may be called the Bureau of Energy Efficiency (Manner and Intervals of Time for Conduct of Energy Audit) Regulations, 2010.

(2) They shall come into force on the date of their publication in the Official Gazette.

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Location: NTPC Limited

2 Definitions. - (1) In these regulations, unless the context otherwise requires,-

(a) "Act" means the Energy Conservation Act, 2001;

(b) "energy audit report" means the report of energy audit submitted under regulation 3 and signed by the accredited energy auditor;

(c) "Form" means a form appended to these regulations;

(d) "specific energy consumption" means the average of energy consumed per unit of product or product-mix for the completed financial year.

(2) Words and expressions used herein and not defined but defined in the Act shall have the meanings respectively assigned to them in the Act.

3 Intervals of time for conduct of energy audit.-(1) Every designated consumer shall have its first energy audit conducted, by an accredited energy auditor within 18 months of the notification issued by the Central Government under clause (ii) of section 14 of the Act.

(2) The interval of time for conduct and completion of subsequent energy audits shall be three years with effect from the date of submission of the previous energy audit report by the accredited energy auditor to the management of the designated consumer.

4. Manner of energy audit.- Every energy audit under the Act shall be conducted in the following manner:-

(1) Verification of data of energy use.- The accredited energy auditor shall -

(a) verify the information submitted to the designated agency under the Energy Conservation (the form and manner for submission of report on the status of energy consumption by the designated consumers) Rules, 2007 for the previous two years through examination of energy bills, production data, inspection of energy-using equipment, production-processes and systems, spot measurements, discussion or interview with the officers and staff regarding operation of plants, energy management procedures, equipment maintenance problems, equipment reliability, projected equipment needs, improvements undertaken or planned, establish validated data on annual energy consumption and prepare a report in Form 1 for the year preceding to the year for which energy audit report shall be prepared and submitted;

(b) establish specific energy consumption for the year referred to in clause (a);

(c) disaggregate the energy consumption data and identify major energy using equipment, processes and systems.

(2) Scope of energy audit.-The accredited energy auditor jointly with the energy manager of the designated consumer shall-

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Date: 2024.
Reason: Authenticated
Location: NTPC Limited

(a) develop a scope of work for the conduct of energy audit required under the Act with a view to ensuring adequate coverage in terms of the share of total energy use that is covered in the energy audit;

(b) select energy intensive equipment or processes for energy auditing;

(c) agree on best practice procedures on measuring the energy efficiency performance of selected equipment and on algorithm to estimate energy performance and energy savings;

(d) collect energy consumption, and production data for the equipment and processes covered within the scope of energy audit, operating data, and schedule of operation, non proprietary process flow charts, production level disaggregated by product, if applicable, and such other historical data as may be considered essential by the accredited energy auditor for achieving the purpose of energy audit.

(3) Monitoring and analysis of use of energy data for energy audit.- The accredited energy auditor shall-

(a) verify the accuracy of the data collected in consultation with the energy manager, appointed or designated by the designated consumer in terms of the notification number S.O.318(E), dated the 2nd March,2007, as per standard practice to assess the validity of the data collected;

(b) analyse and process the data with respect to-

(i) consistency of designated consumers' data monitoring compared to the collected data;

(ii) recommendations to reduce energy consumption and improve energy efficiency;

(iii) summary overview of energy consumption in plant or establishment by fuel type and by section;

(c) conduct equipment energy performance measurements with due diligence and caution.

(4) Preparation of recommendations on energy saving measures, their cost benefit analysis.-The accredited energy auditor having regard to the overall efficiency of the production process, techno-economic viability of energy saving measures, site conditions and capacity of the designated consumer to invest for their implementation, shall prepare a list of recommendations to save energy and the list shall include-

(a) a brief description of each recommended measure;

(b) the estimated energy saving as well as energy cost reduction potential over a reasonable technical or economic life of the measure;

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(c) any known or expected technical risk associated with each measure;

(d) a preliminary assessment of financial attractiveness of each measure or assessment of maximum investment feasible based on the estimated energy cost saving potential over the life of the measure;

(e) tabulated summary of recommendations listed as per their implementation schedule (short, medium and long term);

(f) where different alternatives for implementation of an energy efficiency measure are available, the accredited energy auditor shall examine and discuss such options and recommend the techno-financially better option;

(g) where the installation or implementation of any recommended energy saving measure affects procedures for operation and maintenance, staff deployment and the budget, the recommendation shall include discussion of such impacts including their solutions.

5. Prioritisation and preparation of action plan.- (1) The accredited energy auditor jointly with the energy manager shall select from the energy audit report such recommended measures as are included in sub-regulation (4) of regulation 4 which in the opinion of the designated consumer are technically viable, financially attractive and within its financial means, prioritize them and prepare plan of action for their implementation and this action plan shall include-

(a) preparation of detailed techno-economic analysis of selected measures;

(b) a monitoring and verification protocol to quantify on annual basis the impact of each measure with respect to energy conservation and cost reduction for reporting to Bureau and the concerned State designated agency;

(c) a time schedule agreed upon by the designated consumer of selected measures taking into consideration constraints such as availability of finance and availability of proposed equipment.

(2) The accredited energy auditor based on the activities undertaken under sub-regulation (4) of regulation 4 and regulation 5 shall submit a report in Form 2 to the management of the designated consumer.

(3) The accredited energy auditor shall evaluate the implementation of each recommended energy saving measure in the previous audit report and submit a report in Form 3 to the management of the designated consumer.

6. Structure of the energy audit report.-(1) The energy audit report structure shall be jointly decided by the accredited energy auditor and designated consumer.

(2) The energy audit report shall highlight details of specific energy consumption, list of recommendations to reduce energy consumption and costs, monitoring and evaluation of impact of selected measures and conclude with certification by accredited energy auditor stating that -

(a) the data collection has been carried out diligently and truthfully;

(b) all data monitoring devices are in good working condition and have been calibrated or certified by approved or authorised agencies and no tempering of such devices have occurred;

(c) all reasonable professional skill, care and diligence have been taken in preparing the energy audit report and the contents thereof are a true representation of the facts;

(d) adequate training provided to personnel involved in daily operations after implementation of recommendations; and

(e) the energy audit has been carried out in accordance with these regulations.

and the format for the preparation of energy audit report is given in Form 4 for guidance.

(3) The accredited energy auditor shall highlight the strengths and weaknesses of the designated consumer in the management of energy and energy resources in the energy audit report and recommend necessary action to improve upon method of reporting data, energy management system in detail along with their underlying rationale, and improving energy efficiency and reducing energy consumption in the designated consumer.

(4) The accredited energy auditor shall sign the energy audit report under the seal of its firm giving all the accreditation details along with details of manpower employed in conducting the energy audit.

(5) The energy audit report shall include a work schedule sheet duly signed by accredited energy auditor and energy manager of the designated consumer.

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Reason: [illegible]
Location: [illegible]

Form. 1

Details of validated data on energy consumed and specific energy consumption per unit of production
[See regulation 4(1)(a)and (b)]

1	Name of the Unit	
2	The sector in which unit falls [Refer Annexure-I]	
3 (a)	Complete address of Unit's location (including Chief Executive's name and designation) with mobile telephone, fax numbers, and e-mail	
(b)	Year of establishment	
4	Registered office address with telephone, fax numbers and e-mail	
5	Name, designation, address, mobile, telephone, fax numbers and e-mail of energy manager	
6	**Production and capacity utilisation details**	

Year	Main products	Units (Please specify)	Installed capacity (a)	Actual production (b)	% Capacity utilisation (b/a) x 100	Specific energy consumption
	Product 1 Product 2 Other products					
20- 20						

		Year 20 - 20
7.0	**Energy consumption and cost**	
7.1	**Electricity consumption and cost**	
(A)	**Purchased electricity**	
(i)	Units (Millions kWh/year)	
(ii)	Total cost (Rs. Millions/year)	
(iii)	Plant connected load (kW)	
(iv)	Contract demand (kVA) with utility	
(v)	Converted load (kW)	
(B)	**Own generation**	
(a)	**Through diesel generating sets**	
(i)	Annual generation (Millions kWh/ year)	
(ii)	Total cost (Rs. Millions/ year)	
(iii)	Fuel used (HSD/LDO/LSHS/LSFO (Refer Annexure-2)	
(iv)	Gross calorific value (kCal/kg)	
(v)	Annual fuel consumption (tonne)	
(vi)	Total annual fuel cost (Rs. Million)	

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Date: 2024.07.17 14:28:07
Reason: AUTHORISED SIGNATORY

		Year 20 - 20
(b)	**Through steam turbine/ generator**	
(i)	Annual generation (Millions kWh/ year)	
(ii)	Fuel used (state which type of fuel was used (Diesel, Biomass, Electricity). If coal was used, state which grade i.e., G1+supplied or G8+Cost of grade F	
(c)	**Through gas turbine**	
(i)	Annual generation (Millions kWh/ year)	
(ii)	Fuel used (state which type of fuel was used Natural Gas (NG), Piped Natural Gas (PNG), Compressed Natural Gas (CNG), Naphtha)	
(iii)	Gross calorific value (kCal/SCM)	
(iv)	Annual fuel consumption (SCM)	
(v)	Total annual fuel cost (Rs. Million)	
(C)	**Total generation of electricity (Millions kWh/ year) 7.1 (B) [a(i)+a(i)+c(i)]**	
(D)	**Electricity** supplied to the grid/ others (specify) (Millions kWh/ year)	
(E)	Total Electricity consumed (Millions kWh/year) 7.1 [A(i) +C-D]	
7.2	**Fuel consumption and % coal for process heating**	
(A)	**Coal**	
(i)	Gross calorific value (kCal/kg)	
(ii)	Quantity purchased (tonnes/ year)	
(iii)	Quantity used for power generation (tonnes/year)	
(iv)	Quantity used as raw material, if any (tonnes/year)	
(v)	Quantity used for process heating (tonnes/year)	
(vi)	Total coal cost for process (Rs. Million/year)	
(B)	**Lignite**	
(i)	Gross calorific value (kCal/kg)	
(ii)	Quantity purchased (tonnes/year)	
(iii)	Quantity used for power generation (tonnes/year)	
(iv)	Quantity used as raw material, if any (tonnes/year)	
(v)	Quantity used for process heating (tonnes/year)	
(vi)	Total lignite cost for process (Rs. Million/year)	

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Location: NYPC LIMITED

		Year 20 - 20
(C)	**Bio mass Other purchased solid fuels (please specify) bagasse, rice husk, etc.**	
(i)	Average moisture content as fired (%)	
(ii)	Average gross calorific value as fired (kcal/kg)	
(iii)	Quantity purchased (tonne/year)	
(iv)	Quantity used as raw material, if any (tonne/year)	
(v)	Quantity used for process heating (tonne/ year)	
(vi)	Total bagasse cost for process (Rs. Million/year)	
7.3	**Liquid**	
(A)	**Furnace Oil(F.O.)**	
(i)	Gross calorific value (kCal/kg)	
(ii)	Quantity purchased (kL/ year)	
(iii)	Quantity used for power generation (kL/ year)	
(iv)	Quantity used as raw material, if any (kL/ year)	
(v)	Quantity used for process heating (kL/ year)	
(vi)	Total F. O. cost for process heating (Rs. Million/year)	
(B)	**Low Sulphur Heavy Stock (LSHS)**	
(i)	Gross calorific value (kCal/kg)	
(ii)	Quantity purchased (tonne/year)	
(iii)	Quantity used for power generation (tonne/year)	
(iv)	Quantity used as raw material, if any (tonne/year)	
(v)	Quantity used for process heating (tonne/year)	
(vi)	Total LSHS Cost for process heating (Rs. Million/year)	
(C)	**High Sulphur Heavy Stock (HSHS)**	
(i)	Gross calorific value (kCal/kg)	
(ii)	Quantity purchased (tonnes/year)	
(iii)	Quantity used for power generation (tonne/year)	
(iv)	Quantity used as raw material, if any (tonne/year)	
(v)	Quantity used for process heating (tonne/year)	
(vi)	Total HSHS cost for process heating (Rs. Million/year)	

		Year 20 - 20
(D)	**Diesel Oil**	
(a)	**High Speed Diesel (HSD)**	
(i)	Gross calorific value (kCal/kg)	
(ii)	Quantity purchased (kL/year)	
(iii)	Quantity used for power generation (kL/year)	
(iv)	Quantity used as raw material, if any (kL/year)	
(v)	Quantity used for process heating (kL/year)	
(vi)	Total HSD cost for process heating (Rs Millio n/year)	
(b)	**Light Diesel Oil (LDO)**	
(i)	Gross calorific value (kCal/kg)	
(ii)	Quantity purchased (kL/year)	
(iii)	Quantity used for power generation (kL/year)	
(iv)	Quantity used as raw material, if any (kL/year)	
(v)	Quantity used for process heating (kL/year)	
(vi)	Total LDO cost for process heating (Rs. Million/year)	
7.4	**Gas**	
(A)	**Compressed Natural Gas (CNG)**	
(i)	Gross calorific value (kCal/SCM) (Refer Annexure 2)	
(ii)	Quantity purchased (million SCM/year)	
(iii)	Quantity used for power generation (million SCM/year)	
(iv)	Quantity used as raw material, if any (million SCM/year)	
(v)	Quantity used for process heating (million SCM/year)	
(vi)	Total cost of natural gas for process heating (Rs. Million/year)	
(B)	**Liquefied Petroleum Gas (LPG)**	
(i)	Gross calorific value (kCal/SCM)	
(ii)	Quantity purchased (million SCM/year)	
(iii)	Quantity used for power generation (million SCM/year)	
(iv)	Quantity used as raw material, if any (million SCM/year)	
(v)	Quantity used for process heating million SCM/year	
(vi)	Total cost of LPG for process heating (Rs. Million/year)	

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		Year 20 - 20
(C)	**Gas generated as by product/ waste in the plant and used as fuel**	
(i)	Name	
(ii)	Gross calorific value (kCal/SCM)	
(iii)	Quantity used for process heating (million SCM/year)	
(iv)	Total cost of byproduct gas for process heating (Rs. Million/year)	
7.5	**Solid waste**	
	Solid waste generated in the plant and used as fuel	
(i)	Name	
(ii)	Gross calorific value (kCal/kg)	
(iii)	Quantity used for process heating (tonne/year)	
(iv)	Total cost of solid waste for process heating (Rs. Million/year)	
7.6	**Liquid waste**	
(A)	**Liquid effluent/ waste generated in the plant and used as fuel**	
(i)	Name	
(ii)	Gross calorific value (kCal/kg)	
(iii)	Quantity used for process heating (tonne/year)	
(iv)	Total cost of liquid effluent for process heating (Rs. Million/year)	
7.7	**Others**	
(i)	Name	
(ii)	Average gross calorific value (kCal/kg)	
(iii)	Quantity used for power generation (tonnes/year)	
(iv)	Quantity used for process heat (tonnes/year)	
(v)	Annual cost of the others source	

Signature
Name of the energy manager
Name of the company
Full address
Seal

Signature
Name of the accredited energy auditor
Accreditation Details
Seal

Kcal CS/pm-11

* Annexure1 - Name of sectors

Aluminium, cement, chemicals, chlor-alkali, fertilizers, gas crackers, iron and steel, naphtha crackers, pulp and paper, petrochemicals, petroleum refineries, sugar, textile.

Annexure 2 - Nomenclature

HSD	High Speed Diesel
LDO	Light Diesel Oil
LSHS	Low Sulphur Heavy Stock
LSFO	Low Sulphur Furnace Oil
C	Coal
B	Biomass
E	Electricity
C/I	Coal Imported
C/F	Indian Coal grade F
NG	Natural Gas
PNG	Piped Natural Gas
CNG	Compressed Natural Gas
FO	Furnace Oil
LPG	Liquefied Petroleum Gas
SCM	Standard Cubic Metre (15°C and 1.01325 bar)
KL	Kilo Litre
Million	Ten (10) lakh

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Reason: AC
Location: NTPC Limited

Form 2

Details of energy saving measures recommended in the energy audit report (year)
[See regulation 5(2)]

Sl. No	Energy saving measures – (Suggested categories of areas of improvement and modifications for obtaining details of energy savings –See Annexure 3)	Investment Millions Rs.	Reasons for not implementing the measure	Date of completion of measure/ likely completion	Life cycle years[1]	Annual energy[2] savings				
						Oil	Gas	Coal	Electricity	Other
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										

Signature
Name of the energy manager
Name of the company
Full address
Contact person
Email address
Telephone/ Fax numbers
Plant address

Signature
Name of the accredited energy auditor
Accreditation details
Seal

1. Indicate the predicted life of the measure, meaning the number of years the level of first year energy savings in each year is expected will materialise.
2. Use commercial units of fuel, eg. litres, normal cubic meter, kWh or MWh and indicate the unit. Indicate the anticipated percentage in annual savings.

Annexure 3

Suggested categories of areas of improvement and modifications for obtaining details of energy savings

1. Better house keeping measures
2. Installation of improved process monitoring and control instrumentation, or software
3. Fuel Handling System
4. Steam Generation System
5. Steam Distribution System
6. Electricity Generation System
7. Hot Water System
8. Compressed Air System
9. Raw/ Process Water System
10. Cooling Water System
11. Process Cooling/ Refrigeration System
12. Heating, Ventilation and Air Conditioning System
13. Electrical System
14. Lighting System
15. Heating/ Heating/ Drying Equipment (e.g. Furnaces, Heaters, Kilns, Ovens, Dryers, Evaporators, etc.)
16. Heat Exchangers
17. Pumps, Compressors, Fans, Blowers, Piping, Ducting
18. Process Equipment (e.g., Reactors, Separation Equipment, Material Handling Equipment, etc.)
19. Transformers
20. Electric Motors and Drives
21. Process Technology
22. Process Integration
23. Process Control and Automation
24. Other Non-equipment Measures (e.g., Plant Operation/ Scheduling, Tariff Schedule, etc.)
25. Recovery of waste heat for process heat or power generation
26. Retrofitting, modification or sizing of fans, blowers, pumps, including duct systems
27. Other

27. Other

Form 3
[See regulation 5(3)]

Details of energy conservation measures implemented, investment made and savings in energy achieved and progress made in the implementation of other recommendations.

A. Implemented:

Sl. No.	Description of energy efficiency improvement measure	Category[1]	Investment (Rupees)	Verified savings[2] (Rupees)	Verified energy savings	Units[3]	Fuel	Remarks
1								
2								
3								

B. Under implementation:

Sl. No.	Description of energy efficiency improvement measure	Category	Investment (Rupees) estimates	Verified savings (Rupees) estimates	Verified energy savings estimated	Units	Fuel	Status of implementation
1								
2								
3								

Signature
Name of the energy manager
Name of the company
Full address
Contact person
Email address
Telephone/Fax numbers
Plant address

Signatory
Name of the accredited energy auditor
Accreditation details
Seal

---

1. Use 'C' No' column of form 2 as reference – See Annexure '2' for reduction
2. First year
3. Use conventional energy, volume or mass units with proper prefix k = 10^3, M = 10^6, G = 10^9

Form 4

FORMAT

[See regulation 9 (2)]

Guidelines for preparation of Energy Audit Report

Each energy audit report shall include –

(1) Title page

- Report title
- Client name
- Location of the plant/establishment
- Date of report
- Name of the accredited energy auditors

(2) Table of contents

(3) Acknowledgement

(4) Executive summary

- Company's profile
- Goals and objectives of the energy management programme
  - Major challenge and goals for the upcoming year
  - Major activities to meet challenges and goal
- Summary and classification of energy
- Conservation measures – should be in Form 2

1.0 Introduction about the plant/establishment

1.1 General plant/establishment details and descriptions

1.2 Energy audit team

1.3 Component of production cost (raw materials, energy, chemicals, manpower, overhead, others)

1.4 Major energy use areas

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Date: [illegible]
Reason: [illegible]
Location: NIC [illegible]

2.0 Production process description

2.1 Brief description of manufacturing process

2.2 Process flow diagram and major unit operations

2.3 Major raw material inputs, quantity and costs

3.0 Energy and utility system description

3.1 List of utilities

3.2 Brief description of each utility

3.2.1 Electricity

3.2.2 Steam

3.2.3 Water

3.2.4 Compressed air

3.2.5 Chilled water

3.2.6 Cooling water

3.2.7 Others

4.0 Detailed process flow diagram and energy and material balance

4.1 Flow chart showing flow rate, temperature, pressures of all input-output streams

4.2 Water balance for entire industry

4.3 Energy balance of the designated consumer in the tabular form

5.0 Performance evaluation of major utilities and process equipments/ systems

5.1 List of equipments and process where performance testing was done

5.2 Results of performance testing

6.0 Energy efficiency in utility and process system

6.1 Specific energy consumption

6.2 Boiler efficiency assessment

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Reason: [illegible]
Location: NIC, [illegible]

6.3 Thermic fluid heater performance assessment

6.4 Furnace efficiency analysis

6.5 Cooling water system performance assessment

6.6 Diesel Generator set performance assessment

6.7 Refrigerator system performance

6.8 Compressed air system performance

6.9 Electric motor load analysis

6.10 Lighting system

6.11 Others.

7.0 Evaluation of energy management system

7.1 Energy management policy

7.2 Energy management monitoring system

7.3 Bench marking

7.4 Development and establishment of procedures include energy efficiency possibilities

7.5 Training to staff responsible for operational and associated processes

7.6 General audit review

7.7 Conform to Act, rules and regulations framed there under

7.8 Strength and weaknesses of the designated consumer.

8.0 Energy conservation measures and recommendations

8.1 The report shall provide existing energy profile of the designated consumer with percentage share of major equipment / processes, utilities etc., so that it becomes a basic documents for future monitoring.

8.2 Details of energy saving measures recommended in Form 2

8.3 Cost benefit analysis of each recommended energy saving measures as per standard practice.

8.4. The investment proposals shall be backed with technical and economic viability and prioritization of energy conservation measures based on financial analysis of various options taking into account the capacity of the designated consumer to make investment in such measures.

8.5. The energy auditor may also consider the substitution of existing energy use by any other form of techno-commercially viable form of energy.

8.6. Details of energy saving measures implemented, investment made and saving in energy achieved together with progress made in the implementation of the remaining energy saving measures in Form 3.

9.0 Certification

This part shall indicate certification by accredited energy auditor stating that-

(i) the data collection has been carried out diligently and truthfully;

(ii) all data monitoring devices are in good working condition and have been calibrated or certified by approved agencies authorised and no tempering of such devices has occurred;

(iii) all reasonable professional skill, care and diligence had been taken in preparing the energy audit report and the contents thereof are a true representation of the facts;

(iv) adequate training provided to personnel involved in daily operations after implementation of recommendations; and

(v) the energy audit has been carried out in accordance with the Bureau of Energy Efficiency (Manner and Intervals of Time for the Conduct of Energy Audit) Regulations, 2010.

Signature
Name of the accredited energy auditor
Accreditation details
Seal

AJAY MATHUR, Director-General

[ADVT III/4/155/10-Exty.]

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Date: [illegible]
Reason: [illegible]
Location: NTPC Limited

Report

On

DETAILED ENERGY AUDIT

National Capital Thermal Power Station

1820MW [4X210MW + 2x490MW]

Station ID: TPP0124UP

Distt- Gautam Budha Nagar (UP)

Conducted from 23.05.2017 to 27.05.2017

As

Mandatory Energy Audit

By

Sanjay K Tyagi

Accredited Energy Auditor

Registration No: EA – 0062

Document verified by PARWAL
PIYUSH
Date: 2024
Reason: AGM (Commercial)
Location: NTPC Limited

Recommendations:

A. Medium Term: Under this category, recommendations require small amount of investment and can be implemented within the period of 01 year. These recommendations normally have attractive payback period and starts giving returns on implementation.

1. **Overhauling of Mills with high specific energy consumption:** Mill 1B, 1C and 4C are having high SEC, hence requires overhauling / replacement of mill internals.

2. **Attending Air ingress:** Presently station follows practice of overhaul once every two year. Draft power improvement after overhaul sustains for only 6-8 months, and thereafter remains at higher level till the scheduled overhaul. A short shut down may be planned for repair of air ingress in duct and leakages of APH. This will help in maintaining average draft power consumption at lower level.

   Unit# 2, 3 and 5 are having high draft power / O2 levels. APH seals and FG ductwork to be taken up during upcoming overhaul.

3. **Retrofitting of VFD in ID Fans of Unit# 2** : Retrofitting of VFD in ID fans will provide significant energy savings, especially during part load conditions (200-480 KW / unit). As the station units are running at part load for long periods, significant savings can be achieved through this measure.

4. **VFD retrofitting in LT Drives:** Retrofitting of VFD in LT drive is very common and results in attractive payback. Based upon criticality and saving potential, large capacity Ash Water pumps may be taken up for VFD retrofitting.

5. **Energy efficient coating in CW / ECW pumps:** Energy efficient coating of pump internals of large water pumps give a minimum of 4% pump efficiency improvement. Station may take up coating of CW and ECW pumps in phased manner.

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Reason: AOA Commercial
Location: NTPC Limited

Estimated Energy Savings calculations

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PIYUSH
Date: 2024
Reason: AOA
Location: NTPC Limited

1. **Savings through Installation of VFD in Unit-2 ID Fans:**

Estimated Savings in MU assuming 90% duration of unit running. There is expected saving of 200kW to 480 kW depending upon unit loading. Assuming 25 % of time minimum (55% unit loading and 25% of time 75% unit loading factor)

Annual Estimated savings =

24hrs*365days**0.5*200kW+0.25*360kW+0.25*480kW)*0.9/1000000

= 2.44 MU per year

Savings in Rs @ 3.2 per kWh = 3.2*2.44 = 78.08 lacs

2. **Savings through Coatings on ECW pumps:**

There is 4% savings expected through coating internals of pumps. Each pump Annual consuming 200 kW power, coating on 04 pumps will result in 32 kW savings

Estimated savings = 24hrs*365days*32kW*0.9/1000000

= 0.25 MU per year

Savings in Rs @ 3.2 per kWh = 3.2*0.25 = 8.0 lacs

3. **Savings through Jet cleaning of condenser Unit-1 & 2:**

There is expected improvement in HR by 6.2 & 9.5 kcal/kwh in condenser of unit-1 & 2.

Annual Savings in kcal = 24hrs*365days*0.9*(210000*6.2 +210000*9.5)

Coal saving = 25996200000 kcal /3700 kcal/kg = 7026 T per year

Savings in Rs @ 5000 per T = 7026 T * Rs 5000 = 351.3 lacs

4. **Savings through Polymer coating on CW pumps:**

There is saving potential of 4% in power consumed by CW pump. Estimated savings through coating on 03 pumps is 79 kW

Annual Estimated Savings = 24hrs*365 days*79kW*0.9*0.33 = 0.206 MU

Savings in Rs @ 3.2 per kWh = 3.2*0.206 = 6.59 lacs

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Reason: AOC Commercial
Location: NTPC Limited

FORM 2

Details of energy saving measures recommended in energy audit report
(See regulation 9(2))

S.No.	Energy Saving measures /Suggested changes or areas of improvement and modification for obtaining details of energy savings with financial impacts (i)	Investment(s) (Rs.Rs)	Reason for not implementing the measures	Date of completion of the measures/Expected completion	Life cycle years	Annual Energy savings				
						Oil	Gas SMC	Coal MT	Electricity MU	Other
1	Single/DPH aberration in oxygen pipe during plant load	Nil	NA	Immediate	Continuous				Variable	
2	Reduction of NPT in IC fans at level 2	250	NA	31.03.2019	3				2.440	
3	Cooling in ESP zones of stage 3 units	9	NA	31.03.2018	3				5.250	
4	Air density of Condenser at K 1 &2	2.5	NA	31.03.2019				2626		
5	Attending APH Gas leakage units 2 &3	180.0	NA	31.03.2018	0.5			4508.5		
6	Replacement displacing air with LED lights	600	NA	31.12.2018	3				7.25	
7	Energy efficient Cooling on AC unit Obtained	4.20	NA	31.3.2018	3				0.200	
8	Stage-2 F spy coal mills 1 &2	Nil	Nil	Immediate	Continuous				Variable	
	Signature				Signature					
	Name of Energy Manager	S K Majumder			Name of Accredited Energy Auditor	Simply Name Tyagi				
	Name of Company	NTPC LTD			Accreditation Details	AEA-0002				
	Full Address	NTPC Tanda								
	Contact person	S K Majumder			Seal	S. K. TYAGI Accredited Energy Auditor AEA - 0002 Bureau of Energy Efficiency				
	Email address									
	Telephone/fax number									
	Postal Address									
1	Calculate the predicted life of the investment (payback) for number of years that level of final year energy savings in [illegible]									
2	Use Consistent units of energy across various cost centre (GJ) or MWh and indicate the unit. Indicate net annual [illegible]									

Action Plan reporting format for PAT Cycle-II (2016-19)

Annexure-10-A/10

Sr. No.	Energy efficiency improvement measures (EEM)	Investment Rupees (Lakh)	Date of completion of measure/ likely completion	Energy Consumption (TOE)		Annual Energy saving				
				Before Measures	After Measures	Electricity (kWh)	Oil (Tonne)	Gas (SCM)	Coal (Tonne)	Other (if any)
1	Providing VFD in ID Fans of Unit1	286	31.10.2016	10848	10178	780000				
2	Providing VFD in ID Fans of Unit2	286	31.03.2017	10848	10178	780000				
3	Polymer coating of Stage 1 CW Pumps	24	31.03.2017	33751	32801	1103760				

Signature

Name of the energy manager: S .K .MAJUMDAR
Regd. No.: EA-10041
Mob. No.: 9650994625
Email ID: skmajumdar03@ntpc.co.in

Signature

Name of the plant head: DEBASIS SARKAR
Mob. No.: 9650999558
Email ID: dsarkar@ntpc.co.in

DEBASIS SARKAR
Group General Manager
NTPC Limited, Dadri
P.O. : Vidyutnagar-201008
Distt.: Gautam Budh Nagar

Name of the company: NTPC DADRI (COAL)

Full address: GAUTAM BUDH NAGAR (UP),PIN 201008
Contact person: d k s rautela
Email address: dksrautela@ntpc.co.in
Telephone/ Fax numbers: 01202805109
Plant address: CTSG(coal),NTPC dadri

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Reason: [illegible]
Location: NTPC Limited

Annexure- 10-A/11

FORM 1 (2019-20)

[illegible]

[illegible]

A. Implemented

S. No.	Description of energy efficiency improvement measure	Category	Investment (Lakh Rs)	Verified savings (Rs)	Verified Energy savings (kWh)	Date	Proof	Remarks
1	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		
2	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		
3	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
4	[illegible]		[illegible]	[illegible]	[illegible]		[illegible]	
5	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		
6	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		
7	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		
8	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]

B. Under Implementation

S.No.	Description of energy efficiency improvement measure	Category	Investment (Lakh Rs)	Verified savings (Rs)	Verified Energy savings (kWh)	Date	Proof	Status of Implementation
1	[illegible]		[illegible]	–	–	–	–	[illegible]

[illegible]

[illegible]

[illegible]

Annexure-10-A12

No. Q-15012/[illegible]/2015-CPW
Government of India
Ministry of Environment, Forest & Climate Change
C PD Division

Indira Paryavaran Bhawan,
Jor Bagh Road,
New Delhi-110003
Dated 26th August, 2015

Office Memorandum

Subject: Protocol for sampling, analysis of coal and reporting of compliance in respect of implementation of the Gazette notification on use & supply of raw or blended or beneficiated coal with ash content not exceeding 34% ash content in coal based thermal power plants

1.0 Purpose:

This protocol presents the protocol for sampling, analysis of coal and reporting of compliance on quarterly basis with respect to ash content in coal to be supplied and used by the thermal power plants covered under the provisions of the Gazette notification GSR 02 (E) dated January 02, 2014 on supply and use of raw or blended or beneficiated coal in thermal power plants. The objective is to ensure compliance of the quality of coal with respect to ash content, supplied and used by thermal power plants in keeping with applicable extant Notification of the Ministry in this regard. The data generated shall help in evaluation of compliance level of the notification.

2.0 The Notification:

In exercise of the powers conferred by Section 3, Section 6 and Section 25 of the Environment (Protection) Act, 1986 (29 of 1986) read with rule 5 of the Environment (Protection) Rules, 1986, the Ministry of Environment, Forest & Climate Change, Government of India made the following rules vide notification No GSR 2 (E) dated January 02, 2014 under the Environment (Protection) Rules, 1986, namely :—

With effect from the date specified hereunder, the following coal based thermal power plants shall be supplied with, and shall use, raw or blended or beneficiated coal with ash content not exceeding thirty-four per cent. on quarterly average basis, namely :—

(a) a stand-alone thermal power plant (of any capacity), or a captive thermal power plant of installed capacity of 100 MW or above, located beyond 1000 kilometers from the pit-head or, in an urban area or an ecologically sensitive area or a critically polluted industrial area, irrespective of its distance from the pit-head, to serve a pit-head power plant, with immediate effect;

(b) a stand-alone thermal power plant (of any capacity), or a captive thermal power plant of installed capacity of 100 MW or above, located between 750 – 1000 kilometers from the pit-head, with effect from the 1st day of January, 2015;

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Reason: Approved
Location: NTPC Ltd

(c) a standalone thermal power plant (of any capacity), or a captive thermal power plant of installed capacity of 100 MW or above, located between 500-150 kilometres from the pit-head, with effect from the 5th day of June 2016:

Provided that in respect of a thermal power plant using Circulating Fluidized Bed Combustion or Atmospheric Fluidized Bed Combustion or Pressurized Fluidized Bed Combustion or Integrated Gasification Combined Cycle technologies or any other clean technologies as may be notified by the Central Government in the Official Gazette, the provisions of clauses (a), (b) and (c) shall not be applicable.

3.0 Statutory Compliance Requirement and Reporting:

As per the notification, power plants located 750 kilometres from pit head (500 kilometres from June 05, 2016) shall be supplied with, and shall use, raw or blended or beneficiated coal with ash content not exceeding thirty-four per cent. on quarterly average basis. Hence, coal mine or company, as applicable, supplying coal to thermal power plants as well as thermal power plants covered under provisions of the notification shall require to submit compliance report for each quarter with respect to average ash content in coal used by them to respective State Pollution Control Boards (SPCBs), Regional office of the Ministry of Environment, Forest & Climate Change (MoEF&CC) and Central Pollution Control Board (CPCB).

4.0 Amendment in Consent under Air (Prevention and Control of Pollution) Act, 1981 & conditions in Environmental Clearance issued under Environment (Protection) Act, 1986:

In order to implement the provisions made in the notification, the State Pollution Control Board concerned and Ministry of Environment, Forest & Climate Change shall include a condition with respect to specifying ash content in raw or blended or beneficiated coal to be supplied by the coal mine or company, as applicable, and used by thermal power plants, in the existing consent under consent under Air (Prevention and control of pollution) Act, 1981 and in Environmental Clearance issued under Environment (Protection) Act, 1986 to thermal power plant and coal mine or company, as applicable, under the purview of the notification on supply and use of raw or blended or beneficiated coal and shall invariably provide in all new thermal power plant and coal mine or company, as applicable, which may otherwise fall under the purview of the said notification.

5.0 Ash content monitoring (sampling and analysis) technique of coal:

Coal is highly heterogeneous in nature consisting of particles of various shapes and sizes each having different physical characteristics, chemical properties and residual ash contents. Sampling is further complicated by the sampling equipment available, the quantity to be represented by the sample mass, and the degree of precision required. In addition, the coal to be sampled may be a blend of a different coal types and how the coal is blended has a profound effect on the way a representative sample is obtained. National and international standards have been developed to provide guidelines for coal sampling procedures under different conditions, sample preparation and fine test procedures for the purpose of obtaining ambient samples.

Real Time monitoring using auto mechanical sampling (online) from moving streams shall be used for sampling fuels. This shall be effective from a date not later

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than 01 September, 2019 in order to enable the Coal Companies and thermal power plants to install and operationalise the real time monitoring system. Manual sampling and analysis may be done so as to verify the online monitoring results.

In case of manual monitoring, coal samples may be taken from a moving conveyor belt since sampling from stationary coal such as a coal storage pile or railcars may be problematic. The analysis of samples shall be carried out by third party appointed by the respective thermal power plant/coal mine or company, as applicable, as per the guidelines of Coal Controller.

6.0 Calibration of auto-mechanical sampler:

It should be ensured that the online ash monitoring instrument is properly calibrated. Measurements should be accepted as valid only if the calibration level shows variation in ash content is 1.0-2%. The online monitor and calibrator will hold a current calibration certificate traceable to national standards.

7.0 Location of Real-Time monitor:

The best location of real-time monitor for sampling from a moving stream is at the coal discharge point of a conveyor belt to bunker where the complete stream can be intercepted at regular intervals.

8.0 Sampling frequency:

The continuous sampling of ash content in coal shall be carried out using real-time coal quality monitoring devices. In case of manual monitoring, minimum one sample from moving conveyor belt loading to bunker at each filling shall be collected. The data generated shall be compiled and average for each quarter shall be calculated for reporting to concerned agencies as specified in the para 10 of this Office Memorandum.

9.0 Monitoring:

The following criteria will be observed when undertaking the sampling and analysis of coal samples with respect to ash content.

9.1 In case of manual monitoring:

i. Collection of coal samples shall strictly be collected as per the guidelines of Coal Controller/ Bureau of Indian Standards (BIS).
ii. Coal samples shall be collected by the third party appointed by the respective thermal power plant, coal mine or company, as applicable. However, in case of legal sampling a representative of concerned SPCB, thermal power plant, coal mine or company, as applicable shall also be present during sampling.
iii. Preparation of samples and analysis shall be carried out by using standard methodology as given by Coal Controller/ Bureau of Indian Standards (BIS) at the NABL accredited laboratory of either coal company/power plant or third party engaged.

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9.2 In case of Real Time monitoring:

Data generated through real time online monitors shall be computed on daily basis as average of 3 months shall be calculated for reporting of compliance.

10.0 Monitoring records:

All power plants and coal mine or company, as applicable shall maintain records of the data generated and reported to SPCBs concerned, CPCB & Regional Office of MoEF&CC in compliance to the provisions of the notification for every quarter.

11.0 Compliance Reporting:

All thermal power plants covered under provisions of the notification shall submit compliance Report for each quarter with respect to average ash content in coal used by them to respective SPCBs, Regional office of the MoEF& CC and CPCB on or before 10th day of next month of each quarter ending on 31st day of March, 30th day of June, 30th day of September and 31st day of December every year. Similarly all coal mine or company, as applicable, supplying coal to power plants shall also submit the same as applicable as mentioned in para 3 of this Office Memorandum.

In order to improve compliance reporting, the thermal power plant and connected coal mine or company, as applicable, should explore possibility of reporting of compliance on continuous basis (online) by making suitable arrangements with respect to ash content in coal being supplied and used by thermal power plants.

12.0 Verification of data & Compliance:

The SPCB concerned shall verify the sampling and analysis process and calibration of real time monitoring devices at least once a year at each thermal power plant and coal mine. Besides, random sampling and analysis of coal used by the power plant and supplied by coal mine shall also be conducted once in a year to ensure compliance and quality of data reporting by the thermal power plants and coal mines.

(Dr. Manoranjan Hota)
Director

To

1. PS to MEF&CC
2. PPS to Secretary (EF&CC)
3. Secretary, Ministry of Coal, Shastri Bhawan, New Delhi
4. Secretary, Ministry of Power, Nirman Bhawan New Delhi
5. Secretary, Ministry of Steel, Udyog Bhawan, New Delhi
6. PPS to Addl. Secretary (IA&P) AS (M&A) MoEF&CC
7. JS (M) & JS(IA)
8. Chairman, CPCB/Member Secretary, CPCB
9. Member Secretary, All the SPCBs/UCCs
10. IT Division MoEF&CC to upload into the website

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Annexure-10-A/13

CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

Petition No. 418/GT/2020

Coram:
Shri P. K. Pujari, Chairperson
Shri I. S. Jha, Member
Shri Pravas Kumar Singh, Member

Date of Order: 24th January, 2022

In the matter of:

Petition for approval of tariff of Simhadri Super Thermal Power Station Stage-II (1000 MW) for the period from 1.4.2019 to 31.3.2024

And

In the matter of:

NTPC Limited,
NTPC Bhawan, Core-7, Scope Complex,
7, Institutional Area, Lodhi Road
New Delhi-110003 ....**Petitioner**

Vs

1. AP Eastern Power Distribution Company Limited,
   Corporate Office, P&T Colony, Seethammadhara
   Visakhapatnam – 530 013 - (AP)

2. AP Southern Power Distribution Company Limited,
   Corporate Office, Back side, Srinivasa Kalyana Mandapam
   Tiruchhanur Road, Kesavayana Gunta,
   Tirupathi – 517 503 (AP)

3. Telangana State Northern Power Distribution Company Limited,
   H.No. 2-5-31/2, Vidyut Bhavan, Nakkalagutta, Hanamkonda
   Warangal – 506 001 (AP)

4. Telangana State Southern Power Distribution Company Limited,
   Mint Compound, Corporate Office
   Hyderabad (AP) – 500 063

5. Tamil Nadu Generation & Distribution Corporation Limited,
   144, Anna Salai,
   Chennai – 600 002

Commission for approval of implementation of Revised Emission Systems on account of mercury, particulate matter, including specific water consumption, if required. The Commission by order dated 30.9.2021 has disposed of the said petition granting liberty to the Petitioner on this ground. As the said works are quite complimentary to the additional capital expenditure claimed by the Petitioner on account of ZLD work, in the present petition, the Petitioner's claim for additional capital expenditure of Rs.690.00 lakh for augmentation of ZLD WORK for Main plant and Ash Dyke area in 2019-21 is not allowed. The Petitioner may claim the additional capital expenditure in a comprehensive manner in terms of liberty granted vide order dated 30.9.2021 in Petition No. 467/MP/2019.

(d) *Online Coal Analyser*

25. The Petitioner has claimed projected additional capital expenditure of Rs.373.00 lakh towards Online coal analyser in 2019-20 under Regulation 26(1)(b) of the 2019 Tariff Regulations. The Petitioner has furnished copy of the OM (office memorandum) dated 26.8.2015 from MOEF&CC, which mandated all coal based thermal power plants with installed capacity of 100 MW and above located at a distance of 500 km and above from coal source for sampling and analysis of coal and reporting of compliance in respect of use and supply of raw or blended coal with ash content not exceeding 34% as content in coal. The Petitioner has further submitted that the said OM directs real time monitoring, using auto mechanical sampling (online) from moving stream of coal used for sampling fuels. The Petitioner has also submitted that as the generating station is located at about 600-700 km from the linked mines and also source coal from other mines, under flexible coal utilization scheme, it is obligated to incur the expenditure for installation of 'Online coal analyser' to comply

with the MOEF&CC directions and has prayed that claim may be allowed under change in law.

26. The Respondent, TANGEDCO has submitted that the Online coal analyser system is required for generating stations using coal with ash content less than 34% and the Petitioner in Form-15 has mentioned that no blended coal is used. Accordingly, it has submitted that the Petitioner may be directed to furnish documentary evidence of the percentage of ash content in the coal used for the generating station. The Respondent, KSEBL has submitted that the additional capital expenditure claimed by the Petitioner may be met from the O&M expenses allowed to the generating station. The Petitioner has clarified that that the additional capital expenditure claimed is required in compliance to the MoEF&CC notification dated 26.8.2015. It has also referred to APTEL judgment dated 30.9.2019 in Appeal No. 246/2014 and judgment dated 10.2.2015 in Appeal No. 171/2012 and submitted that the claim may be allowed. The Petitioner, therefore, has prayed that the said work is uncontrollable in nature and may be allowed under Change in law in terms of Regulation 26(1)(b) of the 2019 Tariff Regulations.

27. The submissions have been considered. It is observed that the MoEF&CC notification dated 26.8.2015 mandates all coal based thermal power plants for sampling, analysis of coal and reporting of compliance in respect of use & supply of raw or blended or beneficiated coal with ash content not exceeding 34%. In this background and since the generating station is located at about 600-700 km from the linked mines, the projected additional capital expenditure claimed by the Petitioner is allowed under Regulation 26(1)(b) of the 2019 Tariff Regulations.

CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

Petition No. 411/GT/2020

Coram:
Shri I.S. Jha, Member
Shri Arun Goyal, Member
Shri Pravas Kumar Singh, Member

Date of Order: 30th May, 2023

IN THE MATTER OF

Petition for approval of tariff of Vallur Thermal Power Station (1500 MW) for the period from 1.4.2019 to 31.3.2024.

And

In the matter of:

NTPC Tamil Nadu Energy Company Limited,
No. 123, G- Block, Anna Nagar (East),
Chennai- 600102 .....**Petitioner**

Vs

1. A.P. Transmission Corporation Limited,
   Vidyut Soudha, Khairatabad,
   Hyderabad - 500 082.

2. A. P. Eastern Power Distribution Company Limited,
   P&T Colony, Seetammadhara,
   Vishakapatnam - 503 013

3. A.P. Southern Power Distribution Company Limited,
   D.NO 19-13-65/A Srinivasapuram,
   Tiruchanoor Road Tirupathi- 517 501

4. Transmission Corporation of Telangana Limited,
   Vidyut Soudha Khairatabad,
   Hyderabad - 500 082

5. Telangana State Southern Power Distribution Limited,
   2nd Floor, H. No. 6-1-50, Mint Compound,
   Hyderabad-500 063

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Location: NTPC Limited

allowed as under:

> *"The prayer in this application is to allow the National Thermal Power Corporation Ltd. To use alternate fuels such as Low Sulphur Heavy Stock (LSHS) along with Light Diesel Oil (LDO) in consonance with the order dated 13.12.2017 in substitution of Furnace Oil. The learned Amicus has no objection to the application being allowed. The applications are allowed."*

20. In view of above, the projected additional capital expenditure of Rs. 52.00 lakh in 2020-21 for asset/work relating to HFO to LDO conversion is **allowed** under Regulation 26(1)(b) of the 2019 Tariff Regulations. The Petitioner is directed to furnish the de-capitalized value of existing asset which is being converted/replaced by LDO system, at the time of truing up. The Petitioner is also directed to furnish the savings in respect of auxiliary power consumption and station heat rate as HFO heating system shall not be required when LDO system is in use by the generating station.

Online Coal Analyzer

21. The Petitioner has claimed projected additional capital expenditure of Rs.67.00 lakh, towards Online coal analyzer in 2020-21, under Regulation 26(1)(b) of the 2019 Tariff Regulations. In justification of the same, the Petitioner has furnished copy of the OM (office memorandum) dated 26.8.2015 from MOEF&CC, which mandates all coal based thermal power plants with installed capacity of 100 MW and above located at a distance of 500 km and above from coal source for sampling and analysis of coal and reporting of compliance in respect of use and supply of raw or blended coal with ash content not exceeding 34% as content in coal. The Petitioner has further submitted that the said OM directs real time monitoring, using auto mechanical sampling (online) from moving stream of coal used for sampling fuels. The Petitioner has also submitted that as the generating station is located at about 1350 km from the linked mines and it also sources coal from other mines, under flexible coal utilization scheme, it is obligated

incur the expenditure for installation of 'Online coal analyzer' to comply with the MOEF&CC directions and has prayed that claim may be allowed under change in law.

22. The submissions have been considered. It is observed that the MoEF&CC notification dated 26.8.2015, mandates all coal based thermal power plants for sampling, analysis of coal and reporting of compliance in respect of use & supply of raw or blended or beneficiated coal with ash content not exceeding 34%. Further, MOEF &CC vide its gazette notification dated 21.5.2020 had permitted use of coal by Thermal Power Plants, without stipulations as regards ash content or distance. However, it is seen that the said notification dated 21.5.2020 has been issued by MOEF&CC after the capital expenditure has been carried by the Petitioner. In this background and since the generating station is located at about 1350 km from the linked mines, the projected additional capital expenditure claimed by the Petitioner on this count is **allowed** under Regulation 26(1)(b) of the 2019 Tariff Regulations.

Dust Suppression system for Ash Dyke- Lagoon

23. The Petitioner has claimed projected additional capital expenditure of Rs.323.00 lakh in 2021-22 and Rs. 276.00 lakh in 2023-24, towards Dust Suppression system for Ash Dyke- Lagoon, under Regulation 26(1)(b) of the 2019 Tariff Regulations. In support of the same the Petitioner has submitted that the discharge of Ash to Dyke should be in slurry form only and it has to provide an adequate water cover to maintain the Ash Dyke to prevent fugitive emission. The Petitioner further submitted the Tamil Nadu Pollution Control Board (TNPCB) vide letter dated 29.6.2018, has directed the Petitioner to stop the work related to construction of Ash dyke Lagoon-I pertaining to the generating station and has directed the Petitioner to furnish the following information:

a. The unit shall earmark the location of the proposed Ash dyke [illegible]

Annexure-10-A/15

Report of Safety Audit

Conducted at

Thermal Power Plants

by

Safety Audit Committee

(Under Hon'ble NGT Order dated 22-12-2020)

Central Electricity Authority
(January 2022)

for various emergencies scenarios & debriefing session must be conducted after each mock drill.

ii. The gaps observed are to be analyzed and mitigation measures are to be taken. These details are to be recorded in a register.

iii. Fire Marshalls/ firefighting crew must be trained for actual emergencies scenarios and proper records need to be maintained.

7. Some of the audited stations did not have a well-formulated Fire Emergency Plan.

Recommendation: Each Power Station shall have a Fire Emergency Plan formulated so as to facilitate organized actions (in case of fire) by employees at various levels, during day as well as night. These orders shall also contain the instructions on fire prevention measures and the firefighting organization.

8. Control Rooms of most of the power stations are not having the latest environment-friendly fire-fighting systems/ equipment.

Recommendation: In power stations, clean agent (environment friendly) fire suppression system must be provided in all control rooms.

5.1.3 Safety Aspects of Balance of Plant Systems

General upkeep of the various areas of Balance of power plant system was not adequate in some of the power stations. In some of the vulnerable areas like Crusher house, coal/ lignite Bunker etc. accumulation of coal/ lignite dust was observed. Wild vegetation growths in Switchyard, corroded support structures of coal/ lignite conveyor system, large quantities of scraps/ dismantled machinery were observed in various areas of the power station. Power plant management must take immediate action to improve housekeeping of the entire plant.

Detailed observations and recommendations as observed in Balance of Plant System by Safety Audit team are summarized here:

(A) Chlorination Plant

1. In some of the power stations, Chlorine leak sensor probes were not provided at some of the chlorine cylinder bays.

Recommendation: Chlorine leak sensor probes must be provided for all chlorine cylinder bays at proper locations.

2. In some power stations, there is no water sprinkler system in chlorination plant.

   Recommendation: Water sprinkler system need to be installed in chlorination plant to neutralize chlorine leak in addition to the extant system.

3. In most of the power stations, except two stations, proper PPEs kit like gas tight chemical protective suits, suitable masks & gloves were not provided to the operators working in the Chlorination plant area.

   Recommendation: Proper job specific PPEs kits must be made available to the operators.

(B) Hydrogen Plant

1. In some stations, it was found that hydrogen generating & filling plant is available. Except in one station, hydrogen plant was not properly locked to prevent entry of stray animals/ unauthorized persons. Even operators/ staff have their seating arrangements near the Hydrogen compressor which indicates carelessness in operating Hydrogen plant.

   Recommendation:

   i. In Hydrogen plant, provisions must be made as per the requirements of a hazardous area.

   ii. H_2 charging & store room area and their isolation door should be kept in locked conditions so that unauthorized entry may be avoided.

   iii. Use of Mobile phone must be prohibited in H_2 Plant.

   iv. No unauthorized person should be allowed near H_2 Generator, Compressor and storage area.

   v. Static electric charge dissipater must be provided at the entry gate of each hydrogen plant.

   vi. Flame-proof electric fittings should only be used to avoid any fire / explosion hazard.

14. In some of the plants, the Buckstays in some of the locations were found not clean. Buckstays of Boilers were having huge dust (coal/lignite/ash) deposits.

    Recommendation: The boiler buckstays need to be cleaned of dust deposits for smooth movement

15. In ESP, the general observation includes the problems associated with ash hoppers evacuation system, dysfunctional hopper level indicators, dysfunctional heater etc. which may lead to accidents.

    Recommendation: Regular ash level monitoring in hoppers has to be ensured by providing Ash Level Indicators (ALI) in the ash hoppers and whenever the ash level is above the limit in the hopper, it has to be isolated. Further, wherever Ash level indicator (ALI) is not available in the ash hoppers, it has to be provided.

16. Leakage of steam/water was observed at some places

    Recommendation: Steam /water leakages must be attended immediately

17. The problem of vibrations of fans (Primary, Forced, Induced) were not being monitored and attended-to in some of the plants because the instrumentation for vibration monitoring was not being maintained in a healthy condition.

    Recommendation: Instrumentation provided for vibration monitoring must be maintained in healthy condition so that vibration of fans is kept within prescribed limits

18. Hangers of critical piping were not loaded properly at different locations of some of the plants.

    Recommendation: Hangers should be kept clean and checked time to time for load distribution and distortions. Cold and Hot reading of Hangers must be taken and their proper functioning and proper loading must be ensured

19. The condition of Bunker house in some of the stations need lot of improvement. There was lot of dust accumulation over the conveyer structure, instruments/cables.

Recommendation: Bunker house must be maintained to avoid any kind of fire hazard and emergencies.

20. In some power plants, Open electrical boxes/panels, old non-working electrical boxes were found at some places on boiler.

    Recommendation: Open electrical boxes are to be closed and non-working boxes are to be removed.

21. In some places, cables were found damaged and some junction boxes were found open. Cables were not organized in cable trays.

    Recommendation: The Junction Boxes are to be kept closed. Unorganized electrical cables on boiler are to be organized properly in cable trays.

22. In some power plants, Chain guard and coupling guard of rotating equipment were missing at some places.

    Recommendation: Rotating parts may be covered with proper guards.

23. At some places, the Ammonia Cylinders were found without having caps and cylinders were not tied by chains. There is no safety shower near ammonia cylinders.

    Recommendation: In case of any cylinder containing the compressed gas, the nozzle must be covered with caps and cylinder must be tied with chains to avoid accidental falling of cylinders.

24. Safety Valves and Electromatic Relief Valves (ERV) of all units were checked for their functionality and it was observed in all plants that they were in service.

    Recommendation: All stations must maintain the safety valves and ERVs and must ensure that all of them are operative.

5.3 Turbine-Generator Safety

The sub-group on Turbine & Generator Safety during the audit process had following important observations/ recommendations.

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केंद्रीय विद्युत प्राधिकरण
Central Electricity Authority
सचिव कार्यालय
Office of the Secretary

No. CEA/TETD-TE/2017/M-25/1137 – 1251 Dated: 25.11.2017

To

All State Power Secretaries, Thermal Power Generating Plants/ Utilities (Public or Private), Power Equipment Manufacturers – As per list

Subject: Biomass Utilization for Power Generation through Co-firing in Pulverised Coal Fired Boilers- Advisory के बारे में।

Dear Sir,

As you may be aware that stubble burning has been cited as a major cause of recent smog in North- West India. Stubble burning is deliberate setting fire of the straw stubble that remains after harvesting of paddy and other crops. Instead of burning in open fields, these can be collected, processed and can be used as Biomass fuel to generate power.

Biomass Co-firing is a well proven technology. With increasing environmental awareness, power plants all over the world have adopted Biomass Co-firing as a strategy to combat pollution. UNFCCC recognizes Biomass Co-firing as a carbon neutral technology for mitigation of carbon emission from coal based power plants.

NTPC have successfully demonstrated the Co-firing of 7% blend of Biomass pellets with coal in its Dadri Power Plant. This can be replicated in other coal fired power plants having bowl mills/vertical roller mills/ beater mills.

Ministry of Power vide letter No. 11/86/2017-Th.II dated 17th November, 2017 have forwarded 'Policy for Biomass Utilization for Power Generation through Co-firing in Pulverised Coal Fired Boilers' and has requested to issue the same to all the Power Plants/ Utilities (public or private), State Governments, Power equipment manufacturers and other stake holders. The Policy has been uploaded on CEA website www.cea.nic.in

सेवा भवन, रामा हाउस, आर के पुरम, नई दिल्ली-66, टेलीफोन 011-26715475 ई-मेल
Sewa Bhawan, 9th Floor, R.K. Puram, New Delhi-66, (Mobile 011-26715475), e-mail

'In order to promote use of the Biomass pellets, all fluidized bed and pulverized coal units (coal based thermal power plants) except those having ball and tube mill, of power generating utilities, public or private, located in India, shall endeavor to use 5-10% blend of Biomass pellets made, primarily, of agro residue along with coal after assessing the technical feasibility, viz. safety aspects etc.'

Yours faithfully,

(P.C. Kureel)
Secretary, CEA

To

Central Utilities

1. Chairman & Managing Director, NTPC Ltd., NTPC Bhawan, Scope Complex, 7, Institutional Area, Lodhi Road, New Delhi-110003.

2. Chairman, Damodar Valley Corporation, DVC Towers, VIP Road, Kolkata- 700 054

3. Chairman & Managing Director, Neyveli Lignite Corporation Ltd., Corporate Office, Block-I, Neyveli - 607801 , Tamil Nadu

State Utilities

1. Managing Director, Andhra Pradesh Power Generation Corporation Limited, Vidyut Soudh, Hyderabad- 500 049 Andhra Pradesh

2. Managing Director, Assam Power Generation Corporation Ltd. , Bijuli Bhawan, 4th Floor, Paltan Bazar, Guwahati 781001 Assam

3. Managing Director, Bihar State Power Generation Company Ltd., 1st Floor, Vidyut Bhawan, Bailey Road, Patna 800 021

4. Managing Director, Chhattisgarh State Power Generation Corporation Ltd., Dagniya, Raipur - 492 013 Chhattisgarh

5. Managing Director, Durgapur Projects Ltd., Dr. B C Roy Avenue, District Burdwan, Durgapur- 713 201 West Bengal

6. Managing Director, Gujarat State Electricity Corporation Ltd., Sardar Patel Vidyut Bhawan, Race Course, Vadodara 390 007 Gujarat

7. Managing Director, Gujarat Urja Vikas Nigam Ltd., Sardar Patel Vidyut Bhawan, Race Course Road, Vadodara- 390 007 Gujarat

8. Managing Director, Haryana Power Generation Corporation Ltd., Room No. 411, 3rd Floor, Urja Bhawan, C-7, Sector-6, Panchkula - 134 112 Haryana

9. Managing Director, Jharkhand Urja Vikas Nigam Limited, Engineering Building HEC, Dhurwa, Ranchi 834 004 Jharkhand.

10. Managing Director, Karnataka Power Corporation Ltd., Shakti Bhawan, 82, Race Course Road, Bangalore- 560 001

11. Managing Director , Maharashtra State Power Generation Corporation Limited, Plot No. G-9, Prakashgad, Bandra (East), MUMBAI-400 051

12. Managing Director, Madhya Pradesh Power Generation Corporation Ltd., Shakti Bhawan, Vidyut Nagar, Rampur P.O. , Jabalpur- 482 008

13. Managing Director, Odisha Power Generation Corporation Ltd., Zone-[illegible] Fortune Towers, Chandrashekharpur, Bhubaneshwar -751 023 Odisha

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Location: NTPC Limited

14. Chairman & Managing Director, Punjab State Power Corporation Limited, The Mall, Patiala-147 001 Punjab

15. Chairman & Managing Director, Rajasthan Rajya Vidyut Utpadan Nigam Ltd., Vidyut Bhawan, R.C. Dave Marg, Jyoti Nagar, Janpath, Jaipur – 302 005 Rajasthan

16. Chairman & Managing Director, Tamil Nadu Generation and Distribution Corporation Limited, 10th Floor, NPKRR Maaligai, 144, Anna Salai, Chennai- 600 002

17. Chairman & Managing Director, Telangana State Power Generation Corporation Limited, Vidyut Soudha, Khairatabad, Hyderabad – 500082

18. Managing Director, U.P. Rajya Vidyut Utpadan Nigam Ltd., 7th Floor, Shakti Bhawan, 14, Ashok Marg, Lucknow – 226 001

19. Chairman & Managing Director, West Bengal Power Development Corporation Ltd., Bidyut Unnayan Bhaban, Block- LA, Plot No. 3/C, Sector- III, Salt Lake City, Kolkata-700 098 West Bengal

19. Managing Director, Indraprastha Power Generation Co. Ltd., Office of PRO, Himadri, Rajghat Office Complex, New Delhi - 110 001

State Government

1. Chairman & Managing Director, Rural Electrification Corporation, Core- 4, SCOPE Complex, 7, Lodhi Road, New Delhi – 110003.

2. Chairman & Managing Director, Power Finance Corporation Ltd., Urjanidhi, 1,Barakhamba Lane, Connaught Place, NEW DELHI-110 001.

3. Principal Secretary Head (Energy Dept.), Government of Andhra Pradesh Secretariat, Hyderabad- 500 022 Andhra Pradesh

4. Additional Chief Secretary (Power), WPT&BC, Assam Secretariat, (Government of Assam), P.O. Assam Sachivalaya, Block-C, Ground Floor, Dispur - 781 006 Assam

5. Principal Secretary (Energy), Government of Bihar, Irrigation Building, Sinchai Bhawan, 1st Floor, Patna – 800 015 Bihar

6. Principal Secretary (Energy), Government of Chhattisgarh, Room No. 308, DKS Bhawan, Mantralaya, Raipur, Chhattisgarh

7. Chief Secretary (Power), Government of NCT of Delhi, 8th Floor, Players Building, Delhi Secretariat, I.P. Estate, New Delhi – 110 002

8. Principal Secretary (Energy Deptt.), Government of Gujarat, Sachivalaya, Block No. 5, 5th floor, Gandhi Nagar-382 010 Gujarat

9. Financial Commissioner & Principal Secretary (Power), Government of Haryana Room No. 603, 6th floor, New Secretariat Building, Sector-17, Chandigarh - 160 017 Haryana

10. Principal Secretary (Energy) , Government of Jharkhand , Nepal Hous[illegible] Doranda, Ranchi – 834002 Jharkhand

[illegible]

11. Addl. Chief Secy. & Principal Secy. (Energy), Energy Department, Government of Karnataka, Room No. 236, 2nd floor, Vikasa Soudha, Dr. Ambedkar Road, Bangalore - 560 001 Karnataka

12. Secretary (Energy), Government of Madhya Pradesh, Mantralaya, Bhopal- 462 001 Madhya Pradesh

13. Secretary (Energy), Government of Maharashtra, Industries Energy & Labour Deptt., 4th floor, Mantralaya, Room no. 401, Mumbai- 400 032

14. Commissioner-cum- Secretary, Department of Energy, Government of Odisha, Odisha Secretariat, Bhubaneshwar - 751 001 Orissa

15. Secretary (Power), Government of Punjab, Mini Secretariat, Sector- 9, Chandigarh – 160 009 Punjab

16. Secretary (Power), Chief Secretariat, Goubert Avenue, Puducherry – 605 001

17. Secretary (Energy), Government of Rajasthan, Main Building Secretariat, Jaipath, Jaipur- 302 001 Rajasthan

18. Principal Secretary (Energy), Energy Department, Government of Tamil Nadu, Secretariat, Chennai - 600 009 Tamil Nadu

19. Principal Secretary, Energy Department, Government of Telangana, Room No. 528A, 2nd Floor, D- Block, T.S. Secretariat, Hyderabad - 500022 Telangana

20. Principal Secretary (Energy), Government of Uttar Pradesh, Lal Bahadur Shastri Bhawan, Annexe, 5th Floor, Lucknow - 226 004 Uttar Pradesh

21. Principal Secretary (Energy), Department of Power & NCES, Govt. of West Bengal, New Secretariat Building, I.K.S. Roy Road, 7th floor, Block "A", Kolkata-700 001 West Bengal

Power Equipment Manufacturers

1. Chairman & Managing Director, Bharat Heavy Electrical Ltd., BHEL House, Asiad Village, Siri Fort, New Delhi – 110 049

2. General Manager, L&T MH Boilers Private Ltd., 12/4 Delhi Mathura Road, Near Sarai Khwaja Chowk, Faridabad – 121003 Haryana

3. General Manager, L&T – MHI Turbine & Generators Pvt. Ltd., 3rd Floor, Pankaj Building, Chhani Road, Vadodara – 390 024 Gujarat

4. CEO, Alstom Bharat Forge Power Limited, HMP Building, Plot # 7, Sector- 127, NOIDA – 201301 Uttar Pradesh

5. Managing Director, Toshiba JSW Power Systems Private Limited, S. No. 74-95, Vaikkadu Village, Andarkuppam Check Post, Manali New Town, Chennai – 600103 Tamil Nadu

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6. Vice President, Thermax Babcock & Wilcox Energy Solutions Private Limited, Energy House, D-2 Block, Plot No. 38 & 39, MIDC Area, R.D. Aga Road, Chinchawad, Pune – 411019

7. Managing Director, Doosan Power Systems India Pvt. Ltd., 18/2A, Sriperkumpuyam Bye-pass, Poonamallee, Chennai – 600056

IPPs / Generating Companies

1. Vice President, M/s Adani Power Limited, 8 A, Sambhav Building, Judges Bungalow Road, Bodakdev, Ahemdabad – 380 015 (Gujarat)

2. M/s Athena Chhattisgarh Power Pvt. Ltd., 7-1-24, B- Block, 5th Floor, B Block, Roxana Towers, Green Lands, Begumpet, Hyderabad- 500 016 Andhra Pradesh

3. M/s Atlas Power India Pvt. Limited, A-2, II Floor, Regency Splendour Apartments No. 23, Hall Road, Richards Town, Bangalore-560005

4. M/s Amaravati Thermal Power Private Limited, 6-3-1090, TSR Towers, Rajbhavan Road, Somajiguda, Hyderabad- 500082

5. M/s Astaranga Power Company Limited, 1259, Lakshmi Towers, Road No 36, Jubilee Hills, Hyderabad- 500033

6. Aban Power Company Ltd., 3rd Floor, 25 GN Chetty Road, T Nagar, Chennai – 600 017

7. Adhunik Power & Natural Resources Ltd., 208-209, 2nd Floor, Padma Tower-II, 22 Rajendra Place, New Delhi – 110 008

8. Alfa Infraprop Private Limited, 3rd Floor, Rider House, 136, Sector – 44 Gurgaon – 122 002

9. AES (India) Private Limited, 9th Floor, Tower – B, DLF Building No. 10, Cyber City, Phase – II, Gurgaon – 122 002 Haryana

10. BPL Power Projects (AP) Pvt. Limited, H. No. 8-2-293/82/NO 03, Plot No. 5, Road No. 69, Nandagiri Hills, Jubilee Hills, Hyderabad – 500 033

11. BGR Energy Systems Ltd., 443, Anna Salai Teynampet, Chennai – 600 018

12. Coastal Energen Pvt. Ltd., 7th Floor, Rahaal Towers, 4, Mooses Road, Chennai -600 006

13. M/S Corporate Power Ltd., Infinity Tower, EN1, Sector-V, Salt Lake, 3rd Floor, Kolkata 700 091

14. CESC Limited, CESC House, Chowringhee Square, Kolkata- 700 001

15. CLP Power India Private Limited, 15th Floor, Oberoi Commerce, International Business Park, Oberoi Garden City, Goregaon (E), Mumbai – 400 063

16. Coastal Gujarat Power Limited (A Tata Power Company), Tunda Vandh Road, Tunda Village, Mundra, Kutch – 370 421

17. DHARIWAL Infrastructure (P) Ltd., CF-366, Salt Lake City, Sector-1, Kolkata

18. Himanshu Bawar, Sr. Vice President, D.B. Power Ltd., G-3A / 4-6, Kanakawala Chambers, New Udyog Mandir – 2, Mogul Lane, Mahim (W), Mumbai- 400 016

19. M/s East Coast Energy Pvt. Limited, 7-1-24, B Block, 5th Floor Roopa Towers, Greenland, Begumpet, Hyderabad 550 016 Andhra Pradesh

20. Essar Power Limited, Essar House, Prakash Deep, 10th Floor, 7 Tolstoy Marg, New Delhi – 110 001

21. Executive Vice President (Power Projects), GMR Energy Limited, IBC Knowledge Park, Phase 2, D- Block, 9th Floor, 4/1, Bannerghatta Road, Bangalore- 560 029

22. GVK Power & Infrastructure Limited, Falgah House, 156-159, Sardar Patel Road, Secunderabad – 500 003 Andhra Pradesh

23. M/s India Bulls Realtech Limited, "Indiabulls House", 448-451, Udyog Vihar, Phase-V, Gurgaon-122001

24. M/s Ind-Barath Power (Utkal) Limited, Plot No 30-A, Road No 1, Film Nagar, Jubilee Hills, Hyderabad- 500 033

25. M/s. Ideal Energy Projects Ltd., 122, Telecom nagar, Pratap Nagar, Nagpur – 410022.

26. Director, Jindal Power Limited, Jindal Centre, 12, Bhikaji Cama Place, New Delhi-110066

27. M/s Jindal India Thermal Power Limited, Plot No 12, Local Shopping Complex, Sector B-1, Vasant Kunj, New Delhi- 110 070

28. Sr. Vice President, M/s JSW Energy Limited, Jindal Mansion, 5A, Dr. G. Deshmukh Marg, Mumbai- 400026

29. M/S Jhabua power Ltd., 6th-7th Floor, Vatika Point, M.G.Road Phase II, Opposite First India Palace, Sector- 53, Gurgaon – 122 002

30. Avantha Power & Infrastructure Limited, 6th & 7th Floor, Vatika City Point, M.G. Road, Gurgaon – 122002

31. M/s Krishnapatnam Power Corporation Limited, Plot No 322, Road No 25, Jubilee Hill, Hyderabad-500033

32. M/s KVK Energy & Infrastructure (P) Limited, 6-3-1109/A/1, 3rd Floor, Navabharath Chambers, Somajiguda, Raj Bhavan Road, Hyderabad-500082

33. M/s Kineta Power Private Limited, Uma Enclave, 5th Floor, Road No. 9, Banjara Hills, Hyderabad-500 034

34. Head of SBU & CEO, Lanco Infratech Limited, Plot No 397, Udyog Vihar, Phase-III, Gurgaon-122 016 Haryana

35. Vice President (Technical), Lanco Anpara Power Limited, Plot No 397, Udyog Vihar, Phase-III, Gurgaon-122 016 Haryana

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36. General Manager, Fuel Sourcing Group (E&C Power), Larsen & Toubro Limited, G-4, 2nd Floor, Gate No.1, Powai Campus, Saki-Vihar Road, Mumbai- 400072

37. M/S Lanco Amarkantak power Ltd., Plot No. 397, Phase-III, Udyog Vihar, Gurgaon-122016, Haryana

38. M/s Maithon Power Limited, (JV of Tata Power & DVC), C- 43, Sector-62, Noida 201 307 (UP)

39. M/s Moser Baer Power & Infrastructure Limited, 43 B, Okhala Industrial Estate, New Delhi- 110020

40. Meenakshi Energy Private Limited, Meekashi House, 8-2-418, Road No. 7, Banjara Hills, Hyderabad – 500 034

41. M/s NSL Power Limited, NSL ICON, Door No. 8-2-684/2/A, Plot Nos. No 4, 4th Floor Road No. 12, Banjara Hills, Hyderabad-500034

42. M/s Reliable Thermal Power limited, C-10E, Ground Floor, East of Kailash, New Delhi-110065

43. Shri J. P. Chalsani, Chief Executive Director, Reliance Power Limited, Reliance Energy Centre, Santa Cruz East, Mumbai-400 055

44. R.K.M. POWERGEN PVT LTD, 2nd & 3rd Floor, 14 Dr. Giri Appa Road, T. Nagar, Chennai-600017

45. M/s Sahara India Power Corporation Limited, Sahara India Centre, 5th Floor, 2, Kapoorthala Complex, Aliganj, Lucknow-226024

46. M/s Shesadri Power & Infrastructure (P) Ltd., Surya Towers, 6th Floor, 105, Sardar Patel Road, Secunderabad-500003

47. M/s SJK Powergen Limited, 501, Waves Apartments, 4th Floor, Opp. R.K. Beach, Adjacent to SAIL Office, Visakhapatnam- 530 003

48. M/s SKS Ispat and Power Limited, 501 B, Elegant Business Park, Andheri Kurla Road, J.B. Nagar, Andheri (E), Mumbai-400 059

49. M/s SLS Energy Private Limited, 1441, "Vajra", 1st Floor, 28th Main, Southend "A" Cross Jayanagar, 9th Block (East), Bangalore-560069

50. M/s Sophia Power Company Ltd., Indiabulls House, 448-451, Udyog Vihar, Phase-V, Gurgaon-122001

51. Chief Operating Officer, Spectrum Power Generation Limited, Plot No 231, 8-2-293/82/A/231, 3rd Floor, Road No. 36, Jubilee Hills, Hyderabad-500 033

52. M/s SRM Energy Private Limited, 43, Free Press House,215, Nariman Point, Mumbai-400021

53. M/s Sterlite Energy Pvt. Ltd., 1st Floor, City Mart Commercial Complex, [illegible] Bhubaneswar-751003

54. M/s. Simhapuri Energy pvt. Ltd., Madhucon, Greenland, 6-3-866/2, 3rd Floor, Begumpet, Hyderabd-500016

55. Managing Director, Tata Power Company Limited, 24, Homi Mody Street, Mumbai-400 001

56. Shri K. Chandrasheekar, Director (Projects), Tata Power Company Limited, Dharavi Receiving Station, Matunga, Mumbai-400 019

57. M/s Torrent Power Limited, Torrent House, Off Ashram Road, Ahemdabad-380009

58. DG/EN Mega Power Project, Torrent Energy Limited, Plot No. 7-9, Dahej SEZ Area (Eastern Side), Taluka Vagra, Distt. Bharuch – 392130 Gujarat

59. M/s VIDEOCON Industries Limited, VIDEOCON Towers, 12th Floor, E-1, Jhandewalan Extn., New Delhi-110055

60. VANDANA VIDYUT Ltd., Vandana Bhawan, MG Road, Raipur – 492 001, Chhattisgarh

61. Wardha Power Company Private Limited, Sony Apartment, 2nd Floor, 19, REbella Road, Bandra West, Mumbai – 400 050

62. CEO, Jubbuvish Power Generation PVL Limited, 155- A, Mittal Tower, Nariman Point, Mumbai- 400 021

63. Managing Director, Godawari Power and Ispat Ltd., Plot No. 428/2, Phase I, Industrial Area, Distt. Raipur, Siltara – 493111 Chhattisgarh

64. Managing Director, Godawari Power and Ispat Ltd., Hira Arcade, 1st Floor, New Bus Stand, Pandri, Raipur – 492001 Chhattisgarh

POLICY OF MINISTRY OF POWER

FOR

BIOMASS UTILIZATION FOR POWER GENERATION

THROUGH CO- FIRING IN PULVERIZED COAL

FIRED BOILERS

Biomass Utilisation for Power Generation through Co-firing in Coal Based Power Plants

1. Introduction

Stubble burning has been cited as a major cause of recent smog in north-west India. Stubble burning is deliberate setting fire of the straw stubble that remains after harvesting of paddy and other crops. During the months of October and November of each year, farmers in north-west India burn an estimated 30-40 million tonnes of crop waste from their paddy fields after harvesting. The primary reasons for stubble burning are; (a) reduce the cost of clearing the field for next crop, (b) reduce the turnaround time between harvesting and sowing for next (winter) crop and (c) lack of other alternatives, viz. availability of appropriate agricultural implements, viz., implements to take out the stubble and "Happy Seeders" for zero tilling sowing etc.

1.1. Various options for safely disposing such bio-mass are (i) setting up power plants exclusively based on bio-mass, (ii) co-firing of pellets made out of bio-mass in the coal based thermal plants, (iii) *in-situ* in-corporation of bio-mass into the soil using appropriate agricultural implements or composting and (iv) manufacturing of various products such as Ethanol, Bio CNG and Board etc.

2. Biomass co-firing in coal based power plants

The estimated 30-40 million metric tonnes of paddy straw that remains un-utilised and burnt in north-west India has potential to generate about 6000-9000 MW and 45000 million units of electricity annually, by co-firing it along with coal in existing coal fired power plants. Biomass co-firing has a potential to create a market for large scale consumption of agro residue and convert it into electricity in eco-friendly and cost effective manner while mitigating problem of air quality deterioration. Market mechanism for agro residue utilisation will also enable additional income to farmers.

2.1 The existing power plant infrastructure cannot directly use raw agro residue bio-mass in a pulverised coal fired type boiler and it is required to be processed into dense bio-mass in the form of pellets. The densification of biomass in the form of pellets also reduces its transportation cost, which is a major component in overall fuel price. Promoting agro-residue processing capacity into pellets for power sector shall also create employment opportunities and develop entrepreneurship.

2.2 Biomass co-firing is a well proven technology. With increasing environmental awareness, power plants all over the world has adopted, biomass co-firing as a strategy to combat pollution. According to open source data, 230 plants across globe, majority located in European and American countries, have experience of biomass co-firing. UNFCC recognizes biomass co-firing as a carbon neutral technology for mitigation of carbon emission from coal based power plants.

3. Status of Biomass co-firing in India

NTPC has successfully demonstrated the co-firing of 7% blend of biomass pellets with coal in its Dadri power plant. This can be replicated in other coal fired power plants too. The blend of coal and pellets can safely be pulverized in power plants having bowl mills/vertical roller mills/beater mills. However, this method is not suitable for power plant having ball and tube type of mills due to higher risk of fire hazard. Approximately, 2.5 to 3.0 lakh tonnes of Biomass pellets are required for 7% blending in a thermal power plant of 1000MW capacity.

4. Benefits of using biomass pellets co-firing in Coal based power plants

a) Eliminate/minimize burning of agro-residue and create economic value of agro residue by promoting its use as fuel in power plants in co-firing mode.
b) Improve the air quality index while creating additional income for farmers.
c) Encourage the establishment of decentralised pellets manufacturing units and generate employment opportunities.

5. <u>Biomass Utilisation for Power Generation through Co-firing in Coal based power plants.</u>

Therefore, in order to promote use of the bio-mass pellets, all the Power plants/Utilities are hereby advised as follows:

a) All fluidised bed and pulverised coal units(coal based thermal power plants) except those having ball and tube mill, of power generation utilities, public or private, located in India, shall endeavour to use 5-10% blend of biomass pellets made, primarily, of agro residue along with coal after assessing the technical feasibility, viz. safety aspects etc.
b) CEA shall develop/issue Specifications for the pellets. CEA will also provide technical assistance/advise to Utilities on how to use bio-mass pellets for blending with coal in coal based thermal power plants.
c) The Appropriate Commission will determine the compensation (for plants other than those whose Tariff has been already determined under section 62 of Electricity Act) to be allowed in tariff for increase in cost of generation on account of using bio-mass pellets, viz., cost of pellets, increase in auxiliary power consumption (APC) and plant heat rate (HR) etc. Increase in cost of generation will not be taken into account for the purpose of merit order for despatch of electricity. The Appropriate Commission shall devise a suitable mechanism to ensure the use of biomass as per (a) above.

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Annexure-10-A/17

कमाडेन्ट का कार्यालय
केंद्रीय औद्योगिक सुरक्षा बल
(गृह मंत्रालय)

केंसौसुब इकाई एनटीपीसी दादरी
जिला– गौतमबुद्धनगर (उ0प्र0)

No. I-42099/CISF/FW/NTPC (D)/2024- 532 दिनांक: 18-09-2024

सेवा में,

अपर महाप्रबन्धक (ऑफसाईट / ऑटोबेस)
एनटीपीसी दादरी (उ0प्र0)

विषयः–FIRE TENDER रजि0 नं0 UP-16H-9169(FOAM TENDER) AND UGU-8238 WATER TENDER को अनुपयोगी घोषित कर जमा करने के संबंध में।

कृपया अवगत कराया जाता है कि केंसौसुब इकाई एनटीपीसी दादरी की अग्निशमन शाखा को एनटीपीसी प्रबंधन द्वारा 06 फायर टेण्डर चारों किये गये थे, जिनमें से 02 नग FIRE TENDER रजि0 नं0 UP-16H-9169(FOAM TENDER) AND UGU-8238 WATER TENDER जो कि अनुपयोगी (CONDEMNED) घोषित हो चुके हैं, और जिसके बदले में 02 नग नये फायर टेण्डर 29/05/2019 को केंसौसुब इकाई एनटीपीसी दादरी की अग्निशमन शाखा को उपलब्ध करा दिये गये हैं।

02 वर्तमान में दोनों फायर टेण्डरों रजि0 नं0 UP-16H-9169(FOAM TENDER) AND UGU-8238 WATER TENDER को अनुपयोगी (CONDEMNED) होने के पश्चात एनटीपीसी के ऑटो बेस में दिनांक 07/12/2019 को जमा कर दिये गये हैं।

सहायक कमाण्डेंट
के.औ.सु.ब. इकाई एनटीपीसी दादरी
Asst. Commandant CISF
केंसौसुब इकाई एनटीपीसी दादरी (उ.प्र.)
CISF Unit NTPC Dadri (U.P.)

प्रति:

01. The Commandant/CISF
CISF Unit NTPC Dadri

For kind information Please.

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Annexure-10-A/18

Raj Pal
आर्थिक सलाहकार
Economic Adviser
Tel. No.:011-23715595
E-mail : raj.pal@nic.in

भारत सरकार
GOVERNMENT OF INDIA
विद्युत मंत्रालय
MINISTRY OF POWER
श्रम शक्ति भवन, नई दिल्ली
SHRAM SHAKTI BHAVAN, NEW DELHI

नई दिल्ली 110001
NEW DELHI - 110001

DO NO.5/23/2014-EC

Dated :-2nd August, 2017

Dear Sh Singh

As you may be aware, lighting accounts for more than 20% of total electricity consumption in India. Use of LED lights in domestic and public lightings could result in 30-80% reduction in energy consumption by lighting. It was with this objective that the Hon'ble Prime Minister, on 5th January, 2015 launched the National LED Programme to facilitate rapid adoption of LED based home lighting and street lighting across the Country. This programme, consisting of Unnat Jyoti by Affordable LEDs for All (UJALA) and Street Lightings National Programme (SLNP), is being implemented by EESL, a joint venture company of four Power Sector PSUs.

2. The issue relating to use of LED lights was also deliberated in the infrastructure review meeting held by Hon'ble Prime Minister on 17th September, 2015, wherein it was recommended to issue orders for mandating use of LED lights in all lighting projects funded by the Government.

3. Subsequently, in the review meeting held by Hon'ble Prime Minister on 21st July, 2017, it was inter-alia recommended to replace old bulbs with LED bulbs and that the full replacement should be achieved by 15th August, 2017 in government buildings.

4. In view of the above, you are requested to take necessary action to ensure that all old bulbs are replaced with LED bulbs by 15th August, 2017 in all the buildings (including compound/street lightings) occupied by your organisation.

5. It will be appreciated if action taken in this regard is reported to this Ministry on priority basis.

With regards,

Yours sincerely,

(Raj Pal)

Shri Gurdeep Singh,
CMD,NTPC,
Scope Complex,
Lodhi Road, New Delhi.

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Re

MOST IMMEDIATE

No. 9/23/2014-EC
Government of India
Ministry of Power
******

'F' Wing, 3rd Floor, Nirman Bhavan
New Delhi – 110 011
Date: 17.08.2017

To

CMD,
NTPC,
Scope Complex,
Lodhi Road,New Delhi

Subject: Mandatory Installation of LED based lighting in all Government Buildings -reg.

Sir,

This has reference to Economic Adviser, Ministry of Power's D.O. letter of even no. dated 2nd August,2017 (copy enclosed) requesting you to take necessary action to ensure that all old bulbs are replaced with LED bulbs by 15th August, 2017 in all Buildings (including compound/ street lightings) occupied by your organization. The action taken by your organization in this regard may kindly be furnished to the Ministry urgently, latest by 23rd August, 2017, in the following format:-

Name of the PSU/ Organization	State-wise building owned/ occupied	Status of installation of LED lamps/ lights

Yours faithfully,

Encl. As above

(Meera Shekhar)
Deputy Secretary to the Govt. of India
[Tele-fax :23063497]

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Annexure-10-A/19

CENTRAL ELECTRICITY AUTHORITY

NOTIFICATION

New Delhi, the 24th January, 2010

F.No.CEA/TETD/MP/R10/2011.—In exercise of the powers conferred by section 177 read with clause (c) of section 73 of the Electricity Act, 2003 (36 of 2003), the Central Electricity Authority hereby makes the following regulations, namely:-

1. Short title and commencement.- (1) These regulations may be called the Central Electricity Authority (Safety Requirements for Construction, Operation and Maintenance of Electrical Plants and Electric Lines) Regulations, 2011.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. Definitions.- (1) In these regulations, unless the context otherwise requires,-

(a) "Act" means the Electricity Act, 2003;

(b) "contractor" means a person or an agency who undertakes to produce a given result, not merely supply of goods or articles of manufacture but including civil works or erection of equipment or testing and commissioning of equipment or operation and maintenance of equipment and includes a sub-contractor;

(c) "Owner" means a company or body corporate or association or body of individuals, whether incorporated or not, or artificial juridical person, which owns or operates or maintains electrical plants or electric lines and includes,-

(i) "Occupier" as defined in the Factories Act, 1948 (63 of 1948);

(ii) "Employer" as defined in the Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996 (27 of 1996).

(2) Words and expressions used herein and not defined but defined in the Act shall have the meanings respectively assigned to them in the Act.

3. Regulations not in derogation of any other law.- The provisions of these regulations shall be in addition to and not in derogation of the provisions of any other law for the time being in force.

4. Safety provisions relating to Owner.- (1) The Owner shall make safety an integral part of work processes to ensure safety for employees including employees of contractor, sub-contractor as well as visitors.

(2) The Owner shall obtain accreditation of electric plants and electric lines with IS-18001 certification.

(3) The Owner shall obtain above mentioned certification for all the existing electrical plants and electric lines and those under construction within two years from the date of coming into force of these regulations and for new installations within two years from the date of commencement of construction.

(4) The Owner shall set up a sound and scientific safety management system which shall include,-

(a) formulation of a written statement of policy in respect of safety and health of employees;

(b) defining and documenting responsibilities for all levels of functionaries to carry out safety related activities including responsibilities of the contractors;

(c) preparing detailed safety manual complying with the statutory requirements and manufacturers' recommendations;

(d) establishing procedures to identify hazards that could give rise to the potential of injury, health impairment or death and measures to control impact of such hazards;

(e) providing adequate human, physical and financial resources to implement the safety management system;

(f) providing safe working environment and evolving framework for occupational safety and health;

(g) providing and maintaining medical facilities;

(h) providing adequate training to all employees to keep them aware of safety related issues;

(i) establishing system for accident reporting, analysis, investigation and implementation of recommendations;

(j) establishing system for proper communication, documentation and record management in relation to occupational safety and health;

(k) formulating emergency management plan for quickly and effectively dealing with probable emergencies that may arise on site as well as off- site;

(l) establishing methodology for internal and external audit of safety management system;

(m) establishing system for periodic monitoring and review of the safety system by the management;

(n) overseeing the safety performance of contractors.

5. Safety manual.- Safety manual referred to in clause (c) of sub-regulation (4) of regulation 4 shall be site specific but for similar installations, common safety manual may be prepared and made applicable to such installations and these safety manuals shall cover the matters identified in Schedule-I and Schedule-II annexed to these regulations.

6. Safety officer and safety committee.- (1) (a) The Owner shall appoint one qualified safety officer where the number of employees, including contract workers, exceeds five hundred and where the number of employees is less than five hundred, a suitable officer shall be designated as safety officer:

Provided that where number of employees exceeds one thousand, one more safety officer shall be appointed for every additional one thousand employees.

(b) A person shall not be eligible for appointment as a safety officer unless he is qualified,-

Annexure-10-A/20

(9) लिफ्ट और हॉइस्ट -

लिफ्ट और हॉइस्ट का परीक्षण प्रत्येक वर्ष में सक्षम एजेंसी द्वारा किया जाएगा।

13. विद्युत और नियंत्रण और उपकरण प्रणाली और संबद्ध उप-प्रणाली -

(क) प्रत्येक पाली में नियमित रखरखाव कार्यक्रम के तहत विद्युत पैनल का रिले या इलेक्ट्रॉनिक का लाइट का रखरखाव और निरीक्षण किया जाएगा।

(ख) विद्युत पैनल कमरे अलग किए जाएंगे। साथ ही, एयर हैंडलिंग यूनिट कक्ष को लेन सुविधाओं से अलग किया जाएगा। एयर कंडीशनर के लिए, जिसमें सर्कुलेशन सम्मिलित है, किसी भी जल की स्थिति में धुएं के संचालन को रोकने के लिए स्वचालित रूप से बंद होने वाला डैम्पर प्रदान किया जाएगा।"

राकेश गोयल सचिव

[विज्ञापन-III/4/असा./406/2022-23]

टिप्पणी: मूल विनियम भारत के राजपत्र, असाधारण, भाग III, खंड 4 में अधिसूचना सं. फाइल सं. सीईए/टीईटीडी/एमपी/श्रम02/2011 तारीख 14 फरवरी, 2011 के अधीन प्रकाशित किए गए थे।

CENTRAL ELECTRICITY AUTHORITY

NOTIFICATION

New Delhi, the 15th November, 2022

No. CEA-TH-17-17/5/2021-TETD Division.—Whereas the public notices advertising the proposal to amend the Central Electricity Authority (Safety Requirements for Construction, Operation and Maintenance of Electrical Plants and Electric Lines) Regulations, 2011 were published in six newspaper dailies, as required by sub-section (3) of section 177 of the Electricity Act, 2003 (36 of 2003) inviting objections and suggestions from all persons likely to be affected thereby, within forty seven days from the date on which the copies of the newspaper containing the said publications were made available to the public;

And whereas copies of the said newspaper containing the public notices for the proposal the said draft regulations were made available to the public on 10th December, 2021;

And whereas the objections and suggestions received from the public on the said draft regulations were considered by the Central Electricity Authority;

Now, therefore, in exercise of the powers conferred by clause (r) of section 73 read with sub-section (1) of section 177 of the Electricity Act, 2003, the Central Electricity Authority hereby makes the following regulations further to amend the Central Electricity Authority (Safety Requirements for Construction, Operation and Maintenance of Electrical Plants and Electric Lines) Regulations, 2011, namely:—

1. (1) These Regulations may be called the Central Electricity Authority (Safety Requirements for Construction, Operation and Maintenance of Electrical Plants and Electric Lines) (Amendment) Regulations, 2022.

   (2) They shall come into force on the date of their publication in the Official Gazette.

2. In the Central Electricity Authority (Safety Requirements for Construction, Operation and Maintenance of Electrical Plants and Electric Lines) Regulations, 2011 (hereinafter referred to as the said regulations), for regulation 3, the following regulation shall be substituted, namely:—

   "3. **Applicability**.—These Regulations shall be applicable to generating companies, transmission licensees, distribution licensees, Central Transmission Utility, State Transmission Utilities or any person."

3. In regulation 4 of the said regulations —(i) in sub-regulation (2), the following shall be substituted, namely:—

   "(2) The Owner shall obtain accreditation of electric plants with IS-18001 certification."

   (ii) In sub-regulation (4), - (a) for clause (a), the following clause shall be substituted, namely:—

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Safety promotional activities such as Signages and posters awards for safety shall be done once in a year.

(D) **Safety Metrics and Incident Control Measures.—**

Special safety measures shall be taken to check or avoid vulnerable accidents viz. fall from height, confined space entry, fall of materials, lack of supervision or knowledge, Bottom ash area.

(E) **Hazard Identification and Control.—**

Hazard Identification Study shall be done for identifying hazards in order to prevent and reduce any adverse impact that could cause injury to personnel, damage or loss of property, environment and production, or become a liability.

3. **Boilers Act, 1923.—**

The provisions of Boilers Act, 1923 (as amended from time to time) shall be complied with including the inspection and certification of the boiler by the Boiler Inspector.

4. **Compliance with respect to Environmental Provisions or regulations.—**

Adequate Environment Protection measures especially for waste water, chemicals and dust suppression system shall be provided in line with Air and water Act and provisions of appropriate Pollution Control Board.

5. **Maintenance Safety Management System.—**

Periodic health check up of workers shall be done as per hazardous industries.

6. **Internal Safety Audit.—**

Regular Internal Safety Audits shall be carried out by the owner of the plant.

7. **External Safety Audit.—**

Safety checks or audits of generating stations shall be periodically carried out as per the regulation 42 above.

8. **ISO 45001: Safety Audit.—**

Plant shall be audited and certified as per ISO 45001 at least once in a year.

9. **Fire Detection, Protection and Maintenance System.—**

(a) Minimum two numbers Electric with two numbers jockey pumps (one working plus one standby) shall be installed.

(b) Fire hydrant pumps shall be tested weekly and fire hydrant jockey pumps shall be tested daily in each shift.

(c) Fire tenders shall be inspected daily in each shift and adequate manpower for each shift shall be employed.

(d)All external fire detection shall be checked quarterly and all heat and smoke detectors annually tested.

10. **Safety Aspects of Boiler.—**

(A) **General or Statutory Requirement.—**

Boiler shall be externally inspected every time after annual maintenance or during boiler test.

(B) **Superheaters and Reheaters.—**

(a) Superheaters and Reheaters tubes shall be inspected once a year during annual overhaul.

(b) Safety valves shall be tested once a year during annual overhaul.

(C) **Economiser.—**

Economiser tubes shall be inspected once a year during annual overhaul.

(D) **Drum or Separator and Steam Readers.—**

(i) Drum instrumentations shall be calibrated once in year.

(ii) Drum internals shall be inspected once in a year.

(E) **Air Preheaters and Steam Coil Air Preheaters.—**

(i) Air Preheater water washing shall be done once in a week.

(ii) Air Preheater instrumentations shall be calibrated once in a year.

(F) **Steam Generator Integral Piping, Valves, Fittings and Mountings.—**

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Annexure-10-B/1

U.P. Pollution Control Board

CONSENT ORDER

Ref No. -
63350/UPPCB/Noida(UPPCBRO)/CTO/water/NOIDA/2019

Dated : 12/03/2020

To ,

Shri APURBA KUMAR DAS
M/s NTPC LTD DADRI
NTPC Dadri, Vidyut Nagar, Gautam Budh Nagar,GAUTAM BUDH NAGAR,201008
NOIDA

Sub : Consent under Section 25/26 of The Water (Prevention and control of Pollution) Act, 1974 (as amended) for discharge of effluent to M/s. NTPC LTD DADRI

Reference Application No :5727240 **Dated :12/03/2020**

1. For disposal of effluent into water body or drain or land under The Water (Prevention and control of Pollution) Act,1974 as amended (here in after referred as the act) M/s. NTPC LTD DADRI is hereby authorized by the board for discharge of their industrial effluent generated through ETP for Irrigation/river through drain and disposal of domestic effluent through septic tank/soak pit subject to general and special conditions mentioned in the annexure ,in refrence to their foresaid application .
2. This consent is valid for the period from 01/01/2020 to 31/12/2021 .
3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 27(2) of the Water (Prevention and Control of Pollution) Act, 1974 as amended .

This consent is being issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board

Chief Environmental Officer (circle-1)

Enclosed : As above
(condition of consent):

Copy to: Regional Officer, U.P. Pollution Control Board, Gautambudh Nagar with direction to send the compliance report of consent conditions on quarterly basis.

Chief Environmental Officer (circle-1)

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5. Effluent generated in all the processes, bleed water, cooling effluent and the effluent generated from washing of floor and equipments etc should be treated before its disposal with treated industrial effluent so that it should be according to the norms prescribed under The Environment (Protection) Act,1986 or otherwise mandatory .

6. The other pollutant for which norms have not been prescribed, the same should not be more than the norms prescribed for the water used in manufacturing process of the industry .

7. The method for collecting industrial and domestic effluent and its analysis should be as per legal Indian standards and its subsequent amendments/standards prescribed under The Environment (Protection) Act, 1986.

8. The treated domestic and industrial effluent be mixed (as per the provisions of Condition No. 2) and disposed of on one disposal point. This common effluent disposal point should have arrangement for flow meter/V Notch for measuring effluent and its log book be maintained .

Specific Conditions:

1. This consent is valid for power generation -210x4 MW (coal based State-1), 490x2 MW (coal based State-2), 829 MW (Gas based), 05 MW (Solar based).
2. The industry shall install Electro Magnetic Flow meter at water supply line, inlet and outlet of STP and ETP and logbook of flow meters reading shall be maintained.
3. The industry shall operate and maintain Online Continuous Effluent Quality Monitoring System effectively and data shall be transmitted to CPCB server. OCEQMS system shall be calibrated through recognized agency and calibration certificate should be submitted to UPPCB.
4. The industry shall comply with the conditions of Environmental Clearance issued by MoEF&CC Govt of India.
5. Industry shall comply with the Fly Ash notification no. S.O. 254(E) dated 25-01-2016 of MoEF&CC, Govt. of India and detail of Fly ash disposal shall be submitted on quarterly basis to UPPCB.
6. Industry shall treat DM plant, Back Wash, Cooling Tower Blowdown effluent etc. through ETP of capacity 400 Cubic meter/hour and shall recycle treated effluent in the process, sprinkling in coal handling plant for dust suppression & greenery etc as much as possible and rest treated effluent shall be discharged as per norms.
7. Domestic effluent shall be treated though STPs of capacity 3.8 MLD in such a manner to meet the discharge standard as prescribed under EP Rules 1986 and treated water shall be reused for cooling and irrigation purposes as much as possible and rest shall be discharged through closed pipe line into Hasanpur Drain.
8. Industry shall install PTZ camera at ETP, STP, and re-circulation points for surveillance of effective operation within 01 month and shall provide the URL and password to the Board.
9. Ground water shall be monitored on quarterly basis nearby ash dikes and analysis report with respect to heavy metals shall be sent to UPPCB.
10. Storm Water drain shall be kept separate in such manner that, industrial effluent does not get mixed with storm water.
11. Industry shall develop and maintain green belt as per the guidelines issued by the Board vide office order dated 16/02/2018, which is available on Board's Website- www.uppcb.com.
12. Industry shall comply with various provisions of Hazardous and Other waste (Management & Trans-boundary Movement) Rule 2016. Detail of hazardous waste disposal shall be submitted in Form-10.
13. Consent fees if revised, shall be payable by industry from the date of its applicability.
14. Industry shall submit environmental statement in prescribed format as per rule 14 of Environment (Protection) Act, 1986.
15. Industry shall abide by directions given by Hon'ble Courts, MoEF&CC, Central Pollution Control Board and UPPCB for protection and safe guard of environment from time to time.
16. Industry shall comply with the relevant provisions of Environmental Laws.
17. If closure order is issued by CPCB or UPPCB against the unit, then CTO issued earlier will remain suspended during the closure period and after ensuring the compliance and after revocation of closure order, the CTO will automatically be effective with additional conditions mentioned in the closure revocation order.

Issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board .

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Annexure-10-D/1

Government of India
Ministry of Power
Central Electricity Authority

Operating Procedure and Training Curriculum at 55% Minimum Technical Load of Thermal Generating Units

March 2023

Sewa Bhawan , Sector 1 , R K Puram , New Delhi -110066

Central Electricity Authority

Thermal Project Renovation and Modernization Division

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घनश्याम प्रसाद
अध्यक्ष तथा पदेन सचिव भारत सरकार
GHANSHYAM PRASAD
Chairperson & Ex-officio Secretary
To the Government Of India

केन्द्रीय विद्युत प्राधिकरण
भारत सरकार
विद्युत मंत्रालय
सेवा भवन, आर.के. पुरम
नई दिल्ली-110066
Central Electricity Authority
Ministry of Power
Sewa Bhawan, R. K. Puram
New Delhi-110066

FOREWORD

Availability of flexible power is essential for integration of increasingly renewables into the grid to achieve the goal of energy transition. Flexible operation of coal fired units are one of the cheapest source of flexible power presently in the country. Hence, it will be crucial to operate the existing thermal units in the new operating regime for integrating the renewables in the grid.

TPRM Division, CEA has brought out a comprehensive report on Standard Operating Procedure at 55% Technical Minimum Load of Thermal Generating Units. The report has highlighted prerequisites for reducing minimum stable load, operational issues of Ball and Tube mill based units and Long Term Concerns/Measures of low (55%) load operation. This document has listed in details the various standard operating procedure for the operation of coal fired power plants at 55% load. Training of Operators is another important aspects of low load operation which has also been discussed in the report. The committee with members from various organizations have put in their valuable efforts and time to bring out a comprehensive document covering important topics.

I would like to express my sincere appreciation to the chairman of the committee, Sh. B.C.Mallick, Chief Engineer and all committee members for bringing out the report which shall be useful in achieving country wide operation of thermal units at 55% minimum load.

(Ghanshyam Prasad)

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दूरभाष / Telephone : 011-26732301, 26732222, ईमेल / Email : chairpersonceaa@nic.in, वेबसाईट / Website : www.cea.nic.in

दूरभाष / TELEPHONE / TELEFAX 011-26732001

PRAVEEN GUPTA

सदस्य (तापीय)
केन्द्रीय विद्युत प्राधिकरण
सेवा भवन, रामकृष्ण पुरम

MEMBER (THERMAL)
& EX-OFFICIO ADDL. SECRETARY TO THE GOVERNMENT OF INDIA
CENTRAL ELECTRICITY AUTHORITY
SEWA BHAWAN, R.K. PURAM

नई दिल्ली - 110066
NEW DELHI-110066

PREFACE

Presently more than 70% of energy demand is being met from thermal generation. Flexible operation of coal-fired power plants is required to maximize absorption of generation from renewable energy sources into the grid. In this regard, CEA has recently notified a regulation on "Flexible Operation of Coal based Thermal Power Generating Units".

To facilitate power generating utilities, Central Electricity Authority has prepared Standard Operating Procedure manual for attaining / operating coal-based power plants at 55% technical minimum load including a training curriculum for technical personnel. A committee under chairmanship of Chief Engineer, TPRM Division, was constituted under the aegis of CEA with members from NTPC, DVC, BHEL, SIEMENS, L&T, STEAG, TATA Power, NPTI and CPRI for preparation of the Standard operating procedure (SOP) and training curriculum for power plants operation. The report also discusses the perspectives for reducing minimum operating stable load and also suggested close monitoring of unit operational parameters like combustion, flame stability, turbine casing top bottom differential temperature etc.

I would like to appreciate the efforts of team of officers under able guidance of Shri B.C. Mallick for timely preparing the SOPs and training curriculum. I am confident that the document shall help the utilities to prepare themselves for 55% load operation and impart required training to the operating personnel for safe 55% load operation.

(Praveen Gupta)

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Bikash Chandra Mallick
Chief Engineer

भारत सरकार
GOVERNMENT OF INDIA
केन्द्रीय विद्युत प्राधिकरण
CENTRAL ELECTRICITY AUTHORITY
विद्युत मंत्रालय
MINISTRY OF POWER
सेवा भवन, रामकृष्ण पुरम
SEWA BHAWAN, RAMAKRISHNA PURAM
नई दिल्ली-110066, भारत
NEW DELHI-110066, India

ACKNOWLEDGEMENT

The flexible power can be made available from various resources like Hydro Power Plants, Pump Storage System, Gas Power Plants, Coal based Power Plant and Battery Storage System. Our first preference should be to utilize cheapest flexible power available in the system like Hydro Power Plants and Pump Storage System. Coal based plants have the capability to operate at lower loads, provide more than one percent ramp rate and it has also been found to be cheaper flexible resource.

Many coal fired generating units have been operating at 55% load as and when need arises in the grid. However, many other units are yet to achieve this operating milestone to support the grid. Reasons cited are the concerns regarding safety, security, availability and lack of support from original equipment suppliers. To tackle the issue, a committee was constituted by CEA to prepare a **Standard Operating Procedures (SOPs)** for operating coal fired generating unit at 55% load. A comprehensive SOP has been prepared which includes prerequisites of Boilers and Turbine parameters. Also discussed various issues which may be faced by generating utilities in long term. A training curriculum for developing thermal power plant personnel is also included in the report for safe and efficient plant operation at 55% load. The SOPs prepared shall help coal based generating utilities in understanding the issues/ the up gradations required in the plants, if any and in the skills of the operators.

I express my sincere thanks to all the committee members from NTPC, DVC, MAHAGENCO, TANGEDCO, BHEL, Tata Power, L&T, Siemens, STUAG, NPTI, CPRI for their active participation during deliberations and providing valuable inputs. I am thankful to Chairperson, CEA and Member (Thermal), CEA for valuable guidance. Finally, I appreciate the efforts of TPRM Division and their support in bringing out the SOP.

(B.C.Mallick)
Chief Engineer and
Chairman of the Committee

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ABBREVIATIONS

MOP	Ministry of Power
CEA	Central Electricity Authority
NTPC	National Thermal Power Corporation
DVC	Damodar Valley Corporation
BHEL	Bharat Heavy Electricals Limited
L&T	Larson & Toubro
CPRI	Central Power Research Institute
NPTI	National Power Training Institute
NDC	Nationally determined contribution
RES	Renewable Energy Sources
NRE	New & Renewable Energy
MTL	Minimum Technical Load
SOP	Standard Operating Procedures
TML	Technical Minimum Load
TPP	Thermal Power Plant
MS	Main Steam
HRH	Hot Reheat Line
TG	Turbine Governor
SH	Superheat
RH	Reheat
VM	Volatile Matter
PA	Primary Air
TDBFP	Turbine Driven Boiler Feed Pump
MDBFP	Motor Driven Boiler Feed Pump
CRH	Cold Reheat
SCAPH	Steam Coil Air Preheater
TMCR	Turbine Maximum Continuous Rating
DP	Differential Pressure
BFP	Boiler Feed Pump

ID	Induced Draught
FD	Forced Draught
SWAS	Steam & water Analysis
mmWCL	Millimetres per Water Column Length
SADC	Secondary Air Damper Control
HP	High Pressure
HPT	High Pressure Turbine
IPT	Intermediate Pressure Turbine
LPT	Low Pressure Turbine
MW	Megawatts
OEM	Original Equipment Manufacturer
O&M	Operation and Maintenance
PM	Preventive Maintenance
APC	Auxiliary Power Consumption
FG	Flue Gas
AVT	All volatile treatment
PF	Pulverised Flow
SPM	Suspended Particulate Matter
APH	Air Preheater
FEGT	Furnace Exit Gas Temperature
DCS	Distributed Control Systems
FDS	Functional Design Specification
P&ID	Piping and instrumentation Diagram
ESV	Emergency Shutdown Valve
IVSV	Idle Vacuuming Switching Valve
HHV	Higher Heating Value
EHTC	Electro Hydraulic Turbine Control
CMC	Coordinated Master Control
HFO	Heavy fuel Oil
LFO	Light Fuel Oil
EBD	Emergency Blow Down

FRS	Feed Regulating Station
WW	Water Wall
DMCW	De Mineralized Cooling Water
GSC	Gland Steam Condenser
HPCV	High Pressure Check Valve
ECO	Economiser
RGMO	Restrictive Governor mode operation

1. BACKGROUND

1.1 Flexibilisation of Thermal Power Plant

India is moving ahead to achieve nationally determined contribution (NDC) of 40% of installed renewable capacity by 2030. The introduction of large scale renewable generation in the grid is bringing a new set of challenges in the power sector.
The inconsistency and intermittency of solar & wind power has to be managed by other sources of generation in order to ensure the grid stability. Flexible operation of existing coal-fired power plants is very much required to ensure security, reliability of power supply and stability of electricity grids while maximizing generation from renewable energy sources (RES) & integration of the same into grid, because thermal generation capacity of 209 GW constituting 54% of total installed capacity is the dominant part of power generation in the country and more than 70% of country's energy demand is being met from thermal generation. Thus, Flexible operation of thermal power plant is essential for handling the instability & intermittency of renewable generation.

1.2 Committee Formation

A meeting was held under the chairmanship of Hon'ble Minister of Power and NRE on 06.05.2022 to discuss the technical issues related to flexible operation/Technical Minimum of Thermal Power Plant for smooth integration of renewable generation. In the meeting it was decided that a operating manual for attaining/operating at 55% technical minimum load (TML) of thermal power plant and a training curriculum for technical personnel for the same was to be prepared by CEA.

In this regard a committee was constituted under the aegis of CEA with member from NTPC , DVC , BHEL , SEIMENS , L&T , STEAG , TATA Power for preparation of the operating manual and training curriculum .The composition of committee is as under :-

1. Sh. B.C. Mallick , Chief Engineer	CEA	Chairman of committee
2. Sh. Pravir Kumar , Director	CEA	Convener
3. Sh. Om Kant Shukla, Director	CEA	Member
4. Sh. Rohit Yadav, Deputy Director	CEA	Member
5. Sh. Vikalp Saini, Assistant Director	CEA	Member
6. Sh. Srinivasa Rao Gaddamanugu, GM	NTPC	Member
7. Sh. Dipankar Biswas, GM	NTPC	Member
8. Sh. Vijaya Nand Sharma, DCE	DVC	Member
9. Sh. Vijay V Namjoshi, Chief (Generation)	Tata Power	Member
10. Sh. P S Kumar, CEO	Steag	Member
11. Sh. Ian Rabello	Siemens	Member

12. Sh. Dhiman Chattopadhyay, GM	BHEL	Member
13. Sh. Akram Ansari, Sr. Manager	BHEL	Member
14. Sh. Rajneesh Kumar, Head	L&T	Member
15. Sh. Durgasankar Sahu	NPTI	Member
16. Sh. N. Rajkumar, Joint Director	CPRI	Member

Following officers were also invited as Special Invitees in the subsequent meetings of the committee:

1. Sh. Eknath Moze , CE	Mahagenco	Member
2. Sh. S. Parmeswaran , SE	Tangedco	Member

The main objective of this committee are as under:

i. To prepare the Standard Operating Procedures (SOPs) to address the challenges of Flexibilisation and achieve the target of TML (Technical Minimum Load).

ii. To prepare a training curriculum for technical personnel of TPPs(Thermal Power Plants) for the above purpose.

2. STANDARD OPERATING PROCEDURE FOR 55% MINIMUM TECHNICAL LOAD OPERATION

2.1. Objective

To enable coal based thermal Generating Units to run at a Technical Minimum Load of 55% of Rated capacity.

2.2. Scope

This document covers the operating procedure for reducing Unit load from peak load to the current Technical Minimum Load i.e. 55% of Unit rating and for sustaining at 55% Load for coal based Thermal Power Plants.

2.3. Introduction

With rapid rise in renewable energy addition, operation regime of coal-based power plants in India, which is primarily designed as base load power plants has changed over the past few years. This has warranted higher load ramp rates, lower minimum loads, and frequent unit start-ups. Minimum load operation is crucial for coal-based plants during the periods of low demand and high renewable energy injection into the grid, as they are expected to operate in follow up mode.

As coal-based power plants were not designed for prolonged operation at minimum load, reducing to minimum sustainable load imposes many challenges with respect to reliability, efficiency, and equipment health.

Currently Indian coal based thermal Units are being operated at a Technical Minimum Load of 55% to 70% of their rated capacity. If all the Units operate at the lowest possible Technical Minimum Load, then the excessive load cycling, start-ups and shutdowns can be reduced. The target TML of 55% can be reached in a single step (from 70% to 55%) or in two steps (70% to 60% and then to 55%). In each of the steps, ensure that all the Combustion equipment, monitoring equipment and control loops are healthy before starting to reduce the Unit load. Slowly reduce the load watching for any stumbling blocks and address them. Closely monitor Unit operation with respect to the required operational parameters and evolve the practices to be followed at 55% TML for safe and efficiency Unit operation.

2.4. Prerequisites for reducing minimum operating stable load to 55%:

2.4.1 Boiler

(i) Ensure that basic auto control loops such as feed water flow, airflow, and steam (MS/HRH) temp control, furnace draft control, etc. are healthy and in operation.

(ii) Ensure Fuel Air Dampers, Auxiliary Air dampers, Over Fire Air dampers, Burner tilt, Flame scanners and Pulverluer controls are in proper working condition.

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(iii) The healthiness of Flame Scanner is to be checked regularly and necessary action to be taken as required to capture flame at TML. Ensure Furnace Cameras, if available, are in place and showing clear picture of Furnace.

(iv) Spray control for SH and RH should be re-tuned for meeting the requirement during load changes in the entire load range. Generally, auto loops are tuned for response in the range of 60% to 100% load range.

(v) Burner Tilt is to be in Synchronism in all the corners and elevations.

(vi) Requirement of Minimum Volatile Matter content and moisture content in coal being fired is to be ensured nearer to the design value. In case of low VM, blending may be considered.

(vii) Review Boiler Load Index Vs Oxygen curve for maintaining sufficient wind box to furnace differential pressure at low loads as low differential pressure causes flame to come closer to the burner resulting in damage to the burner. This will also ensure proper turbulence at low load operation and helps in avoiding the fire ball to become less intense and dilated.

(viii) Ensure Uniform coal flow through all coal pipes with preferably high coal fineness by conducting dirty air pitot test at minimum mill loading.

(ix) Optimize mill PA flow while ensuring no coal settles in coal pipes (Air Fuel velocity in the mill discharge pipe should not be below 20 m/s) and velocity at burner nozzle is more than speed of flame propagation. Modify PA Vs Coal flow curve accordingly (constant PA for 0 to 50% coal flow range).

(x) It is suggested to implement online monitoring of coal discharge pipe temperature to capture coal settling tendency due to low optimised PA flows.

(xi) Ensure no air ingress into furnace and flue gas ducts. Continuous CO monitoring is suggested to validate excess O_2 as CO is unaffected by air-in-leakages. Hence reducing zones in furnace can be eliminated.

(xii) It is suggested to ensure Coal mill steam inerting system charged and in auto with high CO value.

(xiii) In case of TDBFP, steam source from CRH should be available. Steam source changeover from Extraction to CRH and vice versa should be smooth to avoid disturbance in the Feed water flow.

(xiv) Superheater and Reheater metal temperature during load reduction and low load operation should be kept under limit.

(xv) Mill outlet temperature should be maintained minimum 70°C for Indian coals if required, SCAPH to be charged.

(xvi) Ensure Furnace to Wind box delta P are in Auto Mode of operation. For ensuring stability at 55% TMCR load, non-firing coal dampers' opening (coal dampers of mill which are not in service) should be optimized (typically < 10%) to increase Furnace-Wind Box DP and to ensure combustion quality.

(xvii) Unburnt Carbon in Ash is to be analyzed frequently to assess combustion quality.

(xviii) To avoid drum level disturbances due to opening of BFP recirculation valves during disturbances at low loads, replacing ON/OFF recirculation valve with Control valve may be considered for better control.

(xix) Sliding pressure curve to be reviewed for lower load operation wherever applicable.

(xx) Developing online PA fan operating point display and installation of reliable stall sensing mechanism for better monitoring and control. It is suggested to install stall Protection Measures in PA Fans and ID/FD fans. In case, no. of Mills is to be reduced to ensure minimum feeder loading, PA header pressure is to be suitably modified to prevent PA Fan stalling.

(xxi) In once through supercritical boiler, Feed Water flow control is of utmost importance. Feed water flow is dependent on function based on boiler load index. The implementation of this function must be ensured with fair amount of accuracy.

(xxii) For once through boiler, steps are to be taken to ensure that water level at Water Separator Storage tank does not increase by ensuring appropriate degree of superheat at water separator inlet.

2.4.2 Turbine

(i) TG governor characteristics to be checked periodically during shutdown.

(ii) Turbine casing top bottom differential temperature during load reduction and low load operation should be kept under limit.

2.4.3 General

(i) Calibration of all the critical parameters measuring instruments is highly essential.

(ii) For 55% minimum load operation the ramp rates (up/down) shall be about 2%. However, in future the proposed new regulation shall have to be followed regarding the ramp rates.

(iii) All steam & water analysis system (SWAS) is charged and available for online monitoring.

(iv) RGMO (Restrictive Governor mode operation) may have to be bypassed.

2.5. Procedure:

2.5.1 Gradually reduce the Unit load by reducing load set point till loading comes to 80%.

2.5.2 To further reduce the Unit load, take out one feeder (either bottom or top) from auto and gradually reduce the coal feeding and stop the Milling system. Mill combination plays an important role in flame stability and to maintain rated

main steam and reheat steam temperatures. Select the Milling system to be stopped according to the behaviour of the Boiler.

2.5.3 Mill cut-out procedure:

i. Gradually reduce feeder speed / coal flow through feeder to minimum either manually or by reducing the feeder bias set point

ii. Ensure that the Mill outlet temperature does not increase by modulating the hot air and cold air dampers

iii. Reduce PA flow through the Mill as per the reduced coal flow.

iv. Open mill inerting steam (If available) valve, if the coal fired is having high volatile matter, to avoid mill explosions during lean mixture conditions.

v. Stop the feeder

vi. Close hot air damper and gate

vii. Keep minimum cold PA through the Mill till the Mill outlet temperature comes down

viii. Close the cold air damper and cold air gate.

ix. Stop the Mill after ensuring no coal is left in the Mill.

2.5.4 Following the above step reduce the coal feeding and stop one more Milling system at about 60% of unit load. Ensure that minimum 3 consecutive Mills are in service or a gap of not more than one elevation. For a safer side ensure each of the running mill is loaded more than 50%.

2.5.5 Running fewer mills at higher loading over running more mills at lower loading increases the combustion stability; hence restrict the number of mills according to individual mill loading >60%. (This may create a situation where in case of one running mill trips Unit tripping on flame failure has a very high probability. Reliability of feeders and Mills to be very high. Mill unloading due to foreign material in Feeder or Mill need to be avoided).

2.5.6 Air Preheater cold end corrosion due to low flue gas temperature at low loads and low average cold end temperatures in winter season. SCAPH to kept in charged condition as per the requirement.

2.5.7 Ensure wind box pressure is maintained around 50 to 60 mmWCL by proper operation of SADC and excess air adjustment during load reduction.

2.5.8 Deviation in Super heater and Reheater temperatures from rated values at low load operation can be reduced by adjusting mill combination, burner tilts or biasing fuel to upper burner levels, increasing O2, and Optimising wall soot blower operation frequency. All these actions result in balancing heat transfer in the first pass and convective pass.

2.5.9 Ensure SH & RH temperature variation is within +/- 15 °C. Check for any transients in differential expansion of turbine rotor and casing. Ensure HP turbine exhaust temperature is within limit.

2.5.10 Rate of saturation temperature change in boiler drum is to be monitored and limited while reducing the load. Drum top/bottom temperature difference to be maintained within limits during load reduction.

2.5.11 Soot blowing is not possible at low loads as it causes further disturbance in boiler flame. Unit load needs to be increased for carrying out soot blowing as and when required.

2.5.12 To gain confidence, after reducing the load to 60% of rated load, for initial load reducing trials, wait for 1 hr and observe all the parameters like flame intensity, MS/HRH temperatures, SH/RH spray levels, etc. for their stability.

2.5.13 Keep reducing the Unit load further to reduce the Unit load to 55% of rated capacity.

2.5.14 Open on BFP recirculation valve depending upon the requirement based on design flow Vs speed curve at low load.

2.5.15 Operate unit on modified sliding pressure (wherever available) mode to avoid possible steaming in economizer during load reduction.

2.5.16 Diligently monitor system chemistry during load reduction.

2.6. Operational Issues faced in Low load operation in case of Ball and Tube mill:

2.6.1 Difficulty in operating at low load conditions for units using Ball and Tube mills due to inherent limitations.

2.6.2 During single mill operation at 2 elevation may be explored at 55% operation without oil support.

2.6.3 During 1 ½ mill operation (ball tube mill) there may be a chance of explosion of mill when it operates with one side continuously. It is good practice to run the mill with both sides in service to avoid unwanted happenings.

2.6.4 During 2 mills low load operation, the constraint of ignition energy permissive in the adjacent elevation has to take into consideration and forced to run the mills with unequal loadings results in fluctuations of boiler load/stability of unit and which leads to chances of tripping of unit.

Total 18 units of 4310 MW capacity are running on Ball and Tube Mill. After extensive deliberation by the Committee, it has been suggested to Conduct a pilot test in association with OEM for Low Load operation (55%) at a 210 MW size Unit of DVC running on Ball and tube mill so that the operational issues being faced by such units can be studied in detailed and resolved accordingly.

2.7. Long Term Concerns/Measures:

2.7.1 Increased stresses in thick components of boiler and turbine due to cycling and higher equipment life consumption. Life time monitoring systems may be considered for thick wall components for better control and monitoring.

2.7.2 Increased Equipment failures and non-availability. Usage of Predictive Analytics for early detection of equipment anomalies with subsequent actions may be considered. Since all equipment shall have cyclic loading due to ramp up and down, proper Condition Monitoring is to be taken up with a predict

schedule – in consultation with OEM, for assessment of equipment health. Further Capex allocation is to be ensured for through overhauling of all lead bearing equipment during annual shutdown

2.7.3 Increased O&M cost and decreased reliability. PM schedule to be reviewed for equipment and additional points may be included in checklist in consultation with OEM to minimise equipment failure.

2.7.4 Overall unit efficiency, heat rate and APC deterioration will increase financial burden.

2.7.5 Usage of Performance Optimisation tools for minimising losses due to deteriorated heat rate and APC at low loads.

2.7.6 With lowering load, amount of steam entering the feed water heater decreases, and the amount of drain also decreases, therefore it becomes difficult to control the drain level.

2.7.7 Steam pressure decreases with lowering load. At the economizer, the feed water temperature may approach saturated liquid temperature, and evaporation may occur. If evaporation occurs, the feed water flow may be interrupted, and the metal temperature of the water-cooling wall may rise.

2.7.8 In imported coal-based plant, Fuel flow and air flow decrease, and balance of fuel and air sometimes collapses at some space in furnace of boiler, and combustion becomes unstable.

2.7.9 The methodology of Biomass firing and impact of biomass firing on flame stability at 55% MCR to be explored.

2.7.10 Mill Centre pipe may be cleared periodically as a precaution.

2.7.11 Plant specific practices based on the design and equipment condition to be followed at 55% TML for safe and efficient Unit operation.

2.7.12 Higher ash accumulation is observed in flue gas path due low flue gas velocity endangering structural stability. To be monitored and suitable action to be taken. At any point do not allow water to enter into FG ducts.

2.7.13 Low Primary air flows may lead to Primary Air fans operating in stalling zone, especially in case of a coal mill trip at lower loads.

2.7.14 High Super heater and Reheater sprays at low loads lead to increased tendency of deposits in super heaters, reheaters and turbine blades. Ensure that the Station adheres to Water chemistry guidelines. Consider changing the chemical treatment regime to AVT(O) from AVT(R) to mitigate the adverse effects at low load operations.

2.7.15 Mill Centre pipe may be cleared periodically as a precaution.

2.7.16 Ensuring equalisation in PF flow in coal pipe by periodic mill maintenance and orifice adjustments.

2.7.17 Installation of vibration monitoring instruments in critical rotating equipment, if not available.

2.7.18 Monitoring of emissions parameters like SPM, NOx and SOx, and performance parameters like Boiler efficiency, unit heat rate, APC may be done periodically.

2.7.19 Critical parameters like Unburnt carbon, APH exit temperature, FEGT, coal fineness, APH pressure drop should be monitored closely.

3. TRAINING OF OPERATORS AND TRAINERS

3.1. Objective

The purpose of operator training is to train and assess operators in plant operation such as start-up and shut-down, supervision, monitoring and control during normal, emergency situations and in safety procedures. For safe and efficient plant operation at 55% minimum load, there is a need for developing trained plant personnel.

In a highly automated plant and to suit the changing needs of the thermal power plant training, Simulator is helpful to maintain a high level of proficiency of operators. Simulator is highly flexible, can be used in different ways to run a thermal unit.

3.2. Requirement

55% operation of Thermal plant requires highly efficient and skill manpower to ramp down the load and ramp up the load with desired parametric operation particularly for 210 MW and 500 MW Thermal generating units. Adequate training is required on Simulator for developing the confidence in operators to run the power plant at 55% load without oil support. Many simultaneous parameters monitoring are required for all critical equipments for stable and efficient operation at 55% load without oil support.

3.3. Training Programme

The simulators are capable to train the operators at 55% operation without oil firing.

1. Simulator Calibration: "The simulator training to be imparted shall cover the load cycling from maximum continuous load to 70% minimum load at a ramp rate of about 3% and then from 70% to 55% load at a ramp rate of about 2% without oil firing. It shall also include continuous operation at 55% minimum load". During this operation, all critical parameters are to be monitored and unit operation stability to be checked. Monitoring of Critical Parameters are to be recorded during 55% Operation without oil support. Operators need to record and monitor the parameters and must adopt the process of this operation with more skilled training. With proper training only operator can do successful operation and handle the emergency if any during this operation.
2. The training institutes providing training related to 55% Technical Minimum Load of thermal power plants should be recognized by CEA/MoP or the state governments.
3. Duration & Batch size: The training institute shall impart training as per the modules developed specifically for the above operation regime. The training duration shall be of 2 weeks for Operators, 1 week for trainers and [illegible] 15 operators can be trained. No of trainers per batch should be 2-3. Focus area [illegible]

in the Simulator training will be cold and warm start up conditions, 55% Operation (Manual) –Ramp Up with ramp rate, 55% Operation (Manual) –Ramp down with ramp rate, 55% Operation (Auto) –Ramp Up with ramp rate, 55% Operation (Auto) -Ramp down with ramp rate, Emergencies & Malfunctions, Unit Stable Operation, Critical Equipment Changeover etc.

The capability of simulators needs to be assessed and fine-tuned as per the requirement of 55% load operation at Institute of NPTI, Central, State and Private power training centres where Simulators are available. The details of available Simulators for Thermal Power Plants at NPTI and various Utilities is attached as Annexure II.

The 210 MW and 500MW Simulator Training material of NPTI has been attached as Annexure I.

3.4. Recommendation

Plant Operators/Trainers must train on the simulator for 55% Load operation with 3% ramp rate above 70% load and 2% ramp rate below 70% load and without oil support. Simulator Training to the power Plant operators will enhance their skills and make them ready for low load operation without oil support and help in making the plant stable during ramp up and ramp down at lower load.

The operators of Central, state and private utilities can also be trained at the training centres of NPTI or the training centres of major utilities to gain confidence. Further, utilities which have achieved 55% load operation without oil support in their units can extend the support for achieving the 55% operation at other utilities which are facing difficulties. In this regard the list of NTPC's units operating at 55% load along with their location is attached as Annexure III.

As far as possible the simulator training pertaining to the 55% Technical Minimum Load of thermal power plants shall be plant specific.

ANNEXURE I

National Power Training Institute

(Under Ministry of Power, Govt of India)

500 MW SIMULATOR TRAINING MATERIAL

For Lower Load Operation (55% Operation)

NPTI Complex, Sector-33,

Faridabad – 121003 (Haryana)

Introduction

For safe, efficient and economical thermal power plant operation, there are a significant numbers of thermal power plants around the world and new plants based on coal firing are also added into operation regularly. This creates an increasing need for trained thermal power plant personnel.

The thermal power plant simulator model is used for both the training of newly-hired employees and refresher courses of personnel with earlier experience. The main purpose of the Thermal Power Plant simulator is to train and assess operators in the operation of Distributed Control Systems (DCS) and in plant operation, including training in plant start-up and shut-down, emergency situations and safety procedures.

Utilizing thermal power plant operation as the basis for simulation provides our student and employee with a strong foundation, ensuring that their operational procedures and practices will enhance the plant economic efficiency and safety measures.

Objectives/ Purpose

The main purpose of the Thermal Power Plant simulator is to train and assess operators in general plant operation, including training in plant start-up and shut-down, supervision, monitoring and control during normal, emergency situations and in safety procedures. In addition, the simulator can be used as a powerful tool for engineers and plant management to verify process design and control strategies prior to start-up of a plant as well as investigation and testing of operational problems that are normally not allowable under real plant normal operating conditions.

Our simulator is highly fidelity and can be used in a number of different ways to suit the changing needs of the thermal power plant.

Power plant simulator is an effective training tool, with which the actual characteristics of a power plant can be generated through real time execution of mathematical models of various systems on a computer. The trainee operator quickly gains experience in normal, abnormal and emergency operation of power plant through Simulator Training. Operator confidence is increased, resulting in improved efficiency of power plant operating personnel, better equipped to respond to problems and emergencies. The hands-on training in a highly realistic environment provided by the training Simulator cannot be substituted by any other form of training. A well-trained operator runs a plant safely and expensive downtime caused by operator error is significantly reduced. In a highly automated plant, refresher

training on Simulator also helps experienced operators to maintain a high level of proficiency.

General

High-Fidelity Simulator for the NPTI 500 MW Unit consist of Functional Design Specification (FDS) is an expansion of the proposal to include information and details not available at the time of proposal. The simulator will realistically represent the systems, processes, and controls, including startups, shutdowns, normal and abnormal operations, and malfunctions, subject to the scope outlined in the signed specification.

The simulator will provide dynamic simulation of a 500MW TPP unit. This 500 MW unit includes, coal Fired, balanced draft and controlled circulation Drum type Boiler.

The simulator will also be a tool for initial training and retraining of control room operators, operation supervisors, and other plant equipment operators in:

- Various plant systems, equipment and their functions
- Following specific plant operating procedures
- Abnormal and emergency events, including malfunctions

The process model consists of the following major systems:

- Turbine
- Boiler
- Balance of Plant
- Electrical
- Miscellaneous Systems

Boiler Model

The boiler section of the process model will be defined in the following sections. The model schematics are based on 500MW design information, system descriptions, P&ID's, verbal and written information from NPTI personnel and will include the following major systems:

Steam from the Drum is directed to the series of Six (6) nodes of Steam cooled walls. It is then passed through the Low Temp SH, SH divisional Panel & Final SH. The superheated steam from the Final SH outlet header node is directed to MS1 network by means of two (2) flow boundaries, feeding inlet steam to the high-pressure section of the turbine.

The Superheaters are Physically Modelled.

Steam at high pressure & temperature from the outlet node of the HP turbine is directed to the RH inlet header node through two (2) cold RH flow paths. Reheater arrangement consist of two (2) headers, one is for inlet & other for outlet and twelve (12) nodes for tube section with six (6) nodes in each parallel flow path. Steam flows through the nodes and gains heat from the heat slabs corresponding to each node.

Turbine Model

The Turbine and its related system of the process model will be represented on the MS1 network (Main Steam & Extraction Steam Network No.1), and will include the following major systems:

- Turbine System
- Boiler Feed Pump Turbine
- Governing Valves System
- Gland Steam Sealing System
- Turbine Drain System

The turbine unit consists of a 500 MW Three Cylinder Single Reheat Condensing Turbine designed for high operating efficiencies and maximum reliability. Turbine icons are used in the model as per the number of extractions. High Pressure (HP) and Intermediate Pressure (IP) and Low Pressure (LP) turbines are taken on a single shaft. High pressure and high temperature steam from the BR1 network is directed through flow & pressure boundaries to the HP turbine inlet node in the MS1 network through two (2) HPT stop valves (ESV) and two (2) HPT control valves.

Steam is directed from the HP turbine exit node to the reheater inlet node, which is then passed through the reheater. The hot reheated steam is then fed to the IP turbine

in the MS1 network through two (2) IPT Stop Valves (IVSV) and two (2) IPT Control Valves (IVCV). Steam from the IP turbine exit node is directed to the LP turbine inlet node through a crossover flow path. By opening the HP bypass valve, steam is fed into the cold reheat line.

The de-superheating station is represented as a node in the model to reduce the temperature and pressure. By opening the LP bypass valve, steam is fed into the condenser from the hot reheat.

Steam is extracted from the nodes in the turbine icon and flows through the feed water heaters shells. There are six (3) extractions on the LP Turbine, two (2) on IP Turbine and one (1) on the Cold Reheat (CRH) Line. Extraction #1 is located on the cold reheat line and supplies to HP feed water heater #6A and HP feed water heater #6B. Extraction #2 is from the IP turbine and supplies to HP feed water heater #5A and HP feed water heater #5B. Extraction #3 is from IP turbine to Deaerator and BFPT. Extractions #4, #5, #6 from the LP turbine and supplies steam to LP heaters #3, #2, #1 respectively.

Turbine system section is Physically Modeled. The electro-hydraulic system and governing system are Physically Modeled.

Critical parameters of the 500 MW Thermal Simulator Graphics Representation

NPTI 500 MW Unit Simulator Critical Parameters

Parameter	%Accuracy	Normal	Unit
Main Steam mass flow rate	±2	1498.5	t/h
Main Steam Pressure	±2	176.7	kg/cm2 (g)
Main Steam Temperature	±2	540	°C
Fuel flow	±2	344	t/h
Fuel Heating Value	±2	5300 (HHV)	kcal/kg
Hot Reheat Steam mass flow rate	±2	1335.1	t/h
Hot Reheat Pressure	±2	41	kg/cm2 (g)
Hot Reheat Temperature	±2	540	°C
Combustion Air Flow	±2	1847	t/h
Combustion Air temperature	±2	312	°C
Condensate flow	±2	1177.64	t/h
Feedwater flow	±2	1491.5	t/h
Feedwater Temperature	±2	253	°C
Economiser Gas Exit Temperature	±2	335	°C
Furnace Pressure	±2	-5	mmwc
Condenser Vacuum	±2	77	mmhg(abs)
Steam Turbine Generator Net Power	±2	500	MW

Coordinated Master Control in Service (CMC)

Coordinated Master Control interfaces the turbine and boiler control together by generating boiler demand with Turbine Target Load point and Coordinated -Master Control point and M.S. pressure set point. Coordinated Master Control can be put in service generally after turbine is loaded to 60% loads.

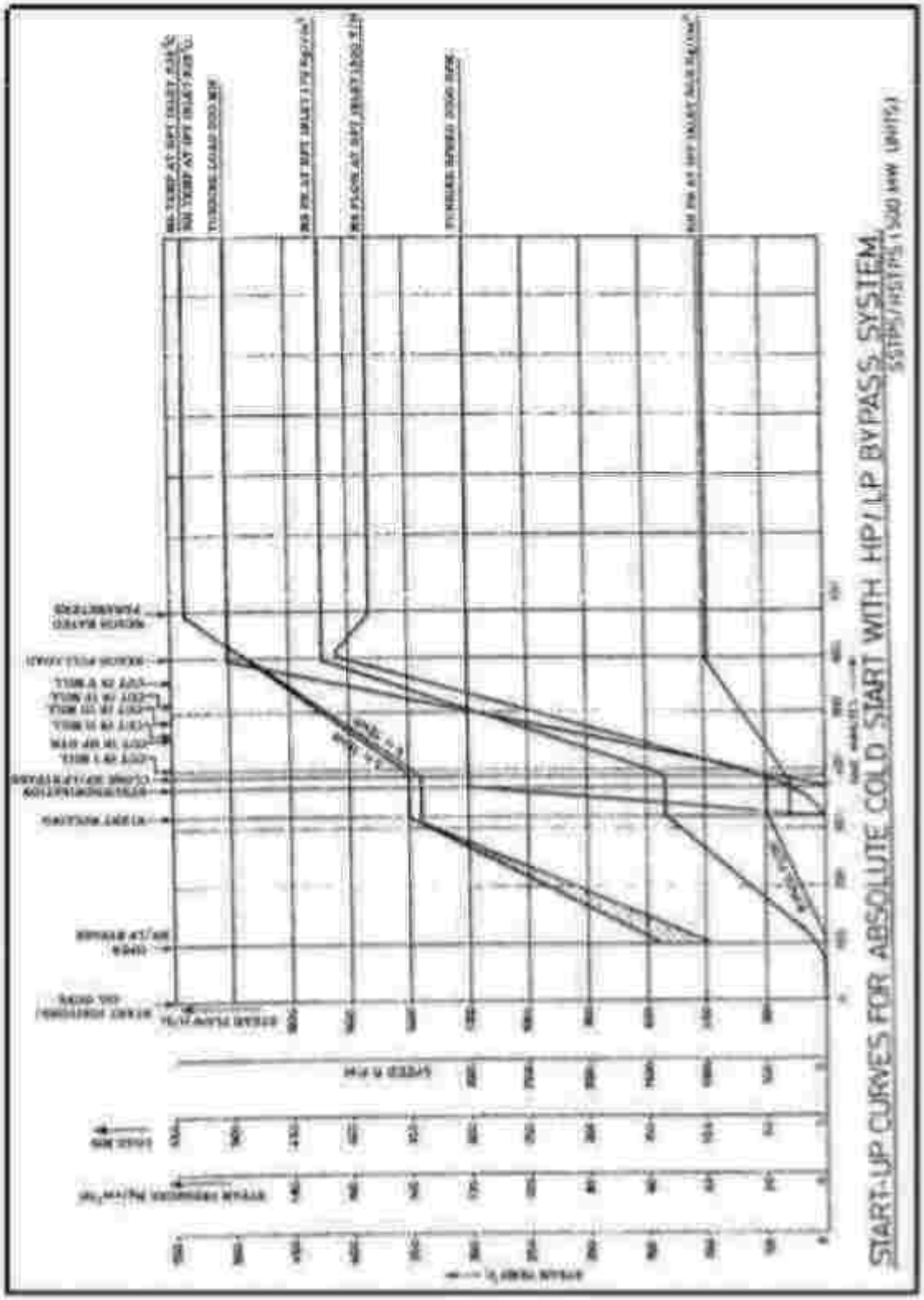
Ensure the following:

1. From the Turbine EHTC Graphic, check the following: -
   a) Load control – ON
   b) Pressure Control Mode – LP Mode Selection
2. Coordinate Master Control- Put the Throttle Pressure Set point same as the running pressure (Ensure Operator mode selection: Constant pr

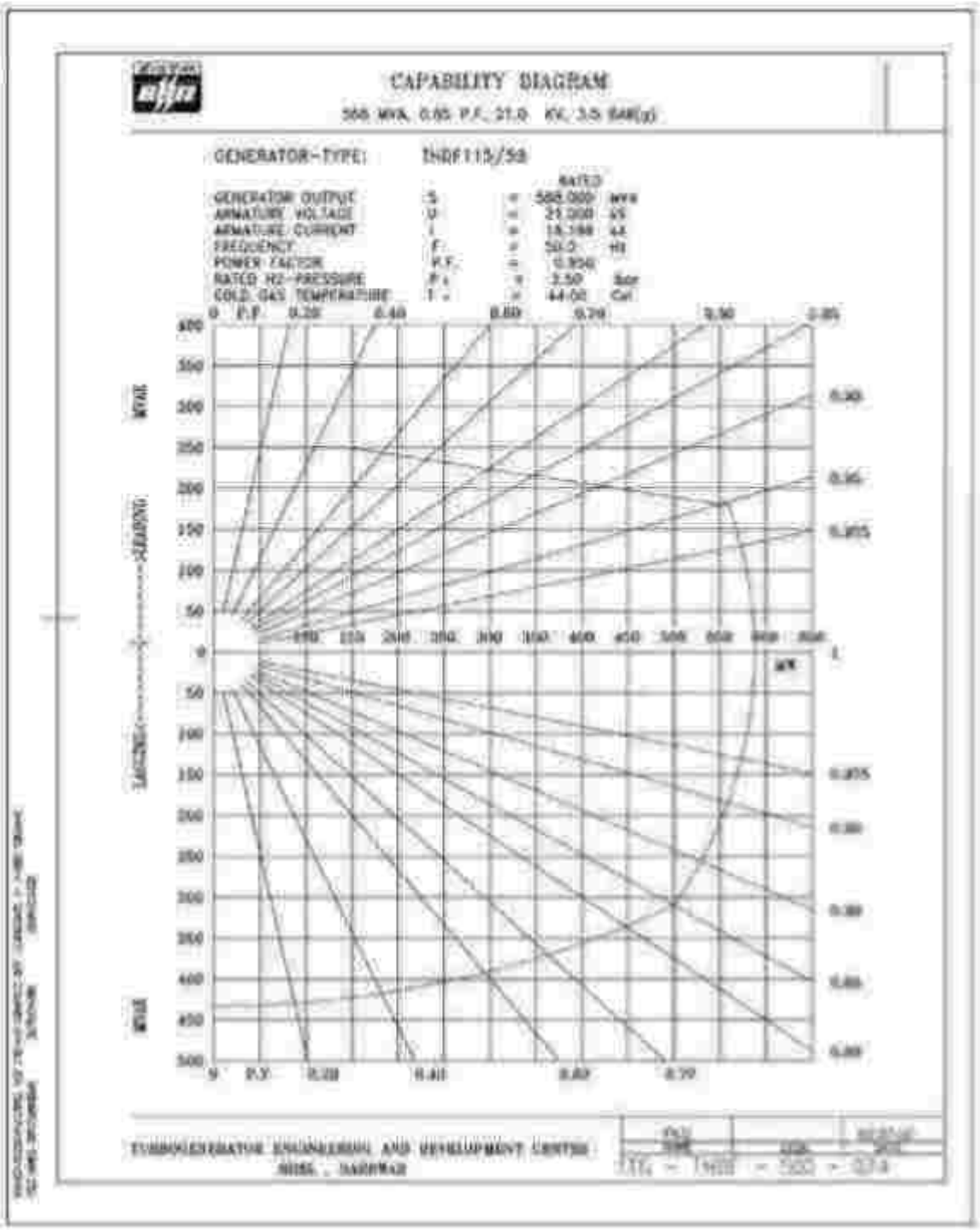
graphics. The pressure set point on EHTC graphic and CMC graphic should be same).

3. Put all the mills in Auto and then put the 'fuel master' in Auto from Graphic of Fuel Flow Control.
4. Put the 'Boiler Master Control' in Auto
5. Put the Turbine in CMC mode from Graphic
6. Click on "CMC" tab in graphic
7. Ensure "Co-ordinated" is flashing in Red colour.
8. Unit Load will be maintained as per operator set point.

Start-up Curve



Generator Capability Curve



Lowering Load - Thermal Backing Operation (55 % Operation Training)

State of Plant - Ensure

- M/C on Load.
- SH/RH spray control on auto.
- Drum level control on auto.
- Furnace pressure control on auto.
- Aux. Steam pressure/temp. Control on auto.
- Ensure igniters and oil guns are in position to be operated in case of requirement
- Mill temp. On auto.
- PA control on auto.
- Burner Tilt system are in alignment with all corners
- SADC on auto.
- HFO temp is adequate.
- Six mills are in service.
- AB, CD, EF elevation oil guns are available.
- Burner Tilt operation OK.
- HP /LP bypass on auto.
- EBD is available for operation.
- FRS high range in service and low range is available.
- Fire fighting equipment's are available.
- WW & APH Soot blowing system is available.
- Feed water flow management in lined condition with TDBFP.
- SH/RH Spray Control in auth with Set points.
- TG Governor & LL setting should be proper.

1. Check HP / LP bypass operation is O.K. and again ensure furnace to wind box dP in Auto Mode. Mills outlet Temperature should be in the range of 65 to 80 Deg C for Indian and Imported Coal.
2. Machine is still in CMC mode; reduce the load gradually from graphics from "OPR LOAD SP" Tab.
3. Steam flow will be reduced. Allow the pressure to drop with the reduction in load.
4. Observe the reduction rate of temperature prescribed by the manufacturer for turbine but never exceeding the forced cooling rate of boiler if required to regulate load to maintain MS and HRH temperature constant.
5. Check Throttle Pressure and Actual Pressure for any wide variation difference.
6. Adjust air flow for required O2 % and Monitor CO.
7. Again reduce the load gradually and check the conditions of Boiler and Turbine. Machine is still in CMC operation.

8. Reduce the up to from 500 MW to 300 MW in the step manner with time stamping of load 5 to 10 MW per minute and observe the Critical parameters. Ramp Down rate up to 55% should be such that it should be in the range of 1.0 to 2.0 % (5 to 10 MW per minute) to make stable parameters. In case of wide variation in parameters, lets parameter to be made stable and observe the position of different parameters and let them to stabilize. Boiler flame stability is very important during ramp down or ramp up process. Every moment of time availability and reliability of mills and feeder needs to be ensured.
9. If Machine is old age More than 12-15 years, please ensure
    - Feed flow
    - Air Flow
    - PA Header Flow
    - Furnace Pressure Control
    - Fuel Flow control
    - Check also bypasses operations.
10. Bring out machine from CMC mode around 270-300 MW and manually reduce the load from the CMC graphics from Tab "LOAD REF/LOAD SP.
11. Close the extraction of HP heaters and bring out HP heaters charging and observe the HP heaters.
12. Further reduce the load and reduce the coal firing and gradually bring out one coal mill from service and if required take two mills but support with oil if unit is old.
13. Reduce Coal demand further and still coal master in auto and check further all critical parameters. Change over from TDBFP to MDBFP, if required.
14. Load Operation need fine control for drum level, drum pressure. If at any moments of time, flame disturbed wide fluctuation may be observed in drum. If required support of oil guns to be taken immediately and ensure pair mode and elevation mode should be available at respective elevation.
15. Density difference at lower load with respect to water and steam is very important for stable operation and balanced load profile.
16. Soot blowing at lower load is to be avoided as it make disturbance in the Flame and Furnace draft.
17. Reduction in Turbine load also reflect disturbance in Condenser vacuum, which need to be monitored perfectly.
18. Metal Temperature and Air Pre-heater, SCAPH Temperature needs to be monitored.
19. In case of Disturbance in Load, Control the MS Pressure and Feed water to avoid tripping & Ensure flame stability.
20. For Older Units, Control System and Control Loops Tuning are required. Some Loops and Sub-loops Control Response are slow, which need to be retuned for ramp up and ramp down as per unit operation and Design Specification, Technical documents.

Critical Set Point Parameters of 500 MW Thermal Power Plant

Sr.No	Equipment	Set Point
1	DMCW(SG)	LONG RECIRCULATION VALVE = 3kg/cm2
2	DMCW(TG)	LONG RECIRCULATION VALVE = 3kg/cm2
3	HOTWELL FILLING	NORMAL VALVE = 1800MMWC EMERGENCY VALVE = 1740MMWC
4	GSC	RECIRCULATION VALVE = 400T/HR
5	DEAERATOR	LEVEL CONTROL VALVE = 750MM
6	HP BYPASS	BP-1 = 35kg/cm2 BPE-1 = 350 DEG C BP-2 = 35kg/cm2 BPE-2 = 350 DEG C
7	LP BYPASS	CV = 5 kg/cm2 CV-1 = 100T/HR CV-2 = 100T/HR
8	FURNACE DRAFT	PRESSURE = - (8 TO 10 MMWC)
9	PA FAN HEADER	PRESSURE = 850 MMWC
10	LFO PUMP DISCHARGE	HEADER PRESSURE = 20 kg/cm2
11	LFO HEADER	PRESSURE = 10 kg/cm2
12	HFO PUMP DISCHARGE	HEADER PRESSURE = 20 kg/cm2
13	HFO HEADER	PRESSURE= 10 kg/cm2
14	HFO HEATER	TEMPERATURE SET POINT = 125 DEG C
15	HFO HEADER	FLOW CONTROL MAIN VALVE = 10 kg/cm2
16	TURBINE DRAIN HPCV	TEMPERATURE SET POINT = 300 DEG C
17	GENERATOR COOLING WATER	TEMPERATURE SET POINT = 45 DEG C

National Power Training Institute

(Under Ministry of Power, Govt.Of India)

210 MW SIMULATOR TRAINING MATERIAL

For Lower Load Operation (55% Operation)

NPTI Complex, Sector-33,

Faridabad – 121003 (Haryana)

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The main purpose of the Thermal Power Plant simulator is to train and assess operators in general plant operation, including training in plant start-up and shut-down, supervision, monitoring and control during normal, emergency situations and in safety procedures. In addition, the simulator can be used as a powerful tool for engineers and plant management to verify process design and control strategies prior to start-up of a plant as well as investigation and testing of operational problems that are normally not allowable under real plant normal operating conditions.

Our simulator is highly fidelity and can be used in a number of different ways to suit the changing needs of the thermal power plant.

Power plant simulator is an effective training tool, with which the actual characteristics of a power plant can be generated through real time execution of mathematical models of various systems on a computer. The trainee operator quickly gains experience in normal, abnormal and emergency operation of power plant through Simulator Training. Operator confidence is increased, resulting in improved efficiency of power plant operating personnel, better equipped to respond to problems and emergencies. The hands-on training in a highly realistic environment provided by the training Simulator cannot be substituted by any other form of training. A well-trained operator runs a plant safely and expensive downtime caused by operator error is significantly reduced. In a highly automated plant, refresher training on Simulator also helps experienced operators to maintain a high level of proficiency.

General

High-Fidelity Simulator for the NPTI 500 MW Unit consist of Functional Design Specification (FDS) is an expansion of the proposal to include information and details not available at the time of proposal. The simulator will realistically represent the systems, processes, and controls, including startups, shutdowns, normal and abnormal operations, and malfunctions, subject to the scope outlined in the signed specification.

The simulator will provide dynamic simulation of a 500MW TPP unit. This 500 MW unit includes, coal Fired, balanced draft and controlled circulation Drum type Boiler.

The simulator will also be a tool for initial training and retraining of control room operators, operation supervisors, and other plant equipment operators in:

- Various plant systems, equipment and their functions
- Following specific plant operating procedures
- Abnormal and emergency events, including malfunctions

The process model consists of the following major systems:

- Turbine
- Boiler
- Balance of Plant
- Electrical
- Miscellaneous Systems

Boiler Model

The boiler section of the process model will be defined in the following sections. The model schematics are based on 210 MW design information, system descriptions, P&ID's, verbal and will include the major systems:

- Combustion Air & Gas System
- Fuel Oil & Coal Firing System
- Boiler Water Side System
- Economizer
- Superheater
- Reheater

Turbine Model

The Turbine and its related system of the process model will be represented on the ITOPSOFTWARE MS1 network, and will include the following major systems:

- Turbine System
- Governing Valves System
- Gland Steam Sealing System
- Turbine Drain System

- Turbine lube oil system
- Turbine evacuation system

The turbine unit consists of a 210 MW Three Cylinder Single Reheat Condensing Turbine designed for high operating efficiencies and maximum reliability. Turbine icons are used in the model as per the number of extractions. High Pressure (HP) and Intermediate pressure (IP) and Low Pressure (LP) turbines are taken on a single shaft. High pressure and high temperature steam from the BR1 network is directed through flow & pressure boundaries to the HP turbine inlet node in the MS1 network through two (2) HPT Stop Valves (ESV) and two (2) HPT Control Valves. Steam is directed from the HP turbine exit node to the re-heater inlet node, which is then passed through the re-heater. The hot reheated steam is then fed to the IP turbine in the MS1 network through two (2) IPT Stop Valves (IVSV) and two (2) IPT Control Valves (IVCV). Steam from the IP turbine exit node is directed to the LP turbine inlet node through a crossover flow path. By opening the HP bypass valve, steam is fed into the cold reheat line. The de-superheating station is represented as a node in the model to reduce the temperature and pressure. By opening the LP bypass valve, steam is fed into the condenser from the hot reheat.

Steam is extracted from the nodes in the turbine icon and flows through the feed water heaters shells. There are three (3) extractions on the LP Turbine, two (2) on IP Turbine and one (1) on the Cold Reheat (CRH) Line. Extraction #6 is located on the cold reheat line and supplies to HP feed water heater#6. Extraction #5 is from the IP turbine and supplies to HP feed water heater #5. Extraction #4 is from IP turbine to Deaerator. Extractions #3, #2, #1 the LP turbine and supplies steam to LP heaters #3, #2, #1 respectively.

Turbine system section is Physically Modeled.

Critical parameters of the 210 MW Thermal Simulator Graphics Representations

Balance of Plant System Model

The balance of plant (BOP) section of the process model will be represented on the Main Steam (MST) network, and will include the following major systems:

- Condensate System
- Auxiliary Steam System
- Heater Bypass
- Heater Drain & Vent System
- Condensate Water Makeup System
- Steam Coil Air Pre-Heaters (SCAPH)
- Circulating Water System
- Auxiliaries Cooling Water System
- Equipment Cooling Water System

Turbine Lube Oil System

The turbine lube oil system supplies oil to the turbine bearings, generator and exciter bearings. The lube oil system also acts as source of control oil which is being used for operation of Control valves, Stop valves, mechanical protections devices and NRV's etc.

This system consists of several major components listed below:

- Turbine Main Oil Tank
- Main Shaft Oil Pump
- Auxiliary Oil Pump
- Jacking Oil Pump
- Emergency Oil Pump
- Injectors
- Lube Oil Coolers
- Filters/Strainers

Main oil tank is represented by a node which is always assumed to have certain mass of oil available during plant operation. AC auxiliary oil pumps, Emergency oil pump, Jacking oil pumps take suction from the main oil tank through respective flow paths.

NPTI 210 MW Unit Simulator Critical Parameters

S. No.	Parameter	Units	Design Value
1	Main Steam Flow	Tons/Hr	700.00
2	Main Steam Pressure L	Bar	155.98
3	Main Steam Pressure R	Bar	155.98
4	Feedwater Flow	Tons/Hr	700.00
5	Feedwater Temperature	DEG C	294.00
6	Feedwater Pressure	Bar	172
7	Furnace Pressure	mmwc	-4.00
8	Generator Gross MW	MW	210.00
9	Turbine Speed	RPM	3000.00
10	Cold Reheat Temperature L	DEG C	350.00

S. No.	Parameter	Units	Design Value
11	Cold Reheat Temperature R	DEG C	352.00
12	Cold Reheat Pressure L	Bar	40.4
13	Cold Reheat Pressure R	Bar	40.4
14	Hot Reheat Temperature	DEG C	540.00
15	Hot Reheat Pressure	Bar	38.8
16	Superheat Outlet Temperature	DEG C	537.00
17	Superheat Outlet Pressure	Bar	156.00
18	Condenser Pressure (Vacuum)	KG/CM2	-0.94
19	ECO out gas Temperature	DEG C	356.00
20	Fuel (Coal) Flow	Tons/Hr	148.00

Coordinated Master Control in Service (CMC)

Coordinated Master Control interfaces the turbine and boiler control together by generating boiler demand with Turbine Target Load point and Coordinated - Master Control point and M.S. pressure set point. Coordinated Master Control can be put in service generally after turbine is loaded to 60% loads.
Ensure the following

1. From the Turbine EHTC Graphic, check the following: -
   a) Load control – ON
   b) Pressure Control Mode – LP Mode Selection
2. Coordinate Master Control- Put the Throttle Pressure Set point same as the running pressure (Ensure Operator mode selection: Constant pressure mode graphics. The pressure set point on EHTC graphic and CMC graphic should be same).
3. Put all the mills in Auto and then put the 'fuel master' in Auto from Graphic of Fuel Flow Control.
4. Put the 'Boiler Master Control' in Auto
5. Put the Turbine in CMC mode from Graphic
6. Click on "CMC" tab in graphic
7. Ensure "Co-ordinated" is flashing in Red colour.
8. Unit Load will be maintained as per operator set point.

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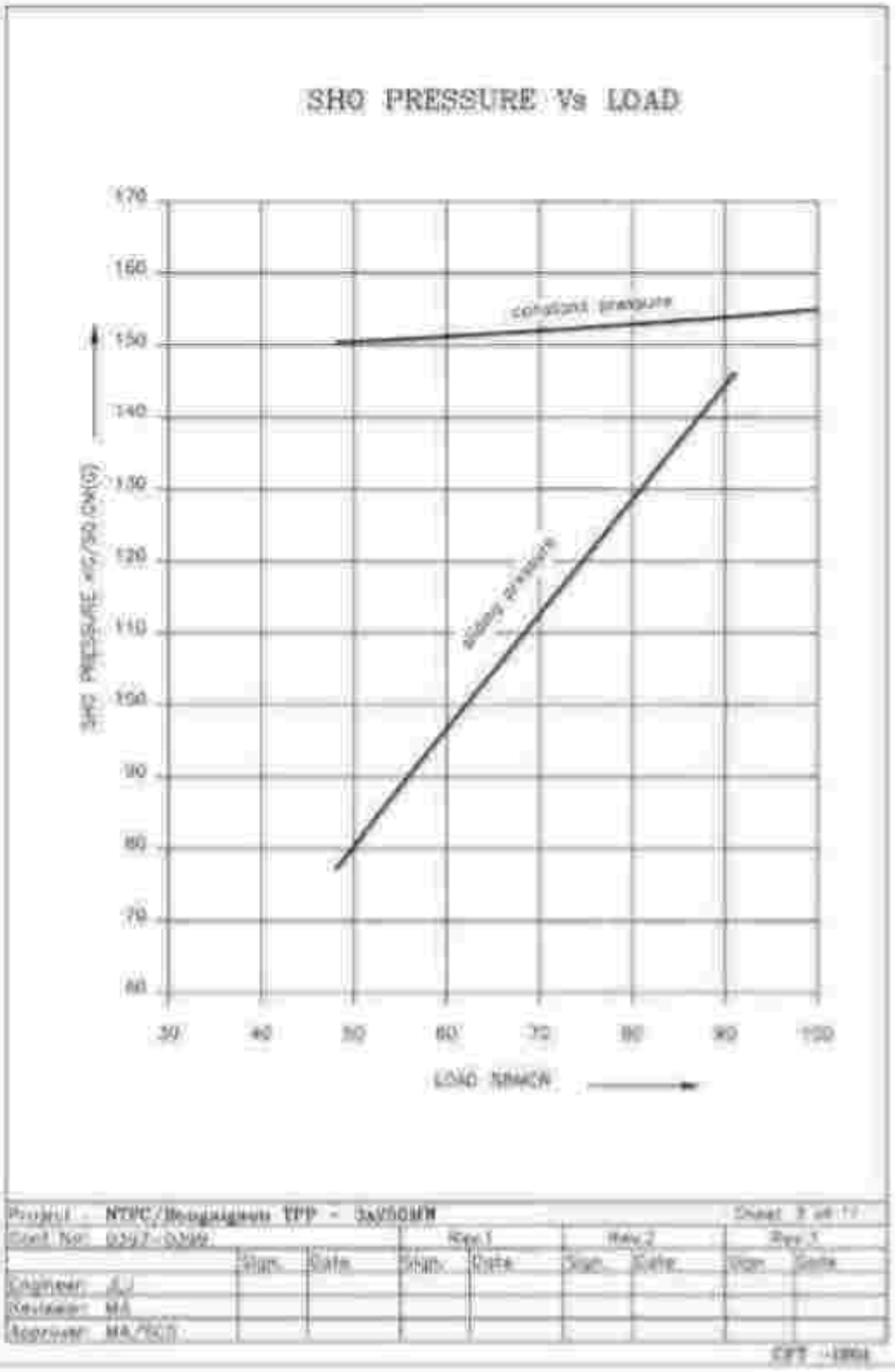
SHQ PRESSURE Vs LOAD
170
160
150
140
130
120
110
100
90
80
70
60
constant pressure
sliding pressure
SHQ PRESSURE KG/SQ CM(G)
30
40
50
60
70
80
90
100
LOAD MWEW
Project : NTPC/Bongaigaon TPP - 3x250MW
Sheet 3 of 11
Doc. No: 0317-0.MW
Rev.1
Rev.2
Rev.3
Sign.
Date
Engineer: JJ
Reviewer: MA
Approver: MA/RCD
CFT - 1994

Lowering Load -Thermal Backing Operation (55 % Operation Training)

State of Plant – Ensure

- M/C on Load.
- SH/RH spray control on auto.
- Drum level control on auto.
- Furnace pressure control on auto.
- Aux. Steam pressure/temp. Control on auto.
- Ensure igniters and oil guns are in position to be operated in case of requirement
- Mill temp. On auto.
- PA control on auto.
- Burner Tilt system are in alignment with all corners
- SADC on auto.
- HFO temp is adequate.
- Six mills are in service.
- AB, CD, EF elevation oil guns are available.
- Burner Tilt operation OK.
- HP /LP bypass on auto.
- EBD is available for operation.
- FRS high range in service and low range is available.
- Fire fighting equipment's are available.
- WW & APH Soot blowing system is available.
- Feed water flow management in lined condition with TDBFP.
- SH/RH Spray Control in auth with Set points.
- TG Governor & LL setting should be proper.

1. Check HP / LP bypass operation is O.K. and again ensure furnace to wind box dP in Auto Mode. Mills outlet Temperature should be in the range of 65 to 80 Deg C for Indian and Imported Coal.
2. Machine is still in CMC mode; reduce the load gradually from graphics from "OPR LOAD SP" Tab.
3. Steam flow will be reduced. Allow the pressure to drop with the reduction in load.
4. Observe the reduction rate of temperature prescribed by the manufacturer for turbine but never exceeding the forced cooling rate of boiler if required to regulate load to maintain MS and HRH temperature constant.
5. Check Throttle Pressure and Actual Pressure for any wide variation difference.
6. Adjust air flow for required O2 % and Monitor CO.
7. Again reduce the load gradually and check the conditions of Boiler and Turbine. Machine is still in CMC operation.

8. Reduce the up to from 210 MW to 125 MW in the step manner with time stamping of load 2 to 5 MW per minute and observe the Critical parameters. Ramp Down rate up to 55% should be such that it should be in the range of 1.0 to 2.0 % (2 to 5 MW per minute) to make stable parameters. In case of wide variation in parameters, lets parameter to be made stable and observe the position of different parameters and let them to stabilize. Boiler flame stability is very important during ramp down or ramp up process. Every moment of time availability and reliability of mills and feeder needs to be ensured.
9. If Machine is old age More than 12-15 years, please ensure
    - Feed flow
    - Air Flow
    - PA Header Flow
    - Furnace Pressure Control
    - Fuel Flow control
    - Check also bypasses operations.
10. Bring out machine from CMC mode around 135-150 MW and manually reduce the load from the CMC graphics from Tab "LOAD REF/LOAD SP.
11. Close the extraction of HP heaters and bring out HP heaters charging and observe the HP heaters.
12. Further reduce the load and reduce the coal firing and gradually bring out one coal mill from service and if required take two mills but support with oil if unit is old.
13. Reduce Coal demand further and still coal master in auto and check further all critical parameters. Change over from TDBFP to MDBFP, if required.
14. Load Operation need fine control for drum level, drum pressure. If at any moments of time, flame disturbed wide fluctuation may be observed in drum. If required support of oil guns to be taken immediately and ensure pair mode and elevation mode should be available at respective elevation.
15. Density difference at lower load with respect to water and steam is very important for stable operation and balanced load profile.
16. Soot blowing at lower load is to be avoided as it make disturbance in the Flame and Furnace draft.
17. Reduction in Turbine load also reflect disturbance in Condenser vacuum, which need to be monitored perfectly.
18. Metal Temperature and Air Pre-heater, SCAPH Temperature needs to be monitored.
19. In case of Disturbance in Load, Control the MS Pressure and Feed water to avoid tripping & Ensure flame stability.
20. For Older Units, Control System and Control Loops Tuning are required. Some Loops and Sub-loops Control Response are slow, which need to be retuned for ramp up and ramp down as per unit operation and Design Specification, Technical documents.

ANNEXURE II

Details of Available Simulators of Thermal Power Plants:

S.No	Name of the Utility	No. of Simulators with Capacity	Location	Supplier
1	NPTI	210/500 MW	Faridabad, Durgapur, Nagpur, Banglore, Shivpuri, Alapuzzha	M/s Emerson
2	KSTPS ,KOTA	01 – 195MW	Kota Super Thermal Power Station (KSTPS), Kota	STEAG ENERGY Pvt. Ltd., Noida, New Delhi
3	SSTPS, Suratgarh	01 – 250 MW	Suratgarh Super Thermal Power Station (SSTPS), Suratgarh, Baran	STEAG ENERGY Pvt. Ltd., Noida, New Delhi
4	Jindal Power Limited , Tamnar ,Raigarh	01 – 600 MW	Jindal Institute of Power Technology, Jindal Power Limited , Tamnar, Raigarh,	BHEL Make Plant – Supplier M/S Honeywell
5	Jindal Power Limited , Tamnar ,Raigarh	01 – 250 MW	Jindal Institute of Power Technology, Jindal Power Limited , Tamnar, Raigarh,	BHEL Make Plant – Supplier M/S Honeywell
6	Jindal Power Limited , Tamnar ,Raigarh	01 – 135 MW	Jindal Institute of Power Technology, Jindal Power Limited , Tamnar, Raigarh,	CFBC boiler – Supplier M/S Emerson
7	Guru Gobind Singh Super Thermal Plant Ropar (PSPCL)	06 – 210MW	Guru Gobind Singh Super Thermal Plant Ropar (PSPCL)	Tri-Angle Simulation Pvt. Ltd. Mumbai.
8	WBPDCL	01- 210MW	Bakreshwar Thermal Plant	GSE Solution
9	TANGEDCO	01 – 800 MW (under 37stablishment)	North Chennai Thermal Power project – III	M/s.- BHEL
10	TANGEDCO	Establishment of Simulators at Thermal Training Institute & Research Centre for 210 MW and 600 MW is under process		

11	CESC Limited	01 – 250MW	Budge Budge Generating Station, Pujali	STEAG Energy Services (India) Pvt. Ltd.
12	GSECL	01 – 500 , 660 , 800MW	Wanakbori Thermal Power Station	BHEL
13	MAHAGENCO	02 – 210MW	Nashik Training Centre	M/s Traingle Simulation Pvt. Ltd , Mumbai
14	MAHAGENCO	01 – 500MW	Nashik Training Centre	BHEL Max DNA Based
15	MAHAGENCO	02 – 660MW	Koradi Training Centre , Nagpur	Steag Energy Services (India) Pvt. Ltd.
16	MAHAGENCO	01 – 500MW	Training Sub Centre , CSTPS	M/s Traingle Simulation Pvt. Ltd , Mumbai
17	APGENCO	04 – 210MW	Traning institute, Dr. NTTPS, APGENCO	M/s BHEL, EDN, Banglore
18	APGENCO	01 – 500 MW	Traning institute, Dr. NTTPS, APGENCO	M/s BHEL, EDN, Banglore
19	APGENCO	01 – 600 MW	Traning institute, Dr. NTTPS, APGENCO	M/s BHEL, EDN, Banglore
20	NTPC LTD	01-500MW 01-250MW	Korba	Emerson Process Management
21	NTPC LTD	01-660MW	Sipat	Yokogawa Ltd
22	NTPC LTD	01-660MW 01-800 MW	Solapur	M/s Steag Ltd
23	TSGENCO	01-500 MW 01-800MW (Installation of LVS Pending in 800 MW Simulator)	CETD, Adm. Building KTPS-VI, Paloncha, Kothagudem	M/s BHEL, EDN, Banglore

ANNEXURE III

NTPC Group Coal Station Details: Operating at 55% MTL

S.No	NTPC Coal Stations	State	Installed Capacity (MW)
1	Singrauli	Uttar Pradesh	2000
2	Rihand	Uttar Pradesh	3000
3	Unchahar	Uttar Pradesh	1550
4	Tanda	Uttar Pradesh	1760
5	Dadri coal	Uttar Pradesh	1820
6	Mouda	Maharashtra	2320
7	Korba	Chhattisgarh	2600
8	Vindhyachal	Madhya Pradesh	4760
9	Sipat	Chhattisgarh	2980
10	Ramagundam	Telangana	2600
11	Simhadri	Andhra Pradesh	2000
12	Farakka	West Bengal	2100
13	Kahalgaon	Bihar	2340
14	Barh	Bihar	1980
15	Talcher kaniha	Odisha	3000
16	Bongaigaon	Assam	750
17	Kudgi	Karnataka	2400
18	Solapur	Maharashtra	1320
19	Gadarwara	Madhya Pradesh	1600
20	Lara	Chhattisgarh	1600
21	Barauni	Bihar	720
22	Darlipalli	Odisha	1600
23	Khargone	Madhya Pradesh	1320
	NTPC COAL		**48120**

JV and Subsidiaries

1	Bhilai PP III	Chhattisgarh	500
2	Kanti	Bihar	390
3	Jhajjar	Haryana	1500
4	Vallur	Tamilnadu	1500
5	BRBCL	Bihar	1000
6	NPGCL	Bihar	1980
7	Meja	Uttar Pradesh	1320
			8190
	TOTAL NTPC GROUP		**56310**

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Location: NTPC Limited

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Annexure-10-D/2

CENTRAL ELECTRICITY AUTHORITY

NOTIFICATION

New Delhi, the 23rd December, 2022

CEA-TH-17/1/2021-TETD Division.–Whereas the draft of the Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022 was published in six newspaper dailies, as required by sub-section (1) of section 177 of the Electricity Act, 2003 (36 of 2003) read with sub-rule (2) of rule 3 of the Electricity (Procedure for Previous Publication) Rules, 2005, inviting objections and suggestions from all persons likely to be affected thereby, before the expiry of the period of forty-seven days from the date on which the copies of the newspaper containing the said draft regulations were made available to the public;

And whereas copies of the said newspapers containing the public notices and the said draft regulations on the website of the Central Electricity Authority were made available to the public on the 30th December, 2021;

And whereas the objections and suggestions received from the public on the said draft regulations were considered by the Central Electricity Authority;

Now, therefore, in exercise of the powers conferred by clause (a) of sub-section (2) of section 177 of the Electricity Act, 2003 (36 of 2003) read with clause (b) of section 73 of the said Act, the Central Electricity Authority hereby makes the following regulations, namely:–

CHAPTER 1

1. **Short title, commencement and applicability.**–(1) These regulations may be called the Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022.

   (2) Applicability.–These regulations shall apply to generating companies, transmission licensees, distribution licensees, Central Transmission Utility, State Transmission Utilities.

   (3) They shall come into force on the date of their publication in the Official Gazette.

2. **Definitions**–(1) In these regulations, unless the context otherwise requires,

   (a) "Act" means the Electricity Act, 2003;

   (b) "Authority" means the Central Electricity Authority established under sub-section (2) of Section 70 of the Act;

   (c) "Automatic voltage regulator" means a continuously acting automatic excitation control system to regulate a generating unit terminal Voltage;

   (d) "Autotransformer" means a power transformer in which at least two windings have common section;

   (e) "Base load operation" means operation at maximum continuous rating or its high fraction;

   (f) "Basic insulation level" means reference voltage level expressed in peak voltage with standard 1.2/50 μs lightning impulse wave. Apparatus shall be capable of withstanding test wave of basic insulation level or higher;

   (g) "Black start" means the starting of a generating unit or gas turbine or internal combustion engine based generating set without use of external power following grid failure;

   (h) "Boiler maximum continuous rating" means the maximum steam output, the steam generator can deliver continuously at rated parameters;

   (i) "Break time" means interval of time between the beginning of the opening of a switching device and the end of the arcing;

   (j) "Cold start", in relation to steam turbine, means start up after a shutdown period exceeding seventy two hours (turbine metal temperatures below approximately forty percent of their full load values);

   (k) "Combined cycle gas turbine module" means gas turbine generator, associated heat recovery steam generators and steam turbine generator;

   (l) "Control load", in relation to coal or lignite based thermal generating units, means the lowest load at which the rated steam temperature can be maintained under auto control system;

   (m) "Design head" means the net head at which peak efficiency of hydraulic turbine is attained while operating at rated output;

   (n) "Generator transformer" means power transformer employed to step up generator voltage to connected bus voltage;

   (o) "Gross head" means the difference in elevation between the water levels of upstream and downstream, the center line of the turbine runner in case of Pelton turbine and tail race water level [illegible]

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(b) Circuit breakers, isolators, fuses, insulators, CTs and PTs (potential transformers);

(c) Busbars and insulators.

(2) Switchyard structures shall be made of fabricated steel, reinforced cement concrete or pre-stressed concrete, rail or rolled steel joist depending on technical and economic considerations.

(3) The structures shall be able to withstand tension of conductors and load of the equipment and accessories without guys or stays.

(4) The steel structures shall be hot dip galvanized or painted.

(5) In highly polluted and corrosive atmospheric conditions galvanised structures with paint shall be used.

(6) Adequate muffing above the ground level shall be provided to avoid water accumulation near the structures.

58. **Insulators.** - (1) The insulators shall comply with relevant IS.

(2) The station design shall be such that number of insulators is minimum but at the same time reliability of supply is ensured.

(3) Suitable expansion shall be provided to accommodate conductor expansion and contraction and there shall not be any undue stress on any part or equipment due to temperature change.

(4) The minimum creepage distances for different pollution levels shall be as per Regulation 45.

(5) The post insulators shall be of pedestal type or Solid Core Station type.

(6) In the areas where problem of insulator pollution is expected (such as near sea or thermal power station, railway station, industrial area, etc.) special insulators viz. semi conducting glazed porcelain or polymer insulators with higher leakage resistance and creepage distance shall be used to minimize the flashover.

(7) The special coating like Room Temperature Vulcanized coating may also be used on the insulators in polluted areas as per requirement.

59. **Circuit Breakers.** - (1) Circuit breakers shall comply with the relevant IS and shall be SF_6 or vacuum type.

(2) The rated voltage of the circuit breakers shall be as per highest system voltage.

(3) Rated short time current rating of 33 kV circuit breakers shall not be less than 25 kA for one second and for 22 kV or 11 kV CBs shall not be less than 16 kA for one second.

(4) The operating mechanism of circuit breakers shall be motor operated spring charged type or magnetic actuator type.

(5) The circuit breaker shall be provided with anti-pumping and trip free features.

(6) The indoor circuit breakers shall be metal clad, either fixed type or draw out type.

(7) The rated rupturing capacity of the circuit breaker to be installed at any new sub-station shall be at least 25% higher than the calculated maximum fault level at the bus to take care of the increase in short circuit levels as the system grows.

60. **Isolators and Earthing Switches.** - (1) The isolators shall be as per capacity of substation and shall comply with relevant IS.

(2) The operating mechanism for the isolators and the controlling circuit breaker shall be interlocked so that the isolators cannot be opened unless the corresponding breakers are in open position.

(3) Earthing switches shall be provided at various locations to facilitate maintenance.

(4) Main blades and earth blades of earthing switches shall be interlocked, both electrically and mechanically.

(5) Earthing switches shall be motor operated as well as suitable for manual operation and only local operation is recommended for earth switches.

61. **Control and Relay Panels.** - (1) The control and relay panels shall confirm to relevant IS.

(2) The panel shall be provided with:

(a) Numerical over current and earth fault relays conforming to relevant IS.

(b) Measuring instruments such as ammeter, voltmeter and energy meter for 33 kV, 22 kV and 11 kV systems.

(c) Mimic diagram or Bay control unit (BCU).

(d) Annunciation, alarms and trip facilities.

62. **Surge Arrestor.** - (1) Distribution class, gapless metal oxide (ZnO) type surge arresters conforming to

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केन्द्रीय विद्युत विनियामक आयोग
CENTRAL ELECTRICITY REGULATORY COMMISSION

नई दिल्ली
NEW DELHI

./Petition No.: 319/RC/2018

/Coram:

. के. पुजारी,	/Shri P. K. Pujari, Chairperson
डॉ. एम. के. अय्यर,	/ Dr. M.K. Iyer, Member
आई. एस. झा,	/ Sh. I.S. Jha, Member

आदेश दिनांक /Date of Order: 28th of August, 2019

IN THE MATTER OF

Automatic Generation Control (AGC) implementation in India

AND

IN THE MATTER OF

National Load Despatch Centre
Power System Operation Corporation Ltd.
(A Government of India Enterprise) B-9,
Qutab Institutional Area, Katwaria Sarai
New Delhi-110016

...Petitioner

VERSUS

1. NTPC Limited,
   Plot No A-8A,
   Sector-24, Noida,
   Uttar Pradesh, India- 201301

2. NHPC Limited,
   N.H.P.C Office Complex,
   Sector-33, Faridabad – 121003, Haryana

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Location: NTPC Dadri

3. Central Transmission Utility,
Saudamini, Plot No. 2,
Sector-29, Gurgaon-122 001 (Haryana)

4. SJVN, Shakti Sadan,
SJVN Corporate Office Complex, Shanan-171006

5. THDC INDIA LIMITED, Corporate Office,
Rishikesh, Pragatipuram, By Pass Road,
Rishikesh – 249201, Uttrakhand

6. Aravali Power Company Private Ltd.,
Indira Gandhi Super Thermal Power Station (IGSTPS),
Jharli, District Jhajjar, Haryana-124141

7. N T E C L Vallur Thermal Power Project,
P.O.: Vellivoyal Chavadi,
Ponneri Taluk, Tiruvallur Dist, Chennai- 600 103

8. NLC India Limited,
Block - 1, Neyveli - 607 801,
Cuddalore District, Tamilnadu

9. NTPC-SAIL Power Company Limited –
Corporate Centre, 4th Floor, Nbcc Tower,
15 Bhikaiji Cama Place, New Delhi, Delhi – 110066

10. Coastal Gujarat Power Ltd.
Tata Power Co. Ltd., Backbay Rec Station,
148, Lt. Gen. J Bhonsle Marg,
Nariman Point, Mumbai 400 021

11. Sasan Power Limited,
Reliance Centre, Near Prabhat Colony,
Off Western Express Highway,
Santacruz East, Mumbai – 400055, Mumbai

12. Ratnagiri Gas and Power Pvt. Ltd.,
Registered Office, NTPC Bhawan,
Core-7, SCOPE Complex,
7, Institutional Area, Lodi Road,
New Delhi-110003, India

13. North Eastern Electric Power Corporation Ltd,
Brookland Compound, Lower New Colony,
Shillong-793003, Meghalaya, India

14. ONGC Tripura Power Company Ltd.
6th Floor, A Wing, IFCI Towers, 61,
Nehru Place, New Delhi – 110019

15. Bharatiya Rail Bijlee Company Ltd.
Nabinagar,Khera Police Station
Dist.-Aurangabad, Bihar-824303

Northern Region

16. Delhi Transco Limited,
33kV, Sub Station Building,
Minto Road, New Delhi -110002.

17. Haryana Vidyut Prasaran Nigam Limited,
XEN/LD & PC, SLDC Complex,
Sewah Panipat -132103.

18. Himachal Pradesh State Electricity Board,
HP Load Despatch Society,
SLDC complex, Totu,
Shimla -171011.

19. Jammu & Kashmir Power Development Department,
SLDC Building,
220 kV Grid Station Narwal,
Jammu -180007.

20. Punjab State Transmission Corporation Limited,
Ablowal, Patiala, SLDC Building,
Near 220KV Grid Substation,
PSTCL, Ablowal,
Patiala -147001

21. Rajasthan Rajya Vidyut Prasaran Nigam Limited,
State Load Despatch Centre,
Rajasthan Rajya Vidyut Prasaran Nigam Limited,
Ajmer Road, Heerapura,
Jaipur -302024.

22. Uttar Pradesh Power Transmission Corporation Limited,
Power System,5th Floor,
Shakti Bhawan,14 Ashok Marg,
Lucknow -226001

23. Power Transmission Corporation of Uttarakhand Limited,
400 KV Substation,
Veerbhadra, Rishikesh -249202

24. General Manager,
Singrauli Super Thermal Power Station,
Shakti Nagar, UP-231222

25. General Manager,
Singrauli Solar PV Power Project,
Shakti Nagar, UP-231222

26. General Manager,
Singrauli Small Hydro Power Project,
Shakti Nagar, UP-231222

27. General Manager,
Rihand Super Thermal Power Station-I,
Rihand Nagar, UP-231223

28. General Manager,
Rihand Super Thermal Power Station-II,
Rihand Nagar, UP-231223

29. General Manager,
Rihand Super Thermal Power Station-III,
NTPC Rihand, Dist-Sonbhadra,
UP - 231223

30. General Manager,
Dadri, National Capital Power Project,
Dadri Dhaulana Road,
Distt. Gautam Buddh Nagar,
UP-201008

31. General Manager,
Dadri – Stage - II,
National Capital Power Project,
Dadri Dhaulana Road,
Distt. Gautam Buddh Nagar,
UP-201008

32. General Manager,
Firoz Gandhi Unchahar Thermal Power Project-I,
Unchahar, Distt. Rae bareilly,
UP

33. General Manager,
Firoz Gandhi Unchahar Thermal Power Project-II,
Unchahar, Distt. Raibareilly,
UP

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Location: NTPC Limited

34. General Manager,
Firoz Gandhi Unchahar Thermal Power Project-III,
Unchahar, Distt. Raibareilly,
UP

35. General Manager,
Firoz Gandhi Unchahar Thermal Power Project-IV,
P.O. Unchahar, Dist. : Raibareilly (U.P.) Pin-229406

36. General Manager,
Firoz Gandhi Unchahar Solar PV Power Project,
Unchahar, Distt. Raibareilly, UP

37. General Manager,
Dadri Gas Power Project,
Dhaulana Road, Distt.
Gautam Buddh Nagar,
UP-201008

38. General Manager,
Dadri Solar PV Power Project,
Dhaulana Road, Distt.
Gautam Buddh Nagar,
UP-201008

39. General Manager,
Auraiya Gas Power Project(Gas Fired, RLNG Fired, Liquid Fired),
Dibiyapur, Distt Etawah,
UP-206244

40. General Manager,
Anta Gas Power Project (Gas Fired, RLNG Fired, Liquid Fired),
Distt. Baran,
Rajasthan-325209

41. General Manager, Koldam HPP, NTPC,
Post- Barman, Dist- Bilaspur,
Himachal Pradesh 174013

42. Station Director,
Narora Atomic Power Station,
Narora, Distt. Bulandshahar,
UP-202389

43. Station Director,
Rajasthan Atomic Power Station-B,
Anu Shakti Vihar, Kota,
Rajasthan-323303

44. Station Director,
Rajasthan Atomic Power Station-C, (RAPS-5&6)
PO-Anushakti, Kota,
Rajasthan-323304

45. General Manager,
Bairasiul Hydro Electric Project,
NHPC Ltd., Surangini,
Distt. Chamba, HP-176317

46. General Manager,
Salal Hydro Electric Project,
NHPC Ltd,
Jyotipuram, Distt. Udhampur,
J&K-182312

47. General Manager,
Tanakpur Hydro Electric Project,
NHPC Ltd.,
Banbassa, Distt. Champawa,
Uttrakhand-262310

48. General Manager,
Chamera-I Hydro Electric Project,
NHPC Ltd.,
Khari, Distt.
Chamba, HP-176310

49. General Manager,
Uri Hydro Electric Project,
NHPC Ltd.,
Mohra, Distt. Baramulla,
J&K-193122

50. General Manager,
Chamera-II Hydro Electric Project,
NHPC Ltd.,
Karian, Distt. Chamba,
HP-176310

51. General Manager,
Chamera-III Hydro Electric Project,
NHPC Ltd., Dharwala, Distt - Chamba,
HP-176311

52. General Manager,
Dhauliganga Hydro Electric Project,
NHPC Ltd., Tapovan, Dharchula, Pithoragarh,
Uttrakhand-262545

53. General Manager,
Dulhasti Hydro Electric Project,
NHPC Ltd.,
Chenab Nagar, Distt. Kishtwar,
J&K-182206

54. General Manager,
Uri 2 Hydro Electric Project, NHPC Ltd.,
Nowpura, Distt. Baramulla, J&K-193123

55. General Manager,
Parbati HE Project Stage-III Behali,
P.O- Larji Kullu 175122 Himachal Pradesh

56. Chief Engineer,
Sewa-II Power Station,
NHPC Ltd. Mashke; post Bag no-2,
P.O-Khari, Dist- Kathua, Jammu and Kasmir -176325

57. The Chief Engineer (Electrical),
Kishanganga HEP,
Office cum Residential colony, Kralpora,
Distt: Bandipora, Jammu and Kashmir-193502

58. Chief Engineer (Elect.),
Parbati-II HEP, Electrical & Mechanical complex,
Sainj, Distt. Kullu, Himachal Pradesh -175134

59. General Manager,
Naptha Jhakhri HEP,
Satluj Jal Vidyut Nigam Ltd. Power Project,
Jhakri, Rampur, Distt. Shimla, HP-172201

60. General Manager,
Rampur HEP,
Satluj Jal Vidyut Nigam Ltd. Power Project,
Jhakri, Rampur, Distt. Shimla, HP-172201

61. General Manager,
Tehri Hydro Development Corporation Ltd.,
Pragatipuram, Rishikesh,
Uttrakhand-249201

62. General Manager,
Koteshwar HEP, THDCIL, Koteshwerpuram,
Post Office- Pokhari Tehri Garwal, Uttarakhand - 249146

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63. Director (Power Regulation),
Bhakra Power House, SLDC Complex,
66 KV Substation, Industrial Area Phase-I,
Madhya Marg, BBMB Chandigarh

64. General Manager, ADHPL,
Village- Prini, PO -Jagat Sukh,
Tehsil - Manali, Distt- Kullu (H.P) India.

65. General Manager,
Indra Gandhi Super Thermal Power Project,
PO -Jharli, Tahsil Matanhail, Dist – Jhajjar, (Haryana)-124125

66. General Manager,
Karcham Wangtoo HEP,
Himachal Baspa Power Company Limited,
Sholtu Colony, PO- Tapti, Dist-Kinnaur, -172104 (HP)

67. Director,
Malana - II Everest Power Pvt. Ltd,
Hall-A/ First Floor Plot No-143-144,
Udyog Vihar, Phase -4, Gurgaon, Haryana 122015

68. Company Secretary,
Shree Cement Thermal Power Project Bangurnagar,
Beawar , Dist Ajmer, Rajasthan -305901

69. Company Secretary,
Greenco Budhil HPS Ltd,
Plot No. 1367 Road No- 45,
Jubilee Hills, Hyderabad- 500033

70. Project General Manager,
Himachal Sorang Power Limited, D-7,
Lane-I, Sector-I, New Shimla, Shimla, H.P.-171009.

71. General Manager,
Sainj HEP, HPPCL, Larji,
Distric - Kullu, Himachal Pradesh, 175122

Western Region

72. MSLDC,
Airoli, Navi Mumbai, Airoli,
Thane - Belapur Road, Navi Mumbai-400708

73. State Load Despatch Centre,
MPPTCL, Jabalpur,
O/o Chief Engineer (SLDC), MPPTCL, Nayagaon, Jabalpur

74. SLDC Gotri Vadodara,
Gujarat, 132kV Gotri s/s compound,
Opposite Kalpvrux Complex,
Gotri Road,
Vadodara

75. Chhattisgarh State Load Despatch Centre,
C.E(LD), State Load Despatch Centre,
CSPTCL, Duganiya-HQ,
Raipur, Chhattisgarh

76. General Manager, Korba STPS STG (I& II),
National Thermal Power Corporation,
P.O. Vikas Bhavan, Jamnipali,
Korba(Distt.),
Chhattisgarh- 495 450.

77. General Manager,
Korba STPS STG (III),
National Thermal Power Corporation,
P.O. Vikas Bhavan, Jamnipali,
Korba(Dist),
Chhattisgarh- 495 450.

78. General Manager,
STAGE-I, Vindhyachal STPS,
National Thermal Power Corporation of India Ltd,
P O Vindhyanagar, Sidhi(Dist),
Madhya Pradesh – 486 885

79. General Manager,
STAGE-II, Vindhyachal STPS,
National Thermal Power Corporation of India Ltd,
P O Vindhyanagar, Sidhi(Dist),
Madhya Pradesh – 486 885

80. General Manager,
STAGE-III, Vindhyachal STPS,
National Thermal Power Corporation of India Ltd,
P O Vindhyanagar, Sidhi(Dist),
Madhya Pradesh – 486 885

81. General Manager,
STAGE-IV, Vindhyachal STPS,
National Thermal Power Corporation of India Ltd,
P O Vindhyanagar, Sidhi(Distt.),
Madhya Pradesh – 486 885

82. General Manager,
Kawas Gas Power Project,
National Thermal Power Corporation of India Ltd.
P.O. Aditya Nagar,
Surat- 394 516

83. General Manager,
Gandhar Gas Power Project,
National Thermal Power Corporation of India Ltd.
P.O. NTPC Township, Bharuch(Distt.),
Gujarat- 392 215

84. General Manager,
SIPAT TPS Stg-I,
National Thermal Power Corporation of India Ltd.
SIPAT, Chhattisgarh.

85. General Manager,
SIPAT TPS Stg-II,
National Thermal Power Corporation of India Ltd.
SIPAT, Chhattisgarh.

86. General Manager,
Mouda STPP,
NTPC Ltd,
Mouda Ramtek Road,
P.O.Mouda, Nagpur (Dist),
Maharashtra

87. General Manager ,
2 X 135 MW Kasaipali Thermal Power Project
ACB (India) Ltd.
District - Korba
Chhattisgarh Chakabura 495445

88. General Manager,
Bharat Aluminium Co. Ltd,
Captive Power plant-II,
BALCO Nagar Chhattisgarh, Korba 495 684

89. Executive Director,
Costal Gujarat Power Ltd,
Tunda Vandh Road, Tunda Village, Mundra,
Gujarat Kutch 370435

90. Executive Director,
DB Power,
Village – Baradarha, Post - Kanwali,
Dist - Janjgir, Champa, Chhattisgarh Baradarha 495695

91. Executive Director,
Jindal Power Ltd. Stg-I,
OP Jindal STPP, PO-Tamnar,
Gjarghoda Tehsil,
Chhattisgarh District - Raigarh, 496107

92. Executive Director,
Jindal Power Ltd. Stg-II,
OP Jindal STPP,
PO-Tamnar,
Gjarghoda Tehsil,
Chhattisgarh District - Raigarh, 496107

93. Executive Director,
Plot No Z-9,
Dahej SEZ Area (Eastern side),
Dahej, Taluka-Vagra, Gujarat Dist-Bharuch, 392130

94. Executive Director,
EMCO Power Ltd,
Plot No B-1, Mohabala MIDC Growth Center
Post Tehsil - Warora, Dist Chandrapur-Maharashtra 442907

95. Executive Director,
ESSAR POWER MP LTD
Village Bandhora,
Post Karsualal, Tehsil Mada,
Distt. Singrauli, Madhya Pradesh-486886

96. General Manager,
GMR CHHATTISGARH ENERGY LTD
Skip House, 25/1, Museum Road
Karnataka Banglore 560025

97. Managing Director,
Jaypee Nigri Super Thermal Power Project,
Nigri District, Madhya Pradesh
Singrauli 486668

98. Executive Director,
DCPP, OP Jindal STPP,
PO-Tamnar, Gjarghoda Tehsil,
Chhattisgarh District - Raigarh, 496107

99. Station Director,
Nuclear Power Corporation of India ltd,
Kakrapara Atomic Power Station,
PO - via Vyara, Gujarat Dist - Surat 395651

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Date: [illegible]
Location: NTPC [illegible]

100. Station Director,
Tarapur Atomic Power Station 1&2,
Nuclear Power Corporation of India Ltd,
P.O. TAPP, Thane(Dist),
Maharashtra- 401 504

101. Station Director,
Tarapur Atomic Power Station 3&4,
Nuclear Power Corporation of India Ltd,
P.O. TAPP, Thane (Distt.),
Maharashtra- 401 504

102. Managing Director,
Korba West Power Co. Ltd.,
Village – Chhote Bhandar,
P.O. - Bade Bhnadar,
Tehsil - Pussore,
District - Raigarh,
Chhattisgarh Raigarh 496100

103. Managing Director,
KSK Mahanadhi,
8-2-293/82/A/431/A, Road No 22 Jubilee Hills
Andhra Pradesh Hyderabad 500033

104. General Manager,
LANCO Power Ltd,
Plot No - 397, Phase -III, Udyog Vihar, Haryana
Gurgaon 122016

105. General Manager,
NTPC-SAIL Power Company Private Ltd,
Purameta Village, Chhattisgarh Dist - Durg,
Bhilai 490021

106. General Manager,
Ratnagiri Gas & Power Pvt Ltd,
2nd Floor, Block-2, IGL Complex,
Sector-126, Expressway, Uttar Pradesh
Noida 201304

107. Managing Director,
Sasan Power Ltd,
DAKC, I Block, 2nd Floor, North Wing,
Thane Belapur Road, Koparkhairana Maharashtra
New Mumbai 400710

108. Managing Director,
Vandana Vidyut Bhavan,
M. G. Road
Chhattisgarh Raipur 492001

109. Managing Director,
RAPP Transmission Company Limited,
Mira Corporate Suites,
1&2 Ishwar Nagar,
Okhla crossing,
Mathura road,
New Delhi, 110065

110. General Manager,
LARA,
National Thermal Power Corporation of India Ltd,
Chappora, PO-Pussora,
Raigarh, Chhattisgarh.

111. General Manager,
Solapur,
National Thermal Power Corporation of India Ltd,
Western Region HQ,
Samruddhi Venture Park,
2nd Floor, MIDC Marol,
Andheri East, Mumbai,
Maharashtra

Eastern Region

112. State Load Despatch Center,
GRIDCO Colony
PO-Mancheswar Railway Colony,
BBSR Bhubaneshwar -751070

113. State Load Despatch Center,
Jharkhand State Electricity Board (JSEB)
Kushai Colony, Doranda,
Ranchi-834002

114. SLDC-BSEB,
Patna, Bihar State Electricity Board,
Vidyut Bhawan, Jawaharlal Nehru Marg,
Patna-800021

115. SLDC-W.Bengal,
P.O. Danesh Seikh Lane,
Andul Road
Howrah – 711109

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116. Damodar Valley Corporation,
DVC Tower,
VIP Road, Kolkata,
WB 700054

117. Energy and Power Deptt.,
Govt. of Sikkim
Kazi Road,
Gangtok 737 201

118. General Manager,
Farakka Super Thermal Power Plant-I&II,
NTPC Ltd.,
Farakka, WB 742236

119. General Manager,
Farakka Super Thermal Power Plant-III,
NTPC Ltd.,
Farakka, WB 742236

120. General Manager,
Kahalgaon Super Thermal Power Plant-I NTPC Ltd,
Bhagalpur Bihar 813214

121. General Manager,
Kahalgaon Super Thermal Power Plant-II NTPC Ltd,
Bhagalpur Bihar 813214

122. Executive Director,
Talcher Super Thermal Power Stn-I NTPC Ltd,
Nayapalli, Odisha 751012

123. Addl. General Manager,
National Thermal Power Corporation Limited,
BARH Thermal Power Station, Patna, Bihar 803213

124. GM(O&M),
Kanti Bijlee Utpadan Nigam Limited
Muzaffarpur Thermal Power Station Bihar Muzaffarpur 843110.

125. The General Manager(O&M),
Bharatiya Rail Bijlee Company Ltd.
Nabinagar,Khera Police Station Dist.-Aurangabad, Bihar-824303

126. General Manager (O&M),
Darlipali Super Thermal Power Project NTPC Ltd.
Odisha Darlipali,Sundergarh 770072 (upcoming)

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Reason: Self Attestation
Location: NTPC Limited

127. Chairman, Damodar Valley Corporation
DVC Tower, VIP Road West Bengal Kolkata 700054
(Not an ISGS but have many generating units)

128. Chief Engineer (Elect),
Teesta V HEP,
NHPC,
Singtam, East Sikkim 737134

129. Chief Engineer,
Rangit Hydro Electric Project NHPC,
P.O. Rangit Nagar
South Sikkim 737111

130. CEO,
Maithon Power Limited
MA-5 Gogna Colony,
P.O: Maithon, Dhanbad,
Jharkhand 828027

131. DGM (Electrical), Adhunik Power & Natural Resource Limited
Village: Padampur, PS: Kandra Tata-Seraikela Road,
Jharkhand 832105

132. GM (Power Sales & Regulatory),
GMR Kamalanga Energy Ltd,
Plot No -29, Satyanagar,
Bhubaneswar, Odissa-751007

133. Head Power & Sales,
Jindal India Thermal Power Ltd.,
Plot No 12,Local Shopping Complex,
Sector-B1,Vasant Kunj, New Delhi- 110070

134. Advisor(Power),
Ind-Barath Energy Utkal Ltd.,
Sahajbahal, PO CgarpaliBarpali,
Dist - Jharsuguda, Odisha , Pin – 768211

135. GM(C & RA),
Odisha Power Generation Corporation Ltd.,
Zone-A, 7th Floor, Fortuna Towers,
Chandrashekharpur, Odisha Bhubanneswar 751023. (Upcoming)

136. Sr Vice President(O&M),
Teesta Urja Ltd.(Teesta -III HEP)
Vijaya Building, 2nd Floor, 17 Barakhamba Road
New Delhi New Delhi 110001

137. Asst. General Manager ,
DANS ENERGY PVT. LTD.
5th Floor, DLF Building No. 8,
Tower C, DLF Cyber City, Phase – II,
Gurgaon- 122002, Haryana

138. Chairman,
GATI Infrastructure Ltd,
268, UdyogVihar,
Phase-IV, Gurgaon,
Haryana 122001

139. President –Technical,
Shiga Energy Private Ltd.
5th Floor, DLF Building No.8,
Tower C, Phase-II, Haryana Gurgaon 122002

140. VP (Commercial),
Sneha Kinetic Power Project Private Ltd
1366, Road no. 45, Jubilee Hills
Telangana Hyderabad 500033

Southern Region

141. Andhra Pradesh State Load Dispatch Centre,
Room No. 611, 6th Floor, A Block APTRANSCO,
Vidyut Soudha, Khairatabad

142. State Load Despatch Centre,
KPTCL, 28, Race course Cross Road,
Bangalore -560009

143. State Load Despatch Centre, Kalamassery,
Executive Engineer O/o Chief Engineer, (Transmission),
System Operation, Kalamassery-683503

144. System Control Centre,
Electricity Department, Puducherry,
137, Nethaji Subhash Chandra Bose Salai,
Electricity Department-605001

145. TANTRANSCO, SLDC, MLDC
Block, 144 Anna Salai, Chennai-600002

146. Telangana SLDC, Chief Engineer,
Room No 611 A Block,
SLDC of the State of Telangana (TSSLDC),
TSTRANSCO, Vidyut Soudha,
Khairtabad, Hyderabad-500082

147. General Manager,
National Thermal Power Corporation Ltd.,
SR Headquarters II & V Floors,
MCH Complex,
R.P. Road, Secunderabad-500 003.

148. General Manager,
National Thermal Power Corporation Ltd.,
SR Headquarters II & V Floors,
MCH Complex,
R.P.Road, Secunderabad-500 003.

149. General Manager,
Neyveli Lignite Corporation Ltd.,
Corporate Office, Block-01,
P.O. Neyveli, PIN: 607 801,
Cuddalore Distt., Tamil Nadu State.

150. The Deputy General Manager,
Neyveli Lignite Corporation Ltd.,
Corporate Office, Block-01,
P.O. Neyveli, PIN: 607 801,
Cuddalore Dist., Tamil Nadu State.

151. The Deputy General Manager,
Neyveli Lignite Corporation Ltd.,
Corporate Office, Block-01,
P.O.Neyveli, PIN: 607 801,
Cuddalore Dist., Tamil Nadu State.

152. The Deputy General Manager,
Neyveli Lignite Corporation Ltd.,
Corporate Office, Block-01,
P.O.Neyveli, PIN: 607 801,
Cuddalore Dist., Tamil Nadu State.

153. The Station Director,
Madras Atomic Power Station,
Nuclear Power Corpn. Of India Ltd.,
Kalpakkam – 603 102, Tamil Nadu State

154. The Deputy General Manager,
Kaiga Generating Station,
Nuclear Power Corpn. of India Ltd.,
P.O.Kaiga, Via Karwar,
Karnataka - 581400 , Karnataka State.

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155. The Station Director,
Kudankulam Nuclear Power Project, Unit -1
Nuclear Power Corporation of India Ltd.,
P.O. Kudankulam, Radhapuram Taluk Tirunelveli District,
Tamil Nadu - 627 106

156. The Station Director,
Kudankulam Nuclear Power Project, Unit -2
Nuclear Power Corporation of India Ltd.,
P.O. Kudankulam, Radhapuram Taluk Tirunelveli District,
Tamil Nadu - 627 106

157. The Chief Operating Officer,
LANCO- Kondapalli Power Ltd., Stage-II
Plot No.4, Software Units Layout,
Hitech City, Madhapur,
Hyderabad-500 081. Andhra Pradesh State

158. The Chief Operating Officer,
LANCO- Kondapalli Power Ltd., Stage-III
Plot No.4, Software Units Layout,
Hitech City, Madhapur,
Hyderabad-500 081. Andhra Pradesh State

159. General Manager (O&M),
NTPC Tamilnadu Energy Company Ltd.,
Vallur Thermal Power Project,
Vellivoyalchavadi P.O.,
Ponneri Taluk, Tiruvallur Dist.,
Chennai – 600103, Tamil Nadu State.

160. Sr. Vice President,
Meenakshi Energy Pvt. Ltd.,
Meenakshi, Plot No: 119,
Road No: 10, Jubliee Hills,
Hyderabad-500 033.

161. The Chief Executive Officer,
NLC Tamil nadu Limited,
2*500, MW JV Thermal Power Project,
Harbour Estate,
Tuticorin, PIN: 628004, Tamil Nadu State.

162. Thermal Power Tech Corporation India Limited,
SPSR Nellore, 6-3-1090,
A-Block, 5th Floor, TSR Towers,
Raj Bhavan Road, Somajiguda,
Hyderabad, 5000082.

163. Sr. Vice President,
Meenakshi Energy Pvt. Ltd.,
Meenakshi, Plot No: 119,
Road No: 10, Jubilee Hills,
Hyderabad-500 033.

164. The General Manager (Projects),
Simhapuri Energy Pvt. Ltd.,
Madhucon Greenlands, 6-3-866/2,
3rd Floor, Begumpet,
Hyderabad-500016.

165. Managing Director,
Coastal Energen Pvt. Ltd.,
7th Floor, Buhari Towers,
4 ,Moores Road,
Chennai, PIN: 600006, Tamil Nadu State

166. The Chief Commercial Officer (CCO)
SEMBCORP Energy India Ltd.,
6-3-1090, A-Block, 5th Floor,
T.S.R Towers, Raj Bhavan Road,
Somajiguda, Hyderabad 500082, Telangana

167. Senior General Manager,
IL & FS Tamilnadu Power Company limited,
C. Pudhupettai post,
Parangipettai (via), Chidambaram(tk.),
Cuddalore-608502, Tamil Nadu.

168. General Manager,
Sembcorp Gayatri Power Ltd.,
TP Gudur Mandal,
Nellore-524344, Andhra Pradesh.

North Eastern Region

169. State Load Despatch Centre,
Agartala, 79 Tilla, Kunjaban, Agartala,
Tripura (West)

170. Department of Power,
Government of Nagaland, SLDC Nagaland,
Electricity Colony,
Full Nagarjan Dimapur, Nagaland

171. Mizoram State Load Despatch Centre,
Tuikhuahtlang, Aizawl - 796001

172. State Load Despatch Centre,
Assam, SLDC, AEGCL,
Near 132kv Grid Sub Station,
Kahilipara, Guwahati

173. General Manager,
Doyang HEP, NEEPCO,
Wokha, Nagaland

174. General Manager,
Ranganadi HEP, NEEPCO,
P.O. Ranganadi Proj. Dist. Subansiri,
Ar. Pradesh-791121

175. General Manager,
AGBPP, NEEPCO,
Kathalguri, Tinsukia, Assam

176. General Manager,
AGTPP, NEEPCO,
Ramchandranagar, Agartala, Tripura

177. General Manager,
KHANDONG HEP, NEEPCO,
Umrangsoo, N.C.Hills, Assam

178. General Manager,
KOPILI HEP, NEEPCO,
Umrangsoo, N.C.Hills, Assam

179. General Manager,
KOPILI-2 HEP, NEEPCO,
Umrangsoo, N.C.Hills, Assam

180. Chief Engineer,
NHPC
Loktak HEP Leimatak-795124,Manipur

181. Ranganadi HEP (NEEPCO)
Ranganadi HEP, NEEPCO Ltd.,
Yazali, Dist. Lower Subansiri,
Andhra Pradesh-791119

182. Managing Director,
ONGC Tripura Power Company Ltd,
6th Floor, A Wing, IFCI Tower-61,
Nehru Place, New Delhi, 110019

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183. General Manager,
Bongaigaon TPP, NTPC Ltd.,
P.O.-Salakati, Kokrajhar Dist.
Assam-783369

184. Kameng HEP (NEEPCO),
EMG, Kameng HEP, NEEPCO, Kimi,
P.O.- Bhalukpong, Post Box-2, West Kameng
Dist., Arunachal Pradesh, PIN – 790114

185. Pare HEP (NEEPCO),
Pare HEP, NEEPCO Ltd. Sogo,
P.O- Doimukh, Dist- Papumpare,
Arunachal Pradesh, PIN – 791112

186. State Load Despatch Centre,
Agartala, 79 tilla, Kunjaban,
Agartala, Tripura (West)

187. Department of Power,
Government of Nagaland,
SLDC Nagaland, Electricity Colony,
Full Nagarjan Dimapur, Nagaland.

188. Mizoram State Load Despatch Centre,
Tuikhuahtlang, Aizawl -796001

189. State Load Despatch Centre,
Assam, SLDC, AEGCL,
Near 132kv Grid Sub Station,
Kahilipara, Guwahati

...Respondents

190. Member Secretary,
Northern Regional Power Committee
18-A, Shaheed Jeet Singh Sansanwal Marg,
Katwaria Sarai,
New Delhi-110 016

191. Member Secretary,
Southern Regional Power Committee
29, Race Course Cross Road,
Bangalore-560 009

192. Member Secretary,
Eastern Regional Power Committee
14, Golf Club Road,
Kolkata-700 033

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Location: NTPC [illegible]

193. Member Secretary,
Western Regional Power Committee
F-3, MIDC Area,
Andheri (East),
Mumbai-400 093

194. Member Secretary,
North Eastern Regional Power Committee
NERPC Complex,
Dong Parmaw,
Lapalang,
Shillong-6

195. Chief Engineer (Grid Management),
Central Electricity Authority Sewa Bhawan,
R.K.Puram,
New Delhi-110 022.

196. Chief Engineer
(National Power Committee),
Central Electricity Authority,
18-A, Shaheed Jeet Singh Sasanwal Marg,
Katwaria Sarai, New Delhi-110 016

...Proforma Respondents

Parties Present: Shri S.R. Narasimhan, NLDC
Shri N. Nallarasan, NLDC
Shri Phanisankar Chilakuri, NLDC

ORDER

The Petitioner, National Load Dispatch Centre (NLDC) is the system operator at the national level and has made the following prayers:

a) Direct all ISGS stations whose tariff is regulated / determined by CERC to install equipment as per the requirement mentioned in the Petition at the unit control rooms for transferring the required data for AGC by 30th June 2019.

b) Direct all ISGS stations whose tariff is regulated / determined by CERC to ensure communication from nearest wide band node to the RTU in the unit control room by 30th June 2019.

c) Direct Central Transmission Utility (CTU) to ensure communication availability

from NLDC/RLDCs to nearest wide band node/switchyard for the generating stations in a redundant and alternate path ensuring route diversity and dual communication by 30th June 2019.

d) Decide the mark up price for secondary regulation service through AGC.

e) Allow NLDC/RLDCs to test, tune and operate the AGC system for providing the signals to the power plants as and when they comply with the directions above.

f) Allow any variation in the generation during testing phase to be settled under DSM.

g) Allow NLDC/RLDCs to put all the Phase-I plants under continuous operation on AGC before 31st December 2019.

h) Direct Phase-II plants in the detailed modus operandi to provide infrastructure at RTU/internal communication.

i) Road map for implementation of AGC at RLDCs in future may be accepted.

j) Pass any other orders as this Commission may deem fit and proper under the given facts and circumstances.

SUBMISSIONS OF THE PETITIONER

2. The Petitioner has submitted that vide Order dated 13.10.2015 in petition no 11/SM/2015, the Commission gave the roadmap for 'Operationalization of Generation Reserves in the Country'. The Order mandated that each region should maintain primary, secondary and tertiary reserves. The objective of the Order was to introduce 'Spinning Reserves' in the country, which is one of the important components for ensuring grid security, quality and reliability by achieving adequacy of supply and maintaining load-generation balance. All generating stations that are regional entities were directed to 'must plan' operationalization of Automatic Generation Control (AGC) along with reliable telemetry and communication by 01.04.2017. The Commission noted that this would entail a one-time expense for the generators to install requisite software and firmware, which could be compensated for and that the communication infrastructure must be planned by the Central Transmission Utility (CTU) and developed in parallel, in a cost-effective manner.

3. The Commission directed the Petitioner to upload the detailed modus operandi on 'Operationalization of Spinning Reserves' on NLDC website and seek comments from the

stakeholders by 11.08.2017 and file the comments received from stakeholders within two weeks thereafter. Accordingly, the report was also uploaded on the NLDC website.

4. The Petitioner has submitted that the detailed implementation plan was also discussed in the National Power Committee (NPC) meeting held at Indore on 08.09.2017. An agenda on 'secondary frequency control' was sent to NPC for discussion in the respective Regional Power Committees (RPC). The Expert Group constituted (in May 2017) by the Commission to review and suggest measures for bringing power system operation closer to National Reference Frequency, recommended that the frequency control continuum as given in their report may be adopted and included as part of the Grid Code (hereinafter referred to as 'IEGC') through an amendment to Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2010. Further, it was recommended that AGC must be implemented throughout the country at the earliest in line with the Commission's recommendation of treating a region as a balancing area and that the Performance Metrics for AGC payments may be introduced once sufficient experience is gained through the pilot project (carried out at Dadri generating station of NTPC). AGC at the intra-State level, particularly for large states, was to be implemented in line with directions by the Appropriate Commission(s).

5. The Petitioner has submitted that the Commission in its order dated 06.12.2017 in Petition No. 79/RC/2017 approved the Commissioning of the AGC Pilot Project between NLDC and NTPC Dadri Stage-II and various developments in the AGC Pilot were acknowledged by the Commission. Vide the above order, the Commission also directed that similar pilot projects may be replicated by NLDC, in at least one other regional grid of the country. Dadri Stage-II was successfully taken under remote as a part of AGC pilot project from NLDC from 1225 Hrs. of 04.01.2018 and is under continuous operation. Further, data is being submitted by NLDC to NRPC in the agreed format on a weekly basis.

6. The Petitioner has submitted that Karnataka Power Transmission Corporation Limited (KPTCL) together with (United States Agency for International Development (USAID) has proposed AGC pilot project on Varahi and Sharavathi Hydro Power Plants. On 10.02.2018, SRLDC, USAID and NLDC visited NP Kunta solar park in Andhra Pradesh for understanding the feasibility of AGC implementation. USAID agreed to take the AGC implementation at NP Kunta Solar power project under 'Greening the Grid' (GtG)-RISE

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Location: NTPC

project. The matter was also discussed in the 33rd meeting of SRPC held on 17.02.2018 at Puducherry. A workshop was organised by USAID and NLDC on 15.05.2018 at Andhra Pradesh SLDC, Vijayawada to explain the basic architecture of the AGC project and the proposed project at NP Kunta to stakeholders.

7. On 18.05.2018, Letter of Award was issued by NTPC Simhadri to M/S Siemens for the supply, testing and commissioning of software and hardware and implementation of the AGC pilot project at NTPC-Simhadri. AGC on Barh (Eastern Region), Bongaigaon (North Eastern Region) and Mauda (Western Region) are power plants of NTPC under contracting phase of implementation.

8. The Petitioner has submitted that it has started up-gradation of SCADA from October 2017. AGC set up is envisaged to be capable of sending and receiving AGC signals to all Regional Entity generating stations to start with for the first time in India. The RLDCs' SCADA/EMS system was recently upgraded before AGC was notified through the Commission's Order. Hence, considering a region as a balancing area, AGC is being implemented through NLDC, which is a unique experiment as five (5) AGCs are being operated from a single control center at NLDC. Further, as a next step, discussion could start on the roadmap to progressively shift AGC control to RLDCs over the next 3-5 years. At the intra-regional level, discussion at RPC level is on for introducing AGC at least in the few intra-State generators in RE-rich States.

9. The Petitioner has submitted that the CERC (Communication System for inter-State transmission of electricity) Regulations, 2017 has provided detailed roles and responsibilities of various organizations with respect to communication. NLDC was given the responsibility for preparation and issuance of guidelines with the approval of the Commission on the interfacing requirements in respect of terminal equipment, RTUs, SCADA, PMUs, Automatic Generation Control (AGC), Automatic Meter Reading (AMR), Advanced Metering Infrastructure (AMI), etc. and for data communication to the respective control centres. The Generic Technical Specifications for AGC connecting equipment that has to be procured by the power plants were prepared by the Petitioner based on the experience of the AGC pilot project (at Dadri) for full scale implementation of AGC. Generating stations have to install AGC connecting equipment at the unit control rooms for transferring the required set of data for AGC.

10. The Petitioner has submitted that Regional Secondary Reserves quantum, mandated by the Commission are given as below:

Secondary Reserves quantum needed in MW (Region wise)	
NR	800
ER	660
WR	800
SR	1000
NER	363
Total	3623

11. The Petitioner has suggested that the detailed implementation plan pan-India for AGC implementation is proposed in the following manner:

Phase-I

(a) Inter-State Generating Stations (ISGS) generators, whose tariff is regulated/ adopted by the Commission, are proposed to be made capable of participating in 'Secondary Control' since the tariff for these generators is already available and there are fewer communication issues. This is also because in case of these generating stations, Ancillary Services/ AGC Pilot Project Framework is available for settlement (without the refund of fixed charges as mentioned in the Half Yearly Feedback on Ancillary Services and CERC Order on AGC Pilot Project) and, therefore, its implementation is expected to be dispute free. However, limiting AGC implementation to only these generating stations may not be sufficient to ensure availability of the full quantum of reserves as mandated by the Commission.

Phase-II

(b) All Regional Entity generating stations scheduled by RLDCs (over and above the Phase-I power stations mentioned above) can be made capable of participating in secondary control. However, Declared Capability (DC) at present is not taken from these generating stations by RLDCs. Some Independent Power Producers (IPP) have part Power Purchase Agreements with discoms/ traders while part capacity is untied, and power is sold under merchant contracts. Tariff for these generators has to be

decided and agreed upon *a priori* for secondary control participation of these generators, DC and Schedule have to be obtained from these generators similar to Central Sector generating stations for reserve estimation. Many of these regional entity generating stations operate in the day-ahead energy market and the day-ahead prices may have a significant role in respect of these generating stations as far as availability to the grid at any instant is concerned. Low prices in the Day-Ahead Market (DAM) on a sustained basis may lead to many of these units remaining off the grid. The following, inter-alia, may be the requirements for the Regional entity generating stations equipped under Secondary Control:

- The generating stations shall bear the cost of secondary control hardware at the generating station end including the cost of the fibre optic cable from the generating station control room to the nearest communication node.
- Share DC and Schedule like ISGS generators on day ahead basis and subsequent revisions with RLDCs.
- Payment for energy and incentive will be as decided by the Commission.
- The generating stations shall have working control systems for turbine, boiler and governor. Governor response plots/ graphs of past incidents have to be submitted to concerned RLDC.
- Existing wide band communication node to be established within a radius below 30-40 km from the plant to communicate with the nearest RLDC. Distance need not be a binding limitation and the connectivity of the generating station with the communication node can be seen on case to case basis based on merit.

12. The Petitioner has submitted that Primary, secondary and tertiary generation reserves are required for frequency control and ensuring reliable operation of the grid, particularly under high Renewable Energy (RE) penetration. Primary control provision has been existing in the IEGC but its enforcement has been an issue that has been highlighted before the Commission. Secondary control had been absent in the system so far while tertiary frequency control was introduced only in April 2016 through the Central Electricity Regulatory Commission (Reserves Regulation Ancillary Services) Regulations, 2016 (or for short, RRAS Regulations). Through Order dated 16th July 2018 in Petition No. 07/SM/2018, Fast Response Ancillary Services or FRAS was ordered by the Commission for central sector hydro stations and is under implementation phase.

13. The Petitioner has submitted that the following issues become important when one looks at the entire continuum of frequency control:

i. Ensuring accurate load forecasting and Renewable Energy (RE) forecasting: This is the first step towards reliability as generating units need to get committed based on the forecasts. Starting from Discom level, the forecasts need to be aggregated for the State at SLDCs level, at RLDCs for the regional level and at NLDC for the All-India level.

ii. Evaluating Area Control Error (ACE) of each control area: Bias may be taken as equal to Frequency Response Characteristics (FRC) of the State in past ten events. For ACE, high quality measurement of line flows and frequency at 10 seconds or better periodicity at LDCs is a must. Further, seamless transfer of schedule data from off-line systems to SCADA must be ensured. RLDCs are already bringing forth the non-availability of real time data in the RPC forums and this needs to be addressed promptly.

iii. Primary Response: The SLDCs must also monitor the primary response from the generating units within the State and report to the respective SERCs as directed by CERC vide its order dated 31st July 2017 in Petition No. 84/MP/2015.

iv. Measurements: For AGC, high quality measurements are needed for inter-regional tie lines and generating stations under AGC. As stated above, periodic monitoring of the data quality needs to be done at the RPC forums and chronic problems of non-availability of data are addressed promptly so that real time operation is smooth.

v. Fiber Optic Communication: Fiber optic communication from Regional Entity generating station to nearest CTU node and from there on to RLDCs/ NLDC is a must and it could be closely monitored through the RPC forums. This is required irrespective of whether we have a regulated system of secondary reserves procurement or a market based one.

vi. Participation: ACE is allocated to the generating stations under AGC based on the selected participation factor mode in the AGC software. The participation of each generating station will be calculated by the AGC software based on the weightage assigned to different attributes of the plant and the grid. Spinning reserve availability, ramp rate and variable cost of the generating station are the important attributes that are typically considered. In case of inter- intra-regional transmission constraints during

outages, certain plants may not be able to participate in AGC till normalization of transmission system.

14. The Petitioner has submitted that 'Spinning Reserves' viz. DC on bar minus schedules available in real time in ISGS is currently used for rescheduling/ tertiary reserves by States, tertiary frequency control through Reserves Regulation Ancillary Services and now being envisaged for secondary control through AGC. It is also available for primary control though the IEGC clearly specifies that the schedules should not exceed capacity on bar less Normative Auxiliary Consumption. This ensures that even if the power plant is fully scheduled, the overload capacity and margins in auxiliary consumption is able to provide primary response.

15. The Petitioner has submitted that after the forecast of load and RE generation, the scheduling of conventional generation resources by the States assumes importance. Here, apart from scheduling, the States also need to indicate the amount of hot spinning reserves it is holding. The reserves could be held either within the State or at the ISGS where the State has a share but it should be replenished whenever there is a contingency such as a generating unit tripping within the State. Unless such a mechanism is in place, the secondary control would not work as all the reserves would get depleted quickly. DC on bar less the schedules equals the hot spinning reserves. It was observed that hot spinning reserve gets depleted daily during the morning and evening peak hours when States requisition their full entitlement. Under this situation, the State utilities ought to have reserves elsewhere within the State.

16. The Petitioner has submitted that on 06.09.2018, the Commission has issued a discussion paper on *'Redesigning Ancillary Services Mechanism in India'* and comments were invited from stakeholders. The Petitioner is of the view that the physical infrastructure in terms of communication and suitable hardware/ software at the power plants is sine qua non for secondary control through AGC irrespective of whether the same is regulated or market-based. The only variable is the quantum of secondary reserves required on day to day basis.

PROCEEDINGS DURING HEARING

17. The Petition was admitted on 25.10.2018. During the hearing on 31.1.2019, the

Petitioner submitted that the present petition has been filed for implementation of AGC in India.

18. The Petitioner further submitted that the Commission in its Order dated 06.12.2017 in Petition No. 79/RC/2017 approved the commissioning of AGC pilot project between NLDC and NTPC Dadri Stage-II and the Commission also directed that similar pilot projects may be replicated by NLDC, in at least one other regional grid of the country. Accordingly, one plant in each region has been identified and AGC has also been commissioned in Simhadri and Mauda generating station.

19. The Petitioner requested the Commission to direct ISGS to install the equipment in power plants for accepting signals from NLDC. After hearing, the Commission directed the Petitioner to furnish the Minutes of Meeting held with RPCs wherein RPCs have given their consent to the AGC pilot project. The Commission further directed the Petitioner to submit the feedback report on the operation of AGC at NTPC Dadri Stage-II along with the summary of findings of this pilot project.

20. The Petitioner has complied with the directions and submitted the minutes of the special meetings on AGC pilot project which were held with all RPCs. The Petitioner has also submitted the feedback report before the Commission on 15th February 2019, highlighting the learning from the pilot project. Several learning including those on the implementation aspects, communication protocols, generator regulation and load following capabilities, metering, monitoring, visualisation, accounting etc. were gathered via pilot project and explained in the feedback report. The Pilot projects have also provided capacity building in the field of AGC which will be useful during implementation of secondary control on a large scale.

ANALYSIS & DECISION

21. We have heard the Learned Counsels for the Petitioner and have carefully perused the records.

22. The Commission is of the view that the most important responsibility of the Power System operators is to maintain reliability of the Power System by maintenance of Load -

Generation balance. For a large complex grid such as the Indian grid, primary, secondary and tertiary frequency controls are must-have tools to ensure reliability. With the objective of ensuring grid security, quality and reliability, the Commission vide Order dated 13.10.2015 in Petition no. 11/SM/2015 had laid down a roadmap for *'Operationalization of Generation Reserves in the Country'*. It was envisaged that apart from the primary reserve at the national level, secondary reserve should be maintained by each region and tertiary reserve by each State. All the generating stations that are regional entities were directed to plan to operationalize AGC along with reliable telemetry and communication by 01.04.2017. The NLDC was directed to submit a detailed procedure to operationalize reserves in the country vide Order dated 13.10.2015.

23. The Commission notes that an 'outline procedure' was submitted by NLDC vide letter dated 15.12.2015 in which it was proposed to take up a pilot project with one of the NTPC plants in a region based on which further activities could be taken up. On 05.02.2016, NLDC was advised to submit the draft detailed procedure and implementation plan for operationalization of Reserves within three months of implementation of Ancillary Services Regulations. After various brainstorming sessions and meetings, NLDC submitted the detailed procedure on Operationalization of Spinning Reserves on 14.07.2017 and recommended that secondary control should be added as an Ancillary Service.

24. The Commission observes that the 'National Electricity Policy' also mandates that adequate reserves may be maintained to ensure secure grid operation. The Commission is of the view that collective efforts of the stakeholders in implementation of the AGC are a step forward and will go a long way in development of the secondary reserves in the country leading to stable frequency operation and grid security and reliability.

25. The Commission observes that the feedback on implementation of AGC submitted by NLDC highlights the need for enhancing adequacy of reserves in the country. It has been stated that valuable experience has been gained in terms of implementation aspects, communication protocols, generator regulation and load following capabilities, cyber security etc. which is useful during implementation of secondary control on a large scale. The Petitioner has submitted that from the interactions with national and international experts on power systems and experience with Ancillary Services till date, the general understanding was that different solutions as a package like load and Renewable Energy (RE) generation

forecast, proper portfolio management by the States, primary response from the generators, secondary control in the form of AGC, Ancillary Service products in different timeframes etc. are needed for stable frequency operation of the power system. No unique solution existed. NLDC report emphasised that a bad or no forecast of load/ RE generation and poor portfolio management by the State utilities would lead to heavy deviations from schedule and grid indiscipline exhausting all reserves in the system and making the system insecure. AGC effectiveness would have to be seen in this overall context. It was further highlighted in the feedback report that deployment of two-three plants under AGC with 200 MW-300 MW reserve might not be sufficient for a grid size like that of India. The Commission observes that the Expert Group on 'National Reference Frequency' in its report submitted to the Commission in November 2017 recommended that AGC must be implemented throughout the country at the earliest and Performance Metrics for such AGC payments may be introduced once sufficient experience is gained through the pilot project.

26. The Petitioner has suggested that implementation of AGC be undertaken in Phases. Under Phase-I, ISGS generators, whose tariff is regulated/ adopted by the Commission, are proposed to be made capable of participating in 'Secondary Control'. Dadri Stage-II NTPC in Northern Region was the first AGC pilot project of the country which was approved by the Commission vide Order in Petition No.79/RC/2017 on 08.12.2017 and is in continuous operation from 1225 Hrs. of 04.01.2018. The Commission also directed that similar pilot projects may be replicated by NLDC, in at least one other regional grid of the country. Accordingly, four more AGC pilot projects have been/are being implemented viz. Simhadri Stage-II in Southern Region, Mauda Stage-II in Western Region, Barh Stage-II in Eastern Region and Bongaigaon in North-Eastern Region.

27. The Commission observes that there is one-time expense involved for the generators to install requisite software and firmware. The Commission has been informed that the implementation cost i.e. placing of order for the equipment and integration cost of the four AGC pilot projects which have been commissioned viz. Dadri Stage-II NTPC in Northern Region Simhadri Stage-II in Southern Region, Mauda Stage-II in Western Region and Barh Stage-II in Eastern Region, is in the range of Rs. 30.00 lakhs to Rs. 50 lakhs per generating station. The Commission accepts the Petitioner's proposition that the cost of such equipment at generating stations for AGC implementation is not significant and ideally all ISGS stations should be AGC enabled. The Commission notes that majority of the thermal stations

regulated by the Commission have station capacity of 200 MW and above and the AGC support is mainly expected from these facilities apart from the hydro generating stations other than Run-of-River projects. It will therefore be prudent, also from the point of view of cost effectiveness to ensure that the thermal generating stations with installed capacity of 200 MW and above and all hydro stations with capacity exceeding 25 MW necessarily have the capability to provide AGC support. Further, the Commission is of the view that with due regard to the nature of the Run-of-River Hydro projects it may not be advisable to mandate such plants to provide AGC support, as this might lead to spillage/ under-utilization of water, which should be avoided. Accordingly, the Commission directs all thermal Inter State Generating Stations (ISGS) that are regional entities with installed capacity of 200 MW and above and all hydro stations with capacity exceeding 25 MW excluding the Run-of-River Hydro Projects irrespective of size of the generating station and whose tariff is determined or adopted by the Commission, to install the required software and firmware for implementation of AGC at the unit control rooms for transferring the required set of data for AGC. These regional entity generators may approach the Commission under relevant regulations and provisions of PPA for compensation of this one-time cost. The Commission also directs the Central Transmission Utility and the NLDC to commission the required communication system in parallel.

28. Once the aforesaid generating stations are AGC enabled, NLDC/ RLDCs shall be allowed to test, tune and operate the AGC system for providing the signals to the power plants. With this decision to make the ISGS stations AGC compliant, the Commission is of the view that any other pilot beyond the five pilots already initiated by NLDC, may not be needed.

29. As regards compensation for AGC support and deviation charges, it is clarified that the framework in this regard as stipulated in the Commission's Order in Petition no. 79/RC/2017 dated 06.12.2017 shall apply to the five pilot projects as also to other ISGS as and when they are AGC enabled. This arrangement shall remain in place till further Orders or till relevant regulations inter-alia on compensation for AGC services are framed by the Commission.

30. The Commission has noted the suggestions of the Petitioner for covering under Phase-II, other regional entity generators (other than those whose tariff is determined or adopted by

the Commission). The Commission is of the view that decision on this issue cannot be taken in the present petition. It needs wider consideration.

31. The Commission observes that NLDC in its report on implementation of RRAS, has recommended moving towards market-based procurement of ancillary service for a more robust design. The relevant excerpt is reproduced below:

> *"Once the scope of present implementation of ancillary services is enlarged from the regulated generation stations at inter-state level to include state-level generators also, a critical mass would be achieved. Moreover as more and more generators start participating in regulation services, closer monitoring of the performance of generating stations would also be needed. The implementation would also be more robust by design and subsequently, based on the experience gained, market based procurement of ancillary services could also be thought of."*

32. The Commission is of the view that the experience gained under RRAS underlines the need for a calibrated approach to transform the extant administered Ancillary Services mechanism to a market-based mechanism with the objective of increasing the ambit of potential providers of such services at efficient costs and enhanced reliability of the grid. The Staff Paper on *'Redesigning Ancillary Services Mechanism in India'* issued by staff of the Commission on 06.09.2018 has highlighted that the physical infrastructure in terms of communication and suitable hardware/ software at the power plants is sine qua non for secondary control through AGC irrespective of the fact whether the same is regulated or market-based. The only variable is the quantum of secondary reserves required on day to day basis.

33. The Commission observes that given the changes in technology, generation mix and increasing decentralized generation, and locational ancillary requirements, long term bilateral contracts for ancillary support should be avoided. Same resource can provide multiple flexibility services. For example, a generator that can provide fast tertiary response can also provide slow tertiary response. An arrangement which bundles multiple flexibility services has some advantages – by allowing such generators to utilize their capabilities to serve various system requirements thereby reducing the cost of providing individual services. Accordingly, the Commission directs the staff of the Commission to initiate a comprehensive review of Ancillary services framework based on these principles, and present to the Commission for suitable decision.

SUMMARY

34. In the interest of reliable and safe grid operation, the Commission directs that all the ISGS stations whose tariff is determined or adopted by CERC shall be AGC-enabled and the ancillary services including secondary control through AGC be implemented as per the following direction:

i. *All thermal ISGS stations with installed capacity of 200 MW and above and all hydro stations having capacity exceeding 25 MW excluding the Run-of-River Hydro Projects irrespective of size of the generating station and whose tariff is determined or adopted by CERC are directed to install equipment at the unit control rooms for transferring the required data for AGC as per the requirement to be notified by NLDC. NLDC shall notify the said requirements within one month of this order.*

ii. *All such ISGS stations whose tariff is determined or adopted by CERC shall have communication from the nearest wide band node to the RTU in the unit control room.*

iii. *The Central Transmission Utility (CTU) is directed to have communication availability from NLDC/ RLDCs to the nearest wide band node/ switchyard for the generating stations in a redundant and alternate path ensuring route diversity and dual communication.*

iv. *The NLDC is also directed to commission the required communication infrastructure.*

v. *The expenditure as a result of compliance of the above directions may be claimed as per relevant regulations or provisions of the PPA.*

vi. *The NLDC is directed to monitor implementation of the above directions so that all the ISGS stations whose tariff is determined or adopted by CERC are AGC-enabled within six months of this order.*

vii. *The framework regarding compensation for AGC support and deviation charges as stipulated in the Commission's Order in Petition no. 79/RC/2017 dated 06.12.2017 shall apply to the five pilot projects as also to other ISGS as and when they are AGC enabled. This arrangement shall remain in place till the relevant regulations inter alia on compensation for AGC services are framed by the Commission.*

viii. *NLDC/RLDCs are allowed to operate the AGC system for enabling the signals to the power plants at the earliest.*

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ix. *All new thermal ISGS stations with installed capacity of 200 MW and above and hydro stations having capacity exceeding 25 MW excluding the Run-of-River Hydro Projects irrespective of size of the generating station and whose tariff is determined or adopted by CERC shall mandatorily have the capability to provide AGC support.*

35. With the above directions, Petition No. 319/RC/2018 stands disposed of.

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Annexure-10-E/1

ಭಾರತ್ ಹೆವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್
भारत हेवी इलेक्ट्रिकल्स लिमिटेड
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Ref: GM-NTPC/404/CE-HMI-02

Dated 21/09/2022

Sub: Recommendation for HMI Upgrade

The Windows XP/ Windows 7 based workstation hardware and Microsoft Operating System available at sites (projects listed in annexure-1) is out of mainstream support from OEM and Microsoft respectively. Also the support for Symantec Antivirus version 10.0 has been withdrawn by the OEM and no more security updates / virus definitions are available for that version. Hence the HMIs-maxStations are prone to vulnerabilities which can tamper the operation of plant.

HMI Upgrade for the projects mentioned in Annexure-1 is proposed due to various obsolescence in the DCS components as detailed below.

DCS Component		Existing version / model / Specification	Obsolescence
Workstation / Engineering server / Historian server	Hardware	**Workstation:** Intel Core 2 Duo processor, 1GB RAM, 146 GB SAS disk, 10 Mbps Ethernet port. **Server:** Intel Xeon dual core processor, 2 GB RAM, 3x76GB HDD, 10 Mbps Ethernet port.	Lower Processor cores and speed, lower HDD capacity and RAM requirements incompatible for latest software requirements; Lower network bandwidth of 10Mbps restricting communication speed capability of latest DCS components and attributing to latency.
	Operating System	Windows 7 SP1 / Windows XP / Windows Server 2008 R2	Operating Systems were declared End of Support by the OEM-Microsoft as mentioned below: Windows XP - April' 2014 Windows 7 - Jan' 2020 Windows Server 2008 R2 - Jan' 2020
	maxDNA software	maxDNA 4.2.1 / 4.5 / 4.5.1 / 6.0.x	These versions are not compatible with latest Operating Systems; more improved version of maxDNA- release 7.x is available suiting the latest OS.
	Antivirus Software	Symantec 10.x / Symantec 11.x / Symantec 12.x	Declared obsolete by the OEM-Broadcom and no more updates or virus definitions are available

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Network	Switch	10 Mbps backbone	Lower network bandwidth of 10Mbps restricting communication speed capability of latest DCS components.
	Network Hardening settings	No validated Network hardening settings	Not suitable for latest network requirements with hardening features.

Prakash D
AGM (CE-Engg-I)

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Annexure-1 List of upgrade projects	
Sl No	Project Name
1	Barauni_Stage-2
2	Bongaigaon_Stage-1
3	Dadri-Thermal_Stage-1
4	Dadri-Thermal_Stage-2
5	Darlipalli_Stage-1
6	Farakka_Stage-2
7	Farakka_Stage-3
8	Gadarwara_Stage-1
9	KoldamHydro
10	Korba_Stage-1
11	Korba_Stage-3
12	Mauda_Stage-1
13	Mauda_Stage-2
14	NorthKaranpura_Stage-1
15	Rihand_Stage-2
16	Rihand_Stage-3
17	Simhadri_Stage-2
18	TANDA_Stage-1
19	TANDA_Stage-2
20	Unchahar_Stage-4
21	Vindhyachal_Stage-4
22	Vindhyachal_Stage-5
23	BRBCL Stage-I
24	Jhajjar Stage-I
25	KBUNL Stage-I
26	KBUNL Stage-II
27	NPGCL Stage-I
28	NSPCL Bhilai Stage-I
29	NTECL Stage-I

Annexure-10-E/2

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
सूचना प्रौद्योगिकी एवं साइबर सुरक्षा प्रभाग
Information Technology & Cyber Security Division

विषय : CEA (Cyber Security in Power Sector) Guidelines, 2021.

CEA is mandated to prepare 'Guidelines on Cyber Security' in Power Sector under the provision of regulation (16) of the Central Electricity Authority (Technical Standards for Connectivity to the Grid) (Amendment) Regulations, 2019. Guidelines on Cyber Security in Power Sector incorporating the cardinal principles has been prepared by CEA. In compliance to the provision of the above regulation, CEA (Cyber Security in Power Sector) Guidelines, 2021 are issued for compliance by all entities listed in the clause 2.3 (Applicability of the Guidelines) of the guidelines.

Encl: Guidelines on Cyber Security

(V.K.Mishra)
Secretary CEA

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CEA (Cyber Security in Power Sector) Guidelines, 2021

1.0 Background

1.1 Cyber intrusion attempts and Cyber-attacks in any critical sector are carried out with a malicious intent. In Power Sector it's either to compromise the Power Supply System or to render the grid operation in-secure. Any such compromise, may result in mal-operations of equipments, equipment damages or even in a cascading grid brownout/blackout. The much hyped air gap myth between IT and OT Systems now stands shattered. The artificial air gap created by deploying firewalls between any IT and OT System can be jumped by any insider or an outsider through social engineering. Cyber-attacks are staged through tactics & techniques of Initial Access, Execution, Persistence, Privilege Escalation, Defence Evasion, Command and Control, Exfiltration. After gaining the entry inside the system through privilege escalation, the control of IT network and operations of OT systems can be taken over even remotely by any cyber adversary. The gain of sensitive operational data through such intrusions may help the Nation/State sponsored or non-sponsored adversaries and cyber attackers to design more sinister and advanced cyber-attacks.

1.2 Government of India has set up the Indian Computer Emergency Response Team (CERT-In) for Early Warning and Response to cyber security incidents and to have collaboration at National and International level for information sharing on mitigation of cyber threats. CERT-In regularly issues advisories on safeguarding computer systems and publishes Security Guidelines which are widely circulated for compliances. All Central Government Ministries/ Departments and State/Union Territory Government have been advised to conduct cyber security audit of their entire Cyber Infrastructure including websites at regular interval through CERT-In empanelled Auditors so as to identify gaps and appropriate corrective actions to be taken in cyber security practices. CERT-In extends supports to enable Responsible Entity in conducting cyber security mock drills and in assessment of their preparation to withstand cyber-attacks. The Responsible Entity must submit Reports of Cyber Audit of cyber security controls, architecture, vulnerability management, network security and periodic cyber security drills to sectoral CERT as well as CERT-In. Team of experts shall review these reports and shortcomings if any in the compliances shall be flagged by them. CERT-In on regular basis also conducts workshops and training programs to enhance Cyber awareness of all Stakeholders.

1.3 Ministry of Power has created 6(six) sectoral CERTs namely Thermal, Hydro, Transmission, Grid Operation, RE and Distribution for ensuring cyber security in Indian Power Sector. Each Sectoral CERT has prepared their sub-sector specific model Cyber Crisis Management Plan(C-CMP) for countering cyber-attacks and cyber terrorism. Each Sectoral CERT has circulated their model C-CMPs for preparation and implementation of organization specific C-CMP by each of their Constituent Utility.

1.4 All Responsible Entities, Service Providers, Equipment Suppliers/Vendors and Consultants engaged in Power Sector are equally responsible for ensuring cyber security of the Indian Power Supply System. They are to act timely upon each threat intelligence,

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advisories and other inputs received from authenticated sources, for continuous improvement in their cyber security posture.

1.5 In the current Indian scenario though many cyber security directives and guidelines exists, but none of them are power sector specific. Ministry of Power has directed CEA to prepare Regulation on Cyber Security in Power Sector. And as an interim measures CEA has been directed to issue Guideline on Cyber Security in Power Sector, under the provision of Regulation 10 on Cyber Security in the "Central Electricity Authority (Technical Standards for Connectivity to the Grid) (Amendment) Regulations, 2019".

1.6 The Guidelines on Cyber Security, in the form of Articles written below, requires mandatory Compliance by all Responsible Entities. The Guidelines shall come into effect from the date of issue by Central Electricity Authority, New Delhi.

2.0 Hereby the Guidelines on Cyber Security are drawn in the form of Articles for compliance by the Requester as well as User under the following provision of Regulation 10 on Cyber Security, in the "Central Electricity Authority (Technical Standards for Connectivity to the Grid) (Amendment) Regulations, 2019".

"The requester and the user shall comply with cyber security guidelines issued by the Central Government, from time to time, and the technical standards for communication system in Power Sector laid down by the Authority."

2.1 **Objective of issuing Guideline**:

a) Creating cyber security awareness
b) Creating a secure cyber ecosystem,
c) Creating a cyber-assurance framework,
d) Strengthening the regulatory framework,
e) Creating mechanisms for security threat early warning, vulnerability management and response to security threats,
f) Securing remote operations and services,
g) Protection and resilience of critical information infrastructure,
h) Reducing cyber supply chain risks,
i) Encouraging use of open standards,
j) Promotion of research and development in cyber security,
k) Human resource development in the domain of Cyber Security,
l) Developing effective public private partnerships,
m) Information sharing and cooperation
n) Operationalization of the National Cyber Security Policy

2.2 Within the text of these Articles, '**Responsible Entity**' shall mean all:

a) Transmission Utilities as well as Transmission Licensees,
b) Load despatch centres (State, Regional and National),
c) Generation utilities (Hydro, Thermal, Nuclear, RE),
d) Distribution Utilities
e) Generation Aggregators,
f) Trading Exchanges,
g) Regional Power Committees, and
h) Regulatory Commissions

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2.3 Applicability:

All Responsible Entities as well as System Integrators, Equipment Manufacturers, Suppliers/Vendors, Service Providers, IT Hardware and Software OEMs engaged in the Indian Power Supply System.

2.4 Scope:

2.4.1 Control Systems for System Operation and Operation Management.

a) Grid Control and Management Systems,
b) Power Plant Control Systems,
c) Central Systems used to monitor and control of distributed generation and loads e.g. virtual power plants, storage management, central control rooms for hydroelectric plants, photovoltaic/wind power installations,
d) Systems for fault management and work force management,
e) Metering and measurement management systems,
f) Data archiving systems,
g) Parameterisation, configuration and programming systems,
h) Supporting systems required for operation of the above mentioned systems.

2.4.2 Communication System.

a) Routers switches and firewalls,
b) Communication technology-related network components,
c) Wireless digital systems.
d) Control Centre to Control Centre Communications for data exchange on ICCP. (IEC 61850/60870-5/TASE.2/)

2.4.3 Secondary, Automation and Tele control technologies

a) Control and Automation components,
b) Control and field devices,
c) Tele control devices,
d) Programmable logic controllers / Remote Terminal Units, including digital sensor and actuators elements,
e) Protection devices,
f) Safety components,
g) Digital measurement and metering installations,
h) Synchronisation devices,
i) Excitation Systems.

3.0 Definition of Terms:

1. **Access Management**: shall mean set of policies and procedures of the Responsible Entity for allowing Personnel, devices and IoT to securely perform a broad range of operational, maintenance, and asset management tasks either on site or remotely as laid down in Clause 5.2.5 of IS 16335.
2. **Accreditation**: shall mean the process of verifying that an organisation is capable of conducting the tests and assessments against a product/process that are required to be certified.

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3. **Accreditation Body:** shall mean an organisation that has been accredited to verify the credentials and capabilities of the organisations that wish to become a certification body.
4. **Act:** shall mean the Information Technology Act, 2000 (21 of 2000)
5. **Asset:** shall mean anything that has value to the organization.
6. **Certification:** shall mean the process of verifying that a product has been manufactured in conformance with a set of predefined standards and/or regulations by an organisation, that is accredited to conduct the certification process
7. **Certification Body:** shall mean an organisation that has been accredited by an accreditation body to certify products / process against a certification scheme.
8. **Certification Scheme:** shall mean the processes, paperwork, tools, and documentation that define how a product or manufacturer is certified
9. **Chief Information Security Officer:** shall means the designated employee of Senior management level directly reporting to Managing Director/Chief Executive Officer/Secretary of the Responsible Entity, having knowledge of Information Security and related issues, responsible for cyber security efforts and initiatives including planning, developing, maintaining, reviewing and implementation of Information Security Policies
10. **Critical Assets:** shall mean the facilities, systems and equipment which, if destroyed, degraded or otherwise declared unavailable, would affect the reliability or operability of the Power Supply System.
11. **Critical System:** shall mean cyber assets essential to the reliable operation of critical asset. Critical System consists of those cyber assets that have at least one of the following characteristics:
    a) The cyber asset uses a routable protocol to communicate outside the electronic security perimeter.
    b) The cyber asset uses a routable protocol within a control centre.
    c) The cyber asset is dial-up accessible.
12. **Critical Information Infrastructure:** shall mean Critical Information Infrastructure as defined in explanation of sub-section (1) of Section 70 of the Act.
13. **Cyber Assets:** shall mean the programmable electronic devices, including the hardware, software and data in those devices that are connected over a network, such as LAN, WAN and HAN.
14. **Cyber Crisis Management Plan:** shall mean a framework for dealing with cyber related incidents for a coordinated, multi-disciplinary and broad-based approach for rapid identification, information exchange, swift response and remedial actions to mitigate and recover from malicious cyber related incidents impacting critical processes.
15. **Cyber Security Breach:** shall mean any cyber incident or cyber security violation that results in unauthorized or illegitimate access or use by a person as well as an entity, of data, applications, services, networks and/or devices through bypass of the underlying cyber security protocols, policies and mechanisms resulting in the compromise of the confidentiality, integrity or availability of data/information maintained in a computer resource or cyber asset.
16. **Cyber Security Incident:** shall mean any real or suspected adverse cyber security event that violates, explicitly or implicitly, cyber security policy of Responsible Entity resulting in unauthorized access, denial of service or disruption, unauthorized use of computer resource for processing or storage of information or changes to data or information

without authorization, leading to harm to the power grid or its critical sub-sectoral elements Generation, Transmission and Distribution.

17. **Cyber Security Policy:** shall mean documented set of business rules and processes for protecting information, computer resources, networks, devices, Industrial Control Systems and other OT resources.
18. **Electronic Security Perimeter:** shall mean the logical border surrounding a network to which the Cyber Systems of Power Supply System are connected using a routable protocol.
19. **Information Security Division:** shall mean a division accountable for cyber security and protection of the Critical System of the Responsible Entity.
20. **Protected System:** shall mean any computer, computer system or computer network of the Responsible Entity notified under section 70 of the Act, in the official gazette by appropriate Government.
21. **Security Architecture:** shall mean a framework and guidance to implement and operate a system using the appropriate security controls with the goal to maintain the system's quality attributes like confidentiality, integrity, availability, accountability and assurance.
22. **Vulnerability:** shall mean intrinsic properties of something resulting in susceptibility to a risk source that can lead to an event with a consequence
23. **Vulnerability Assessment:** shall mean a process of identifying and quantifying vulnerabilities

4.0 Standards

Reference	Description
ISO/IEC 15408	Common Criteria Certification Standard
ISO/IEC 17011	General requirements for accreditation bodies accrediting conformity assessment bodies
ISO/IEC 17025	General requirements for the competence of testing and calibration laboratories
ISO/IEC 21827	Systems Security Engineering - Capability Maturity Model (SSE-CMM)
ISO/IEC 24748-1	Systems and software engineering — Life cycle management — Part 1: Guidelines for life cycle management.
ISO 27001/2	Information Security Management
ISO/ IEC 27019	Information technology — Security techniques — Information Security controls for the energy utility industry
ISO/IEC 61508	Functional Safety of Electrical / Electronic / Programmable Electronic Safety-related Systems
IEC 61850	Communication networks and systems for power utility automation
IEC 62351	Standards for Securing Power System Communications
IEC 62443	Cyber Security for Industrial Control Systems
IS 16335	Power Control Systems – Security Requirements.

5.0 Abbreviations

Abbreviations	Description
a) BES	Bulk Electric System

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b)	CDAC	Centre for Development of Advanced Computing
c)	CEA	Central Electricity Authority
d)	CERC	Central Electricity Regulatory Commission
e)	CERT	Computer Emergency Response Team
f)	CERT-In	Indian Computer Emergency Response Team
g)	CII	Critical Information Infrastructure
h)	CISO	Chief Information Security Officer
i)	CSK	Cyber Swachhta Kendra
j)	COTS	Commercial off-the Shelf
k)	ESP	Electronic Security perimeter
l)	ICS	Industrial Control Systems
m)	ICT	Information and Communications Technology
n)	IEC	International Electro Technical Commission
o)	ISAC	Information Sharing and Analysis Centre
p)	ISD	Information Security Division
q)	ISO	International Organization for Standardization
r)	ISMS	Information Security Management System
s)	IT	Information Technology
t)	FAT	Factory Acceptance Test
u)	NABL	National Accreditation Board for Testing and Calibration Laboratories
v)	NCIIPC	National Critical Information Infrastructure Protection Centre
w)	NLDC	National Load Dispatch Centre
x)	NPTI	National Power Training Institute
y)	NSCS	National Security Council Secretariat
z)	OEM	Original Equipment Manufacturer
aa)	OT	Operational Technology
bb)	RLDC	Regional Load Dispatch Centres
cc)	SAT	Site Acceptance Test
dd)	SERC	State Electricity Regulatory Commission
ee)	SCADA	Supervisory Control and Data Acquisition Systems
ff)	SIEM	Security Information and Event Management
gg)	SLA	Service Level Agreement
hh)	SLDC	State Load Dispatch Centre
ii)	QCI	Quality Council of India

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CEA (Cyber Security in Power Sector) Guidelines, 2021

Article 1. Cyber Security Policy.

a. **Cardinal Principles: The Responsible entity will strictly adhere to following cardinal principles while framing cyber security policy:**

i. There is hard isolation of their OT Systems from any internet facing IT system.

ii. May keep only one of their IT systems with internet facing at any of their site/location if required which is isolated from all OT zones and kept in a separate room under the security and control of CISO.

iii. Downloading/Uploading of any data/information from their internet facing IT system is done only through an identifiable whitelisted device followed by scanning of both for any vulnerability/malware as per the SOP laid down and for all such activities digital logs are maintained and retained under the custody of CISO for at least 6 months. The log shall be readily to carry out the forensic analysis if asked by investigation agency.

iv. List of whitelisted IP addresses for each firewall is maintained by CISO and each firewall is configured for allowing communication with the whitelisted IP addresses only.

v. Communication between OT equipment/systems is done through the secure channel preferably of POWERTEL through the fibre optic cable. Security configuration of the communication channel is also to be ensured.

vi. All ICT based equipment/system deployed in infrastructure/system mandatorily CII are sourced from the list of the "Trusted Sources" as and when drawn by MoP/CEA.

b. The Responsible Entity shall be ISO/IEC 27001 certified (including sector specific controls as per ISO/IEC 27019).

c. The Responsible Entity shall have a Cyber Security Policy drawn upon the guidelines issued by NCIIPC.

d. The Responsible Entity shall ensure annual review of their Cyber Security Policy by subject matter expert and changes shall be made therein only after obtaining the due approval from Board of Directors.

e. The process of Access Management for all Cyber Assets owned or under control of the Responsible Entity shall be detailed in the Cyber Security Policy.

f. The Cyber Security Policy shall leverage state-of-art cyber security technologies and relevant processes at multiple layers to mitigate the cyber security risks.

g. The Responsible Entity shall be solely responsible to get Cyber Security Policy implemented through its Information Security Division (ISD).

h. The CISO shall record the reason(s) for exemption required, if any, in case, unable to comply with any of the provision(s) of the Cyber Security Policy. Any exception shall be allowed only after an approval of provisions of compensatory control(s) to mitigate residual cyber security risks.

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i. The CISO shall record the exemptions sought in statement of applicability controls, while getting the ISO 27001 certified. All exemptions and its justification need to be in conformance with Cyber Security Policy of the Responsible Entity.
j. The Responsible Entity shall allocate sufficient Annual budget for enhancing cyber security posture, enhanced year over year.
k. The Responsible Entity shall work in collaboration with other Industry Stakeholders as well as Academia to promote R&D activity in the domain of cyber security.
l. The Responsible Entity shall ensure that cyber security issues are taken up as agenda items in their Board meetings once in every three months.

Article 2 Appointment of CISO.

a) The Responsible Entity shall mandatorily appoint a CISO and shall confirm to qualification, if any, **laid** by Quality Council of India (QCI). In absence, the work of CISO shall be looked upon by Alternate CISO. In case qualification for appointment of Alternate CISO has been relaxed for reasons recorded thereof, Alternate CISO has to mandatorily acquire the minimum required cyber security skill sets within six months from the date of his appointment.
b) The Responsible Entity shall regularly update details of CISO and Alternate CISO, with the Sectoral CERT, as well as on ISAC-Power Portal.
c) Roles and Responsibility of CISOs shall be as laid by CERT-In and ring-fenced to ensure cyber security of the Cyber Assets of the Responsible Entity.

Article 3: Identification of Critical Information Infrastructure (CII).

a) The Responsible Entity shall submit to NCIIPC through Sectoral CERT, details of Cyber Assets which uses a routable protocol to communicate outside the Electronic Security Perimeter drawn by the Responsible Entity or a routable protocol within a control center and dial-up accessible Cyber Assets, within 30 days from the date of their commissioning in the System.
b) The Responsible Entity shall submit details of Critical Business Processes and underlying information infrastructure along with mapped impact and Risk Profile to NCIIPC and shall get their CIIs identified in consultation with NCIIPC. The process of the notification/declaration by Appropriate Government shall follow thereafter.
c) The Responsible Entity shall review their declared/notified CIIs at least once a year to examine changes if any in the functional dependencies, protocols and technologies or upon any change in security architecture. The Responsible Entity shall review their declared/notified CIIs once in every 6 months, in case if NCIIPC has directed them to constitute an Information Security Steering Committee.
d) The Responsible Entity shall ensure that all cyber assets of their identified/notified CIIs are recorded in the asset register and considered for risk assessment as well as for finalization of controls in statement of applicability.

Article 4. Electronic Security Perimeter

a) The Responsible Entity shall identify and document the Electronic Security Perimeter(s) and all Access Points to the perimeter(s).

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b) The Responsible Entity shall follow procedure of identifying "Electronic Security Perimeter" in case of distributed and/or hybrid information infrastructure, as per IEC 62443 / IS16335 (as amended from time to time).

c) The Responsible Entity shall ensure that every Critical System resides within an Electronic Security Perimeter.

d) The Responsible Entity shall perform a cyber-Vulnerability Assessment of each electronic Access Points to the Electronic Security Perimeter(s) at least once in every 6 (six) months and/or after any change in Security Architecture.

e) The Responsible Entity shall ensure that all critical, high and medium vulnerabilities identified as a result of cyber Vulnerability Assessment shall be closed and verified for the effective closure.

Article 5. Cyber Security Requirements

a) The Responsible Entity shall have an Information Security Division (ISD), headed by CISO.

b) The Responsible Entity shall ensure that the ISD must be functional on 24x7x365 basis and is manned by sufficient numbers of Engineers having valid certificate of successful completion of course on cyber security of Power Sector from the Training Institutes designated by CEA.

c) The Responsible Entity shall ensure that ISD

1) has on-boarded Cyber Swachhta Kendra(CSK) of CERT-In, if they have public IPs.
2) has timely acted upon the advisories, guidelines and directive of NCIIPC, CSK, CERT-In and Sectoral CERTs;
3) has deployed an Intrusion Detection System and Intrusion Prevention System capable of identifying behavioural anomaly in both IT as well as OT Systems.
4) shares reports on incident response and targeted malware samples with CERT-In,
5) updates the firmware/software with the digitally signed OEM validated patches only.
6) enables only those ports and services that are required for normal operations. In case of any emergency the procedure as laid in Access management be followed.
7) maintains firewall logs for the last 6 months duration. Firewall logs shall be analysed and all critical and high severity comments shall be addressed for effective closure.
8) retains document of FAT, SAT test results and report/ certificate of cyber tests carried out for compliance of Government Orders and Cyber Security Audit.*
9) maintains all cyber logs and cyber forensic records of any incident for at least** 90 days.

* FAT, SAT must include comprehensive cyber security tests of the component/equipment/system to be delivered/delivered at site.

** 90 days from date of the commissioning of the system/recovery from any incident, whichever is later.

d) The Responsible Entity shall routinely audit and test security properties of the Critical System and must act upon, in case if any new vulnerabilities is identified through testing or by the equipment manufacturer.

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e) The Responsible Entity shall design a secure architecture for control system appropriate for their process control environment*.

f) All State Load Dispatch Centres(SLDCs) shall comply with the directions issued by the National Load Dispatch Centre(NLDC) as well as Regional Load Dispatch Centres(RLDCs) U/s 29 (1) of the Electricity Act, 2003 to ensure stability and cyber security of grid operation and achieve efficiency in the grid operation. In case of any non-compliance, the Head of SLDC shall be responsible and shall be liable for Penalty as per the provision of CERC/SERC.

*There are so many different types of systems in existence and so many possible solutions, it is important that the selection process ensures that the level of protection is commensurate with the business risk and the Responsible Entity shall not rely on one single security measure for its defence. *(Reference IEC/TR62351-10 Edition1.0 2012-10 Power systems management and associated information exchange –Data and communications security – Part 10: Security architecture guidelines).*

Article 6. Cyber Risk Assessment and Mitigation Plan

a) The Responsible Entity shall document in their Cyber Security Policy a Cyber Risk Assessment and Mitigation Plans drawn upon the best practises being followed in the Power Sector, and the same shall be approved by Board of Directors.

b) The Cyber Risk Assessment and Mitigation Plans shall clearly define the matrix for assessing the cyber risk of both IT and OT environment and risk acceptance criteria.

c) The Cyber Risk Assessment Plan shall be capable to demonstrate that repeated cyber security risk assessment delivers consistent, valid and comparable results.

d) The review of cyber risk assessment shall be carried out at least once in a Quarter. The actionable of risk treatment and mitigation shall be tracked in this review for their effectiveness.

e) The CISO shall be responsible for implementation and regular review, on the basis of internal and external feedbacks, of the Cyber Risk Assessment and Mitigation Plans.

Article 7 Phasing out of Legacy System

a) As the life cycle of the Power System Equipment/System is longer than that of IT Systems deployed therein, the Responsible Entity shall ensure that all IT technologies in the Power System Equipment/System should have the ability to be upgraded.

b) The Responsible Entity shall ensure that the Information Security Division shall draw the list of all communicable equipments/systems nearing end life or are left without support from OEM. Thereafter CISO shall identify equipment/systems to be phased out from the list drawn, firm up their replacement plan and put up the replacement plan for approval before the Board of Directors.

c) The CISO shall ensure that ill equipments/systems nearing end life or left without support from OEM are not replaced, their cyber security is hardened and ensured through additional controls provisioned in consultation with the OEM or alternate Supplier(s)*.

*e.g. Use of CDAC developed AppSamvid and whitelisting of applications installed may be explored across all legacy systems.

d) The Responsible Entity shall document in their Cyber Security Policy a Standard Operating Procedure for safe and secure disposal of outlived or legacy [illegible]

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Article 8. Cyber Security Training.

a) The Responsible Entity shall establish, document, implement, and maintain an annual cyber security training program for personnel having authorized cyber or authorized physical access (unescorted or escorted) to their Critical Systems.

b) The Responsible Entity shall review annually their cyber security training program and shall update it whenever necessary. Annual Review shall record evaluation of the effectiveness of the trainings held.

c) The Responsible Entity shall ensure that Cyber Security training program designed for their IT as well as OT O&M Personnel must include following topics and as per their functional requirements and security concerns additional topics shall be added:

1) User authentication and authorization.
2) Cyber Security and Protection mechanisms of IT/OT/ICS Systems.
3) Introduction to various standards i.e. ISO/IEC:15408, ISO/IEC:24748-1, ISO: 27001, ISO: 27002, ISO 27019, IS 16335, IEC/ISO:62443.
4) Training on implementation of ISO/IEC 27001 and awareness on IEC 62443.
5) Vulnerability Assessment in the Critical System.
6) Monitoring and preserving of electronic logs of access of Critical Assets.
7) Detecting cyber-attacks on SCADA and ICS systems
8) The handling of Critical System during cyber crisis.
9) Action plans and procedures to recover or re-establish normal functioning of Critical Assets and access thereto following a Cyber Security Incident.
10) Hands on SCADA operation at any of the Regional Load Dispatch Centre.
11) Handling of risks involved in the procurement of COTS Products.

d) All Personnel engaged in O&M of IT & OT Systems shall mandatorily undergo courses on cyber security of Power Sector from any of the training institute designated by CEA, immediately within 90 days from the notification of CEA Guidelines on Cyber Security in Power Sector.

e) The Responsible Entity shall ensure that none of their newly hired or the current Personnel have access to the Critical System, prior to the satisfactory completion of cyber security training programme from the Training Institutes designated in India, except in specified circumstances such as cyber crisis or an emergency.

f) NPTI in consultation with CEA shall identify and design domain specific courses on Cyber Security for different target groups. The "Governing Board for PSO Training and Certification" shall approve the content, duration etc of these courses and shall review it Annually. NPTI shall conduct these courses at all of their branches on regular basis and shall maintain the list of the Participants successfully completing the course.

Article 9 Cyber Supply Chain Risk Management

a) The Responsible Entity shall ensure that, as and when Ministry of Power, Government of India notifies the Model Contractual Clauses on cyber security, these clauses are included in their every Bid invited for procurement of any ICT based components/equipments/System to be used for Power System.

b) The Responsible Entity shall ensure that all the Communicable Intelligent Equipments and the Service Level Agreements (SLAs) for their Critical Systems shall be sourced from the list of the "Trusted Sources" as and when drawn by MoP/CEA.

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c) The Responsible Entity shall ensure that, in case, for the any Communicable Intelligent Devices, if no Trusted Source has been identified, then the successful bidder in compliance with the provisions made in MoP order dated 2.7.2020 and any other relevant MoP order has got the product cyber tested for any kind of embedded malware/Trojan/cyber threat and for adherence to Indian Standards at the designated lab.

d) The Responsible Entity shall ensure that the essential cyber security tests are carried out successfully during FAT, SAT as detailed in **Annexure A**. The equipment/System besides for functionality shall also be tested in the factory for vulnerabilities, design flaws, parts being counterfeit or tainted, so as to minimize problems during on-site-testing and installation. Cyber Security Conformance Testing are to be carried out in the designated Lab as listed in **Annexure-I of MoP Order No. 12/13/2020-T&R dt. 8th June, 2021(Order at Annexure-B).**

e) The Responsible Entity shall ensure that the Equipment/System supplied by the successful bidder shall accompany with a certificate[§, #] obtained by OEM from a certification body accredited to assess devices and process for conformances to IEC 62443-4 standards during design and manufacture. The Responsible Entity shall accept the certificate submitted along with the supplied Equipment/System only if it's in line with the Testing Protocol as notified by Ministry of Power, Government of India, from time to time.

f) The Responsible Entity in compliance to the requirement of Article 9(c) shall also accept, till the setting up of an adequate certification facility in the India, a digitally signed self-declaration of conformance to the IEC 62443-4 standards during design and manufacture of the equipment/system, if submitted by the OEM.

g) The Responsible Entity shall dispose all unserviceable or obsolete Communicable Intelligent Devices as per the procedure laid in their Cyber Risk Assessment and Mitigation Plans which shall be in line with the prevailing best practices.

§ The National & International certification may be specified in the tender for critical systems/sub-systems being procured by the Responsible Entity.

Certification Schemes:
Embedded Device Security Assurance Certification is for an individual product,
System Security Assurance Certification is for a set of products in a system (possibly from different vendors)
Security Development Lifecycle Assurance Certification is for the development processes that a manufacturer uses for developing products.

Article 10 Cyber Security Incident Report and Response Plan

a) The CISO of the Responsible Entity shall report in the formats prescribed by CERT-In, all Cyber Security Incidents, classified as reportable events.

b) Root cause analysis for all reportable events shall be carried out and corrective action taken, so as to ensure that any re-occurrence of such event can be managed with ease.

c) The Responsible Entity shall mandatorily define in their Cyber Security Policy, criteria(s) identified on the basis of impact analysis, for declaring the occurrence of

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Cyber Security Incident(s) as a Cyber Crisis in the System owned or controlled by them.

d) The Responsible Entity shall mandatorily designate an Officer along with his/her standby by name and designation and empower them to declare an occurrence of the incident(s) as "Cyber Crisis". The contact details of these Officers shall be updated in the C-CMP within 15 days of changes if any due to transfer or superannuation etc.

e) The CISO shall ensure that during any Cyber Security Incident, ISD monitors and minutely records every details of cyber security events and incidents in both IT as well as the OT System owned or controlled by the Responsible Entity.

f) The CISO shall ensure that each cyber incident is handled strictly as per Cyber Security Incident Response Plan detailed in the latest C-CMP approved by the Board of Directors.

g) The Responsible Entity shall ensure that the efficacy of the Cyber Security Incident Response Plan is tested annually through mock drill(s) carried out, if feasible, as simulation exercise(s) or as table top exercise(s) with wider participation of their employees, in consultation with CERT-In and sectoral CERT. In case if any shortcoming is observed in the Cyber Security Incident Response Plan suitable changes shall be made in it.

h) The Responsible Entity shall ensure that the CISO compiles details of incident detection, incident handling, learnings from each incident and damage claims made if any and shall report to CERT-In as well as upload information on ISAC-Power Portal.

Article 11 Cyber Crisis Management Plan(C-CMP)

a) The Responsible Entity shall prepare a Cyber Crisis Management Plan and submit to their sectoral-CERT for review with intimation to Ministry of Power/CISO-MoP. Responsible Entity shall update their C-CMP on the basis of comments made by sectoral-CERT and then submit for vetting to CERT-In. The C-CMP shall be updated once again to include the observations made by CERT-In before seeking approval of Board of Directors for implementation of C-CMP.

b) The Responsible Entity shall ensure that the C-CMP is reviewed at least annually. The CISO shall ensure that all changes are made in C-CMP only with the due approval of Board of Directors and the changes made in C-CMP have been communicated through a verifiable means to all the concerned Personnel of the Responsible Entity.

c) The CISOs shall be the custodian of all the cyber security related documents including Cyber Crisis Management Plan, Risk Treatment Plan, Statement of Applicability of controls, and compliance to regulator's requirement.

d) The CISO shall be accountable for ensuring enforcement of C-CMP by Information Security Division of the Responsible Entity, during a cyber-crisis, as and when declared by the designated Officer. (refer Article 10(d))

Article 12: Sabotage Reporting%

a) The Responsible Entity shall incorporate procedure for identifying and reporting of sabotage in their Cyber Security Policy within 30 days from issue of the Guidelines, or grant of licence under the appropriate legal provisions to the Responsible Entity.

b) The CISO shall be held liable for non-reporting of identified sabotage(s) as per procedure laid for identifying and reporting of sabotage in the Cyber Security Policy of the Responsible Entity.

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c) The CISO shall prepare a detailed report on disturbances or unusual occurrences, identified, suspected or determined to be caused by sabotage in the Critical System of the Responsible Entity, and shall submit the report to the Sectoral CERT as well as to CERT-In within 24 hours of its occurrence.

d) The CISO shall submit to NCIIPC within 24 hours of occurrence the report on every sabotage classified as cyber incidents(s) on "Protected System".

e) The CISO upon occurrence on every sabotage shall take custody of all log records as well as digital forensic records of affected Cyber Assets, Intrusion Detection System, Intrusion Protection System, SIEM and shall preserve them for at least 90 days and shall make them available as and when called upon for investigation by the concerned Agencies.

[5]*Disturbances or unusual occurrences, suspected or determined to be caused by sabotage.*
Sabotage e.g. can be a forced intrusion in un-manned manned facility and taking control of operation of Critical System through a communicating device.

Article 13 Security and Testing of Cyber Assets

a) The Responsible Entity shall ensure security of all in-service phase as well as standby Cyber Assets through regular firmware/Software updates and patching, Vulnerability management, Penetration testing (of combined installations), securing configuration, supplementing security controls. CISO shall maintain details of update version of each firmware and software and their certification if received from OEMs.

b) The Responsible Entity shall carry out regularly Vulnerability Assessment of all Cyber Assets owned or under their control. If a Cyber Asset is found vulnerable to any exploits or upon any patch updates or major configuration changes, then further Penetration Testing may be carried out offline or in a suitably configured laboratory test-bed to determine other vulnerabilities that may have not been identified so far.

c) The Responsible Entity shall specify security requirement and evaluation criteria during each phase of their procurement Process.

d) The Responsible Entity shall ensure that all Cyber Assets being procured shall conform to the type tests as mentioned in the specification for type testing listed in the bid document. Type test reports of tests conducted in NABL accredited Labs or internationally accredited labs (with in last 5 years from the date of bid opening) shall be mandated to be submitted along with bid. In case, the submitted Type Test reports are not as per specification, the re-tests shall be conducted without any cost implication to the Responsible Entity.

e) The Responsible Entity shall ensure that all Communicable devices are tested for communication protocol as per the ISO/IEC/IS standards listed in **MoP Order No. 12/13/2020-T&R dated 8th June, 2021(Annexure-B).**

f) The Responsible Entity shall ensure that all Critical Systems designed with Open Source Software are adequately cyber secured.

g) The Responsible Entity as a best practise upon any incidence of Cyber Security Breach shall carry out cyber security tests or any lab designated for cyber testing by Ministry of Power. These tests shall be similar to Pre Commissioning Security Test and those essential for carrying out Post Incident Forensics Analysis.

Article 14 Cyber Security Audit

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a) The Responsible Entity shall implement Information Security Management System (ISMS) covering all its Critical Systems.

b) The Responsible Entity shall through a CERT-In Empanelled Cyber Security OT Auditor shall get their IT as well as OT System audited at least once in every 6 (six) months and shall close all critical and high vulnerabilities within a period of one month and medium as well as low non-conformity before the next audit. Effective closure of all non-conformities shall be verified during the next audit.

c) The Cyber Security Audit shall be as per ISO/IEC 27001 along with sector specific standard ISO/IEC 27019, IS 16335 and other guidelines issued by appropriate Authority if any. These mentioned standards shall be current with all amendments if any and in case if any standard is superseded, the new standard shall be applicable. CISO shall ensure immediate closure of non-conformance, based on the criticality and by means all non-conformances are to be closed before the next audit.

d) The Responsible Entity shall ensure that CISO has all the required systems and documents in place, as mandated by NSCS for base line cyber security audit.

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FAT & SAT

1. During FAT stage; the customer has to verify all types test reports / certificates including Communication protocol and security conformance tests of the devices offered for FAT.
2. FAT of SCADA involves testing as a whole system in the integrated scale down set up. For SCADA, Indian standard IS 15953: 2011 "SCADA System for Power System Applications" provides definition and guidelines for the specification, performance analysis and application of SCADA systems for use in electrical utilities (for transmission & Distribution) including guidance on Tests and inspections.
3. The SAT will be done at customer site as per the SAT document mutually agreed by buyer and supplier. For SAT also, guidance from IS 15953: 2011 need to be applied.
4. IEC 61850-10-3 Communication Networks and Systems For Power Utility Automation-Functional testing of IEC 61850 systems (in draft stage - CDTR) covers testing of applications within substations covering

   a. A methodical approach to the verification and validation of a substation solution
   b. The use of IEC 61850 resources for testing in Edition 2.1
   c. Recommended testing practices for different use cases
   d. Definition of the process for testing of IEC 61850 based devices and systems using communications instead of hard wired system interfaces (ex. GOOSE and SV instead of hardwired interfaces)
   e. Use cases related to protection and control functions verification and testing.

   This standard may be used as a guidelines for FAT & SAT for Substation Automation System (SAS) based on IEC 61850.

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Annexure - B

Annexure – 1

List of designated laboratories for cyber security conformance testing

Table -A. Field Equipment /Operational Technology (OT)

SL No.	Equipment	Communication Protocol Conformance Standards	Protocol Security Conformance Standards	Designated Laboratories
1	Remote Terminal Units (RTUs) & PLCs with IEC communications protocols	IEC 60870-5-101 / IEC 60870-5-104 (Test Details Annexure 2)	IEC 60870-5- 7 Security extension & IEC 62351 series (specifically IEC 62351-100 parts 1 & 3) (Test Details Annexure2	Central Power Research Institute (CPRI), Prof Sir C V Raman Road, Sadashivanagar P O, Bengaluru – 560080, Karnataka
2	Intelligent Electronic Equipment / Numerical Protection Relays / Bay Control Units / Bay Protection Units, Gateways, Transformer Tap controller/ changer, etc. with IEC 61850 communication protocol	IEC 61850 – 5 to IEC 61850 – 10 (Test Details Annexure 2)		CPRI
3	Smart meters with IEC 62056 communication protocols	IEC 62056 series / DLMS & IS 15959 series and IS 16444 series (Test details Annexure 2)	IEC 62056 series / DLMS & IS 15959 series and IS 16444 series (Test Details Annexure 2)	1. CPRI 2. Electrical Research and Development Association (ERDAA) ERDA Road, GIDC, Makarpura, Vadodara – 390 010 Gujarat 3. Yadav Measurements Pvt. Ltd. (YMPL) 171-175, RIICO Bhamashah Industrial Area Kaladwas 313003 Udaipur – Rajasthan

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Information Technology (IT) Equipment (Main / Backup / Disaster recovery (DR) Control Centre / Substation control centre IT equipment)

All IT products procured /supplied shall have a valid Certificate of Common Criteria as per ISO/IEC 15408 issued by signatories of the Common Criteria Recognition Agreement (CCRA) (www.commoncriteriaportal.org).

Import/procurement/supplied from vendors sourcing from prior reference countries, the Certificate for Common Criteria shall be from Government Laboratories in India according to the ICTS scheme operated by Ministry of Electronics and Information Technology, which is a signatory to CCRA.

https://www.commoncriteria-india.gov.in/

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Details of tests for various identified products

Remote Terminal Units (RTUs) (Sl. No. 1 of Table – A of Annexure – 1)

Test protocol:

Utilities / manufacturers will submit the sample along with all the required technical documentation for taking up testing to the designated laboratory.

Reference standards

1) IEC 60870-5-101 & IEC 60870-5-104 as applicable

2) IEC 60870-5-7 Telecontrol equipment and systems – Part 5-7: Transmission protocols – Security extensions to IEC 60870-5-101 and IEC 60870-5-104 protocols (applying IEC 62351)

3) IEC 62351-100-1 & IEC 62351-100-3 and other cross referenced standards.

Test cases

Extract from standard (IEC 62351-100-1)

The conformance test cases are divided into four classes:

- Clause 5: Verification of configuration parameters. This clause contains the configuration parameters affecting the message contents and/or the protocol behaviour.
- Clause 6: Verification of communication. The goal of this clause is to verify that Device Under Test (DUT) is able to implement the security extension messages as described in IEC TS 60870-5-7.
- Clause 7: Verification of procedures. The goal of this clause is to verify that DUT is able to execute the security extension procedures as described in IEC TS 62351-5.
- Clause 8: Test result chart. This clause contains the results of the test cases listed in Clause 6 and 7 for each supported value of the configuration parameters listed in Clause 5.

The test cases are organized in tables. They are numbered; their numbering system is: Subclause number (where the Table is located) + test case number.

In the column 'reference' each test case has a direct reference to IEC TS 62351-5 or IEC TS 60870-5-7 where the clause under test is defined.

Test cases are mandatory depending on the description in the column 'Required'. The following situations are possible:

M = Mandatory test case. The test is referencing a clause that is mandatory in IEC TS 62351-5 or IEC TS 60870-5-7.

Protocol Information Conformance Statement (PICS) x, x – Mandatory test case if the functionality is enabled in the PICS (by marking the applicable check box), with a reference to the section number of the PICS (x.x).

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Conformance testing of security extension procedures

The security extension procedures can be summarized as follows:

- User management
- Update key maintenance
- Session key maintenance
- Challenge/Reply authentication
- Aggressive Mode authentication

Extract from standard (IEC 62351-100-3)

IEC 62351-3 defines the requirements related to the authentication/encryption protocol, procedures and methods to be implemented at TCP/IP (transport) level.

The conformance test cases are divided into three clauses:

- Clause 5: Verification of configuration parameters. This clause contains the parameters specified by the standards referencing IEC 62351-3 (see IEC 62351-3:2014/AMD1:2018, Clause 7) and affecting the protocol behaviour.
- Clause 6: Verification of IEC 62351-3 requirements. The goal of this clause is to verify that DUT is conformant to the requirements of the IEC 62351-3.
- Clause 7: Test result chart. This clause contains the results of the test cases listed in Clause 6 for each supported value of the configuration parameters listed in Clause 5.

The test cases are organized in tables. They are numbered, their numbering syntax is: Subclause number (where the table is located) - test case number.

In the column 'Reference' each test case has a direct reference to IEC 62351-3 where the clause under test is defined. PICS or Protocol Implementation eXtra Information for Testing (PIXIT) could be found in the "Reference" column for some test cases whenever the execution of the test case shall take into account specific parameter values declared in the PICS or PIXIT of the DUT.

Test cases are mandatory depending on the description in the column 'Required'. The following situations are possible:

M - Mandatory test case. The test is referencing to a clause that is mandatory in IEC 62351-3.

PICS

or

PIXIT - Mandatory test case if the functionality is enabled in the PICS or PIXIT by marking the applicable check box or declaring the applicable value.

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Intelligent Electronic Devices (IEDs) (Sl. No. 2 of Table – A of Annexure – 1)

Utilities / manufacturers will submit the sample along with all the required technical documentation for taking up testing to the designated laboratory.

Reference standards

IEC 61850 series.

Specifically IEC 61850-5, IEC 61850-6, IEC 61850-7, IEC 61850-8, IEC 61850-9 and IEC 61850-10

Test cases

Communication protocol conformance as per IEC 61850 -10. This part of standard defines methods and abstract test cases for conformance testing of client, server and sampled values devices used in power utility automation systems, the methods and abstract test cases for conformance testing of engineering tools used in power utility automation systems, and the metrics to be measured within devices according to the requirements defined in IEC 61850-5. Further this part of standard specifies standard techniques for testing of conformance of client, server and sampled value devices and engineering tools, as well as specific measurement techniques to be applied when declaring performance parameters. The use of these techniques will enhance the ability of the system integrator to integrate IEDs easily, operate IEDs correctly, and support the applications as intended.

Smart Meters (Sl. No. 3 of Table – A of Annexure – 1)

Utilities / manufacturers will submit the sample along with all the required technical documentation for taking up testing to the designated laboratory.

IEC 62056 series of standards (Electricity metering data exchange – The DLMS/COSEM suite) specifies details of communication protocol requirements, conformance testing and security requirements. The Part 5-3 (DLMS/COSEM application layer) specifies the DLMS/COSEM application layer in terms of structure, services and protocols for DLMS/COSEM clients and servers, and defines rules to specify the DLMS/COSEM communication profiles. It defines services for establishing and releasing application associations, and data communication services for accessing the methods and attributes of COSEM interface objects, defined in IEC 62056-6-2 using either logical name (LN) or short name (SN) referencing.

Clause 5 and sub clauses specifies security requirements. It cover security concepts, Identification and authentication, Cryptographic algorithms, Cryptographic keys – overview, Key used with symmetric key algorithms, Keys used with public key algorithms and Applying cryptographic protection.

Note: All above refered standards shall be latest with amendments if any at the time of submission of sample(s) for testing.

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Annexure – 3

Testing Criteria

1) Supply from Trusted Sources

The sample size shall be as specified by CEA as per the approved criteria for Trusted Vendors

2) Supply from other than trusted vendors

The sample size shall be shall be 5% of the supply lot / ordered quantity (minimum one). The manufacturer shall submit request to the Nodal agency along with vendor's / manufacturer's certifications for supply chain management system practices and secure product development process implementations based on any one or more of standards ISO / IEC 27036, ISO / IEC 20243, IEC 62443 for verification.

After scrutiny of vendor's / manufacturer's certifications the supplier / utilities shall be asked to submit product to the designated laboratory for communication and cyber security conformance testing.

The supply lot shall stand rejected on failure to comply with the test requirements.

3) Supply from prior reference countries

The utility shall obtain prior permission from the Government of India for importing the product / system from prior reference countries.

The sample size shall be shall be 10 % of the supply lot / ordered quantity (minimum one). The manufacturer shall submit request to the Nodal agency along with vendor's / manufacturer's certifications for supply chain management system practices and secure product development process implementations based on any one or more of standards ISO / IEC 27036, ISO / IEC 20243, IEC 62443 for verification.

After scrutiny of vendor's / manufacturer's certifications the supplier / utilities shall be asked to submit product to the designated Government / Government controlled Autonomous laboratory for type tests (Annexure – 4) and communication & cyber security conformance testing.

The supply lot shall stand rejected on failure to comply with the test requirements.

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Annexure – 4

Type Tests

Products imported from prior reference countries shall also undergo type testing as per following standards in addition to communication protocol and security conformance testing at the designated Government / Government controlled Autonomous laboratory:

Type test standards for RTUs

1. IEC 60870-1-2:1989 Telecontrol equipment and systems. Part 1: General considerations. Section Two: Guide for specifications.
2. IEC 60870-2-1:1995 Telecontrol equipment and systems - Part 2: Operating conditions - Section 1: Power supply and electromagnetic compatibility.
3. EC 60870-2-2:1996 Telecontrol equipment and systems - Part 2: Operating conditions -Section 2: Environmental conditions (climatic, mechanical and other non-electrical influences).
4. IEC 60870-3:1989 Telecontrol equipment and systems. Part 3: Interfaces (electrical characteristics)

Type test standard for IEDs / Numerical Protection Relays / Bay controls units

1. IEC 61850-3: 2013, Ed. 2 Communication networks and systems for power utility automation – Part 3: General requirements.

Type test standards for Smart meters

1. IS 16444: 2015 AC static direct connected watthour smart meter class 1 and 2 – Specification.
2. IS 16444 Part 2: 2017 AC static transformer operated watthour and var – Hour smart meters, class 0.2 S, 0.5 S and 1.0 S: Part 2 specification transformer operated smart meters.

Note:

1. All above referred standards shall be latest with amendments if any at the time of submission of sample(s) for testing.
2. Type tests generally covers functionality, environmental, mechanical, EMI/ EMC and electrical safety related tests.

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No. 20(3)/2022-CERT-In
Government of India
Ministry of Electronics and Information Technology (MeitY)
Indian Computer Emergency Response Team (CERT-In)

Electronics Niketan,
6 CGO Complex,
New Delhi-110003

Dated: 28 April, 2022

Subject: Directions under sub-section (6) of section 70B of the Information Technology Act, 2000 relating to information security practices, procedure, prevention, response and reporting of cyber incidents for Safe & Trusted Internet.

Whereas, the Central Government in terms of the provisions of sub-section (1) of section 70B of Information Technology (IT) Act, 2000 (IT Act, 2000) has appointed "Indian Computer Emergency Response Team (CERT-In)" vide notification dated 27th October 2009 published in the official Gazette and as per provisions of sub-section (4) of section 70B of IT Act, 2000 The Indian Computer Emergency Response Team shall serve as the national agency for performing the following functions in the area of cyber security:-

a) collection, analysis and dissemination of information on cyber incidents;
b) forecast and alerts of cyber security incidents;
c) emergency measures for handling cyber security incidents;
d) coordination of cyber incidents response activities;
e) issue guidelines, advisories, vulnerability notes and whitepapers relating to information security practices, procedures, prevention, response and reporting of cyber incidents;
f) such other functions relating to cyber security as may be prescribed.

And whereas, "The Information Technology (The Indian Computer Emergency Response Team and Manner of performing functions and duties) Rules, 2013" were notified and published vide notification dated 16.01.2014 by the Central Government in exercise of the powers conferred by clause (zf) of sub-section (2) of section 87 read with sub-section (5) of section 70B of the IT Act, 2000.

And whereas, as per provisions of sub-section (6) of section 70B of the IT Act, 2000, CERT-In is empowered and competent to call for information and give directions to the service providers, intermediaries, data centres, body corporate and any other person for carrying out the activities enshrined in sub-section (4) of section 70B of the IT Act, 2000.

And whereas, various instances of cyber incidents and cyber security incidents have been and continue to be reported from time to time and in order to coordinate response activities as well as emergency measures with respect to cyber security incidents, the requisite information is either sometime not found available or readily not available with service providers/data centres/body corporate and the said primary information is essential to carry out the analysis, investigation and coordination as per the process of law.

And whereas, it is considered expedient in the interest of the sovereignty or integrity of India, defence of India, security of the state, friendly relations with foreign states or public order or for preventing incitement to the commission of any cognizable offence using computer resource or for handling of any cyber incident, that following directions are issued to augment and strengthen the cyber security in the country:

(i) All service providers, intermediaries, data centres, body corporate and Government organisations shall connect to the Network Time Protocol (NTP) Server of National Informatics Centre (NIC) or National Physical Laboratory (NPL) or with NTP servers traceable to these NTP servers, for synchronisation of all their ICT systems clocks. Entities having ICT infrastructure spanning multiple geographies may also use accurate and standard time source other than NPL and NIC, however it is to be ensured that their time source shall not deviate from NPL and NIC.

(ii) Any service provider, intermediary, data centre, body corporate and Government organisation shall mandatorily report cyber incidents as mentioned in Annexure I to CERT-In within 6 hours of noticing such incidents or being brought to notice about such incidents. The incidents can be reported to CERT-In via email (incident@cert-in.org.in), Phone (1800-11-4949) and Fax (1800-11-6969). The details regarding methods and formats of reporting cyber security incidents is also published on the website of CERT-In www.cert-in.org.in and will be updated from time to time.

(iii) When required by order/direction of CERT-In, for the purposes of cyber incident response, protective and preventive actions related to cyber incidents, the service provider/intermediary/data centre/body corporate is mandated to take action or provide information or any such assistance to CERT-In, which may contribute towards cyber security mitigation actions and enhanced cyber security situational awareness. The order / direction may include the format of the information that is required (up to and including near real-time), and a specified timeframe in which it is required, which should be adhered to and compliance provided to CERT-In, else it would be treated as non-compliance of this direction. The service providers, intermediaries, data centres, body corporate and Government organisations shall designate a Point of Contact to interface with CERT-In. The Information relating to a Point of Contact shall be sent to CERT-In in the format specified at Annexure II and shall be updated from time to time. All communications from CERT-In seeking information and providing directions for compliance shall be sent to the said Point of Contact.

(iv) All service providers, intermediaries, data centres, body corporate and Government organisations shall mandatorily enable logs of all their ICT systems and maintain them securely for a rolling period of 180 days and the same shall be maintained within the Indian jurisdiction. These should be provided to CERT-In along with reporting of any incident or when ordered / directed by CERT-In.

(v) Data Centres, Virtual Private Server (VPS) providers, Cloud Service providers and Virtual Private Network Service (VPN Service) providers, shall be required to register the following accurate information which must be maintained by them for a period of 5 years or longer duration as mandated by the law after any cancellation or withdrawal of the registration as the case may be:

a. Validated names of subscribers/customers hiring the services
b. Period of hire including dates
c. IPs allotted to / being used by the members
d. Email address and IP address and time stamp used at the time of registration / on-boarding
e. Purpose for hiring services
f. Validated address and contact numbers
g. Ownership pattern of the subscribers / customers hiring services

(vi) The virtual asset service providers, virtual asset exchange providers and custodian wallet providers (as defined by Ministry of Finance from time to time) shall mandatorily maintain all information obtained as part of Know Your Customer (KYC) and records of financial transactions for a period of five years so as to ensure cyber security in the area of payments and financial markets for citizens while protecting their data, fundamental rights and economic freedom in view of the growth of virtual assets.

For the purpose of KYC, the Reserve Bank of India (RBI) Directions 2016 / Securities and Exchange Board of India (SEBI) circular dated April 24, 2020 / Department of Telecom (DoT) notice September 21, 2021 mandated procedures as amended from time to time may be referred to as per Annexure III.

With respect to transaction records, accurate information shall be maintained in such a way that individual transaction can be reconstructed along with the relevant elements comprising of, but not limited to, information relating to the identification of the relevant parties including IP addresses along with timestamps and time zones, transaction ID, the public keys (or equivalent identifiers), addresses or accounts involved (or equivalent identifiers), the nature and date of the transaction, and the amount transferred.

And whereas, the meaning to the terms 'cyber incident' or 'cyber security incident' or 'computer resource' or other terms may be ascribed as defined in the IT Act, 2000 or "The Information Technology (The Indian Computer Emergency Response Team and Manner of performing functions and duties) Rules, 2013" as the case may be.

And whereas, in case of any incident, the above-referred entities must furnish the details as called for by CERT-In. The failure to furnish the information or non-compliance with the ibid. directions, may invite punitive action under sub-section (7) of the section 70B of the IT Act, 2000 and other laws as applicable.

This direction will become effective after 60 days from the date on which it is issued.

*****

Annexure I

Types of cyber security incidents mandatorily to be reported by service providers, intermediaries, data centres, body corporate and Government organisations to CERT-In:

[Refer Rule 12(1)(a) of The Information Technology (The Indian Computer Emergency Response Team and Manner of Performing Functions and Duties) Rules, 2013]

i. Targeted scanning/probing of critical networks/systems
ii. Compromise of critical systems/information
iii. Unauthorised access of IT systems/data
iv. Defacement of website or intrusion into a website and unauthorised changes such as inserting malicious code, links to external websites etc.
v. Malicious code attacks such as spreading of virus/worm/Trojan/Bots/ Spyware/Ransomware/Cryptominers
vi. Attack on servers such as Database, Mail and DNS and network devices such as Routers
vii. Identity Theft, spoofing and phishing attacks
viii. Denial of Service (DoS) and Distributed Denial of Service (DDoS) attacks
ix. Attacks on Critical infrastructure, SCADA and operational technology systems and Wireless networks
x. Attacks on Application such as E-Governance, E-Commerce etc.
xi. Data Breach
xii. Data Leak
xiii. Attacks on Internet of Things (IoT) devices and associated systems, networks, software, servers
xiv. Attacks or incident affecting Digital Payment systems
xv. Attacks through Malicious mobile Apps
xvi. Fake mobile Apps
xvii. Unauthorised access to social media accounts
xviii. Attacks or malicious/ suspicious activities affecting Cloud computing systems/servers/software/applications
xix. Attacks or malicious/suspicious activities affecting systems/ servers/ networks/ software/ applications related to Big Data, Block chain, virtual assets, virtual asset exchanges, custodian wallets, Robotics, 3D and 4D Printing, additive manufacturing, Drones

xx. Attacks or malicious/ suspicious activities affecting systems/ servers/software/ applications related to Artificial Intelligence and Machine Learning

The incidents can be reported to CERT-In via email (incident@cert-in.org.in), Phone (1800-11-4949) and Fax (1800-11-6969). The details regarding methods and formats of reporting cyber security incidents is also published on the website of CERT-In www.cert-in.org.in and will be updated from time to time.

*****

Annexure II

Format for providing Point of Contact (PoC) information by Service providers, intermediaries, data centres, body corporate and Government organisations to CERT-In

The Information relating to the Point of Contact shall be sent to CERT-In via email (info@cert-in.org.in) in the format specified below and shall be updated from time to time:

Name	
Designation	
Organisation Name	
Office Address	
Email ID	
Mobile No.	
Office Phone	
Office Fax	

*****

Annexure III

KYC Requirements

For the purpose of KYC, any of following Officially Valid Document (OVD) as a measure of identification procedure prescribed by the Reserve Bank of India (Know Your Customer (KYC)) Directions, 2016 / Securities and Exchange Board of India Clarification on Know Your Client (KYC) Process and Use of Technology for KYC vide Circular SEBI/HO/MIRSD/DOP/CIR/P/2020/73 dated April 24, 2020 / The Department of Telecom File No: 800-12/2021- AS.II dated September 21, 2021 on Self-KYC (S-KYC) as an alternate process for issuing of new mobile connections to Local and Outstation category customers, shall be used and maintained:

a. The passport,
b. The driving license,
c. Proof of possession of Aadhaar number,
d. The Voter's Identity Card issued by the Election Commission of India,
e. Job card issued by NREGA duly signed by an officer of the State Government and
f. Letter issued by the National Population Register containing details of name and address.
g. Validated phone number
h. Trading account number and details, Bank account number and bank details

For the purpose of KYC for business entities (B2B), documents mentioned in the Customer Due Diligence (CDD) process prescribed in Reserve Bank of India Master Direction - Know Your Customer (KYC) Direction, 2016 as updated from time to time shall be used and maintained.

*****

Document verified by [illegible]
Digitally signed by [illegible]
Date: [illegible]
Reason: [illegible]
Location: [illegible]

Annexure-10-E/4

RAJ PAL
आर्थिक सलाहकार
Economic Adviser
Tel. No.: 011-23715555
E-mail : raj.pal@nic.in

SECRET/IMMEDIATE
भारत सरकार
GOVERNMENT OF INDIA
विद्युत मंत्रालय
MINISTRY OF POWER
शरम शक्ति भवन, रफी मार्ग
SHRAM SHAKTI BHAWAN, RAFI MARG
नई दिल्ली - 110001
NEW DELHI - 110001

D.O.No. 28/14/2018-Coord

the February 27th 2019

Dear Shri Singh

Enclosed please find communication number VI-23014/205/2015-VS dated 25th February, 2019 from Ministry of Home Affairs, VIP Security Unit regarding maintaining high level of alertness and strengthening security arrangements at vital installations, given the current context.

I request you to kindly take appropriate action for complying with the instructions strictly.

With regards,

Yours sincerely,

(Raj Pal)

Shri Gurdeep Singh
Chairman & Managing Director
NTPC Limited
NTPC Bhawan,
SCOPE Complex, Institutional Area,
Lodhi Road, New Delhi- 110003

INTERNAL INFORMATION

Document verified by PARMAL PITUSH
Digitally signed by PARMAL PITUSH
Date: 2024.07.17 14:26:07
Reason: ACE (Management)
Location: NTPC Limited

SECRET

F.No.1/6/2011/IT (E-22-Part-1)(246967)
Government of India
Ministry of Power

Shram Shakti Bhavan, Rafi Marg,
New Delhi, Dated: 23rd October, 2019

To

1. Chairperson-CEA
2. CMD-NTPC/NHPC/POWERGRID/PFC/REC/NEEPCO/THDC/POSOCO/SJVNL
3. Chairman-DVC/BBMB
4. DG-BEE/NPTI/CPRI
5. Secretary-CERC/APTE
6. MD-EESL
7. CISO-MoP [Kind.Attn. Shri MARP Singh, CE(IT), CEA)]
8. CERT-Thermal/Hydro/Transmission/Distribution
9. Sr.Tech.Dir. (NIC)-MoP

All concerned

Sir,

I am directed to inform that reliable inputs indicate that Pak based anti-India agencies have prepared a blue print to hack/exploit computer/cyber systems in India and are exploring capabilities towards implementing the same immediately.

2. This new strategy aims to concentrate efforts towards disrupting important Indian economic hubs and vital installations, through cyber attacks and disrupting the computer systems as an alternative to trans-border terrorism. Such attacks, especially on our power, transport, financial and energy related systems, can potentially damage economic activities in the country and cause large scale disruption in affected areas/sectors.

3. Keeping in view of the prevailing security scenario in the country, it is requested to urgently review and strengthen the cyber/computer and physical security of vital installations and critical infrastructure.

4. The matter may be accorded top priority.

Yours Faithfully,

[redacted]

(Praveen Kumar)
[redacted] Under Secretary to the Govt. of India
Tel.No.23715507 ext. 281
[redacted]@nic.in

(67)

Annexure-II

पत्रांक- 2348 (मु०अ०)
दिनांक- 5-8-17

कार्यालय प्रमुख अभियन्ता
(जल संसाधन अनुभाग)
सिंचाई विभाग, उ०प्र०, लखनऊ

पत्रांक: /अभि०-2/मु०अ०/ / लखनऊ दिनांक: 1/8/2017

कार्यालय-ज्ञाप

शासनादेश सं०-2303/11-27-सिं०-4-08(टी०)/02 दिनांक 13.07.2011 द्वारा उपभोक्ताओं उपयोग हेतु पानी की कमाण्ड एरिया (Command Area) प्रति अनुदेश/प्रति वर्ष एवं जल कर हेतु रू० 1240 (केवल रुपये एकसौ चालीस मात्र) प्रति हजार घनमीटर निर्धारित की गई है।

उक्त शासनादेश दिनांक 13.07.2011 में निहित प्राविधानों के अनुसार निर्धारित दरों पर रबी एवं जायद दोनों की वसूली हेतु निम्नानुसार आदेश प्रसारित किये जाते हैं:-

(क) प्रत्येक वर्ष उन्हीं उपभोक्ताओं से जहाँ तक रबी एवं जायद की वसूली की जा रही है के लगान प्रपत्र में संकलित होने पर रबी एवं जल कर की वसूली सुनिश्चित की जायेगी।

(ख) उत्तर प्रदेश, शासन के अधीन किसी भी शासकीय विभाग, स्थानीय संस्था अथवा निगम की सिंचाई एवं जल की वसूली हेतु रबी दरों पर नहीं की जायेगी।

(ग) उपभोक्ता विभाग/संस्था को जल वसूली किये जाने हेतु शासकीय सीमा/ग्राम सभा/ग्राम पंचायत अनुदेश अधिशासी अभियन्ता/अधिशासी अभियन्ता द्वारा निर्धारित नहीं किया जायेगा।

(घ) सभी जल उपभोक्ताओं से वसूलित राजस्व की वसूली हेतु वसूली किये जाने के समय की वसूलित धनराशि सुनिश्चित किया जाय। संबंधित अधिशासी अभियन्ता/अधिशासी अभियन्ता इसे सुनिश्चित करेंगे।

उपरोक्त आदेश तत्काल प्रभावी होंगे।

(विनोद कुमार)
प्रमुख अभियन्ता एवं विभागाध्यक्ष

पत्रांक:वि०अ० /अभि०-2/मु०अ०/ /अधिशासन

प्रतिलिपि निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित:

1. प्रमुख सचिव, सिंचाई, उत्तर प्रदेश, शासन, लखनऊ।
2. प्रमुख अभियन्ता(सिविल) एवं विभागाध्यक्ष, सिंचाई विभाग, उ०प्र०, लखनऊ।
3. मुख्य अभियन्ता/ग्रेडमैप/विशेषज्ञ/अभियन्ता, एवं मेरठ/बरेली, अतिरिक्त मुख्य अभियन्ता, सिंचाई विभाग, उ०प्र०, लखनऊ।
4. अधीक्षण अभियन्ता(मु०अ०-2), सं० ए० सिंचाई विभाग, उ०प्र०, को शासनादेश सं०-2303/11-27-सिं०-4-08(टी०)/02 दिनांक 13.07.2011 की शासनादेश सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है। (अधिशासन अभियन्ता)

मुख्य अभियन्ता (जल संसाधन)

विषयः अनुदान-4

संख्या-[illegible]/[illegible]-[illegible]-[illegible]

लखनऊ: दिनांक [illegible] जुलाई, [illegible]

आवंटन-आदेश

[illegible]

[illegible]

[illegible]

Details/ Information to be provided to beneficiaries under clause (7) of Regulation 36 of CERC (Terms and Conditions of Tariff) Regulations, 2024

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges:

NTPC Ltd

National Capital Thermal Power Station, Dadri Stage-I *

Fuel: Coal Month -Oct'24

S. No.	Particulars	Unit	Domestic	Imported
1	Quantity of coal/lignite supplied by Coal/Lignite Company **	MT	[illegible]	[illegible]
2	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	MT	[illegible]	[illegible]
3	Coal supplied by Coal/Lignite Company (1+2)	MT	[illegible]	[illegible]
4	Net coal/ lignite consumed (Pit head/ Bunker) (For cross check purpose only)	MT	[illegible]	[illegible]
5	Net coal / lignite consumed (3-4)	MT	[illegible]	[illegible]
6	Amount charged by the coal/ lignite company **	Rs	[illegible]	[illegible]
7	Adjustment (+/-) in amount charged made by Coal/Lignite Company	Rs		
8	Total amount Charged (6+7)	Rs	[illegible]	[illegible]
9	Transportation charges by railway/road/ conveyor	Rs	[illegible]	
10	Adjustment (+/-) in transportation charges made by Railway/Transport Company	Rs		
11	Demurrage Charges, if any	Rs		
12	Cost of Diesel in transporting coal through MGR system, if applicable	Rs		
13	Total transportation Charges (9+10+11+12)	Rs	[illegible]	[illegible]
13A	Value of diesel used for starting/ flame out of coal mills etc. (A)	Rs	[illegible]	[illegible]
14	Total amount charged for the coal/ lignite supplied including transportation (8+13+13A)	Rs	[illegible]	[illegible]
15	Landed cost of Coal/Lignite (14/3)	Rs/MT	[illegible]	[illegible]
16	Handling Rate (Domestic / Imported)		[illegible]	[illegible]
17	Weighted average cost of coal/ lignite	Rs/MT	[illegible]	
18	GCV of the coal as per LOA of coal company (Pit Head)	Kcal/Kg	[illegible]	
19	GCV of stock last unloaded as per MIS of coal company (NCR Basis)	Kcal/Kg		No stock during the month
20	Weighted average GCV of coal/ lignite as fired**	Kcal/Kg	[illegible]	
21	GCV of domestic coal as received at site as per TPR Basis	Kcal/Kg	[illegible]	
22	GCV of imported coal as received at site as per TPR Basis	Kcal/Kg		
23	Weighted average GCV of coal/ lignite as fired (TPR Basis)	Kcal/Kg	[illegible]	

* This includes Imported coal.
** This includes value of handling cost.
* Excluding Washery, Crushers & Overhead Coal.
** Average GCV has been taken from Daily Washed Coal, Washery Coal & Overhead Coal.

Dy. GM (Fuel) / C.O.C. NTPC/NCR
[illegible]

[illegible] NTPC Limited

Designation: [illegible]
Name: [illegible]
Date: [illegible]
Reason: [illegible]
Location: NTPC [illegible]

Details/Information to be provided to beneficiaries under clause (7) of Regulation 30 of CERC (Terms and Conditions of Tariff) Regulations, 2014

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges:

NTPC Ltd

National Capital Thermal Power Station, Dadri Stage-I

Fuel: Coal Month -Nov.'18

S. No.	Particulars	Unit	Domestic	Imported
1	Quantity of Coal/Lignite supplied by Coal/Lignite Company @	MT	[illegible]	[illegible]
2	Any amount recovered from quantity supplied made by Coal/Lignite Company	MT	[illegible]	[illegible]
3	Coal supplied by Coal/Lignite Company (1-2)	MT	[illegible]	[illegible]
4	Normative Transit & Handling losses For coal/Lignite based Revenue	MT	[illegible]	[illegible]
5	Net coal / Lignite Supplied (3-4)	MT	[illegible]	[illegible]
6	Amount Charged by the Coal/Lignite Company @@	Rs	[illegible]	[illegible]
7	Adjustment (if) in amount charged made by Coal/Lignite Company	Rs		
8	Total amount Charged (6+7)	Rs	[illegible]	[illegible]
9	Transportation charges by rail/road/inland waterway	Rs	[illegible]	
10	Adjustment (if) in amount charged made by Railway/Transport Company	Rs		
11	Demurrage Charges, if any	Rs	[illegible]	
12	Cost of Diesel in transporting coal through MGR system, if applicable	Rs		
13	Total Transportation Charges (9+10+11+12)	Rs	[illegible]	[illegible]
13A	Other Charges (Specify nature when not)	Rs	[illegible]	[illegible]
14	Total amount charged for the coal/lignite supplied including transportation (8+13+13A)	Rs	[illegible]	[illegible]
15	Landed cost of Coal/Lignite (14/3)	Rs/MT	[illegible]	[illegible]
16	Handling Rate (Wagon / Wagon load)		[illegible]	[illegible]
17	Weighted average GCV of coal/lignite	Kcal/Kg	[illegible]	
18	GCV as received - net as per No. of coal samples* (21 days)	Kcal/Kg	[illegible]	
19	GCV of imported coal as per LR of coal consignor (NCR Report)	Kcal/Kg		Not covered during the period
20	Weighted average GCV of coal/lignite as received (19/18)**	Kcal/Kg	[illegible]	
21	GCV of Washed Coal as received at station (TM Report)	Kcal/Kg	[illegible]	
22	GCV of Imported Coal as received at Mines (TM Report)	Kcal/Kg		
23	Weighted average GCV of coal/lignite as received (TM Report)*	Kcal/Kg	[illegible]	

@ Free from any handling cost.

@@ Excl. includes value of handling cost.

* Excluding Washed, E Auction, & Imported Coal.

** Weighted average GCV has to match with that indicated Washed Coal, E Auction Coal & Imported Coal.

Verified by me

Sd/- [illegible]

By the order C.P. AGRAWAL

Chief Manager (Fuel)

NTPC Ltd. Dadri Project

Dadri (Distt. Gautam Buddha Nagar)

Uttar Pradesh

Sd/- [illegible]

Chief Manager (Fuel)

NTPC Limited

Dadri Project

Digitally signed by [illegible]

Date: [illegible] 17:14:35 IST

Reason: [illegible]

Location: NTPC Dadri

Details information to be furnished to beneficiaries under clause 17( ) of Regulation 38 of CERC (Terms and Conditions of Tariff) Regulations, 2014

Details/information to be submitted in respect of Fuel for Computation of Energy Charges:

NTPC Ltd

National Capital Thermal Power Station, Dadri Stage-I *

Fuel: Coal Month -Dec.'19

S. No.	Particulars	Units	Domestic	Imported
1	Quantity of Coal/Lignite supplied by the Fuel Supply Company #	MT	[illegible]	[illegible]
2	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	MT	[illegible]	[illegible]
3	Coal supplied by Coal/Lignite Company (1+2)	MT	[illegible]	[illegible]
4	Washery/Beneficiation & Handling Losses (for Coal/Lignite based Projects)	MT	[illegible]	[illegible]
5	Net coal / Lignite Supplied (3-4)	MT	[illegible]	[illegible]
6	Amount Charged by the Coal/Lignite company ##	Rs	[illegible]	[illegible]
7	Adjustment (+/-) in amount charged made by Coal/Lignite Company	Rs		
8	Total amount Charged (6+7)	Rs	[illegible]	[illegible]
9	Transportation charges by rail/road/ropway/conveyor	Rs	[illegible]	
10	Adjustment (+/-) in amount charged made by Transport Company	Rs		
11	Net Transport Charges (9+10)	Rs	[illegible]	
12	Cost of diesel in transporting coal through MGR system (if applicable)	Rs		
13	Total Transportation Charges (11+12)	Rs	[illegible]	[illegible]
13A	Unloading/Handling charges (i.e. Wagon tippler etc.)	Rs	[illegible]	[illegible]
14	Total amount charged for the coal/lignite supplied including transportation (8+13+13A)	Rs	[illegible]	[illegible]
15	Landed cost of coal/Lignite (14/5)	Rs/MT	[illegible]	[illegible]
16	Price of Diesel (Specify if imported)		[illegible]	[illegible]
17	Weighted average cost of coal/Lignite	Rs/MT	[illegible]	
18	GCV of Domestic coal as per bill of coal Company* (Analysis)	Kcal/kg	[illegible]	
19	GCV of imported coal as per bill of coal company (NCV Basis)	Kcal/kg		[illegible]
20	Weighted Average GCV as received/ as billed**	Kcal/kg	[illegible]	
21	GCV of Diesel Oil as received at Station (CV Basis)	Kcal/kg	[illegible]	
22	GCV of Heavy fuel oil as received at Station (CV basis)	Kcal/kg		
23	Weighted average GCV of coal/Lignite as fired (CV Basis)	Kcal/kg	[illegible]	

This includes handling cost

This includes cost of transporting thereto

* Excluding Washery, if Washed, & Transport Cost

** Weighted Average GCV as billed does not include Washery Cost, Transportation Cost & Transport Cost

Verified by

Director (Commercial)

NTPC Limited

Document verified by [illegible]

Digitally signed by [illegible]

Date: [illegible]

Reason: [illegible]

Location: [illegible]

Part-I
Form-15

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

NTPC LTD.

National Capital Thermal Power Station, Dadri Stage-I

Fuel: Coal **Month** Oct-18

S. No.	Particulars	Unit	Domestic	Imported
A)	**OPENING QUANTITY**			
1	Opening Quantity of Coal/Lignite	MT	142253.427	0.00
2	Value of Stock	Rs.	75111554	0
B)	**QUANTITY**			
3	Quantity of Coal/Lignite supplied by Coal/Lignite Company	MT	80057.760	0
4	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	MT	-385.630	0
5	Coal supplied by Coal/Lignite (3+4)	MT	80187.130	0.000
6	Normative Transit & Handling Losses (For coal/Lignite based Projects)	MT	4814.382	0.000
7	Net coal / Lignite Supplied (5-6)	MT	80 082.548	0.000
C)	**PRICE**			
8	Amount charged by the Coal/Lignite Company	Rs.	163147960.00	0.00
9	Adjustment (+/-) in amount charged made by Coal/Lignite Company	Rs.	11448172.84	0.00
10	Handling, Sampling and such other similar charges	Rs.		
11	Total amount Charged (8+9+10)	Rs.	174596213.16	0
D)	**TRANSPORTATION**	Rs.		
12	Transportation charges by rail, ship, road transport	Rs.	133526298.00	0.00
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	Rs.		
14	Demurrage Charges, if any	Rs.		
15	Cost of diesel in transporting coal through MGR system, if applicable	Rs.		
16	Total Transportation Charges (12+13+14+15)	Rs.	133526298	0
17	Total amount Charged for coal/lignite supplied including Transportation (11+16)	Rs.	308124229	0
E)	**TOTAL COST**			
18	Landed cost of coal/ Lignite (2+17)/(1+7)	Rs./MT	5157.50	0
19	Blending Ratio (Domestic /Imported)	%	100.00%	0.00%
20	Weighted average cost of coal/ Lignite	Rs. / MT	**5157.50**	
F)	**QUALITY**			
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	Kcal/Kg		
22	GCV of Domestic Coal supplied as per bill of Coal Company	Kcal/Kg	4879	
23	GCV of Imported Coal of the opening stock as per bill Coal Company	Kcal/Kg		
24	GCV of Imported Coal supplied as per bill Coal Company	Kcal/Kg		
25	Weighted average GCV of coal/ Lignite as Billed	Kcal/Kg	**4829**	
26	GCV of Domestic Coal of the opening stock as received at Station	Kcal/Kg		
27	GCV of Domestic Coal supplied as received at Station	Kcal/Kg	3821	
28	GCV of Imported Coal of opening stock as received at Station	Kcal/Kg		
29	GCV of Imported Coal supplied as received at Station	Kcal/Kg		
30	Weighted average GCV of coal/ Lignite as Received	Kcal/Kg	**3821**	

Document verified by PARWAN, PIYUSH
Digitally signed by PARWAN, PIYUSH
Date: 2024.[illegible] 14:29 IST
Reason: AGM (Commercial)
Location: NTPC Limited

Part-I
Form-15

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

NTPC LTD.

National Capital Thermal Power Station, Dadri Stage-I

Fuel: Coal **Month** Nov-18

S. No.	Particulars	Unit	Domestic	Imported
A)	**OPENING QUANTITY**			
1	Opening Quantity of Coal/Lignite	MT	[illegible]	[illegible]
2	Value of Stock	Rs.	[illegible]	0
B)	**QUANTITY**			
3	Quantity of Coal/Lignite supplied by Coal/Lignite Company	MT	[illegible]	0
4	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	MT	[illegible]	0
5	Coal supplied by Coal/Lignite (3+4)	MT	[illegible]	[illegible]
6	Normative Transit & Handling Losses (For coal/lignite based Projects)	MT	[illegible]	[illegible]
7	Net coal / Lignite Supplied (5-6)	MT	[illegible]	[illegible]
C)	**PRICE**			
8	Amount charged by the Coal/Lignite Company	Rs.	[illegible]	[illegible]
9	Adjustment (+/-) in amount charged made by Coal/Lignite Company	Rs.	[illegible]	[illegible]
10	Handling, Sampling and such other similar charges	Rs.		
11	Total amount Charged (8+9+10)	Rs.	[illegible]	0
D)	**TRANSPORTATION**	Rs.		
12	Transportation charges by rail/ship/road transport	Rs.	[illegible]	[illegible]
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	Rs.		
14	Demurrage Charges, if any	Rs.		
15	Cost of diesel in transporting coal through MGR system, if applicable	Rs.		
16	Total Transportation Charges (12+13+14+15)	Rs.	[illegible]	0
17	Total amount Charged for coal/lignite supplied including Transportation (11+16)	Rs.	[illegible]	0
E)	**TOTAL COST**			
18	Landed cost of coal/ Lignite (2+17)/(1+7)	Rs / MT	[illegible]	[illegible]
19	Blending Ratio (Domestic /Imported)	%	[illegible]	[illegible]
20	Weighted average cost of coal/ Lignite	Rs / MT	[illegible]	
F)	**QUALITY**			
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	Kcal/Kg		
22	GCV of Domestic Coal supplied as per bill of Coal Company	Kcal/Kg	[illegible]	
23	GCV of Imported Coal of the opening stock as per bill Coal Company	Kcal/Kg		
24	GCV of Imported Coal supplied as per bill Coal Company	Kcal/Kg		
25	Weighted average GCV of coal/ Lignite as Billed	Kcal/Kg	[illegible]	
26	GCV of Domestic Coal of the opening stock as received at Station	Kcal/Kg		
27	GCV of Domestic Coal supplied as received at Station	Kcal/Kg	[illegible]	
28	GCV of Imported Coal of opening stock as received at Station	Kcal/Kg		
29	GCV of Imported Coal supplied as received at Station	Kcal/Kg		
30	Weighted average GCV of coal/ Lignite as Received	Kcal/Kg	[illegible]	

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Location: NTPC Limited

Part-I
Form-15

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

NTPC LTD.

National Capital Thermal Power Station, Dadri Stage-I

Fuel: Coal **Month** Dec-18

S. No.	Particulars	Unit	Domestic	Imported
A)	**OPENING QUANTITY**			
1	Opening Quantity of Coal/Lignite	MT	[illegible]	[illegible]
2	Value of Stock	Rs.	[illegible]	[illegible]
B)	**QUANTITY**			
3	Quantity of Coal/Lignite/ Bio Mass supplied by Coal/Lignite/ Bio Mass Company	MT	[illegible]	0
4	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	MT	-470.185	0
5	Coal supplied by Coal/Lignite (3+4)	MT	[illegible]	[illegible]
6	Normative Transit & Handling Losses (For coal/lignite based Projects)	MT	[illegible]	[illegible]
7	Net coal / Lignite Supplied (5-6)	MT	[illegible]	[illegible]
C)	**PRICE**			
8	Amount charged by the Coal/Lignite Company	Rs.	[illegible]	[illegible]
9	Adjustment (+/-) in amount charged made by Coal/Lignite Company	Rs.	[illegible]	[illegible]
10	Handling, Sampling and such other similar charges	Rs.		
11	Total amount Charged (8+9+10)	Rs.	[illegible]	0
D)	**TRANSPORTATION**	Rs.		
12	Transportation charges by rail/ship/road transport	Rs.	[illegible]	[illegible]
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	Rs.		
14	Demurrage Charges, if any	Rs.		
15	Cost of diesel in transporting coal through MGR system, if applicable	Rs.		
16	Total Transportation Charges (12+13+14+15)	Rs.	[illegible]	0
17	Total amount Charged for coal/lignite supplied including Transportation (11+16)	Rs.	[illegible]	0
E)	**TOTAL COST**			
18	Landed cost of coal/ Lignite (2+17)/(1+7)	Rs / MT	[illegible]	0
19	Blending Ratio (Domestic /Imported)	%	[illegible]	[illegible]
20	Weighted average cost of coal/ Lignite	Rs / MT	[illegible]	
F)	**QUALITY**			
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	Kcal/Kg		
22	GCV of Domestic Coal supplied as per bill of Coal Company	Kcal/Kg	5414	
23	GCV of Imported Coal of the opening stock as per bill Coal Company	Kcal/Kg		
24	GCV of Imported Coal supplied as per bill Coal Company	Kcal/Kg		
25	Weighted average GCV of coal/ Lignite as Billed	Kcal/Kg	**5414**	
26	GCV of Domestic Coal of the opening stock as received at Station	Kcal/Kg		
27	GCV of Domestic Coal / Bio Mass supplied as received at Station	Kcal/Kg	3756	
28	GCV of Imported Coal of opening stock as received at Station	Kcal/Kg		
29	GCV of Imported Coal supplied as received at Station	Kcal/Kg		
30	Weighted average GCV of coal/ Lignite as Received	Kcal/Kg	**3756**	

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DADRI THERMAL STAGE #1 & 2
FORM 15 FOR ACCOUNTING & BILLING

STAGE #1 & 2 Month Oct 15 *

Details of information to be submitted in respect of fuel for computation of energy charges (in case of SRU)

	Station			DADRI THERMAL	
	Month			Oct 15	Oct 15
				HFO	LDO
S.No	Particulars	Unit			
1	Opening Stock of Oil	KL		3375.455	3002.490
2	Value of Opening Stock	Rs		1,107,386.7	1,133,896.75
3	Quantity of Oil supplied by the Oil Company	KL		0.00	0.00
4	Adjustment (+/-) if quantity supplied made by Oil Company	KL		0	0
5	Oil supplied by the Oil Company (3+4)	KL		0	0
6	Maximum Permit & Handling Losses	KL		0	0
7	Net Oil supplied (5 - 6)	KL		0	0
8	Amount charged by the Oil Company	Rs.		0	0
9	Adjustment (+/-) if any amount charged by Oil Company	Rs.		0	0
10	Total amount charged (8+9)	Rs.		0	0
11	Transportation charges by Rail / Road / Road Transport	Rs.		0.00	0.00
12	Adjustment (+/-) if any amount charged in previous month	Rs.		0	0
13	Demurrage charges, if any	Rs.		0.00	0.00
14	Total transportation charges (11+12+13)	Rs.		0	0
15	Total amount charged for the month inclusive transportation (10 + 14)	Rs.		0	0
16	Other Charges	Rs.		0	0
17	Total amount charged for the month inclusive including transportation (15 + 16)			0	0
18	Weighted average GCV of Oil at Stage 2 (Note 1)	Kcal / KL			
19	Quantity of Oil in the water at the month (-) (+)	KL		3375.470	3002.54
20	Total amount charged for Oil (17 + 19)	Rs.		1,107,386.7	1,133,896.75
21	Landed Cost of Oil (18 / 20)	Rs. / KL		32811.417	37761.000
22	Quantity of Oil consumed (Stage 2)	KL		96.000	23.000
23	Value of Oil consumed (21 * 22)	Rs.		3,150,957.24	868,503.1
24	Closing Stock of Oil (19 - 22)	KL		3279.470	3002.54
25	Value of Closing Stock (18 - 23)	Rs.		1,107,386.7	1,133,896.75

Details of information to be submitted in respect of fuel for computation of energy charges

	Station			DADRI THERMAL	
	Month			Oct 15	
				HFO	LDO
S.No	Particulars	Unit			
1	Landed Cost of Oil as per S.No 25	Rs. / KL		34,397.42	40,361.15
2	Energy Charges for the month (Stage 2)	KL		43,100	7,100
3	Weighted average cost (S.No 1 / Energy Charges) - (S.No 2)	Rs. / kWh			35,778.85
4	Weighted average GCV of Oil in stage 2	Kcal / KL			8,949.11

1	Landed Cost of Oil as per S.No 25	Rs. / KL		34,397.42	40,361.15
2	Energy Charges for the month (Stage 2)	KL		43,100	7,100
3	Weighted average cost (S.No 1 / Energy Charges) - (S.No 2)	Rs. / kWh			37,568.39
4	Weighted average GCV of Oil in stage 2	Kcal / KL			8,949.11

Dy. GM (Power) O. O. AGRAWAL
NTPC Ltd. (Dadri Thermal Power Station)
Dadri (Noida)

Manager (Fuel)
NTPC Limited
Dadri (Noida)

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Location: NTPC Dadri

DADRI THERMAL STAGE #1 & 2
FORM 15 FOR ACCOUNTING & BILLING

STAGE - I & 2 Month Nov '19

Details of information to be submitted in respect of fuel for computation of energy charges (in case of CIL)

	Station			DADRI THERMAL	
	Month			Nov '19	Nov '19
				HPC	HSD
S.No.	Particulars	Unit			
1	Opening Stock of Oil	KL		3219.475	3363.545
2	Value of Opening stock	Rs		1,01,72,812.75	1,42,17,975.63
3	Quantity of Oil supplied by the Oil Company	KL		0.00	0.00
4	Adjustment (+/-) in quantity supplied made by Oil Company	KL		0	0
5	Oil supplied by the Oil Company (3+4)	KL		0	0
6	Transport cost & Handling Charges	Rs.		0	0
7	Net Oil supplied (5+6)	KL		0	0
8	Amount charged by the Oil Company	Rs.		0	0
9	Adjustment (+/-) in amount charged by Oil Company	Rs.		0	0
10	Total Amount Charged (8+9)	Rs.		0	0
11	Transportation charges by Rail / Road / Road Ferrious	Rs.		0.00	0.00
12	Adjustment (+/-) in amount charged by Railway/ Transport company	Rs.		0	0
13	Demurrage charges, if any	Rs.		0.00	0.00
14	Total transportation charges (11+12+13)	Rs.		0	0
15	Total amount charged for the Oil supplied including transportation (10 + 14)	Rs.		0	0
16	Other Charges	Rs.		0	0
17	Total amount charged for the Oil supplied including transportation and other charges (15+16)			0	0
18	Gross calorific value of Oil (as per bill of lading)	Kcal / KL			
19	Quantity of Oil at the time of the supply / 1.4.09	KL		3219.475	3363.545
20	Total amount charged for Oil (17 + 19+19)	Rs.		1,01,72,812.75	1,42,17,975.63
21	Landed Cost of Oil (18 / 20)	Rs. / KL		31,607.42	42,263.12
22	Quantity of Oil consumed (Ullage)	KL		3,50.475	31.000
23	Value of Oil consumed (21 * 22)	Rs.		1,08,87,111.11	1,09,33,415
24	Closing Stock of Oil (19 - 22)	KL		2,869.000	3,332.545
25	Value of Closing Stock of Oil (20 - 23)	Rs.		91,85,701.64	1,32,84,560.63

Details of information to be submitted in respect of fuel for computation of energy charges

	Station			DADRI THERMAL
	Month			Jan '20
				HPC	HSD
S.No.	Particulars	Unit			
1	Landed Cost of Oil as at S.No. 21	Rs. / KL		34,307.42	40,263.12
2	Other Charges to the Fuel Charge (+)	Rs.		0.00	0.00
3	Weighted average cost (21+22+23+24) / (19+20)	Rs. / KL			34,004.01
4	Weighted average GCV of Oil as usage basis	Kcal / KL			9,900.17

1	Landed Cost of Oil as at S.No. 21	Rs. / KL		34,307.42	40,263.12
2	Other Charges to the Fuel Charge (+)	Rs.		0.00	0.00
3	Weighted average cost (21+22+23+24) / (19+20)	Rs. / KL			34,007.16
4	Weighted average GCV of Oil as usage basis	Kcal / KL			9,900.17

D.C. Agarwal

Dy. Dir. (Acctg.) D. C. AGRAWAL
NTPC Limited

DADRI THERMAL STAGE #1 & 2
FORM 15 FOR ACCOUNTING & BILLING

STAGE -1 & 2 Month Dec' 18

Details of information to be submitted in respect of fuel for computation of energy charges (in case of CRL)

	Station			DADRI THERMAL	
	Month			Dec' 18	Dec' 18
				HFO	LDO
S.No.	Particulars	Unit			
1	Opening Stock of Oil	KL		[illegible]	[illegible]
2	Value of Opening Stock	Rs		[illegible]	[illegible]
3	Quantity of Oil received by the Oil Company	KL		[illegible]	[illegible]
4	Adjustment (+/-) in quantity received back by Oil Company	KL		0	0
5	Oil supplied to the Oil Company (3+4)	KL		0	0
6	Normative losses & handling losses	KL		0	0
7	Net Oil supplied (5-6)	KL		0	0
8	Amount charged by the Oil Company	Rs		0	0
9	Adjustment (+/-) in amount charged by Oil Company	Rs		0	0
10	Total amount charged (8+9)	Rs		0	0
11	Transportation charges by Rail/ Ship / Road Transport	Rs		[illegible]	0.00
12	Adjustment (+/-) in amount charged by transport company	Rs		0	0
13	Demurrage charges, if any	Rs		[illegible]	0.00
14	Total transportation charges (11+12-13)	Rs		0	0
15	Total amount charged for the Oil supplied including transportation (10 + 14)	Rs		0	0
16	Other Charges	Rs		0	0
17	Total amount charged for supplied Oil including transportation (15+16)			0	0
18	Average weighted cost of Oil per unit (Line 17 / Line 7)	Rs/ KL			
19	Quantity of Oil in the stock at the end of month	KL		[illegible]	[illegible]
20	Total amount charged for Oil (2 + 17-20)	Rs		[illegible]	[illegible]
21	Landed Cost of Oil (18 / 7)	Rs / KL		[illegible]	[illegible]
22	Quantity of Oil consumed (Opening	KL		[illegible]	[illegible]
23	Value of Oil consumed (19 / 22)	Rs		[illegible]	[illegible]
24	Closing Stock of Oil (19 - 22)	KL		[illegible]	[illegible]
25	Value of Closing Stock (19 - 23)	Rs		[illegible]	[illegible]

Details of information to be submitted in respect of fuel for computation of energy charges

	Station			DADRI THERMAL	
	Month				
				HFO	LDO
S.No.	Particulars	Unit			
1	Landed Cost of Oil as at the end of month	Rs / KL		[illegible]	[illegible]
2	Calorific value of Oil	Kcal / KL		[illegible]	[illegible]
3	Weighted average gross calorific value of Oil (Line 2 x Line 24)	Rs / KL			[illegible]
4	Weighted average GCV of Oil at delivery point	Kcal / KL			[illegible]

1	Landed Cost of Oil as at the end of month	Rs / KL		[illegible]	[illegible]
2	Calorific value of Oil	Kcal / KL		[illegible]	[illegible]
3	Weighted average gross calorific value of Oil (Line 2 x Line 24)	Rs / KL			[illegible]
4	Weighted average GCV of Oil at delivery point	Kcal / KL			[illegible]

[illegible] / D.C. AGRAWAL
[illegible]

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[illegible]
NTPC Limited

[illegible]

Part-I
Form-15

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

NTPC LTD.

National Capital Thermal Power Station, Dadri Stage-I

Fuel: Coal **Month** Oct-19

S. No.	Particulars	Unit	Domestic	Imported
A)	**OPENING QUANTITY**			
1	Opening Quantity of Coal/Lignite	MT	[illegible]	[illegible]
2	Value of Stock	Rs.	[illegible]	[illegible]
B)	**QUANTITY**			
3	Quantity of Coal/Lignite supplied by Coal/Lignite Company	MT	[illegible]	[illegible]
4	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	MT	[illegible]	[illegible]
5	Coal supplied by Coal/Lignite (3+4)	MT	[illegible]	[illegible]
6	Normative Transit & Handling Losses (For coal/lignite based Projects)	MT	[illegible]	[illegible]
7	Net coal / lignite Supplied (5-6)	MT	[illegible]	[illegible]
C)	**PRICE**			
8	Amount charged by the Coal/Lignite Company	Rs.	[illegible]	[illegible]
9	Adjustment (+/-) in amount charged made by Coal/Lignite Company	Rs.	[illegible]	[illegible]
10	Handling, Sampling and such other similar charges	Rs.		
11	Total amount Charged (8+9+10)	Rs.	[illegible]	[illegible]
D)	**TRANSPORTATION**	Rs.		
12	Transportation charges by rail, ship, road transport	Rs.	[illegible]	[illegible]
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	Rs.		
14	Demurrage Charges, if any	Rs.		
15	Cost of diesel in transporting coal through MGR system, if applicable	Rs.		
16	Total Transportation Charges (12+13+14+15)	Rs.	[illegible]	[illegible]
17	Total amount Charged for coal/lignite supplied including Transportation (11+16)	Rs.	[illegible]	[illegible]
E)	**TOTAL COST**			
18	Landed cost of coal/ Lignite (2+17)/(1+7)	Rs./MT	[illegible]	[illegible]
19	Blending Ratio (Domestic /Imported)	%	[illegible]	[illegible]
20	Weighted average cost of coal/ Lignite	Rs./MT	[illegible]	
F)	**QUALITY**			
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	Kcal/kg	[illegible]	
22	GCV of Domestic Coal supplied as per bill of Coal Company	Kcal/kg	[illegible]	
23	GCV of Imported Coal of the opening stock as per bill Coal Company	Kcal/kg		[illegible]
24	GCV of Imported Coal supplied as per bill Coal Company	Kcal/kg		[illegible]
25	Weighted average GCV of coal/ Lignite as Billed	Kcal/kg	[illegible]	
26	GCV of Domestic Coal of the opening stock as received at Station	Kcal/kg	[illegible]	
27	GCV of Domestic Coal supplied as received at Station	Kcal/kg	[illegible]	
28	GCV of Imported Coal of opening stock as received at Station	Kcal/kg		[illegible]
29	GCV of Imported Coal supplied as received at Station	Kcal/kg		[illegible]
30	Weighted average GCV of coal/ Lignite as Received	Kcal/kg	[illegible]	

डी. सी. अग्रवाल / D. C. AGRAWAL
महाप्रबंधक (वित्त एवं लेखा) / GM (Finance & Accts)
एन.टी.पी.सी. लिमिटेड / NTPC Ltd.
एनसीटीपीपी दादरी / NCTPP Dadri

मुकेश कुमार गर्ग
MUKESH KUMAR GARG
महाप्रबंधक (वित्त)
General Manager (Finance)
एन.टी.पी.सी. लिमिटेड
NTPC Limited

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Reason: Authorised signatory
Location: NTPC Limited

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Form-15

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

NTPC LTD.

National Capital Thermal Power Station, Dadri Stage-I

Fuel: Coal **Month:** Nov-09

S. No.	Particulars	Unit	Domestic	Imported	Etc. Specs
A)	**OPENING QUANTITY**				
1	Opening Quantity of Coal/Lignite	MT	[illegible]	[illegible]	
2	Value of Stock	Rs.	[illegible]	[illegible]	
B)	**QUANTITY**				
3	Quantity of Coal/Lignite supplied by Coal/Lignite Company	MT	[illegible]	[illegible]	[illegible]
4	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	MT	[illegible]	[illegible]	
5	Coal supplied by Coal/Lignite (3+4)	MT	[illegible]	[illegible]	[illegible]
6	Purchase, Transit & Handling Losses (For coal/Lignite based Projects)	MT	[illegible]	[illegible]	
7	Net coal / Lignite Supplied (5-6)	MT	[illegible]	[illegible]	[illegible]
C)	**VALUE**				
8	Amount charged by the Coal/Lignite Company	Rs.	[illegible]	[illegible]	[illegible]
9	Adjustment (+/-) in amount charged made by Coal/Lignite Company	Rs.	[illegible]	[illegible]	
10	Handling, Sampling and such other similar charges	Rs.			
11	Total amount Charged (8+9+10)	Rs.	[illegible]	[illegible]	[illegible]
D)	**TRANSPORTATION**	Rs.			
12	Transportation charges by rail/ road/ road transport	Rs.	[illegible]	[illegible]	[illegible]
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	Rs.			
14	Demurrage Charges, if any	Rs.			
15	Cost of diesel in transporting coal through MGR system, if any/ Lignite	Rs.			
16	Total Transportation Charges (12+13+14+15)	Rs.	[illegible]	[illegible]	[illegible]
17	Total amount Charged for coal/lignite supplied including Transportation (11+16)	Rs.	[illegible]	[illegible]	[illegible]
E)	**TOTAL COST**				
18	Landed cost of coal/ Lignite (10+17)/(14+17)	Rs./MT	[illegible]	[illegible]	[illegible]
19	Handling Loss (Domestic Coal/Lignite)	%	[illegible]	[illegible]	[illegible]
20	Weighted average cost of coal/ Lignite	Rs./MT	[illegible]		
F)	**QUALITY**				
21	GCV of Opening Coal of the opening coal stock as per bill of Coal Company	Kcal/kg	[illegible]		
22	GCV of Domestic Coal supplied as per bill of Coal Company	Kcal/kg	[illegible]		
23	GCV of Imported Coal of the opening stock as per bill Coal Company	Kcal/kg		[illegible]	
24	GCV of Imported Coal supplied as per bill Coal Company	Kcal/kg		[illegible]	
25	Weighted average GCV of coal/ Lignite as fired	Kcal/kg		[illegible]	
26	GCV of Domestic Coal of the opening coal stock received at Station	Kcal/kg	[illegible]		
27	GCV of Domestic Coal supplied as received at Station	Kcal/kg	[illegible]		[illegible]
28	GCV of Imported Coal of opening stock as received at Station	Kcal/kg		[illegible]	
29	GCV of Imported Coal supplied as received at Station	Kcal/kg		[illegible]	
30	Weighted average GCV of coal/ Lignite as fired	Kcal/kg		[illegible]	

डी. सी. अग्रवाल / D. C. AGRAWAL
महाप्रबंधक (वित्त एवं लेखा) / Dy. Manager (F&A)
एन.टी.पी.सी. लिमिटेड (भारत सरकार का उपक्रम), दादरी
NTPC Ltd. (A Govt. of India Enterprise), Dadri
दादरी / Dadri

NTPC
सुरेन्द्र कुमार गर्ग
SURENDRA KUMAR GARG
Senior Manager (Finance)
NTPC Limited

Part-I
Form-25

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

NTPC LTD.

National Capital Thermal Power Station, Dadri Stage-I

Fuel: Coal Month: Day-Fr

S. No.	Particulars	Unit	Domestic	Imported	Blended
A)	**OPENING QUANTITY**				
1	Opening Quantity of Coal/Lignite	MT	[illegible]	[illegible]	
2	Value of Stock	Rs.	[illegible]	[illegible]	
B)	**QUANTITY**				
3	Quantity of Coal/Lignite / Bio Mass supplied by Coal/Lignite / Bio Mass Company	MT	[illegible]	[illegible]	[illegible]
4	Adjustment in (3) due to quantity charged extra by Coal/Lignite Company	MT	[illegible]	[illegible]	
5	Coal supplied for Coal/Lignite (3+4)	MT	[illegible]	[illegible]	[illegible]
6	Transport Factor & Handling Loss (%) on coal/Lignite supplied	MT	[illegible]	[illegible]	
7	Net Coal / Lignite Supplied (5-6)	MT	[illegible]	[illegible]	[illegible]
C)	**PRICE**				
8	Amount charged by the Coal/Lignite Company	Rs.	[illegible]	[illegible]	[illegible]
9	Adjustment (+/-) in amount charged made by Coal/Lignite Company	Rs.	[illegible]	[illegible]	
10	Handling, Sampling and such other extra charges	Rs.			
11	Total amount Charged (8+9+10)	Rs.	[illegible]	[illegible]	[illegible]
D)	**TRANSPORTATION**				
12	Transportation charges by rail/road/conveyor	Rs.	[illegible]	[illegible]	[illegible]
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	Rs.			
14	Demurrage Charges, if any	Rs.			
15	Cost of diesel in transport (applicable in case of MGR system, if applicable)	Rs.			
16	Total Transportation Charges (12+13+14+15)	Rs.	[illegible]	[illegible]	[illegible]
17	Total amount Charged for coal/lignite supplied including Transportation (11+16)	Rs.	[illegible]	[illegible]	[illegible]
E)	**TOTAL COST**				
18	Landed cost of coal/Lignite (10/7)+(17/7)	Rs./MT	[illegible]	[illegible]	[illegible]
19	Blending Ratio (Domestic: Imported)	%	[illegible]	[illegible]	[illegible]
20	Weighted average cost of coal/Lignite	Rs./MT	[illegible]		
F)	**QUALITY**				
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	Kcal/kg	[illegible]		
22	GCV of Domestic Coal supplied as per bill of Coal Company	Kcal/kg	[illegible]		
23	GCV of Imported Coal of the opening stock as per bill Coal Company	Kcal/kg		[illegible]	
24	GCV of Imported Coal supplied as per bill Coal Company	Kcal/kg		[illegible]	
25	Weighted average GCV of coal/Lignite as fired	Kcal/kg	[illegible]		
26	GCV of Domestic Coal of the opening stock as received at Station	Kcal/kg	[illegible]		
27	GCV of Domestic Coal / Bio Mass Fuel supplied as received at Station	Kcal/kg	[illegible]		[illegible]
28	GCV of Imported Coal of opening stock as received at Station	Kcal/kg		[illegible]	
29	GCV of Imported Coal supplied as received at Station	Kcal/kg		[illegible]	
30	Weighted Average GCV of coal/Lignite as received	Kcal/kg	[illegible]		

Dy. Manager / D. C. AGRAWAL
डिप्टी मैनेजर (वित्त एवं लेखा) / Dy. Manager (F&A)
एन.टी.पी.सी. लिमिटेड / NTPC Ltd. दादरी (हरियाणा) / Dadri (Haryana)
वित्त / Finance

सुरेन्द्र कुमार गर्ग
SURENDER KUMAR GARG
महाप्रबंधक (वित्त)
General Manager (Finance)
एन.टी.पी.सी. लिमिटेड
NTPC Limited

Document verified by [illegible]
Digitally signed by [illegible]
Date: [illegible] 14:28 IST
Reason: [illegible]
Location: NTPC Limited

Part-I
Form-15

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

NTPC LTD.

National Capital Thermal Power Station, Dadri Stage-I

Fuel: OIL **Month:** Oct-18

S. No.	Particulars	Unit	[illegible]	[illegible]
A)	**OPENING QUANTITY**			
1	Opening Quantity of Oil	KL	[illegible]	[illegible]
2	Value of Stock	Rs.	[illegible]	[illegible]
B)	**QUANTITY**			
3	Quantity of Oil supplied by Oil Company	KL	[illegible]	[illegible]
4	Adjustment (+/-) in quantity supplied made by Oil Company	KL	[illegible]	[illegible]
5	Oil supplied by Oil (3+4)	KL	[illegible]	[illegible]
6	Normative Transit & Handling Losses (For Coal based Projects)	KL	[illegible]	[illegible]
7	Net Oil Supplied (5-6)	KL	[illegible]	[illegible]
C)	**PRICE**			
8	Amount charged by the Oil Company	Rs.	[illegible]	[illegible]
9	Adjustment (+/-) in amount charged made by Oil Company	Rs.	[illegible]	[illegible]
10	Handling, Sampling and such other similar charges	Rs.		
11	Total amount Charged (8+9+10)	Rs.	[illegible]	[illegible]
D)	**TRANSPORTATION**			
12	Transportation charges by rail, ship, road transport	Rs.	[illegible]	[illegible]
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	Rs.	[illegible]	[illegible]
14	Demurrage Charges, if any	Rs.	[illegible]	[illegible]
15	Cost of diesel in transporting oil through MGR system, if applicable	Rs.		
16	Total Transportation Charges (12+13+14+15)	Rs.	[illegible]	[illegible]
17	Total amount charged for Oil supplied including Transportation (11+16)	Rs.	[illegible]	[illegible]
E)	**TOTAL COST**			
18	Landed cost of Oil (17/7)	Rs./KL	[illegible]	[illegible]
19	Heating Value (Generic / Imported)	%		
20	Weighted average cost of Oil	Rs./KL	[illegible]	
F)	**QUALITY**			
21	GCV of Indigenous Oil of the opening the stock as per bill of Oil Company	Kcal/KL		[illegible]
22	GCV of Indigenous Oil supplied as per bill of Oil Company	Kcal/KL		
23	GCV of Imported Oil of the opening stock as per bill Oil Company	Kcal/KL		
24	GCV of Imported Oil supplied as per bill Oil Company	Kcal/KL		
25	Weighted average GCV of Oil / Liquid as billed	Kcal/KL	[illegible]	
26	GCV of Indigenous Oil of the opening stock as received at Station	Kcal/KL		[illegible]
27	GCV of Indigenous Oil supplied as received at Station	Kcal/KL		
28	GCV of Imported Oil of opening stock as received at Station	Kcal/KL		
29	GCV of Imported Oil of opening stock as received at Station	Kcal/KL		
30	Weighted average GCV of Oil / Liquid as received	Kcal/KL	[illegible]	

(KAPIL NANDA)
Sr. Manager (F)

[illegible] कुमार गुप्ता
Manager Finance
NTPC Limited

UDIN:20093754AAAABG6626

Digitally signed by [illegible]
Date: 2020.[illegible]
Reason: [illegible]
Location: NTPC Limited

Part-I
Form-15

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

NTPC LTD.

National Capital Thermal Power Station, Dadri Stage-I

Fuel: **OIL** **Month** **Nov-13**

S. No.	Particulars	Unit	HFO	LDO
A)	**OPENING QUANTITY**			
1	Opening Quantity of Oil	KL	[illegible]	[illegible]
2	Value of Stock	Rs	[illegible]	[illegible]
B)	**QUANTITY**			
3	Quantity of Oil supplied by Oil Company	KL	[illegible]	[illegible]
4	Adjustment (+/-) in quantity supplied made by Oil Company	KL	[illegible]	[illegible]
5	Oil supplied by Oil (3+4)	KL	[illegible]	[illegible]
6	Normative Transit & Handling losses (For Coal based Projects)	KL	[illegible]	[illegible]
7	Net Oil supplied (5-6)	KL	[illegible]	[illegible]
C)	**PRICE**			
8	Amount charged by the Oil Company	Rs.	[illegible]	[illegible]
9	Adjustments (+/-) in amount charged made by Oil Company	Rs.	[illegible]	[illegible]
10	Handling, Sampling and such other similar charges	Rs.		
11	Total amount Charged (8+9+10)	Rs.	[illegible]	[illegible]
D)	**TRANSPORTATION**	Rs.		
12	Transportation charges by rail, ship, road transport	Rs.	[illegible]	[illegible]
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	Rs.	[illegible]	[illegible]
14	Demurrage Charges, if any	Rs.	[illegible]	[illegible]
15	Cost of diesel in transporting coal through MGR system, if applicable	Rs.		
16	Total Transportation Charges (12+13+14+15)	Rs.	[illegible]	[illegible]
17	Total amount Charged for Oil supplied including Transportation (11+16)	Rs.	[illegible]	[illegible]
E)	**TOTAL COST**			
18	Landed cost of Oil (11+17)/(5+7)	Rs./KL	[illegible]	[illegible]
19	Blending Ratio (Domestic/Imported)	%		
20	Weighted average cost of Oil	Rs./KL	[illegible]	
F)	**QUALITY**			
21	GCV of Domestic Oil of the opening Oil stock as per bill of Oil Company	Kcal/KL		[illegible]
22	GCV of Domestic Oil supplied as per bill of Oil Company	Kcal/KL		
23	GCV of Imported Oil of the opening stock as per bill Oil Company	Kcal/KL		
24	GCV of Imported Oil supplied as perbill Oil Company	Kcal/KL		
25	Weighted average GCV of Oil/ Liquor as Billed	Kcal/KL	[illegible]	
26	GCV of Domestic Oil of the opening stock as received at Station	Kcal/KL		[illegible]
27	GCV of Domestic Oil supplied as received at Station	Kcal/KL		
28	GCV of Imported Oil of opening stock as received at Station	Kcal/KL		
29	GCV of Imported Oil of opening stock as received at Station	Kcal/KL		
30	Weighted average GCV of Oil/ Liquor as Received	Kcal/KL	[illegible]	

(KAPIL NANDA)
Sr. Manager (F)

NTPC
General Manager (Finance)
NTPC Limited

Vanjay Arora

UDIN:20093754AAAABC6236
Designation: Assistant Manager
Location: NTPC Limited

Part-I
Form-15

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

NTPC LTD.

National Capital Thermal Power Station, Dadri Stage-I

Fuel: Oil Month Dec-19

S. No.	Particulars	Unit	HFO	LDO
A)	**OPENING QUANTITY**			
1	Opening Quantity of Oil	KL	[illegible]	[illegible]
2	Value of Stock	Rs	[illegible]	[illegible]
B)	**QUANTITY**			
3	Quantity of Oil supplied by Oil Company	KL	[illegible]	[illegible]
4	Adjustment (+/-) in quantity received made by Oil Company	KL	[illegible]	[illegible]
5	Oil supplied by Oil (3+4)	KL	[illegible]	[illegible]
6	Normative Transit & Handling Losses (Per Total Quantity Received)	KL	[illegible]	[illegible]
7	Net Oil Supplied (5-6)	KL	[illegible]	[illegible]
C)	**PRICE**			
8	Amount charged by the Oil Company	Rs	[illegible]	[illegible]
9	Adjustment (+/-) in amount charged made by Oil Company	Rs	[illegible]	[illegible]
10	Handling, Sampling and such other similar charges	Rs		
11	Total amount Charged (8+9+10)	Rs	[illegible]	[illegible]
D)	**TRANSPORTATION**	Rs		
12	Transportation charges by rail, ship, road transport	Rs	[illegible]	[illegible]
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	Rs	[illegible]	[illegible]
14	Demurrage Charges, if any	Rs	[illegible]	[illegible]
15	Cost of diesel in transporting coal through MGR system, if applicable	Rs		
16	Total Transportation Charges (12+13+14+15)	Rs	[illegible]	[illegible]
17	Total amount Charged for Oil supplied including Transportation (11+16)	Rs	[illegible]	[illegible]
E)	**TOTAL COST**			
18	Landed cost of Oil (11+17)/(3+7)	Rs/KL	[illegible]	[illegible]
19	Blending Ratio (Domestic / Imported)	%		
20	Weighted average cost of Oil	Rs/KL	[illegible]	
F)	**QUALITY**			
21	GCV of Domestic Oil of the opening Oil stock as per bill of Oil Company	Kcal/KL		[illegible]
22	GCV of Domestic Oil supplied as per bill of Oil Company	Kcal/KL		
23	GCV of Imported Oil of the opening stock as per bill Oil Company	Kcal/KL		
24	GCV of Imported Oil supplied as per bill Oil Company	Kcal/KL		
25	Weighted average GCV of Oil Landed as billed	Kcal/KL	[illegible]	
26	GCV of Domestic Oil of the opening stock as received at Station	Kcal/KL		[illegible]
27	GCV of Domestic Oil supplied as received at Station	Kcal/KL		
28	GCV of Imported Oil of opening stock as received at Station	Kcal/KL		
29	GCV of Imported Oil of opening stock as received at Station	Kcal/KL		
30	Weighted average GCV of Oil Landed as received	Kcal/KL	[illegible]	

(KAPIL NANDA)
Sr. Manager (F)

UDIN:20093754AAAAAC[illegible]

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

NTPC LTD. -National Capital Thermal Power Station, Dadri Stage-I

Part-I

Form-15

Fuel: Coal Month: Oct-20 Provisional

S. No.	Particulars	Unit	Domestic Type 1 (NO14908627)	Domestic Type 2 (NO14910646)	Domestic Type 3 (NO14910629)	Imported	Blo Mass
A)	OPENING QUANTITY						
1	Opening Quantity of Coal/Lignite	MT	[illegible]	[illegible]	[illegible]	[illegible]	0
2	Value of Stock	Rs	[illegible]	[illegible]	0	0	0
B)	QUANTITY						
3	Quantity of Coal/Lignite supplied by Coal/Lignite Company	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	MT	[illegible]	[illegible]	[illegible]	0	
5	Coal supplied by Coal/Lignite (3+4)	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	Normative Transit & Handling Losses (For coal/Lignite based Projects)	MT	[illegible]	[illegible]	[illegible]	[illegible]	
7	Net coal / Lignite Supplied (5-6)	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
C)	PRICE						
8	Amount charged by the Coal/Lignite Company	Rs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	Adjustment (+/-) in amount charged made by Coal/Lignite Company	Rs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	Handling, Sampling and such other similar charges	Rs					0
11	Total amount Charged (8+9+10)	Rs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
D)	TRANSPORTATION	Rs					
12	Transportation charges by rail, ship, road transport	Rs	[illegible]	[illegible]	[illegible]	0	0
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	Rs					
14	Demurrage Charges, if any	Rs					
15	Cost of diesel in transporting coal through MGR system, if applicable	Rs					
16	Total Transportation Charges (12+13+14+15)	Rs	[illegible]	[illegible]	[illegible]	0	0
17	Total amount Charged for coal/lignite supplied including Transportation (11+16)	Rs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
E)	TOTAL COST						
18	Landed cost of coal/ Lignite (D+17)/(3+7)	Rs / MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	Blending Ratio (Domestic/Imported)	%	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	Weighted average cost of coal/ Lignite	Rs / MT	[illegible]				
F)	QUALITY						
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	Kcal/kg	[illegible]	[illegible]	[illegible]		
22	GCV of Domestic Coal supplied as per bill of Coal Company	Kcal/kg	[illegible]	[illegible]	[illegible]		
23	GCV of Imported Coal of the opening stock as per bill Coal Company	Kcal/kg				0	
24	GCV of Imported Coal supplied as per bill Coal Company	Kcal/kg				0	
25	Weighted average GCV of coal / Lignite as billed	Kcal/kg			[illegible]		
26	GCV of Domestic Coal of the opening stock as received at Station	Kcal/kg	[illegible]	[illegible]	0		0
27	GCV of Domestic Coal supplied as received at Station	Kcal/kg	[illegible]	[illegible]	[illegible]		[illegible]
28	GCV of Imported Coal of opening stock as received at Station	Kcal/kg				0	
29	GCV of Imported Coal supplied as received at Station	Kcal/kg				[illegible]	
29a	Weighted average GCV of coal / Lignite as Received (ON THE BASIS OF CONSUMPTION OF DOMESTIC COAL AND IMPORTED COAL)	Kcal/kg			[illegible]		0
29b	Difference of GCV (29a-28)	Kcal/kg			[illegible]		[illegible]
29c	Weighted average GCV of coal / Lignite as Received and Blo mass (ON THE BASIS OF TOTAL CONSUMPTION OF COAL AND BIOMASS)	Kcal/kg			[illegible]		
30	Weighted average GCV of coal / Lignite as Received	Kcal/kg			[illegible]		

NOTE: Bunding Rule of Stage I is kept based on the recommendation given by GCMC in the MOM Discussed special arrangement and.

Per Sanjay Anand
Partner
S. N. Dhawan & Co. LLP
M.No.:093754
Date: 15th June 2021
UDIN: 21093754AAAABS8799

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

NTPC LTD. -National Capital Thermal Power Station, Dadri Stage-I

Part-I

Form-15

Fuel: Coal Month Nov-20 Provisional

S.No.	Particulars	Unit	Domestic Type 1 (MCL1491200027)	Domestic Type 2 (MCL1491200048)	Domestic Type 3 (MCL1491200029)	Imported	Blo Mass
A)	OPENING QUANTITY						
1	Opening Quantity of Coal/Lignite	MT	[illegible]	[illegible]	[illegible]	[illegible]	0
2	Value of Stock	Rs	[illegible]	[illegible]	[illegible]	[illegible]	0
B)	QUANTITY						
3	Quantity of Coal/Lignite supplied by Coal/Lignite Company	MT	[illegible]	[illegible]	[illegible]	[illegible]	0
4	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	MT	[illegible]	0.000	0.000	0	
5	Coal supplied by Coal/Lignite (3+4)	MT	[illegible]	[illegible]	[illegible]	[illegible]	0.000
6	Normative Transit & handling Losses (Pithead/Lignite based Projects)	MT	[illegible]	[illegible]	[illegible]	[illegible]	
7	Net coal / Lignite Supplied (5-6)	MT	[illegible]	[illegible]	[illegible]	[illegible]	0.000
C)	PRICE						
8	Amount charged by the Coal/Lignite Company	Rs.	[illegible]	[illegible]	[illegible]	[illegible]	0
9	Adjustment (+/-) in amount charged made by Coal/Lignite Company	Rs.	[illegible]	[illegible]	[illegible]	[illegible]	0
10	Handling, Sampling and auto plant vendor charges	Rs.					
11	Total amount Charged (8+9+10)	Rs.	[illegible]	[illegible]	[illegible]	[illegible]	0
D)	TRANSPORTATION	Rs.					
12	Transportation charges by rail/ship/road transport	Rs.	[illegible]	[illegible]	[illegible]	0	0
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	Rs.					
14	Demurrage Charges, if any	Rs.					
15	Cost of diesel in transporting coal through MGR system, if applicable	Rs.					
16	Total Transportation Charges (12+13+14+15)	Rs.	[illegible]	[illegible]	[illegible]	0	0
17	Total amount Charged for coal/lignite supplied including Transportation (11+16)	Rs	[illegible]	[illegible]	[illegible]	[illegible]	0
E)	TOTAL COST						
18	Landed cost of coal/ Lignite (14+17)/(13+7)	Rs/MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	Handling Rate (Domestic / Imported)	%	[illegible]	[illegible]	[illegible]	[illegible]	0.00%
20	Weighted average cost of coal / Lignite	Rs/MT			[illegible]		
F)	QUALITY						
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	Kcal/kg	[illegible]	[illegible]	[illegible]		
22	GCV of Domestic Coal supplied as per bill of Coal Company	Kcal/kg	[illegible]	[illegible]	[illegible]		
23	GCV of Imported Coal of the opening stock as per bill Coal Company	Kcal/kg				0	
24	GCV of Imported Coal supplied as per bill Coal Company	Kcal/kg				0	
25	Weighted average GCV of coal / Lignite as fired	Kcal/kg			[illegible]		
26	GCV of Domestic Coal of the opening stock as received at Station	Kcal/kg	[illegible]	[illegible]	[illegible]		0
27	GCV of Domestic Coal supplied as received at Station	Kcal/kg	[illegible]	[illegible]	[illegible]		0
28	GCV of Imported Coal of opening stock as received at Station	Kcal/kg				[illegible]	
29	GCV of Imported Coal supplied as received at Station	Kcal/kg				[illegible]	
29a	Weighted average GCV of coal / Lignite as Received (OR THE BASIS OF [illegible] OF DOMESTIC COAL AND IMPORTED COAL)	Kcal/kg			[illegible]		
29b	Adjustment of GCV (29a-25)	Kcal/kg			[illegible]		
29c	Weighted average GCV of coal / lignite as Received and Blo mass (OR THE BASIS OF TOTAL COMPOSITION OF COAL AND BIOMASS)	Kcal/kg			[illegible]		
30	Weighted average GCV of coal / lignite as Received	Kcal/kg			[illegible]		

Remarks: [illegible]

For Sandeep Arora
Partner
S. N. Dhawan & Co. LLP
M.No. 093754
Date: 15th June 2021
UDIN: 21093754AAAABM8799

Detailed [illegible] to be submitted in respect of Fuel for Computation of [illegible] Charges
NTPC LTD. -National Capital Thermal Power Station, Dadri Stage-I

Part-I
Form-15

Fuel: Coal Month: Oct-20 Prodcutnal [illegible]

S.No.	Particulars	Unit	Domestic Type 1 (N21491000657)	Domestic Type 2 (N21491000660)	Domestic Type 3 (N21491000628)	Imported	Bio Mass
A)	OPENING QUANTITY						
1	Opening Quantity of Coal/Lignite	MT	[illegible]	[illegible]	[illegible]	[illegible]	3
2	Value of Stock	Rs	[illegible]	[illegible]	[illegible]	[illegible]	0
B)	QUANTITY						
3	Quantity of Coal/Lignite/ Bio Mass supplied by Coal/Lignite/ Bio Mass Company	MT	0.000	[illegible]	[illegible]	31588	160.43
4	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	MT	0.000	[illegible]	0.000	0	
5	Coal received by Coal/Lignite (3+4)	MT	0.000	[illegible]	[illegible]	[illegible]	160.43
6	Normative Transit & Handling Losses (for coal/Lignite based Projects)	MT	0.000	[illegible]	[illegible]	[illegible]	
7	Net coal / Lignite Supplied (5-6)	MT	0.000	[illegible]	[illegible]	[illegible]	160.43
C)	PRICE						
8	Amount charged by the Coal/Lignite Company	Rs	0	[illegible]	[illegible]	[illegible]	
9	Adjustment (+/-) in amount charged made by Coal/Lignite Company	Rs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	Sampling and such other service charges	Rs			[illegible]	[illegible]	0
11	Total amount Charged (8+9+10)	Rs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
D)	TRANSPORTATION	Rs					
12	Transportation charges by rail/ship/road transport	Rs	0	[illegible]	[illegible]	0	0
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	Rs					
14	Demurrage Charges, if any	Rs					
15	Cost of diesel in transporting coal through MGR system, if applicable	Rs					
16	Total Transportation Charges (12+13+14+15)	Rs	0	[illegible]	[illegible]	0	0
17	Total amount Charged for coal/lignite supplied including Transportation (11+16)	Rs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
E)	TOTAL COST						
18	Landed cost of coal/ Lignite (17+[illegible])	Rs./MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	Blending Rate (Domestic /Imported)	Rs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	Weighted average cost of coal/ Lignite	Rs./MT			[illegible]		
F)	QUALITY						
21	GCV of Domestic Coal of the opening coal stock as per bill of Coal Company	Kcal/kg	[illegible]	[illegible]	[illegible]		
22	GCV of Domestic Coal supplied as per bill of Coal Company	Kcal/kg	[illegible]	[illegible]	[illegible]		
23	GCV of Imported Coal of the opening stock as per bill Coal Company	Kcal/kg					
24	GCV of Imported Coal supplied as per bill Coal Company	Kcal/kg				[illegible]	
25	Weighted average GCV of coal/ Lignite as billed	Kcal/kg			[illegible]	[illegible]	
26	GCV of Domestic Coal of the opening stock as on record at Station	Kcal/kg	[illegible]	[illegible]	[illegible]		
27	GCV of Domestic Coal / Bio Mass supplied as on record at Station	Kcal/kg	[illegible]	[illegible]	[illegible]		[illegible]
28	GCV of Imported Coal of opening stock as on record at Station	Kcal/kg					[illegible]
29	GCV of Imported Coal supplied as received at Station	Kcal/kg				[illegible]	
29A	Weighted average GCV of coal/ Lignite as Received (ON THE BASIS OF COMBUSTION OF DOMESTIC COAL AND IMPORTED COAL)	Kcal/kg		[illegible]		[illegible]	[illegible]
29B	Adjustment of GCV (29A-28)	Kcal/kg		[illegible]			[illegible]
29C	Weighted average GCV of coal/ Lignite as Received and Bio mass (ON THE BASIS OF TOTAL COMBUSTION OF COAL AND Biomass)	Kcal/kg			[illegible]		
29	Weighted average GCV of coal/ Lignite as Received	Kcal/kg			[illegible]		

Remarks: Price of Stage I + Extra charges is based on calculation of Blending by Rate Equivalent.

Per Sanjay Arora
Partner
S. N. Dhawan & Co. LLP
M.No.093754
Date: 15th June 2021
UDIN: 21093754AAAAAB8799

Part-I
Form-15

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

NTPC LTD.

National Capital Thermal Power Station, Dadri Stage-I

Fuel: Oil Month Oct-09

S. No.	Particulars	Unit	HFO	LDO
A)	**OPENING QUANTITY**			
1	Opening Quantity of Oil	KL	0	2984.947
2	Value of Stock	Rs.	0.00	[illegible]
B)	**QUANTITY**			
3	Quantity of Oil supplied by Oil Company	KL	0.000	[illegible]
4	Adjustment (+/-) in quantity supplied made by Oil Company	KL	0.000	0.000
5	Oil supplied by Oil (3+4)	KL	0.000	[illegible]
6	Normative Transp & Handling Losses (For Coal based Projects)	KL	0.000	0.000
7	Net Oil Supplied (5-6)	KL	0.000	[illegible]
C)	**PRICE**			
8	Amount charged by the Oil Company	Rs.	0.00	[illegible]
9	Adjustment (+/-) in amount charged made by Oil Company	Rs.	0.00	0.00
10	Handling, Sampling and such other similar charges	Rs.		
11	Total amount Charged (8+9+10)	Rs.	0.00	[illegible]
D)	**TRANSPORTATION**	Rs.		
12	Transportation charges by rail, ship, road transport	Rs.	0.00	0.00
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	Rs.	0.00	0.00
14	Demurrage Charges, if any	Rs.	0.00	0.00
15	Cost of diesel in transporting coal through MGR system, if applicable	Rs.		
16	Total Transportation Charges (12+13+14+15)	Rs.	0.00	0.00
17	Total amount Charged for Oil supplied including Transportation (11+16)	Rs.	0.00	[illegible]
E)	**TOTAL COST**			
18	Landed cost of Oil (2+17)/(1+7)	Rs / KL	0	[illegible]
19	Blending Ratio (Domestic /Imported)	%		
20	Weighted average cost of Oil	Rs / KL	[illegible]	
F)	**QUALITY**			
21	GCV of Domestic Oil of the opening Oil stock as per bill of Oil Company	Kcal/KL	0	9585
22	GCV of Domestic Oil supplied as per bill of Oil Company	Kcal/KL	0	0
23	GCV of Imported Oil of the opening stock as per bill Oil Company	Kcal/KL		
24	GCV of Imported Oil supplied as per bill Oil Company	Kcal/KL		
25	Weighted average GCV of Oil/ Liquid as Billed	Kcal/KL	9585	
26	GCV of Domestic Oil of the opening stock as received at Station	Kcal/KL	0	9585
27	GCV of Domestic Oil supplied as received at Station	Kcal/KL	0	0
28	GCV of Imported Oil of opening stock as received at Station	Kcal/KL		
29	GCV of Imported Oil of opening stock as received at Station	Kcal/KL		
30	Weighted average GCV of Oil / Liquid as Received	Kcal/KL	9585	

D. C. Agrawal
Dy. Manager / D. C. AGRAWAL
NTPC Ltd. Faridabad

Ganesh Bajbulana
GANESH BAJBULANA
Manager / NTPC Limited

Per Sanjay Arora
Partner
S. N. Dhawan & Co. LLP
M.No. [illegible]
Date: 15th [illegible]
UDIN: [illegible]

Part-I
Form-15

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

NTPC LTD.

National Capital Thermal Power Station, Dadri Stage-I

Fuel: OIL **Month** Nov-20

S. No.	Particulars	Unit	HFO	LDO
A)	OPENING QUANTITY			
1	Opening Quantity of Oil	KL	0	3779.131
2	Value of Stock	Rs.	0.00	2475596[illegible].31
B)	QUANTITY			
3	Quantity of Oil supplied by Oil Company	KL	0.000	0.000
4	Adjustment (+/-) in quantity supplied made by Oil Company	KL	0.000	0.000
5	Oil supplied by Oil (3+4)	KL	0.000	0.000
6	Normative Transit & Handling Losses (For Coal based Projects)	KL	0.000	0.000
7	Net Oil Supplied (5-6)	KL	0.000	0.000
C)	PRICE			
8	Amount charged by the Oil Company	Rs.	0.00	0.00
9	Adjustment (+/-) in amount charged made by Oil Company	Rs.	0.00	0.00
10	Handling, Sampling and such other similar charges	Rs.		
11	Total amount Charged (8+9+10)	Rs.	0.00	0.00
D)	TRANSPORTATION	Rs.		
12	Transportation charges by rail, ship, road transport	Rs.	0.00	0.00
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	Rs.	0.00	0.00
14	Demurrage Charges, if any	Rs.	0.00	0.00
15	Cost of diesel in transporting coal through MGR system, if applicable	Rs.		
16	Total Transportation Charges (12+13+14+15)	Rs.	0.00	0.00
17	Total amount Charged for Oil supplied including Transportation (11+16)	Rs.	0.00	0.00
E)	TOTAL COST			
18	Landed cost of Oil (2+17)/(1+7)	Rs / Kl.	0	65[illegible].78
19	Blending Ratio (Domestic /Imported)	%		
20	Weighted average cost of Oil	Rs / KL	6[illegible].38	
F)	QUALITY			
21	GCV of Domestic Oil of the opening Oil stock as per bill of Oil Company	Kcal/Kl.	0	[illegible]
22	GCV of Domestic Oil supplied as per bill of Oil Company	Kcal/Kl.	0	0
23	GCV of Imported Oil of the opening stock as per bill Oil Company	Kcal/Kl.		
24	GCV of Imported Oil supplied as per bill Oil Company	Kcal/Kl.		
25	Weighted average GCV of Oil/ Liquite as Billed	Kcal/Kl.	[illegible]	
26	GCV of Domestic Oil of the opening stock as received at Station	Kcal/Kl.	0	[illegible]
27	GCV of Domestic Oil supplied as received at Station	Kcal/Kl.	0	0
28	GCV of Imported Oil of opening stock as received at Station	Kcal/Kl.		
29	GCV of Imported Oil of opening stock as received at Station	Kcal/Kl.		
30	Weighted average GCV of Oil/ Liquite as Received	Kcal/Kl.	[illegible]	

D. C. Agrawal
Dy. Manager / D. C. AGRAWAL
Dy. Manager (F&A)
NTPC Ltd. Faridabad (Dadri-Hybrid)

Rajesh Bahuguna
Chief Manager (Finance)
NTPC Limited

Per Sanjay Arora
Partner
S. N. Dhawan & Co. LLP
M.No.:093754
Date: 15th June 2021
UDIN: 21093[illegible]

Part-I
Form-15

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

NTPC LTD.

National Capital Thermal Power Station, Dadri Stage-I

Fuel: Oil **Month** Dec-20 [illegible]

S. No.	Particulars	Unit	HFO	LDO
A)	**OPENING QUANTITY**			
1	Opening Quantity of Oil	KL	0	1729.957
2	Value of Stock	Rs.	0.00	2453882276.75
B)	**QUANTITY**			
3	Quantity of Oil supplied by Oil Company	KL	0.000	0.000
4	Adjustment (+/-) in quantity supplied made by Oil Company	KL	0.000	0.000
5	Oil supplied by Oil (3+4)	KL	0.000	0.000
6	Normative Transit & Handling Losses (For Coal based Projects)	KL	0.000	0.000
7	Net Oil Supplied (5-6)	KL	0.000	0.000
C)	**PRICE**			
8	Amount charged by the Oil Company	Rs.	0.00	0.00
9	Adjustment (+/-) in amount charged made by Oil Company	Rs.	0.00	0.00
10	Handling, Sampling and such other similar Charges	Rs.		
11	Total amount Charged (8+9+10)	Rs.	0.00	0.00
D)	**TRANSPORTATION**	Rs.		
12	Transportation charges by rail, ship, road transport	Rs.	0.00	0.00
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	Rs.	0.00	0.00
14	Demurrage Charges, if any	Rs.	0.00	0.00
15	Cost of diesel in transporting coal through MGR system, if applicable	Rs.		
16	Total Transportation Charges (12+13+14+15)	Rs.	0.00	0.00
17	Total amount Charged for Oil supplied including Transportation (11+16)	Rs.	0.00	0.00
E)	**TOTAL COST**			
18	Landed cost of Oil (2+17)/(11+7)	Rs / Kl.	0	42832.38
19	Blending Ratio (Domestic /Imported)	%		
20	Weighted average cost of Oil	Rs / Kl.	42832.38	
F)	**QUALITY**			
21	GCV of Domestic Oil of the opening Oil stock as per bill of Oil Company	Kcal/Kl.	0	9650
22	GCV of Domestic Oil supplied as per bill of Oil Company	Kcal/Kl.	0	0
23	GCV of Imported Oil of the opening stock as per bill Oil Company	Kcal/Kl.		
24	GCV of Imported Oil supplied as per bill Oil Company	Kcal/Kl.		
25	Weighted average GCV of Oil/ Liquids as fired	Kcal/Kl.	N/A	
26	GCV of Domestic Oil of the opening stock as received at Station	Kcal/Kl.	0	9650
27	GCV of Domestic Oil supplied as received at Station	Kcal/Kl.	0	0
28	GCV of Imported Oil of opening stock as received at Station	Kcal/Kl.		
29	GCV of imported Oil of opening stock as received at Station	Kcal/Kl.		
30	Weighted average GCV of Oil/ Liquids as fired	Kcal/Kl.	N/A	

[illegible] / D.C. AGRAWAL
[illegible] / Dy. Manager of [illegible]
[illegible] / [illegible] for the year
NTPC Ltd. Faridabad/ GSC Hydro/DBFL Faridabad
[illegible] / Faridabad

[illegible]
DANE OH ANUGUNA
[illegible]

Per Sanjay Arora
Partner
S. N. Dhawan & Co. LLP
M.No. 093754
Date: [illegible]
UDIN: [illegible]

Form-1

Form-15

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

NTPC LTD.

National Capital Thermal Power Station, Dadri Stage-I

Fuel: Coal | Month: Oct-21 | [redacted] | 01-10-2021

S.No.	Particulars	Unit	Domestic Type 1 (SK1 [illegible])	Domestic Type 2 (SK1 [illegible])	Domestic Type 3 (SK1 [illegible])	Imported	Tot Mass
A)	[illegible]						
1	[illegible]	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	%	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
B)	[illegible]						
3	[illegible]	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
C)	[illegible]						
8	[illegible]	Rs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	Rs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	Rs					
11	[illegible]	Rs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
D)	[illegible]						
12	[illegible]	Rs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	Rs					
14	[illegible]	Rs					
15	[illegible]	Rs					
16	[illegible]	Rs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	Rs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
E)	[illegible]						
18	[illegible]	Rs/MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	Rs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	Rs/MT	[illegible]				
20a	[illegible]	Rs/MT	[illegible]				
21	[illegible]						
22	[illegible]	Rs/Kg	[illegible]	[illegible]	[illegible]		[illegible]
23	[illegible]	Rs/Kg	[illegible]	[illegible]	[illegible]		[illegible]
24	[illegible]	Rs/Kg				[illegible]	
25	[illegible]	Rs/Kg					
26	[illegible]	Rs/Kg					
27	[illegible]	Rs/Kg	[illegible]	[illegible]	[illegible]		[illegible]
28	[illegible]	Rs/Kg	[illegible]	[illegible]	[illegible]		[illegible]
29	[illegible]	Rs/Kg				[illegible]	
30	[illegible]	Rs/Kg					
31	[illegible]	Rs/Kg					

Manager (F)

Shalabh Jain

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Part-I

Form 15

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

NTPC LTD

National Capital Thermal Power Station, Dadri Stage-I

Fuel: Coal | Month: Nov-21 | 11/12/2021

S.No	Particulars	Unit	Domestic Type 1 (01169100617)	Domestic Type 2 (01169100648)	Domestic Type 3 (01169100635)	Imported	Blr Mixt
A)	OPENING QUANTITY						
1	Opening Quantity of Coal (Tonnes)	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	Value of Stock	Rs.	[illegible]	[illegible]	[illegible]	[illegible]	-
B)	QUANTITY						
1	Quantity of Coal Supplied by Coal Supply Company	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	Adjustment (+/-) in quantity supplied made by Coal Supply Company	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	Coal supplied by Coal Supply (1-2)	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	Normative Transit & Handling Losses (For multi-fuel Power Plant)	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	Net coal Supply Received (3-4)	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
C)	PRICE						
1	Invoice Charges for the Coal Supply Company	Rs.	[illegible]	[illegible]	[illegible]	-	[illegible]
2	Adjustment (+/-) in amount charged made by Coal Supply Company	Rs.	[illegible]	[illegible]	[illegible]	-	-
3	Handling, Freighting and other other related charges	Rs.					
4	Total amount Charged (2+3+4)	Rs.	[illegible]	[illegible]	[illegible]	-	[illegible]
D)	TRANSPORTATION	Rs.					
1	Transportation Charges by rail (Rs./MT)	Rs.	[illegible]	[illegible]	[illegible]	-	-
2	Adjustment (+/-) in amount charged made by Railway/Transport Company	Rs.					
3	Demurrage Charges, if any	Rs.					
4	Cost of coal exchanged against the supply MCL number of rake loads	Rs.					
5	Total Transportation Charges (1+2+3+4+5)	Rs.	[illegible]	[illegible]	[illegible]	-	-
6	Total amount charged for coal supply supplied including transportation (4+5)	Rs.	[illegible]	[illegible]	[illegible]	-	[illegible]
E)	TOTAL COST						
1	Landed cost of coal delivered (3+5+6) (C+D)	Rs./MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	Handling Loss (Normative Transit)	%	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	Weighted average cost of Coal Supply for the month (Domestic)	Rs./MT	[illegible]				
4	Weighted average cost of Coal Supply for the month (Imported)	Rs./MT	[illegible]				
F)	QUALITY						
1	GCV as received basis of the opening coal stock as per bill of the Coal Company	Kcal/kg	[illegible]	[illegible]	[illegible]		[illegible]
2	GCV as received basis of the coal supplied as per bill of the Coal Company	Kcal/kg	[illegible]	[illegible]	[illegible]		[illegible]
3	GCV as received basis of the opening coal stock as per MCL Laboratory	Kcal/kg					
4	GCV as received basis of the coal supplied as per MCL Laboratory	Kcal/kg				[illegible]	
5	Weighted average GCV of Coal Supply for the month (Domestic)	Kcal/kg			[illegible]		
6	Weighted average GCV of Coal Supply for the month (Imported)						
7	GCV as received basis of the opening coal stock as per GCV of Stock	Kcal/kg	[illegible]	[illegible]	[illegible]		[illegible]
8	GCV as received basis of the coal supplied as per GCV of Stock	Kcal/kg	[illegible]	[illegible]	[illegible]		[illegible]
9	GCV as received basis of the opening coal stock as per Analysis	Kcal/kg				[illegible]	
10	GCV as received basis of the coal supplied as per GCV of Stock	Kcal/kg					
11	Weighted average GCV of Coal Supply for the month (Domestic)	Kcal/kg					
12	Weighted average GCV of Coal Supply for the month (Imported)	Kcal/kg					

Manager(F)

Shalabh Jain

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Part-I

Form-III

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

NTPC LTD.

Narmadi Capital Thermal Power Station, Badri Stage-1

Month: Dec 23

S.No.	Particulars	Unit	Domestic Type-1 (W1+W2+W3+W5)	Domestic Type-2 (W4+W6+W8+W9)	Domestic Type-3 (W7+W10+W11+W12)	Imported	Blr Rate
A	[illegible]						
1	[illegible]	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	Rs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
B1	[illegible]						
3	[illegible]	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
B2	[illegible]						
8	[illegible]	Rs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	Rs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	Rs					
11	[illegible]	Rs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
B3	[illegible]						
12	[illegible]	Rs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	Rs					
14	[illegible]	Rs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	Rs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	Rs					
B4	[illegible]						
17	[illegible]	Rs/MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	Rs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	Rs/MT	[illegible]				
20	[illegible]	Rs/MT	[illegible]				
21	[illegible]						
22	[illegible]		[illegible]	[illegible]	[illegible]		[illegible]
23	[illegible]	Gcal/kg	[illegible]	[illegible]	[illegible]		[illegible]
24	[illegible]	Gcal/kg				[illegible]	
25	[illegible]	Gcal/kg				[illegible]	
26	[illegible]	Gcal/kg					
27	[illegible]	Gcal/kg					
28	[illegible]	Gcal/kg					
29	[illegible]	Gcal/kg					
30	[illegible]	Gcal/kg	[illegible]	[illegible]	[illegible]		[illegible]
31	[illegible]	Gcal/kg	[illegible]	[illegible]	[illegible]		[illegible]
32	[illegible]	Gcal/kg				[illegible]	
33	[illegible]	Gcal/kg				[illegible]	
34	[illegible]	Gcal/kg					
35	[illegible]	Gcal/kg					

Heather Mawge (F)

Shalab h Jain

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Part-I

Form-15

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

NTPC LTD.

National Capital Thermal Power Station, Dadri Stage-I

Fuel	OIL	Month	Oct-21	Nov-21	Dec-21
S.NO.	Particulars	Unit	LDO	LDO	LDO
A)	OPENING QUANTITY				
1	Opening Quantity of Oil	KL	[illegible]	[illegible]	[illegible]
2	Value of Stock	Rs	[illegible]	[illegible]	[illegible]
B)	QUANTITY				
3	Quantity of Oil received by Oil Company	KL	0.000	0.000	0.000
4	Adjustment (+/-) in quantity received made by Oil	KL	0.000	0.000	0.000
5	Oil supplied by Oil (3+4)	KL	0.000	0.000	0.000
6	Net calorific Value of Heating Fuel (For Coal based	Kcal	0.000	0.000	0.000
7	Net Oil Supplied (5*6)	GCal	0.000	0.000	0.000
C)	PRICE				
8	Amount charged by the Oil Company	Rs.	0.00	0.00	0.00
9	Adjustment (+/-) in amount charged made by Oil	Rs.	0.00	0.00	0.00
10	Handling, Sampling and other other similar charges	Rs.			
11	Total amount Charged (8+9+10)	Rs.	0.00	0.00	0.00
D)	TRANSPORTATION	Rs.			
12	Transportation charges by rail/ship/road transport	Rs.	0.00	0.00	0.00
13	Adjustment (+/-) in amount charged made by	Rs.	0.00	0.00	0.00
14	Demurrage Charges, if any	Rs.	0.00	0.00	0.00
15	Cost of Diesel in transporting oil through Oil pipeline	Rs.			
16	Total Transportation charges (12+13+14+15)	Rs.	0.00	0.00	0.00
17	Total amount Charged for Oil supplied (11+16)	Rs.	0.00	0.00	0.00
E)	TOTAL COST				
18	Landed cost of Oil (12+17)/(7+7)	Rs./GCal	31294.02	31294.02	31294.02
19	Prevailing Rebate if any/any (Negative Value)	Rs.			
20	Weighted Average cost of Oil	Rs./GCal	31294.02	31294.02	31294.02
F)	QUALITY				
21	GCV of Opening Oil of the opening Oil stock as per MR	Kcal/Kg	9661	9548	9624
22	GCV of Received Oil supplied as per MR of Oil Company	Kcal/Kg	0	0	0
23	GCV of Incremental Oil of the current month as per MR (F)	Kcal/Kg			
24	GCV of Imported Oil supplied as per MR Oil company	Kcal/Kg			
25	Weighted average GCV of Oil Liquid as billed	Kcal/Kg	9661	9548	9624
26	GCV of the Stock Oil in the month end, as check cost at	Kcal/Kg	9661	9548	9624
27	GCV of Opening Oil received as received at Station	Kcal/Kg	0	0	0
28	GCV of Incremental Oil of reconciliation as received at	Kcal/Kg			
29	GCV of Incremental Oil of reconciliation as received at	Kcal/Kg			
30	Weighted Average GCV of Oil Liquid as received	Kcal/Kg	9661	9548	9624
	Energy Cost in Ps. per Unit	Ps.	[illegible]	0	[illegible]

Manager (F)

Shalabh Jain

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Part-I

Form-II

Details Information to be submitted in respect of Fuel for Computation of Energy Charges

NTPC LTD.

National Capital Thermal Power Station, Dadri Stage-I

Month: [illegible]

S. No.	Particulars	Unit	Domestic Type 1 (DC149[illegible])	Domestic Type 2 (DC149[illegible])	Domestic Type 3 (DC149[illegible])	Domestic Type 4 (DC149[illegible])	Imported	Blended Mode
A)	OPENING QUANTITY							
1	Opening Quantity of Coal/Lignite	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	Value of Stock	Rs.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
B)	QUALITY							
1	Quantity of Coal/Lignite supplied by Coal/Lignite Company	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	Adjustment (+/-) for quantity supplied made by Coal/Lignite Company	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	Net Coal/Lignite Supplied (1+2)	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	Normative Transit & Handling Losses (For coal/Lignite based Projects)	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	Net coal/Lignite Supplied (3-4)	MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
C)	PRICE							
1	Price as charged by the Coal/Lignite Company	Rs.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	Adjustment (+/-) for amount charged made by Coal/Lignite Company	Rs.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	Handling, Sampling and such other charges/Taxes	Rs.	[illegible]	[illegible]		[illegible]		
4	Total Amount Charged (1+2+3)	Rs.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
D)	TRANSPORTATION	Rs.						
1	Transportation charges by rail/road/water/ropway	Rs.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	Adjustment (+/-) for amount charged made by Railways/Transport Company	Rs.						
3	Demurrage Charges, if any	Rs.						
4	Cost of diesel in transporting coal through MGR system of Railways	Rs.						
5	Total Transportation Charges (1+2+3+4+5)	Rs.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
E)	Total amount Chargeable (4+5+D4+D5+D6)	Rs.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
F)	WEIGHTED AVG.							
1	Landed cost of Coal/Lignite (C+D+E)/(1+2)	Rs./MT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	Blending Ratio (Domestic/Imported)	%	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	Weighted average cost of Coal/Lignite (Including Blending)	Rs./MT	[illegible]					
3(a)	Weighted average cost of Coal/Lignite (Excluding Blending)	Rs./MT	[illegible]					
G)	GROSS CV							
1	GCV of Domestic Coal of the opening stock as per bill of Coal Company	Kcal/Kg	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	GCV of Imported Coal supplied as per bill of Coal Company	Kcal/Kg	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	GCV of Imported Coal of the opening stock as per bill Coal Company	Kcal/Kg					[illegible]	
4	GCV of Imported Coal supplied as per bill Coal Company	Kcal/Kg					[illegible]	
5	Weighted average GCV of coal/Lignite as Billed (Excluding Blending)	Kcal/Kg			[illegible]			
5(a)	Weighted average GCV of coal/Lignite as Billed (Including Blending)				[illegible]			
H)	NCV of Domestic Coal of the opening stock as per bill of Coal Company	Kcal/Kg	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	NCV of Imported Coal supplied as per bill of Coal Company	Kcal/Kg	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	NCV of Imported Coal of the opening stock as per bill Coal Company	Kcal/Kg					[illegible]	
4	NCV of Imported Coal supplied as per bill Coal Company	Kcal/Kg					[illegible]	
5	Weighted average NCV of coal/Lignite as Billed (Excluding Blending)	Kcal/Kg						
5(a)	Weighted average NCV of Coal/Lignite as Received (Including Blending)	Kcal/Kg						

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Part-I

Form-15

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

NTPC LTD.

National Capital Thermal Power Station, Dadri Stage-I

Fuel: Coal Month: Nov-22

S.No.	Particulars	Unit	Domestic Type 1 (NC140100637)	Domestic Type 2 (NC140100640)	Domestic Type 3 (NC140100639)	Domestic Type 4 (NC140100621)	Imported	Blending
A)	OPENING QUANTITY							
1	Opening Quantity of Coal/Lignite	MT	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.00
2	Value of Stock	Rs.	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.00
B)	QUANTITY							
3	Quantity of Coal/Lignite supplied by Coal/Lignite Company	MT	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.00
4	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	MT	0.00	0.00	0.00	0.00	0.00	0.00
5	Coal supplied by Coal/Lignite (3+4)	MT	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.00
6	Received by Transit & Handling Losses (Pre Coal/Lignite based Property)	MT	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.00
7	Net coal/Lignite Supplied (5-6)	MT	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.00
C)	PRICE							
8	Amount Charged by the Coal/Lignite Company	Rs.	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.00
9	Adjustment (+/-) in amount charged made by Coal/Lignite Company	Rs.	0.00	0.00	0.00	0.00	0.00	0.00
10	Handling, Sampling and such other similar charges	Rs.	[illegible]	[illegible]	0.00	[illegible]	0.00	
11	Total amount Charged (8+9+10)	Rs.	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.00
D)	TRANSPORTATION	Rs.						
12	Transportation charges by rail/road/ropeway	Rs.	[illegible]	[illegible]	0.00	[illegible]	0.00	0.00
13	Adjustment (+/-) in amount charged made by Railway/Transport Company	Rs.						
14	Demurrage Charges, if any	Rs.						
15	Cost of diesel in transporting coal through MGR system, if applicable	Rs.						
16	Total Transportation Charges (12+13+14+15)	Rs.	[illegible]	[illegible]	0.00	[illegible]	0.00	0.00
17	Total amount Charged for coal/lignite supplied including Transportation (11+16)	Rs.	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.00
E)	DELIVERED COST							
18	Landed cost of coal/lignite (14+17/3+7)	Rs./MT	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.00
19	Blending Ratio (Domestic/Imported)	%	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.00%
20	Weighted Average cost of Coal/Lignite (Including Blending)	Rs./MT	9251.48					
20a	Weighted average cost of Coal/Lignite (Excluding Blending)	Rs./MT	9251.48					
F)	QUALITY							
21	GCV of Domestic Coal of the opening stock as per bill of Coal Company	Kcal/kg	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.00
22	GCV of Domestic Coal supplied as per bill of Coal Company	Kcal/kg	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.00
23	GCV of imported coal of the opening stock as per bill of Coal Company	Kcal/kg					[illegible]	0.00
24	GCV of imported coal supplied as per bill of Coal Company	Kcal/kg					[illegible]	0.00
25	Weighted average GCV of coal/lignite as fired (Including Blending)	Kcal/kg	4149					
25a	Weighted average GCV of coal/lignite as fired (Excluding Blending)		4149					
26	GCV of Domestic coal of the opening stock as received at Station	Kcal/kg	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.00
27	GCV of Domestic coal supplied as received at Station	Kcal/kg	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.00
28	GCV of imported coal of the opening stock as received at Station	Kcal/kg					[illegible]	0.00
29	GCV of imported coal supplied as received at Station	Kcal/kg					[illegible]	0.00
30	Weighted average GCV of coal/lignite as received (Including Blending)	Kcal/kg	3481					
30a	Weighted average GCV of coal/lignite as received (Excluding Blending)	Kcal/kg						

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Part-I

Form-15

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

NTPC LTD.

National Capital Thermal Power Station, Dadri Stage-I

Fuel: Coal Month: Dec-22

S. No.	Particulars	Unit	Domestic Type 2 (M11.69(60%57))	Domestic Type 2 (M11.69(60%40))	Domestic Type 3 (M11.69(60%35))	Domestic Type 4 (M11.69(60%20))	Imported	Bio Mass
A)	OPENING QUANTITY							
1	Opening Quantity in Coal Yard	MT	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.00
2	Value of Stock	Rs	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.00
B)	QUANTITY							
3	Quantity of Coal Lignite supplied by Coal/Lignite Company	MT	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.00
4	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	MT	0.00	0.00	0.00	0.00	0.00	0.00
5	Coal supplied for Coal/Lignite (3+4)	MT	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.00
6	Adjustment Transit & Handling losses (For coal/lignite based PP plants)	MT	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.00
7	Net coal / lignite Supplied (5-6)	MT	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.00
C)	PRICE							
8	Amount charged by the Coal/Lignite Company	Rs	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.00
9	Adjustment (+/-) if any made by Coal/Lignite Company	Rs					0.00	0.00
10	Handling, Sampling and such other similar charges	Rs	[illegible]	[illegible]	0.00	[illegible]		
11	Total amount Charged (8+9+10)	Rs	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.00
D)	TRANSPORTATION							
12	Transportation charges by rail/ship/road transport	Rs	[illegible]	[illegible]	0.00	[illegible]	0.00	0.00
13	Adjustment (+/-) if any made by Railway/Transport Company	Rs						
14	Demurrage Charges, if any	Rs						
15	Cost of diesel in transporting coal through MGR system, if applicable	Rs						
16	Total Transportation Charges (12+13+14+15)	Rs	[illegible]	[illegible]	0.00	[illegible]	0.00	0.00
17	Total amount Charged for coal/lignite supplied including Transportation (11+16)	Rs	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.00
E)	TOTAL COST							
18	Landed cost of coal/lignite (17/7)	Rs/MT	[illegible]	[illegible]	0.00	[illegible]	[illegible]	0.00
19	Landed Fuel Expenses (Annexure)	%	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	Weighted Average cost of Coal/Lignite (including Expenses)	Rs./MT	6963.20					
20a	Weighted average cost of Coal/Lignite (Excluding Expenses)	Rs./MT	6963.20					
F)	QUALITY							
21	GCV of Domestic Coal at the opening coal stock as per bill of Coal Company	Kcal/kg	[illegible]	[illegible]	0	[illegible]		0
22	GCV of Domestic Coal supplied as per bill of Coal Company	Kcal/kg	[illegible]	[illegible]	0	[illegible]		0
23	GCV of Imported Coal at the opening stock as per bill of Coal Company	Kcal/kg					[illegible]	
24	GCV of Imported coal supplied as per bill of Coal Company	Kcal/kg					[illegible]	
25	Weighted average GCV of Coal/Lignite as Billed (Excluding Expenses)	Kcal/kg	4165					
25a	Weighted average GCV of Coal/Lignite as Billed (Including Expenses)		4165					
26	GCV of Domestic Coal at the opening stock as received at Station	Kcal/kg	[illegible]	[illegible]	0	[illegible]		0
27	GCV of Domestic Coal supplied as received at Station	Kcal/kg	[illegible]	[illegible]	0	[illegible]		0
28	GCV of Imported Coal at opening stock as received at Station	Kcal/kg					[illegible]	
29	GCV of Imported Coal supplied as received at Station	Kcal/kg					[illegible]	
30	Weighted average GCV of Coal/Lignite as Received (Excluding Expenses)	Kcal/kg	Detailed verified by FA(NTPC) PP					
30a	Weighted average GCV of Coal/Lignite as Received (Including Expenses)	Kcal/kg	PO(NTPC)					

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Part-I

Form-15

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

NTPC LTD.

National Capital Thermal Power Station, Dadri Stage-I

Fuel: OIL

S. No.	Particulars	Month / Unit	Oct-22	Nov-22	Dec-22
		Unit	LDO		
A)	**OPENING QUANTITY**				
1	Opening Quantity of Oil	KL	2984.25	5741.78	5587.42
2	Value of Stock	Rs.	2602065.47.76	4519843185.96	4470875.23.23
B)	**QUANTITY**				
3	Quantity of Oil supplied by Oil Company	KL	3156.25	0.00	0.00
4	Adjustment (+/-) in quantity supplied made by Oil Company	KL	0.00	0.00	0.00
5	Oil supplied by Oil (3+4)	KL	3156.25	0.00	0.00
6	Normative Transit & Handling Losses (For Coal based Projects)	KL	0.00	0.00	0.00
7	Net Oil Supplied (5-6)	KL	3156.25	0.00	0.00
C)	**PRICE**				
8	Amount charged by the Oil Company	Rs.	28470687.00	0.00	0.00
9	Adjustment (+/-) in amount charged made by Oil Company	Rs.	0.00	0.00	0.00
10	Handling, Sampling and such other similar charges	Rs.			
11	Total amount Charged (8+9+10)	Rs.	28470687.00	0.00	0.00
D)	**TRANSPORTATION**	Rs.			
12	Transportation charges by rail/ship/road transport	Rs.	0.00	0.00	0.00
13	Adjustment (+/-) in amount charged made by Railways/Transport Company	Rs.	0.00	0.00	0.00
14	Demurrage Charges, if any	Rs.	0.00	0.00	0.00
15	Cost of diesel in transporting coal through MGR system, if applicable	Rs.			
16	Total Transportation Charges (12+13+14+15)	Rs.	0.00	0.00	0.00
17	Total amount Charged for Oil supplied including Transportation (11+16)	Rs.	28470687.00	0.00	0.00
E)	**TOTAL COST**				
18	Landed cost of Oil (2+17)/(1+7)	Rs./KL	78775.17	84687.33	84687.33
19	Blending Ratio (Domestic /Imported)	%			
20	Weighted average cost of Oil	Rs./KL	78225.17	84687.33	84687.33
F)	**QUALITY**				
21	GCV of Domestic Oil of the opening Oil stock as per bill of Oil Company	Kcal/KL	9661.00	9677.00	9680.00
22	GCV of Domestic Oil supplied as per bill of Oil Company	Kcal/KL	0.00		
23	GCV of Imported Oil of the opening stock as per bill Oil Company	Kcal/KL			
24	GCV of Imported Oil supplied as per bill Oil Company	Kcal/KL			
25	Weighted average GCV of Oil/ Liquid as fired	Kcal/KL	9661.00	9677.00	9680.00
26	GCV of Domestic Oil of the opening stock as received at Station	Kcal/KL	9661.00	9677.00	9680.00
27	GCV of Domestic Oil supplied as received at Station	Kcal/KL	0.00		
28	GCV of Imported Oil of opening stock as received at Station	Kcal/KL			
29	GCV of Imported Oil of opening stock as received at Station	Kcal/KL			
30	Weighted average GCV of Oil/ Liquid as Received	Kcal/KL	9661.00	9677.00	9680.00

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NATIONAL CAPITAL POWER STATION

BALANCE SHEET [Amount in ₹]

	As at	Note	31.03.2020	31.03.2019
001	**ASSETS**		**0.00**	**0.00**
002			**0.00**	**0.00**
003	**Non Current Assets**		**0.00**	**0.00**
004	Property, plant and equipment	2	21,044,176,340.40	22,696,352,432.97
005	Capital Work-in-Progress	3	6,280,304,642.55	2,256,211,385.48
006	Intangible Assets	4	1,470,249,250.59	1,572,468,811.08
007	Intangible Assets under Development	5	0.00	0.00
008	Investments in Subsidiaries and Joint Ventures	6	0.00	0.00
009	**Financial Assets**		**0.00**	**0.00**
010	i) Investments	7	0.00	0.00
011	ii) Trade receivables	8	0.00	0.00
012	iii) Loans	9	306,195,579.28	179,863,267.96
013	iv) Other financial assets	10	0.00	0.00
014	Other non-current assets	11	221,228,225.43	206,102,440.35
015	**Total non-current assets**		**28,328,575,267.54**	**26,911,376,336.82**
016			**0.00**	**0.00**
017	**Current Assets**		**0.00**	**0.00**
018	Inventories	12	7,245,160,061.09	5,513,135,789.29
019	**Financial assets**		**0.00**	**0.00**
020	i) Investments	13	0.00	0.00
021	ii) Trade receivables	14	15,488,477.53	71,302,685.49
022	iii) Cash and cash equivalents	15	429,434.93	4,962,993.37
023	iv) Bank balances other than cash and cash equivalents	16	0.00	0.00
024	v) Loans	17	112,124,267.40	102,341,243.74
025	vi) Other financial assets	18	-24,296,785.18	-811,834.87
026			0.00	0.00
027	Other Current Assets	19	4,042,767,709.04	10,259,526,614.32
028			0.00	0.00
029			**0.00**	**0.00**
030	**Total Current Assets**		**11,391,797,252.58**	**15,489,759,588.47**
031	Regulatory deferral account debit balances	20	413,597,195.73	399,393,475.35
032	**TOTAL ASSETS**		**31,134,175,495.59**	**34,296,575,748.47**
034	**EQUITY AND LIABILITIES**		**0.00**	**0.00**
035	**Equity**		**0.00**	**0.00**
036	Equity Share capital	21	0.00	0.00
037	Other equity	22	126,290,266,302.24	118,764,302,215.43
040	**Total equity**		**126,290,266,302.24**	**118,764,302,215.43**
041			0.00	0.00
042	**Liabilities**		**0.00**	**0.00**
043	**Non-Current Liabilities**		**0.00**	**0.00**
044	**Financial liabilities**		**0.00**	**0.00**
045	i) Borrowings	23	0.00	0.00
046	ii) Trade payables		**0.00**	**0.00**
047	- Total outstanding dues of micro and small enterprises	24	4,263,886.09	3,289,446.13
048	- Total outstanding dues of creditors other than micro	24	3,755,202.27	2,737,228.24

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एनटीपीसी NTPC
A Maharatna Company

NATIONAL CAPITAL POWER STATION

BALANCE SHEET

(Amount in ₹)

	As at	Note	31.03.2020	31.03.2019
046	ii) Trade payables		0.00	0.00
047	- Total outstanding dues of micro and small enterprises	24	4,583,895.09	3,359,449.12
048	- Total outstanding dues of creditors other than micro and small enterprises	24	3,758,280.37	6,387,586.94
049	iii) Other financial liabilities	25	794,777.24	2,746,492.35
050	Provisions	26	0.00	0.00
051	Deferred Tax Liabilities (net)	27	0.00	0.00
052	Other non-current liabilities	28	0.00	0.00
053			0.00	0.00
054	**Total non-current liabilities**		9,134,952.70	13,293,628.41
055			0.00	0.00
056	**Current Liabilities**		0.00	0.00
057	**Financial liabilities**		0.00	0.00
058	i) Borrowings	29	0.00	0.00
059	**ii) Trade Payables**		0.00	0.00
060	- Total outstanding dues of micro and small enterprises	30	126,454,147.19	140,415,265.51
061	- Total outstanding dues of creditors other than micro and small enterprises	30	3,111,241,777.42	5,411,591,369.32
062	iii) Other financial liabilities	31	3,197,245,192.63	2,258,482,308.96
063	Other current liabilities	32	136,137,196.70	52,075,550.10
064	Provisions	33	23,948,068.00	23,100,354.06
065	Current tax liabilities (net)	34	0.00	0.00
066			0.00	0.00
067	**Sub Total**		6,594,027,578.74	7,885,626,748.36
068			0.00	0.00
069	Deferred Revenue	35	146,918,500.00	171,191,003.00
070	Regulatory deferral account credit balances	36	0.00	0.00
071	Inter Unit Accounts		-41,339,346,826.02	-79,002,327,607.78
072			0.00	0.00
073	**TOTAL EQUITY AND LIABILITIES**		51,534,379,495.55	54,390,375,756.47
074	Significant Accounting Policies as per Note 1	1	0.00	0.00
075			0.00	0.00
076	The accompanying notes 1 to 44 form an integral part of these financial statements.		0.00	0.00
077			0.00	0.00
078			0.00	0.00

(Auditor Initial & Stamp)

(Head of Finance)

(Head of Unit)

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NATIONAL CAPITAL POWER STATION

STATEMENT OF PROFIT AND LOSS

(Amount in ₹)

	For the Year ended	Note	31.03.2020	31.03.2019
001	**Revenue**		**0.00**	**0.00**
002	Revenue from operations	37	44,337,347,906.47	51,762,602,175.03
003	Other income	38	290,166,039.02	675,391,914.31
005	**Total Revenue**		**44,627,303,345.28**	**52,438,432,089.34**
007	**Expenses**		**0.00**	**0.00**
008	Fuel including cost of captive coal	39A	26,195,284,334.24	35,296,362,675.39
009	Employee benefits expense	39	2,271,826,605.51	2,300,548,328.43
010	Electricity Purchases		0.00	0.00
011	Finance costs	40	929,863,926.44	1,160,201,088.03
012	Depreciation, amortisation and impairment expense	41	3,241,438,841.93	2,871,214,370.67
013			0.00	0.00
014	Other expenses	42	1,942,553,363.85	1,787,884,294.17
015	CC expenses charge to revenue		995,429,213.09	531,525,080.25
016	Less: Unit expenses transferred to CC		0.00	0.00
017	**Total expenses**		**37,547,096,429.08**	**42,952,326,791.84**
020	**Profit before exceptional items & tax**		**7,480,207,916.20**	**9,485,905,342.50**
021	Exceptional items		0.00	0.00
024	**Profit before tax**		**7,480,207,916.20**	**9,485,905,342.50**
027	**Tax expense:**		**0.00**	**0.00**
028	Current tax		0.00	0.00
029	Deferred tax		0.00	0.00
030			0.00	0.00
031	**Total Tax expense**		**0.00**	**0.00**
032	**Profit for the period before regulatory deferral account balances**		**7,480,207,916.20**	**9,485,905,342.50**
033	**Movement in regulatory deferral account balances**		**0.00**	**0.00**
034	Regulatory deferral account - Deferral		0.00	0.00
035	Others		14,436,760.48	71,726,934.43
036	Tax impact on Regulatory deferral account balances		0.00	0.00
037	**Movement in Regulatory deferral account balances (Net of Tax)**		**14,436,760.48**	**71,726,934.48**
038	**Profit for the period/ year**		**7,495,644,679.71**	**9,557,631,277.48**
039	**Other comprehensive income**		**0.00**	**0.00**
040	**(A) Items that will not be reclassified to profit or loss**		**0.00**	**0.00**
041	- Net gain/(loss) on fair value of equity instruments through other comprehensive income		0.00	0.00
042	Income tax on above that will not be reclassified to profit or loss		0.00	0.00
043	- Net actuarial gains/(losses) on defined benefit plans		-79,626,020.73	-2,313,039.00
044	Income tax on above that will not be reclassified to profit or loss		0.00	0.00
045			0.00	0.00
046	**Other comprehensive income for the year, net of income tax**		**-79,626,020.73**	**-2,313,039.00**
060			0.00	0.00
061	**Total Comprehensive income for the year**		**7,416,018,658.98**	**9,555,318,238.48**
066			0.00	

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NATIONAL CAPITAL POWER STATION

STATEMENT OF PROFIT AND LOSS

(Amount in ?)

	For the Year ended	Note	31.03.2020	31.03.2019
	reclassified to profit or loss			
049			0.00	0.00
049	Other comprehensive income for the year, net of income tax		-75,628,032.73	-2,813,039.03
050			0.00	0.00
051	Total Comprehensive Income for the year		7,434,815,848.98	8,552,218,233.88
065			0.00	0.00
066	Earnings per equity share:		0.00	0.00
067	Basic & Diluted		0.00	0.00
068	Significant Accounting Policies		0.00	0.00
069	Expenditure during construction period (Net)/Dev. of coal mines (net) 43 /43A		0.00	0.00
070	The accompanying notes 1 to 44 form an integral part of these financial statements.		0.00	0.00

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(Head of Finance)

(Head of Unit)

NTPC Limited

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Note forming part of Balance Sheet
Note 2 : Property, Plant And Equipment
Business Area :1011

(Amount in Rupees)

Asset Class	Opening Gross Block As At 01.04.2019	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2020	Opening Depreciation As At 01.04.2019	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2020	Net Block As At 31.03.2020	Net Block As At 31.03.2019
1 TANGIBLE ASSETS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 Land : (including development expenses)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3 Freehold	1726630466.23	0.00	7173497.48	1733803963.71	0.00	0.00	0.00	0.00	1733803963.71	1726630466.23
4 Right of Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5 Submergence	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 CBA Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7 Roads,bridges, culverts & helipads	361406320.77	0.00	37426.00	361443746.77	69628304.00	14657966.24	0.00	84487270.24	276956476.53	291570116.77
8 Building :	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 Freehold	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10 Main plant	3155929131.51	4672916.13	(4672916.13)	3155929131.51	524740986.58	121017394.93	(156075.60)	645641305.95	2510287745.56	2631189064.93
11 Others	780140322.00	0.00	6587298.85	787728160.93	170906364.16	29239918.31	156075.60	200390260.92	586981811.01	609449835.92
12 Right of Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13 Temporary erection	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14 Water Supply, drainage & sewerage system	106999042.24	47623971.48	0.00	154623013.72	29471630.68	7555747.77	0.00	37027378.65	117492635.07	77224411.30
15 Hydraulic works, barrages, dams, tunnels and power channel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16 MGR track and signalling system	93159497.30	0.00	0.00	93159497.30	20519652.78	4520420.40	0.00	24039073.18	69120424.12	72639834.52
17 Railway siding	7067976[illegible]2.45	0.00	0.00	7067976[illegible]2.45	1302[illegible]2.47	42564026.91	0.00	273233329.38	436564473.03	478058499.94
18 Earth dam reservoir	400144447.04	0.00	0.00	400144447.04	54679702.57	21127926.60	0.00	75807629.17	324437117.87	346464744.47
19 Plant and machinery(including associated civil works) Owned Asset	3695006938.15	118671997.87	(4401165.31)	3781305260.73	1686113876.07	301679967.82	(431297751.00)	1556660723.01	2454645075.18	2599947019.08

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Note forming part of Balance Sheet
Note 2 : Property, Plant And Equipment
Business Area :1011

(Amount in Rupees)

Asset Class	Opening Gross Block As At 01.04.2019	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2020	Opening Depreciation As At 01.04.2019	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2020	Net Block As At 31.03.2020	Net Block As At 31.03.2019
20 Plant and machinery(including associated civil works) Right of use Asset	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21 Furniture and fixtures	19306413.84	515922.00	1465848.95	20072084.63	5010820.89	1992703.49	164057.17	7042470.39	13029614.24	14295592.95
22 Assets under 5 Yrs Scheme	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23 Vehicles - Owned	1261421.05	0.00	(261373.15)	1000106.48	787981.79	24819.73	(193276.65)	619324.88	380783.60	473439.26
24 Vehicles - Leased	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25 Office equipment	35423895.75	1855493.43	(1294905.61)	35984483.57	3737403.54	1513875.75	(476329.90)	5034674.00	30949809.57	31686492.21
26 EDP, WP machines and allied equipment	6938373.25	2256254.63	(642418.04)	8531209.84	5460305.23	807422.15	(626781.71)	5640945.67	2890264.17	1478068.02
27 Construction equipments	12277878.72	1148737.43	0.00	14095945.15	5449920.39	1004388.18	0.00	6454307.57	7641637.58	6828958.33
28 Electrical installations	19459418.23	1513662.00	(4798141.41)	20013828.72	4067843.82	2028439.83	(1391421.07)	6504864.08	13508964.64	15391574.41
29 Communication equipments	2003983.36	692211.00	0.00	2696194.36	1410306.52	218627.54	0.00	1628934.06	1067260.30	593677.84
30 Hospital equipments	1791370.75	356653.92	(863109.47)	1284915.20	610395.84	103102.90	(234251.17)	479247.57	805667.63	1181974.91
31 Laboratory and workshop equipments	6650918.14	3391018.00	252.24	10041686.38	1065254.54	408398.44	0.00	1473652.98	8568033.40	5585663.60
32 Capital expenditure on assets not owned by the Company	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33 Assets of Government	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34 Less:Grants from Government	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Note forming part of Balance Sheet
Note 2 : Property, Plant And Equipment
Business Area :1011

(Amount in Rupees)

Asset Class	Opening Gross Block As At 01.04.2019	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2020	Opening Depreciation As At 01.04.2019	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2020	Net Block As At 31.03.2020	Net Block As At 31.03.2019
35 Less: Recoverable from GOI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36 Assets for ash utilisation	130091933.00	29292797.39	0.00	159294730.39	0.00	0.00	0.00	0.00	159294730.39	130091933.00
37 (Less) -Adjusted from fly ash utilisation reserve fund	130091933.00	29292797.39	0.00	159294730.39	0.00	0.00	0.00	0.00	159294730.39	130091933.00
38 Site Restoration Cost	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39 Mining Properties	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand Total (Tangible)	44721746369.23	1309953196.06	(4598587.68)	45985131777.62	12025593938.23	2353676196.92	(439834723.35)	14039937431.20	31044175346.42	32696352430.97
Grand Total Prev Year (Tangible)	42278747213.93	2091499673.54	35649281.79	44721746369.23	9958633943.46	2000332253.93	(93372239.59)	12025593938.23	32696352430.97	34019113270.46

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Note forming part of Balance Sheet
Note 2 : Property, Plant And Equipment
Business Area :1011

(Amount in Rupees)

Details of Adjustments of Gross Block and Depreciation/Amortization				
Particulars	**Gross Block**		**Depreciation/Amortization**	
	Tangible As At: 31.03.2020	**Tangible As At: 31.03.2019**	**Tangible As At: 31.03.2020**	**Tangible As At: 31.03.2019**
Disposal of assets	(4345202.09)	(3986946.92)	(4345202.09)	(3656134.18)
Retirement of assets	(479955026.29)	(133852005.38)	(432886250.32)	(22793722.72)
Cost adjustments	44044751.2.52	177361673.52	0.00	0.00
Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Depreciation on construction equipment capitalised as EDC	0.00	0.00	0.00	0.00
Prior Period Depreciation due to Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Special Depreciation (As per New Policy)	0.00	0.00	0.00	0.00
Transfer in /out because of Inter Unit transfers	(3033072.80)	(3651439.49)	(2403251.54)	(7122381.68)
Others	0.00	0.00	0.00	0.00
TOTAL	**(46885787.66)**	**35849281.73**	**(439634703.95)**	**(33572238.58)**

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Note forming part of Balance Sheet
Note 3: Capital-Work-in-Progress
Business Area: NATIONAL CAPITAL POWER STATION

(Amount in Rupees)

Sl No	Asset Class	As At 01.04.2019	Addition	Deduction/ Adjustment	Capitalized	As At 31.03.2020
	1	2	3	4	5	6
1	CAPITAL WORK-IN-PROGRESS					
2	Development of land					
3	Roads, bridges, culverts & helipads	15746841.07	2053019.63	(2048012.85)	16052347.76	
4	Piling and foundation					
5	Buildings					
6	Main plant	7543127.00		(7543127.00)		
7	Others	1355156.63	921907.87	(2276767.72)		
8	Temporary erection					
9	Water supply, drainage and sewerage system	1673646.15	3403344.56	(1312173.25)	4762817.46	
10	Hydraulic works, barrages, dams, tunnels and power channel					
11	MGR track and signalling system					
12	Railway siding					
13	Earth dam reservoir		3721196.00			3721196.00
14	Plant and equipment	27005491.07	4604599806.79	(625887147.07)	856322507.30	5924273323.49
15	Furniture and fixtures	1002962.21	3002890.00	(5478810.78)	5877136.00	730600.03
16	Vehicles					
17	Office equipment	691480.00		(2491275.00)	2220805.00	
18	EDP/WP machines & sub-ch equipment					
19	Construction equipments					
20	Electrical installations					
21	Communication equipment					
22	Hospital equipments					
23	Laboratory and workshop implements					
24	Assets under 90% Scheme of the GOI					
25	Capital expenditure on assets not owned by the company					
26	Expenditure towards development of coal mines					
27	Survey Investigation Consultancy & Supervision Chs					
28	Difference in exchange on foreign currency loans					

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Note forming part of Balance Sheet
Note 3: Capital-Work-in-Progress
Business Area: NATIONAL CAPITAL POWER STATION

(Amount in Rupees)

Sl No	Asset Class	As At 01.04.2019	Addition	Deduction/ Adjustment	Capitalized	As At 31.03.2020
	1	2	3	4	5	6
29	Expenditure towards diversion of forest land					
30	Pre-commissioning expenses (net)					
31	Exp/Rev/Allocation ex ab-initio Project					
32	Expenditure During Construction Period (net)*		103466522.44	(4316185.00)		99150336.44
33	LESS: Allocated to related works		99150336.44			99150336.44
34	LESS: Provision for Unrecoverable works					
35	Construction stores (At Cost)					
36	Steel	11154817.11		(1642496.98)		9512340.13
37	Cement	5281777.12		(3029811.23)		2251965.89
38	Others	426716460.38	38179954.72	(124075348.12)		339821167.01
39	Sub-total	442152954.59	38179954.72	(128747626.33)		351579321.03
40	LESS: Provision for shortages					
41	Sub-total	442152954.59	38179954.72	(128747626.33)		351579321.03
42	Total CWIP	3295217386.45	4655517785.65	(782004544.03)	922295967.54	6250354640.55
43						
44						
45	PREVIOUS YEAR TOTAL	1405296291.67	2262259172.05	(146894318.25)	412306419.94	3295217386.45

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Note forming part of Balance Sheet
Note-4 Non Current Assets- Intangible Assets
Business Area :1011

(Amount in Rupees)

Asset Class	Opening Gross Block As At 01.04.2019	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2020	Opening Depreciation As At 01.04.2019	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2020	Net Block As At 31.03.2020	Net Block As At 31.03.2019
INTANGIBLE ASSETS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1 Right of Use- Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 Others	1571999852.66	0.00	0.00	1571999852.66	398991722.28	99954706.70	0.00	498946428.98	1073004423.68	1572999130.38
3 Software	1695972.83	0.00	0.00	1695972.83	1655292.15	95840.68	0.00	1751132.83	44840.00	120680.68
Grand Total (Intangible)	1573695825.49	0.00	0.00	1573695825.49	400557014.43	99950547.38	0.00	500507561.81	1073049263.68	1572999811.06
Grand Total Prev Year (Intangible)	1573695825.49	94980.00	2094980.00	1573695825.49	300328678.45	100228335.98	0.00	400557014.43	1572999811.06	1573530167.04

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Note forming part of Balance Sheet
Note-4 Non Current Assets- Intangible Assets
Business Area :1011

(Amount in Rupees)

Details of Adjustments of Gross Block and Depreciation/Amortization				
Particulars	Gross Block		Depreciation/Amortization	
	InTangible As At: 31.03.2020	InTangible As At: 31.03.2019	InTangible As At: 31.03.2020	InTangible As At: 31.03.2019
Disposal of assets	0.00	0.00	0.00	0.00
Retirement of assets	0.00	0.00	0.00	0.00
Cost adjustments	0.00	2608000.00	0.00	0.00
Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Depreciation on construction equipment capitalised as EDC	0.00	0.00	0.00	0.00
Prior Period Depreciation due to Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Special Depreciation (As per New Policy)	0.00	0.00	0.00	0.00
Transfer in /out because of Inter Unit transfers	0.00	0.00	0.00	0.00
Others	0.00	0.00	0.00	0.00
TOTAL	**0.00**	**2608000.00**	**0.00**	**0.00**

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Note forming part of Balance Sheet

(Amount in Rupees)

Note 5: Intangible Assets under Development

Business Area: NATIONAL CAPITAL POWER STATION

Sl No	Asset Class	As At 01.04.2019	Addition	Deduction/ Adjustment	Capitalized	As At 31.03.2020
	1	2	3	4	5	6
1	INTANGIBLE ASSETS UNDER DEVELOPMENT					
2	Software					
3	Right to use-Others					
4	Exploration and Evaluation Expenditure - Coal Mine					
5	Exploratory wells-in-progress					
6	Less: Provision for exploratory wells-in-progress					
7	Total					
8	PREVIOUS YEAR TOTAL-I					

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NATIONAL CAPITAL POWER STATION

NOTE NO. 6 TO THE FS-NCA-INVESTMENTS IN SUBSIDIARIES & JOINT VENTURES

(Amount in ₹)

	As at	No. of shares	Face value	31.03.2020	31.03.2019
001	**NON CURRENT INVESTMENTS-Investments in subsidiaries and joint ventures**			0.00	0.00
012	**Equity Instruments - Unquoted-fully paid up unless otherwise stated, at cost)**			0.00	0.00
013	**Subsidiary Companies**			0.00	0.00
014	Patratu Vidyut Utpadan Nigam Ltd.			0.00	0.00
015	NTPC Electric Supply Company Ltd.			0.00	0.00
016	NTPC Vidyut Vyapar Nigam Ltd.			0.00	0.00
017	Aldanagar Power Generating Company Ltd.			0.00	0.00
018	Kanti Bijlee Utpadan Nigam Ltd.			0.00	0.00
019	Bhartiya Rail Bijlee Company Ltd.			0.00	0.00
020	NTPC Mining Ltd.(NML)			0.00	0.00
021	THDC India Ltd.			0.00	0.00
022	NEEPCO LTD.			0.00	0.00
023				0.00	0.00
024				0.00	0.00
025				0.00	0.00
026				0.00	0.00
027				0.00	0.00
028				0.00	0.00
029				0.00	0.00
030	**Sub Total**			**0.00**	**0.00**
050	**Joint Venture Companies**			**0.00**	**0.00**
056	Utility Powertech Ltd.			0.00	0.00
057	NTPC GE Power Services Pvt.Ltd.			0.00	0.00
058	NTPC-SAIL Power Company Ltd.			0.00	0.00
059	NTPC-Tamil Nadu Energy Company Ltd.			0.00	0.00
060	Ratnagiri Gas & Power Pvt. Limited (RGPPL)			0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 6 TO THE FS-NCA-INVESTMENTS IN SUBSIDIARIES & JOINT VENTURES

(Amount in ₹)

	As at	No. of shares	Face value	31.03.2020	31.03.2019
061	Aravali Power Company Private Ltd.			0.00	0.00
062				0.00	0.00
063	NTPC BHEL Power Projects Private Ltd.			0.00	0.00
064	Maa Urja Nigam Private Limited			0.00	0.00
065	BF-NTPC Energy Systems Ltd.			0.00	0.00
066				0.00	0.00
067	Nathpa Jhakri Power Generating Company Ltd.			0.00	0.00
068	Transformer and Electrical Kerala Ltd.			0.00	0.00
069	National High Power Test Laboratory Private Ltd.			0.00	0.00
070				0.00	0.00
071	CIL NTPC Urja Private Ltd.			0.00	0.00
072	Anushakti Vidyut Nigam Ltd.			0.00	0.00
073	Energy Efficiency Services Ltd.			0.00	0.00
074				0.00	0.00
075	Trincomalee Power Company Ltd.			0.00	0.00
076	Bangladesh-India Friendship Power Company (Pvt) Ltd.			0.00	0.00
077	Hindustan Urvarak & Rasayan Limited			0.00	0.00
078	Konkar Ltd Pvt. Ltd.			0.00	0.00
079				0.00	0.00
001	**Sub Total**			**0.00**	**0.00**
100	Aggregate amount of impairment in the value of investments			0.00	0.00
110				0.00	0.00
115				0.00	0.00
134	Total			0.00	0.00
135	Details of Investments			[illegible]	0.00
136	Aggregate amount of Unquoted Investments			[illegible]	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 6 TO THE FS-NCA-INVESTMENTS IN SUBSIDIARIES & JOINT VENTURES

(Amount in ₹)

	As at	No. of shares	Face value	31.03.2020	31.03.2019
141				0.00	0.00
142				0.00	0.00
143				0.00	0.00
144				0.00	0.00
145				0.00	0.00
153	Valuation of Investments as per Note 1			0.00	0.00
154				0.00	0.00
202				0.00	0.00
203				0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 7 TO THE FS-NCA-INVESTMENTS

(Amount in ₹)

	As at	No. of shares	Face value	31.03.2020	31.03.2019
001	Non-current financial assets (investments)			0.00	0.00
005	**Long Term - Trade**			**0.00**	**0.00**
007	**Equity Instruments (fully paid up unless otherwise stated)**			**0.00**	**0.00**
008	**Quoted**			**0.00**	**0.00**
009	**Joint Venture Companies**			**0.00**	**0.00**
010	PTC India Ltd.			0.00	0.00
070	International Coal Ventures Private Ltd.			0.00	0.00
079	BF-NTPC Energy Systems Ltd.			0.00	0.00
080				0.00	0.00
110	Cooperative Societies			0.00	0.00
111	**Sub Total**			**0.00**	**0.00**
112	Aggregate amount of impairment in the value of investments			0.00	0.00
113	**Total**			**0.00**	**0.00**
130				0.00	0.00
146	NTPC Employees Consumers and Thrift Co-operative Society Ltd. Korba			0.00	0.00
147	NTPC Employees Consumers and Thrift Cooperative Society Ltd. RSTPP			0.00	0.00
148	NTPC Employees Consumers Cooperative Society Ltd. Farakka			0.00	0.00
149	NTPC Employees Consumers Cooperative Society Ltd. Vindhyachal			0.00	0.00
150	NTPC Employees Consumers Cooperative Society Ltd. Anta			0.00	0.00
151	NTPC Employees Consumers Cooperative Society Ltd. Kawas			0.00	0.00
152	NTPC Employees Consumers Cooperative Society Ltd. Kakrha			0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 8 TO THE FS-NCA-TRADE RECEIVABLES

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	Non-current financial assets - Trade receivables	0.00	0.00
002	Unsecured, considered good	0.00	0.00
003	With significant increase in Credit Risk	0.00	0.00
004	Credit impaired	0.00	0.00
005		0.00	0.00
006	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 9 TO THE FS-NCA-LOANS

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	**Loans (Non Current)**	**0.00**	**0.00**
004	Related Parties	0.00	0.00
005	Secured	0.00	0.00
006	Un-Secured	0.00	0.00
007	With significant increase in Credit Risk	0.00	0.00
008	Credit impaired	0.00	0.00
009		0.00	0.00
010	Employees(including accrued interest)	0.00	0.00
011	Secured	166,524,678.98	154,035,615.90
012	Unsecured	112,481,930.09	77,581,607.26
013	With significant increase in Credit Risk	0.00	0.00
014	Credit impaired	0.00	0.00
015	Less : Employee Loans Discounting	0.00	0.00
016	Secured	47,492,789.94	47,169,874.96
017	Unsecured	23,327,240.63	13,794,080.24
018	Loan to State Government in settlement of dues from customers (Unsecured)	0.00	0.00
019	Others	0.00	0.00
020	Secured	0.00	0.00
021	Unsecured	0.00	0.00
022	With significant increase in Credit Risk	0.00	0.00
023	Credit impaired	0.00	0.00
024	Less. Allowance for credit impaired loans	0.00	0.00
025	**Sub Total**	**208,166,578.28**	**170,653,267.96**
026		0.00	0.00
027	**Total**	**208,166,578.28**	**170,653,267.96**
028		0.00	0.00
029		0.00	0.00
030	**Due from Directors and Officers of the Company**	**0.00**	**0.00**
031	Directors	0.00	0.00
032	Officers	0.00	0.00
033		**0.00**	**0.00**
034	**Loans to related parties include:**	**0.00**	**0.00**
035	i)Key management personel	0.00	0.00
036	ii)Subsidiary companies	0.00	0.00
037	iii)Joint Venture companies	0.00	0.00
038	iv)Others	0.00	0.00
039		**0.00**	**0.00**
054	Other loans represent loans given to	0.00	0.00
055	a) APHC	0.00	0.00
060		0.00	0.00
061	RPD	0.00	0.00
062	i)Key management personel	0.00	0.00
063	ii)Subsidiary companies	0.00	0.00
064	iii)Joint Venture companies	0.00	0.00
065	iv)Others	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 9 TO THE FS-NCA-LOANS

(Amount in ₹)

	As at	31.03.2020	31.03.2019
068	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 10 TO THE FS-NCA-OTHER FINANCIAL ASSETS

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	**Other Financial Assets (non current)**	**0.00**	**0.00**
002		0.00	0.00
003	**Share application money pending allotment in (Subsidiary Companies) :**	**0.00**	**0.00**
004	NTPC Electric Supply Company Ltd.	0.00	0.00
005	NTPC Vidyut Vyapar Nigam Ltd.	0.00	0.00
006	Nabinagar Power Generating Company Ltd.	0.00	0.00
007	Kanti Bijlee Utpadan Nigam Ltd.	0.00	0.00
008	Bhartiya Rail Bijlee Company Ltd.	0.00	0.00
009	Patratu Vidyut Utpadan Nigam Ltd.	0.00	0.00
010	NTPC Mining Limited	0.00	0.00
011	THDC Ltd.	0.00	0.00
012	NEEPCO Ltd.	0.00	0.00
013		0.00	0.00
014	**Total**	**0.00**	**0.00**
015	**Share application money pending allotment (Joint Venture)**	**0.00**	**0.00**
016	Utility Powertech Ltd.	0.00	0.00
017	NTPC GE Power Services Pvt.Ltd.	0.00	0.00
018	NTPC-SAIL Power Company Ltd.	0.00	0.00
019	NTPC-Tamil Nadu Energy Company Ltd.	0.00	0.00
020	Ratnagiri Gas & Power Private Ltd.	0.00	0.00
021	Aravali Power Company Private Ltd.	0.00	0.00
022		0.00	0.00
023	NTPC BHEL Power Projects Private Ltd.	0.00	0.00
024	Meja Urja Nigam Private Limited	0.00	0.00
025	BF-NTPC Energy Systems Ltd.	0.00	0.00
026	Anushakti Vidhyut Nigam Ltd.	0.00	0.00
027	Nabinagar Power Generating Company Ltd.	0.00	0.00
028	Energy Efficiency Services Ltd.	0.00	0.00
029	National High Power Test Labortory Private Ltd.	0.00	0.00
030		0.00	0.00
031	CIL NTPC Urja Private Ltd.	0.00	0.00
032	Trincomalee Power Company Ltd.	0.00	0.00
033	Hindustan Urvarak & Rasayan Limited	0.00	0.00
034	Bangladesh-India Friendship Power Company Private Ltd.	0.00	0.00
035	**Sub Total**	**0.00**	**0.00**
036		0.00	0.00
037	Claims Recoverable	0.00	0.00
038	Finance Lease Receivable	0.00	0.00
039	Mine Closure Deposit	0.00	0.00
040		0.00	0.00
041	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 11 TO THE FS-NCA-OTHER NON-CURRENT ASSETS

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	**Other Non-current Assets**	**0.00**	**0.00**
002		**0.00**	**0.00**
003	**CAPITAL ADVANCES**	**0.00**	**0.00**
004	Secured	0.00	0.00
005	Unsecured	0.00	0.00
006	Covered by Bank Guarantee	46,873,389.93	210,658,508.81
007	Others	111,473,135.57	64,561,794.05
008	Considered doubtful	18,594,445.00	18,594,445.00
009	Less: Allowance for bad & doubtful advances	18,594,445.00	18,594,445.00
010	**Sub-Total**	**159,346,525.50**	**275,220,302.86**
011		0.00	0.00
012	Advances other than capital advances	0.00	0.00
013	Security deposits	0.00	0.00
019	Advances to Related parties	0.00	0.00
022	**Advances to Contractors & Suppliers**	**0.00**	**0.00**
023	Secured	0.00	0.00
024	Unsecured	0.00	0.00
025	Considered Doubtful	0.00	0.00
026	Less: Allowance for bad & doubtful advances	0.00	0.00
027	**Sub Total**	**0.00**	**0.00**
039	Advance tax & tax deducted at source	3,039,981.50	1,927,429.10
040	Less - Provision for current tax	0.00	0.00
041		0.00	0.00
042	**Sub Total**	**3,039,981.50**	**1,927,429.10**
043	Deferred Payroll Expenses (Secured)	42,070,822.03	42,432,346.81
044	Deferred Payroll Expenses (Unsecured)	19,769,899.10	10,657,361.58
045	**Sub Total**	**61,840,721.13**	**53,089,708.39**
046	Deferred Foreign Currency Fluctuation Asset	1,000.00	35,865,000.00
048	**Total**	**223,228,228.43**	**366,102,440.35**
049		0.00	0.00
050		0.00	0.00
061	Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies	0.00	0.00
063		0.00	0.00
064	NTPC GE Power Services Pvt.Ltd.	0.00	0.00
065		0.00	0.00
066	Ratnagiri Gas & Power Private Ltd.	0.00	0.00
067	Aravali Power Company Private Ltd.	0.00	0.00
068	NTPC-SCCL Global Ventures Private Ltd.	0.00	0.00
069	NTPC BHEL Power Projects Private Ltd.	0.00	0.00
070	Meja Urja Nigam Private Limited	0.00	0.00
071	Nabinagar Power Generating Company Ltd.	0.00	0.00
072	National High Power Test Laboratory Private Ltd.	0.00	0.00
074	CIL NTPC Urja Private Ltd.	0.00	0.00
076		0.00	0.00
077	**Related Party (Adv)**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 11 TO THE FS-NCA-OTHER NON-CURRENT ASSETS

(Amount in ₹)

	As at	31.03.2020	31.03.2019
078	Key Management personel	0.00	0.00
079	Subsidiary companies	0.00	0.00
080	Joint Venture companies	0.00	0.00
081	Contractors	0.00	0.00
082	Others	0.00	0.00
084		0.00	0.00
085	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 12 TO THE FS-CA-INVENTORIES

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	**INVENTORIES**	**0.00**	**0.00**
002		**0.00**	**0.00**
003	Coal	5,257,284,514.07	3,558,642,146.80
004	Fuel oil	361,938,902.83	331,221,537.49
005	Naphtha	0.00	0.00
006	Stores and spares	1,349,309,221.77	1,357,030,160.17
007	Chemicals & consumables	102,382,585.31	93,397,868.78
008	Loose tools	6,026,768.72	5,671,227.37
009	Steel Scrap	2,266,913.48	2,134,757.78
010	Others*	372,478,768.79	354,390,234.87
011	**Sub Total**	**7,451,687,674.77**	**5,702,487,933.24**
012	Less: Provision for shortages	147,249,894.68	117,113,950.60
013	Less: Provision for obsolete/ unservicable/dimunition in value of surplus inventory	59,286,878.99	72,238,223.35
014		0.00	0.00
015	**Total**	**7,245,150,901.09**	**5,513,135,759.29**
016	**Inventories include material in transit**	**0.00**	**0.00**
017	Coal	313,273,179.32	303,340,683.29
018	Fuel oil	0.00	0.00
019	Naphtha	0.00	0.00
020	Stores and spares	2,714,930.16	11,464,815.44
021	Chemicals & consumables	1,734,671.60	1,712,371.36
022	Loose tools	0.00	0.00
023	Others	1,317,900.11	111,504.07
024		**0.00**	**0.00**
025	Inventory items other than steel scrap have been valued considering Note 1. Steel scrap has been valued at estimated realisable value.	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 13 TO THE FS-CA-INVESTMENTS

(Amount in ₹)

	As at	No. of shares	Face value	31.03.2020	31.03.2019
001	CURRENT INVESTMENTS			0.00	0.00
002	(Valuation as per Note 1)			0.00	0.00
003				0.00	0.00
033	Investment in Mutual Funds (Details as under)			0.00	0.00
034	SBI Magnum Insta Cash Fund-DDR			0.00	0.00
035	SBI Premier Liquid Fund Super IP-DDR			0.00	0.00
036	SBI-SHF Ultra Short Term Fund-IP-DDR			0.00	0.00
037	UTI Money Market- IP-Direct-Growth			0.00	0.00
038	ICICI-Liquid plan- Direct-Growth			0.00	0.00
039	Canara Robeco Liquid Fund Super-IP-DDR			0.00	0.00
040	Canara Robeco Treasury Advantage Fund Super IP DDR			0.00	0.00
041	ICICI Liquid Fund-DDR			0.00	0.00
042	SBI Premier Liquid fund Direct DDR (Ash Fund)			0.00	0.00
043	UTI Liquid Cash Plan - IP - DDR (Ash Funds)			0.00	0.00
044	ICICI Liquid Fund - DDR - (Ash Funds)			0.00	0.00
048				0.00	0.00
049	Sub Total			0.00	0.00
051				0.00	0.00
052	Unquoted Investments			0.00	0.00
054				0.00	0.00
055	TOTAL			0.00	0.00
057				0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 14 TO THE FS-CA-TRADE RECEIVABLES

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	**TRADE RECEIVABLES (current)***	**0.00**	**0.00**
002		0.00	0.00
003	Secured,Considered Good	0.00	0.00
004	Unsecured , considered good	15,499,477.53	11,932,480.46
005	With significant increase in Credit Risk	0.00	0.00
006	Credit impaired	0.00	0.00
007	**Sub-Total**	**15,499,477.53**	**11,932,480.46**
008	**Total**	**15,499,477.53**	**11,932,480.46**
009	Less: Allowance for credit impaired receivables	0.00	0.00
010	**Total**	**15,499,477.53**	**11,932,480.46**
011		**0.00**	**0.00**
013	* After adjustment for Unbilled Revenue	0.00	0.00
014	Long-term trade receivables	0.00	0.00
015		0.00	0.00
016		**0.00**	**0.00**

NATIONAL CAPITAL POWER STATION

NOTE NO. 15 TO THE FS-CA-CASH AND CASH EQUIVALENTS

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	**CASH & BANK BALANCES**	**0.00**	**0.00**
002	**Cash & Cash Equivalents**	**0.00**	**0.00**
003	Balances with Banks	271,992.63	2,677,396.27
004	Cheques & Drafts on hand	0.00	1,751,256.00
005	Cash on hand	0.00	0.00
006	Others (stamps in hand)	157,642.00	233,918.00
007	Bank deposits with original maturity upto three months	0.00	0.00
008	Balances with RBI	0.00	0.00
009		0.00	0.00
010	**Total**	**429,634.63**	**4,662,569.27**

NATIONAL CAPITAL POWER STATION

NOTE NO. 16 TO THE FS-CA-BANK BALANCES OTHER THAN CASH AND CASH EQUIVALENTS (Amount in ₹)

	As at	31.03.2020	31.03.2019
001	**Other Bank Balances**	**0.00**	**0.00**
002	Deposits with original maturity of more than three months but not more than twelve months	0.00	0.00
003	Earmarked balances with banks*	0.00	0.00
004	**SubTotal**	**0.00**	**0.00**
005	Interest accrued on deposits	0.00	0.00
006		0.00	0.00
007	**Total**	**0.00**	[redacted]
008		0.00	0.00
009	**Earmarked balances with banks consist of :**	**0.00**	[redacted]
010	Unpaid dividend account balance	0.00	0.00
011	Towards public deposit repayment reserve	0.00	0.00
012	Towards redemption of bonds due for repayment within one year	0.00	0.00
013	Security with Government/other authorities	0.00	0.00
014	Unpaid refund/interest account balance - Tax free bonds/ Bonus Debentures	0.00	0.00
015	Earmarked for RGGVY/DDUGJY/SAUBHAGYA Fund	0.00	0.00
016	Earmarked for Flyash Utilisation Reserve Fund	0.00	0.00
017	Deposits with original maturity upto three months as per court orders	0.00	0.00
018	Payment Security Scheme of MNRE NSM (NTPC)	0.00	0.00
019	Payment Security Scheme of MNRE NSM (NVVN)	0.00	0.00
020	Enforcement Directorate of Solar Plant(NVVN)	0.00	0.00
021	Bank guarantee Fund of MNRE (NVVN)	0.00	0.00
022	Others	0.00	0.00
023		0.00	0.00
024	**Total**	**0.00**	**0.00**
025		0.00	0.00
026	Bank deposits with original maturity of less than three months- other than earmarked	0.00	0.00
027	Bank deposits with original maturity of more than three months but not more than twelve months- other than earmarked	0.00	0.00
028	Earmarked bank balances (current account)	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 17 TO THE FS-CA-LOANS

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	**Current financial assets - Loans**	**0.00**	**0.00**
002	**Loans (current) including interest accrued**	**0.00**	**0.00**
004	**Related Parties**	**0.00**	**0.00**
005	Secured	0.00	0.00
006	Un-Secured	0.00	0.00
007	With significant increase in Credit Risk	0.00	0.00
008	Credit impaired	0.00	0.00
009		**0.00**	**0.00**
010	**Employees**	**0.00**	**0.00**
011	Secured	39,134,434.46	33,539,594.59
012	Unsecured	72,985,852.99	68,801,648.15
013	With significant increase in Credit Risk	0.00	0.00
014	Credit impaired	0.00	0.00
015	Less : Employee Loans Discounting	0.00	0.00
016	**Loan to State Government in settlement of dues from customers (Unsecured)**	**0.00**	**0.00**
017		0.00	0.00
018	**Others**	**0.00**	**0.00**
019	Secured	0.00	0.00
020	Unsecured	0.00	0.00
021	With significant increase in Credit Risk	0.00	0.00
022	Credit impaired	0.00	0.00
023		**0.00**	**0.00**
024	Less: Allowance for credit impaired loans	0.00	0.00
025	**Total (Loans)**	**112,120,287.45**	**102,341,242.74**
026		**0.00**	**0.00**
027	**Due from Directors and Officers of the Company**	**0.00**	**0.00**
028	Directors	0.00	0.00
029	Officers	0.00	0.00
030		**0.00**	**0.00**
031	**Loans to related parties include:**	**0.00**	**0.00**
032	i)Key management personel	0.00	0.00
033	ii)Subsidiary companies	0.00	0.00
034	KBUNL	0.00	0.00
035	PVUNL	0.00	0.00
036	NVVN	0.00	0.00
037	iii)Joint Venture companies	0.00	0.00
038	iv)others	0.00	0.00
039		0.00	0.00
059	RPD	0.00	0.00
060	i)Key management personel	0.00	0.00
061	ii)Subsidiary companies	0.00	0.00
062	iii)Joint Venture companies	0.00	0.00
063	iv)Others	0.00	0.00
064		0.00	0.00
065	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 18 TO THE FS-CA-OTHER FINANCIAL ASSETS

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	**Other Financial Assets (current)**	**0.00**	**0.00**
002		0.00	0.00
003	**ADVANCES**	**0.00**	**0.00**
004		**0.00**	**0.00**
005	**Related Parties**	**0.00**	**0.00**
006	Secured	0.00	0.00
007	Un-Secured	-32,171,892.95	-4,808,620.09
008	Considered doubtful	0.00	0.00
009		**0.00**	**0.00**
010	**Employees**	**0.00**	**0.00**
012	Unsecured	5,271,605.17	3,702,582.42
013	Considered Doubtful	0.00	0.00
014		**0.00**	**0.00**
020	**Others**	**0.00**	**0.00**
021	Secured	0.00	0.00
022	Unsecured	0.00	0.00
023	Considered Doubtful	0.00	0.00
024		**0.00**	**0.00**
025	Less: Allowance for bad & doubtful advances	0.00	0.00
026		**0.00**	**0.00**
033	**Total (Advances)**	**-26,900,287.68**	**-1,106,037.67**
044		**0.00**	**0.00**
045	**Claims Recoverable**	**0.00**	**0.00**
046	Secured	0.00	0.00
047	Unsecured, considered good	2,412,747.00	194,103.00
048	Considered Doubtful	0.00	0.00
049	Less - Allowance for doubtful claims	0.00	0.00
050	Others-Claims Recoverable	0.00	0.00
051		**0.00**	**0.00**
052	Unbilled Revenue	0.00	0.00
053	Hedging cost recoverable from beneficiaries	0.00	0.00
054	Derivative MTM Asset	0.00	0.00
055	Finance Lease Receivable	0.00	0.00
056	Mine Closure Deposit	0.00	0.00
057	Others*	226,754.00	0.00
058	Receivable from MCP Escrow A/c	0.00	0.00
059	**Total**	**-24,260,786.68**	**-911,934.67**
060		0.00	0.00
062	* Other include amount recoverable from contractors and other parties towards hire charges, rent/electricity etc.	0.00	0.00
063		0.00	0.00
067		**0.00**	**0.00**
068	**Advances to related parties include:**	**0.00**	**0.00**
069	i)Key management personel	0.00	0.00
070	ii)Subsidiary companies	0.00	0.00
071	iii)Joint Venture companies	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 18 TO THE FS-CA-OTHER FINANCIAL ASSETS

(Amount in ₹)

	As at	31.03.2020	31.03.2019
072	iv)Contractors	0.00	0.00
073	v)Others	0.00	0.00
074		**0.00**	**0.00**
075	Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies	0.00	0.00
076		**0.00**	**0.00**
077		0.00	0.00
078	NTPC GE Power Services Pvt.Ltd.	0.00	0.00
079	Ratnagiri Gas & Power Private Ltd.	0.00	0.00
080	Aravali Power Company Private Ltd.	0.00	0.00
081	NTPC-SCCL Global Ventures Private Ltd.	0.00	0.00
082	NTPC BHEL Power Projects Private Ltd.	0.00	0.00
083	Meja Urja Nigam Private Limited	0.00	0.00
084	Nabinagar Power Generating Company Ltd.	0.00	0.00
085	National High Power Test Labortory Private Ltd.	0.00	0.00
086	International Coal Ventures Private Ltd.	0.00	0.00
087	CIL NTPC Urja Private Ltd.	0.00	0.00
089	Bangladesh-India Friendship Power Co. Pvt.Ltd.	0.00	0.00
090		**0.00**	**0.00**
091	Related Party (Adv)- Employee	0.00	0.00
092	Related Party (Adv)- Subsidiaries	0.00	0.00
093	Related Party (Adv)- Joint Ventures	-3,825,920.00	0.00
094	Related Party (Adv)- Contractors	0.00	0.00
095	Related Party (Adv)- Others	-28,345,972.85	-4,808,620.09
096	**Total**	**-32,171,892.85**	**-4,808,620.09**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 19 TO THE FS-CA-OTHER CURRENT ASSETS

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	**OTHER CURRENT ASSETS**	**0.00**	**0.00**
002	Security Deposits (Unsecured)	0.00	0.00
003	Deposit with Customs, port trust & others*	18,102,399.00	17,885,851.00
004	**ADVANCES**	**0.00**	**0.00**
005		**0.00**	**0.00**
006	**Related Parties**	**0.00**	**0.00**
007	Secured	0.00	0.00
008	Un-Secured	59,513,783.73	813,475,460.23
009	Considered doubtful	0.00	0.00
010		**0.00**	**0.00**
011	**Employees(including imprest)**	**0.00**	**0.00**
012	Secured	0.00	0.00
013	Unsecured	1,142,843.12	10,499,337.57
014	Considered Doubtful	0.00	0.00
015		**0.00**	**0.00**
016	**Contractors & Suppliers**	**0.00**	**0.00**
017	Secured	0.00	0.00
018	Unsecured	115,334,127.45	179,237,135.75
019	Considered Doubtful	0.00	10,710.00
020		0.00	0.00
021	**Others****	**0.00**	**0.00**
022	Secured	0.00	0.00
023	Unsecured	6,270,323.00	500,000.00
024	Considered Doubtful	0.00	0.00
025		**0.00**	**0.00**
026	Less: Allowance for bad & doubtful advances	49,706.00	10,710.00
027	Deferred Payroll Expenses (Secured)	6,137,120.40	6,206,823.92
028	Deferred Payroll Expenses (Unsecured)	5,555,962.74	6,033,718.48
029	**Sub-total**	**11,893,083.14**	**12,240,642.40**
030	**Interest accrued on :**	**0.00**	**0.00**
031	Advances to contractors	0.00	0.00
032		**0.00**	**0.00**
033	**Claims Recoverable**	**0.00**	**0.00**
034	Secured	0.00	0.00
035	Unsecured, considered good	4,424,396,388.95	9,221,235,290.17
036	Considered Doubtful	0.00	9,846,093.00
037	Less:- Allowance for doubtful claims	0.00	9,846,093.00
038		**0.00**	**0.00**
039	Deferred premium on forward exchange contract/ Option Assets	0.00	0.00
041	Assets Held for Disposal	2,065,443.40	2,097,567.50
042	Others	4,299,072.77	1,458,593.70
043		0.00	0.00
044	**Total (Other Current Assets)**	**4,542,767,738.56**	**10,258,629,878.32**
045	**Include Prepaid Expenses	6,270,323.00	[illegible]
046	*Includes sales tax/Entry tax/VAT deposited under protest with Sales Tax Authorities	0.00	[illegible]

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NATIONAL CAPITAL POWER STATION

NOTE NO. 19 TO THE FS-CA-OTHER CURRENT ASSETS

(Amount in ₹)

	As at	31.03.2020	31.03.2019
047	*Includes deposited with courts	0.00	0.00
048	*Includes deposited with LIC for annuity payments	0.00	0.00
049	* Includes deposits with WRD / against BG in r/o finance lease	0.00	0.00
050	Other include amount recoverable from contractors and other parties towards hire charges, rent/electricity etc.	0.00	0.00
052	**Advances to related parties include:**	**0.00**	**0.00**
053	i)Key management personel	0.00	0.00
054	ii)Subsidiary companies	0.00	0.00
055	iii)Joint Venture companies	0.00	0.00
056	Contractors	0.00	0.00
057	Others	0.00	0.00
058		0.00	0.00
059	Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies	0.00	0.00
060		**0.00**	**0.00**
061		0.00	0.00
062	Related Party (Adv)- Employee	0.00	0.00
063	Related Party (Adv)- Subsidiaries	0.00	0.00
064	Related Party (Adv)- Joint Venture	0.00	0.00
065	Related Party (Adv)- Contractors	59,147,467.73	813,047,476.11
066	Related Party (Adv)- Others	366,316.00	427,984.12
067	**Total**	**59,513,783.73**	**813,475,460.23**
068		0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 20 TO THE FS--REGULATORY DEFERRAL ACCOUNT DEBIT BALANCES

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	On account of Exchange Differences	9,651,697.74	-4,785,062.74
002	On account of employee benefit exp	404,045,489.00	404,045,489.00
003	Regulatory deferred account - deferred	0.00	0.00
004	Deferred asset for ash transportation	0.00	0.00
005		0.00	0.00
006	**Total**	**413,697,186.74**	**399,260,426.26**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 21 TO THE FS-EQUITY-EQUITY SHARE CAPITAL

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	**SHARE CAPITAL**	**0.00**	**0.00**
002	**Equity Share Capital**	**0.00**	**0.00**
003	**Authorised**	**0.00**	**0.00**
004	10,000,000,000 equity shares of Rs 10/- each (Previous year 10,000,000,000 eq shares of Rs.10/- each)	0.00	0.00
005	**Issued,Subscribed and fully Paid-up**	**0.00**	**0.00**
006	9,894,557,280 equity shares of Rs.10/- (Pv. Year 9,894,557,280 equity shares of Rs.10/- each)	0.00	0.00
007		**0.00**	**0.00**
008	**Total**	**0.00**	**0.00**
009	During FY 2018-19, the company has issued 1,649,092,880 equity shares of Rs 10/- each as fully paid bonus shares	0.00	0.00
010	The holders of the equity shares are entitled to receive dividends as declared from time to time, and are entitled to one vote per share at meetings of the company.	0.00	0.00
011	Details of shareholders holding more than 5% shares in the company	0.00	0.00
012	- President of India	0.00	0.00
013	No. of Shares	0.00	0.00
014	% of holding	0.00	0.00
015	- Life Insurance Corporation of India/ICICI Prudential Mutual Fund	0.00	0.00
016	No. of Shares	0.00	0.00
017	% of holding	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 22 TO THE FS-EQUITY-OTHER EQUITY

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	RESERVE AND SURPLUS	0.00	0.00
002		**0.00**	**0.00**
003	**Capital Reserve**	**0.00**	**0.00**
004	As per last financial statements	0.00	0.00
006	Add : Grants received during the year	0.00	0.00
007	Add: Transfer from Surplus	0.00	0.00
008	Less: Write back during the year/period	0.00	0.00
009	Less: Adjustments during the year/period	0.00	0.00
010	**Sub-Total**	**0.00**	**0.00**
011	**Securities Premium Account**	**0.00**	**0.00**
012	As per last financial statements	0.00	0.00
013	Add: Additions during the year/period	0.00	0.00
014	Less: Adjustments during the year/period	0.00	0.00
015	**Sub-Total**	**0.00**	**0.00**
016	**Bonds Redemption Reserve**	**0.00**	**0.00**
017	As per last financial statements	0.00	0.00
018	Add: Transfer from Surplus	0.00	0.00
019	Less: Transfer to surplus on redemption	0.00	0.00
020	Less: Adjustments during the year/ period	0.00	0.00
021	**Sub-Total**	**0.00**	**0.00**
022	**Share Application money Allotment**	**0.00**	**0.00**
023	As per last financial statements	0.00	0.00
024	Add: Addition during the year	0.00	0.00
025	Less: Utilised for allotment during the year	0.00	0.00
026	Less: Adjustments during the year/ period	0.00	0.00
027	**Sub-Total**	**0.00**	**0.00**
028	**Fly-ash utilisation reserve Fund**	**0.00**	**0.00**
029	As per last financial statements	1,757,423,165.00	1,468,108,146.55
030	Transferred to CC	0.00	-273,299,580.72
031	Add:Transfer from revenue from operations	470,450,530.77	628,204,777.16
032	Add:Transfer from other income	0.00	0.00
033	Less: Utilised during the year	0.00	0.00
034	Tangible assets	0.00	-8,624,866.05
035	Employee benefit expenses	0.00	-12,817,530.40
036	Generation admin. and other expenses	0.00	-40,247,781.54
037	Tax Expenses	0.00	0.00
038	**Sub-Total**	**2,227,873,695.77**	**1,757,423,165.00**
039	**Corporate social responsibility (CSR) reserve**	**0.00**	**0.00**
040	As per last financial statements	0.00	0.00
041	Add : Transfer from surplus	0.00	0.00
042	Less: Write back during the year	0.00	0.00
043	**Sub-Total**	**0.00**	**0.00**
044	**General Reserve**	**0.00**	**0.00**
045	As per last financial statements	0.00	0.00
046	Add: Transfer from Surplus	0.00	0.00
047	Less: Transfer to Surplus	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 22 TO THE FS-EQUITY-OTHER EQUITY

(Amount in ₹)

	As at	31.03.2020	31.03.2019
048	Less: Write back during the year /period	0.00	0.00
049	Less: Adjustments during the year /period	0.00	0.00
050	**Sub-Total**	**0.00**	**0.00**
051		**0.00**	**0.00**
052	**Retained earnings**	**0.00**	**0.00**
053	As per last financial statements	116,766,802,136.66	108,211,770,863.98
054	Add(Less): Changes in accounting policy / prior period errors	0.00	0.00
055	Add(Less): Profit (Loss) after tax for the year from Statement of Profit & Loss	7,499,544,079.71	8,555,031,272.68
056		0.00	0.00
057	Add: Write back from Bond Redemption Reserve	0.00	0.00
058	Add: Write back from Capital Reserve	0.00	0.00
059	Add: Write back from Foreign Project Reserve	0.00	0.00
060	Add: Write back from CSR Reserve	0.00	0.00
061	Add: Write back from General Reserve	0.00	0.00
062	Less: Transfer to Bonds Redemption Reserve	0.00	0.00
063	Less: Transfer to Foreign Project Reserve	0.00	0.00
064	Less:Transfer to Capital Reserve	0.00	0.00
065	Less:Transfer to CSR Reserve	0.00	0.00
066	Less:Transfer to General Reserve	0.00	0.00
067	Less:Interim Dividend Paid	0.00	0.00
068	Less:Tax on Interim Dividend Paid	0.00	0.00
069	Less:Final Dividend Paid	0.00	0.00
070	Less:Tax on Final Dividend Paid	0.00	0.00
071	Less: Issue of bonus debenture	0.00	0.00
072	Less: Tax on issue of bonus debenture	0.00	0.00
073	**Sub-Total**	**124,266,346,216.37**	**116,766,802,136.66**
074		0.00	0.00
075	**Remeasurement of defined benefit plans**	**0.00**	**0.00**
076	As per last financial statements	-158,423,086.17	-155,610,047.15
077	Add/(Less): - Actuarial Gains/loss through OCI	-75,629,032.73	-2,813,039.02
078	**Sub-Total**	**-234,052,118.90**	**-158,423,086.17**
080		0.00	0.00
081	**FVTOCI Reserve**	**0.00**	**0.00**
082	As per last financial statements	0.00	0.00
083	Add(Less): Net gain/loss of equity instruments through OCI	0.00	0.00
084	**Sub-Total**	**0.00**	**0.00**
085		**0.00**	**0.00**
086	**Total Other equity**	**126,250,268,393.24**	**118,365,802,215.49**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 23 TO THE FS-NCL-BORROWINGS

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	**LONG TERM BORROWINGS**	**0.00**	**0.00**
002	**Bonds**	**0.00**	**0.00**
003	**Secured**	**0.00**	**0.00**
004	7.37 %. Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2035 (Fifty Sixth Issue - Public Issue - Series 3A).	0.00	0.00
005	7.62 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2035 (Fifty Sixth Issue - Public Issue - Series 3 B).	0.00	0.00
006	8.61% Tax free secured non-cumulative non-convertible redeemable bonds of ₹ 10,00,000/- each redeemable at par in full on 4th March 2034 (Fifty First Issue C - Private Placement)	0.00	0.00
007	8.66% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2033 (Fiftieth Issue - Public Issue - Series 3A)	0.00	0.00
008	8.91% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2033 (Fiftieth Issue - Public Issue - Series 3B)	0.00	0.00
009	7.37% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 14th December 2031 (Sixty Sixth Issue - Private Placement)	0.00	0.00
010	7.49% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 7th November 2031 (Sixty Fourth Issue - Private Placement)	0.00	0.00
011	7.28 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2030 (Fifty Sixth Issue - Public Issue - Series	0.00	0.00

NOTE NO. 23 TO THE FS-NCL-BORROWINGS

[Amount in ₹]

	As at	31.03.2020	31.03.2019
	2A)		
012	7.53 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2030 (Fifty Sixth Issue - Public Issue - Series 2 B).	0.00	0.00
013	7.93% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 03 May 2032 (88th Issue - Private Placement)	0.00	0.00
014	8.63% Tax free secured non-cumulative non-convertible redeemable bonds of ₹ 10,00,000/- each redeemable at par in full on 4th March 2029 (Fifty First Issue B - Private Placement)	0.00	0.00
015	8.30% Secured non-cumulative non-convertible redeemable taxable bonds of Rs 10,00,000/- each redeemable at par in full on 15 January 2029 (Sixty Seventh Issue - Private Placement)	0.00	0.00
016	8.48% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2028 (Fiftieth Issue - Public Issue - Series 2A)	0.00	0.00
017	8.73% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2028 (Fiftieth Issue - Public Issue - Series 2B)	0.00	0.00
018	7.47% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 16th September 2026 (Sixty Third Issue - Private Placement)	0.00	0.00
019	7.58% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 23rd August 2026 (Sixty Second Issue - Private Placement)	0.00	0.00

(Amount in ₹)

	As at	31.03.2020	31.03.2019
020	8.05% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 5th May 2026 (Sixtieth Issue - Private Placement)	0.00	0.00
021	8.19% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 15th December 2025 (Fifty Seventh Issue - Private Placement)	0.00	0.00
022	7.11 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2025 (Fifty Sixth Issue - Public Issue - Series 1A).	0.00	0.00
023	7.36 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2025 (Fifty Sixth Issue - Public Issue - Series 1B).	0.00	0.00
024	7.15% Tax free secured non-cumulative non-convertible redeemable bonds - 2015 of Rs. 10,00,000/- each redeemable at par in full on 21st August 2025 (Fifty Fifth Issue - Private Placement)	0.00	0.00
025	9.17% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 22nd September 2024 (53rd Issue - private placement)	0.00	0.00
026	9.34% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 24th March 2024 (Fifty Second Issue - private placement)	0.00	0.00
027	8.19% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 10,00,000/- each redeemable at par in full on 4th March 2024 (Fifty First Issue A - Private Placement)	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 23 TO THE FS-NCL-BORROWINGS

(Amount in ₹)

	As at	31.03.2020	31.03.2019
028	8.41% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2023 (Fiftieth Issue - Public Issue - Series 1A)	0.00	0.00
029	8.66% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2023 (Fiftieth Issue - Public Issue - Series 1B)	0.00	0.00
030	9.25% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each with five equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 11th year and in annual installments thereafter upto the end of 15th year respectively commencing from 4th May 2023 and ending on 4th May 2027 (Forty fourth issue - private placement)VII	0.00	0.00
031	8.48% Secured non-cumulative non-nonvertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 1st May 2023 (Seventeenth issue - private placement)I	0.00	0.00
032	8.80% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 4th April 2023 (Forty ninth issue -private placement	0.00	0.00
033	8.49% Secured non-cumulative non-convertible redeemable taxable fully paid-up bonus debentures of Rs. 12.50 each redeemable at par in three annual installments of Rs. 2.50, Rs. 5.00 and Rs. 5.00 at the end of 8th year, 9th year and 10th year on 25th March 2023, 25th March 2024 and 25th March 2025 respectively (Fifty Fourth Issue -Bonus Debentures)X - (refer Note 5 d)	0.00	0.00
034	8.73% Secured non-cumulative non-convertible redeemable taxable bonds of	0.00	0.00

NOTE NO. 23 TO THE FS-NCL-BORROWINGS

(Amount in ₹)

	As at	31.03.2020	31.03.2019
	₹ 10,00,000/- each redeemable at par in full on 07th March 2023 (Forty eighth issue - private placement)		
035	9.00% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each with five equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 11th year and in annual installments thereafter upto the end of 15th year respectively commencing from 25th January 2023 and ending on 25th January 2027 (Forty second issue- private placement)III	0.00	0.00
036	8.84% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 4th October 2022 (Forty seventh issue- private placement)VII	0.00	0.00
037	7.32% Secured non-cumulative non-convertible redeemable taxable bonds of Rs 10,00,000/- each redeemable at par in full on 17 July 2029 (Sixty Ninth Issue - Private Placement)	0.00	0.00
038	6.72% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 24th November 2021 (Sixty Fifth Issue - Private Placement)	0.00	0.00
039	8.10% Secured Non-Cumulative Non-Convertible Redeemable Taxable Bonds of Rs. 30,00,000/- each redeemable at par in three equal separately transferable redeemable principal parts (STRPP) at the end of 5th year, 10th year & 15th year on 27th May 2021, 27th May 2026 and 27th May 2031 respectively (Sixty First Issue- Private Placement)	0.00	0.00
040	8.33% Secured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in full on 24th February 2021	0.00	0.00

(Amount in ₹)

	As at	31.03.2020	31.03.2019
	(Fifty Ninth Issue - Private Placement).		
042	8.93% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 19th January 2021 Thirty seventh issue - private placement)III	0.00	0.00
043	8.18% Secured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in full on 31st December 2020 (Fifty Eight Issue - Private Placement).	0.00	0.00
044	8.73 % Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 31st March 2020 (Thirty third issue- private placement)III	0.00	0.00
045	8.78 % Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 9th March 2020 (Thirty first issue- private placement)III	0.00	0.00
046	11.25% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in five equal annual installments commencing from 6th Nov 2019 and ending on 6th Nov 2023 (Twenty seventh issue - private placement)III	0.00	0.00
047	7.89% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 5th May 2019 (Thirtieth issue - private placement)III	0.00	0.00
048	8.65% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 4th February 2019 (Twenty ninth issue - private placement)III	0.00	0.00
049	7.50% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full	0.00	0.00

(Amount in ₹)

	As at	31.03.2020	31.03.2019
	on 12th January 2019 (Nineteenth issue - private placement)II		
050	11% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 21st November 2018 (Twenty eighth issue - private placement)III	0.00	0.00
051	9.3473% Secured non-cumulative non-convertible redeemable taxable bonds of ₹15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 20th July 2018 and ending on 20th July 2032 (Forty sixth issue - private placement)VII	0.00	0.00
052	9.4376% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 16th May 2018 and ending on 16th May 2032 (Forty fifth issue - private placement)VII	0.00	0.00
053	8.00% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 10th April 2018 (Sixteenth issue -private placement)II	0.00	0.00
054	9.2573% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 2nd March 2018 and ending on 2nd March 2032 (Forty third issue - private placement)III	0.00	0.00
055	9.6713% Secured non-cumulatove non-convertible redeemable taxable bonds	0.00	0.00

(Amount in ₹)

	As at	31.03.2020	31.03.2019
	of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 23rd December 2017 and ending on 23rd December 2031 (Forty first issue - private placement)(II		
056	9.558% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 29th July 2017 and ending on 29th July 2031(Fourtieth issue-private placement)(II	0.00	0.00
057	9.3896% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 9th June 2017 and ending on 9th June 2031(Thirty ninth issue-private placement)(II	0.00	0.00
058	9.17% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 22nd March 2017 and ending on 22nd March 2031(Thirty eighth issue-private placement)(II	0.00	0.00
059	8.8086% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th	0.00	0.00

(Amount in ₹)

	As at	31.03.2020	31.03.2019
	year and in annual installments thereafter upto the end of 20th year respectively commencing from 15th December 2016 and ending on 15th December 2030 (Thirty sixth issue - private placement)III		
060	8.785% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 15th September 2016 and ending on 15th September 2030 (Thirty fifth issue - private placement)III	0.00	0.00
061	8.71% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 10th June 2016 and ending on 10th June 2030 (Thirty fourth issue - private placement)III	0.00	0.00
062	8.8493% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 25th March 2016 and ending on 25th March 2030 (Thirty second issue - private placement)III	0.00	0.00
063	9.37% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 70,00,000/- each with fourteen separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 4th June 2012 and ending on 4th December 2018 (Twenty fifth issue -	0.00	0.00

(Amount in ₹)

	As at	31.03.2020	31.03.2019
	private placement)III		
065	9.06% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 70,00,000/- each with fourteen separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 4th June 2012 and ending on 4th December 2018 (Twenty sixth issue - private placement)III	0.00	0.00
066	8.6077% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 9th September 2011 and ending on 9th March 2021 (Twenty fourth issue - private placement)IV	0.00	0.00
067	8.3796% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 5th August 2011 and ending on 5th February 2021 (Twenty third issue - private placement)IV	0.00	0.00
068	8.1771% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 2nd July 2011 and ending on 2nd January 2021 (Twenty second issue - private placement)IV	0.00	0.00
069	7.7125% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 2nd August 2010 and ending on 2nd February 2020 (Twenty first issue - private placement)IV	0.00	0.00
070	7.552% Secured non-cumulative non-convertible redeemable taxable bonds	0.00	0.00

(Amount in ₹)

	As at	31.03.2020	31.03.2019
	of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 23rd September 2009 and ending on 23rd March 2019 (Twentieth issue - private placement)VI		
071	9.55% Secured non-cumulative non-convertible taxable redeemable bonds of ₹ 10,00,000/- each with ten equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of the 6th year and in annual installments thereafter upto the end of 15th year respectively from 30th April 2002 (Thirteenth issue - Part B - private placement)VIII	0.00	0.00
072	9.55% Secured non-cumulative non-convertible taxable redeemable bonds of ₹ 10,00,000/- each redeemable at par in ten equal annual installments commencing from the end of 6th year and upto the end of 15th year respectively from 18th April 2002 (Thirteenth issue -Part A - private placement)VIII	0.00	0.00
074		0.00	0.00
075		0.00	0.00
081		0.00	0.00
082	**Sub Total**	**0.00**	**0.00**
083	**Foreign Currency Notes-Unsecured**	**0.00**	**0.00**
084	4.50% Fixed Rate Notes Due for repayment on 19th March 2028	0.00	0.00
085	2.75% Fixed rate notes due for repayment on 1st February 2027	0.00	0.00
086	4.25 % Fixed rate notes due for repayment on 26th February 2026	0.00	0.00
087	4.375% Fixed Rate Note due for repayment on 26th November 2024	0.00	0.00
088	4.75 % Fixed Rate Notes due for repayment on 3rd Oct 2022	0.00	0.00
089	7.25 % Fixed green global INR denominated bonds due on 3 May 2022	0.00	0.00
090	7.375 % Fixed green global INR denominated bonds due on 10 August 2021	0.00	0.00
091	5.625% Fixed Rate Notes due for repayment on 14th July 2021	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 23 TO THE FS-NCL-BORROWINGS

(Amount in ₹)

	As at	31.03.2020	31.03.2019
092	3.75 % Fixed rate notes due for repayment on 03 April 2024	0.00	0.00
093		0.00	0.00
094	**Sub Total**	**0.00**	**0.00**
095	Long term maturities of Finance Lease Obligations (Secured) IX	0.00	0.00
100	Long term maturities of Finance Lease Obligations (Unsecured) X	0.00	0.00
101	**Term Loans**	**0.00**	**0.00**
102	**From Banks**	**0.00**	**0.00**
103	**Secured**	**0.00**	**0.00**
104	Rupee Loans	0.00	0.00
105	**Unsecured**	**0.00**	**0.00**
106	Foreign Currency Loans	0.00	0.00
107	Rupee Loans	0.00	0.00
108	**From Others**	**0.00**	**0.00**
109	**Secured**	**0.00**	**0.00**
110	Rupee Loans	0.00	0.00
111	Foreign Currency loans (guaranteed by GOI)	0.00	0.00
112	**Unsecured**	**0.00**	**0.00**
113	Foreign Currency loans (guaranteed by GOI)	0.00	0.00
114	Other Foreign currency loans	0.00	0.00
115	Rupee Loans	0.00	0.00
116	**Deposits**	**0.00**	**0.00**
117	**Unsecured**	**0.00**	**0.00**
118	Fixed Deposits	0.00	0.00
119	**Others**	**0.00**	**0.00**
120	**Unsecured**	**0.00**	**0.00**
121	Bonds Application Money Pending Allotment	0.00	0.00
122	**Sub-total**	**0.00**	**0.00**
123	Less:- Interst accrued but not due on borrowings	0.00	0.00
124	Less:- Current maturities of long term borrowings	0.00	0.00
125	Bonds-Secured	0.00	0.00
126	5.875% Fixed Rate Notes	0.00	0.00
127	Foreign currency loans from Banks- unsecured	0.00	0.00
128	Rupee loans from banks- Secured	0.00	0.00
129	Rupee loans from banks- unsecured	0.00	0.00
130	Rupee Term loan from Others - Secured	0.00	0.00
131	Foreign currency loans from others- unsecured (Guaranteed by GOI)	0.00	0.00
132	Other foreign currency loans from others- unsecured	0.00	0.00
133	Rupee loans from others- unsecured	0.00	0.00
134	Finance Lease obligations - secured	0.00	0.00
135	Finance Lease obligations - unsecured	0.00	0.00
136		0.00	0.00
137		0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 23 TO THE FS-NCL-BORROWINGS

(Amount in ₹)

	As at	31.03.2020	31.03.2019
200	**Total**	**0.00**	**0.00**

NATIONAL CAPITAL POWER STATION

NOTE NO. 24 TO THE FS-NCL-TRADE PAYABLES

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	**TRADE PAYABLES(NON CURRENT)**	**0.00**	**0.00**
002	**For Goods and Services**	**0.00**	**0.00**
003	- Micro & Small Enterprises	4,983,895.09	3,959,449.12
004	- Others	3,756,280.37	6,587,886.94
005		0.00	0.00
006	**Total**	**8,740,175.46**	**10,547,336.06**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 25 TO THE FS-NCL-OTHER FINANCIAL LIABILITIES

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	**OTHER FINANCIAL LIABILITIES (NON-CURRENT)**	**0.00**	**0.00**
002	Payable for Capital Expenditure	0.00	0.00
003	- Micro & Small Enterprises	570,141.55	137,724.80
004	- Others	224,635.69	2,608,767.55
005	Others	0.00	0.00
006	Deposits from contractors and others	0.00	0.00
007		0.00	0.00
008		0.00	0.00
009	**Total**	**794,777.24**	**2,746,492.35**

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Page 1 of 1

NATIONAL CAPITAL POWER STATION

NOTE NO. 26 TO THE FS-NCL-PROVISIONS

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	**LONG TERM PROVISIONS**	**0.00**	**0.00**
002	**Provision for Employee Benefits**	**0.00**	**0.00**
003	Opening Balance	0.00	0.00
004	Additions/ (adjustments) during the year	0.00	0.00
005	**Closing Balance**	**0.00**	**0.00**
013		**0.00**	**0.00**
014	**TOTAL**	**0.00**	**0.00**

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NOTE NO. 27 TO THE FS-NCL-DEFERRED TAX LIABILITIES (NET)

(Amount in ₹)

	As at	Opening Balance on 01.04.2019	Addition	Closing Balance on 31.03.2020
001	**DEFERRED TAX LIABILITIES (NET)**			
002	Difference of book depreciation and tax depreciation	0.00	0.00	0.00
003	Less: Deferred tax assets			
004	Provisions & Other disallowances for tax purposes	0.00	0.00	0.00
005	Unabsorbed Depreciation	0.00	0.00	0.00
006	Disallowances u/s 43B of the Income Tax Act, 1961	0.00	0.00	0.00
007	MAT credit entitlement	0.00	0.00	0.00
008		0.00	0.00	0.00
009	**Total**	**0.00**	**0.00**	**0.00**
010		0.00	0.00	0.00
011	**Total**	**0.00**	**0.00**	**0.00**
012	Breakup of deferred tax assets	0.00	0.00	0.00
013	Provision	0.00	0.00	0.00
014	Statutory dues	0.00	0.00	0.00
015	Leave encashment	0.00	0.00	0.00
016	Others	0.00	0.00	0.00
017		0.00	0.00	0.00
018		0.00	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 28 TO THE FS-NCL-OTHER NON-CURRENT LIABILITIES

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	Other Non current Liabilities	0.00	0.00
002	Advances from customers and others	0.00	0.00
003	Deposits from contractors and others	0.00	0.00
004		0.00	0.00
005	**TOTAL**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 29 TO THE FS-CL-BORROWINGS

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	**Short Term Borrowings**	**0.00**	**0.00**
002	**Loans repayable on demand**	**0.00**	**0.00**
003	**From Banks**	**0.00**	**0.00**
004	**Secured**	**0.00**	**0.00**
005	Cash Credit	0.00	0.00
006	**Unsecured**	**0.00**	**0.00**
007	Cash Credit	0.00	0.00
008	**Other loans-unsecured**	**0.00**	**0.00**
009	Commercial Papers	0.00	0.00
010	Less: Unamortised discount on Commercial Papers	0.00	0.00
011	**Total**	**0.00**	**0.00**
012		0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 30 TO THE FS-CL-TRADE PAYABLES

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	**TRADE PAYABLES**	**0.00**	**0.00**
002	For Goods and Services	0.00	0.00
003	- Micro & Small Enterprises	135,458,742.19	140,415,263.91
004	- Others	3,111,241,777.42	5,411,551,368.32
005		0.00	0.00
006	**Total**	**3,246,700,519.61**	**5,551,966,632.23**
007		0.00	0.00

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 31 TO THE FS-CL-OTHER FINANCIAL LIABILITIES

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	**OTHER FINANCIAL LIABILITIES (CURRENT)**	**0.00**	**0.00**
002	***Current maturity of long term borrowings***	**0.00**	**0.00**
003	Bonds-Secured	0.00	0.00
004	Foreign Currency Fixed Rate Notes	0.00	0.00
005	**From Banks**	**0.00**	**0.00**
006	**Secured**	**0.00**	**0.00**
007	Rupee Term Loan	0.00	0.00
008	**Unsecured**	**0.00**	**0.00**
009	Foreign currency loans	0.00	0.00
010	Rupee term loans	0.00	0.00
011	**From Others**	**0.00**	**0.00**
012	**Secured**	**0.00**	**0.00**
013	Rupee Term Loan	0.00	0.00
014	**Unsecured**	**0.00**	**0.00**
015	Foreign currency loans (Guaranteed by Government of India)	0.00	0.00
016	Other foreign currency loans	0.00	0.00
017	Rupee term loans	0.00	0.00
018	Fixed deposits	0.00	0.00
019	Sub Total	0.00	0.00
020	Current maturity of finance lease obligations (secured)	0.00	0.00
021	Current maturity of finance lease obligations (unsecured)	0.00	0.00
022	Interest accrued but not due on borrowings	0.00	0.00
023	Unpaid Dividends*	0.00	0.00
024	Unpaid matured deposits and interest accrued thereon*	0.00	0.00
025	Unpaid matured bonds and interest accrued thereon*	0.00	0.00
026	Unpaid bond refund money-Tax free bonds *	0.00	0.00
027	Book Overdraft	0.00	0.00
028	Payable to Customers	0.00	0.00
029	Liability under forward exchange contact	0.00	0.00
030	Hedging cost payable to beneficiaries	0.00	0.00
031	Derivative MTM Liability	0.00	0.00
032	**Payable for Capital Expenditure**	**0.00**	**0.00**
033	- Micro & Small Enterprises	89,008,261.63	27,904,239.46
034	- Others	2,906,398,483.72	1,999,273,733.39
035	**Others Payables**	**0.00**	**0.00**
036	Deposits from contractors and others	91,177,485.00	82,445,810.00
037	Gratuity Obligations	0.00	0.00
038	Payable to employees	11,456,812.39	24,925,345.72
039	Payable to holding company	0.00	0.00
040	Retention on A/c BG encashment (Solar)	0.00	0.00
041	Payable to Solar Payment Security Account	0.00	0.00
042	Others **	49,166,149.09	[illegible]4,394.39

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NATIONAL CAPITAL POWER STATION

NOTE NO. 31 TO THE FS-CL-OTHER FINANCIAL LIABILITIES

(Amount in ₹)

	As at	31.03.2020	31.03.2019
043		0.00	0.00
044	**Total**	**3,147,245,192.43**	**2,258,482,205.96**
045	* Represents the amounts which have not been claimed by the investor/holders of the bonds/fixed deposits. Out of the above, no amount is due for payment to Investor Education and Protection Fund.	0.00	0.00
046	** Include Payable to Hospital, parties for stale cheques and other payable.	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 32 TO THE FS-CL-OTHER CURRENT LIABILITIES

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	**OTHER CURRENT LIABILITIES**	**0.00**	**0.00**
002	Advances from customers and others	25,422,506.74	28,067,247.05
003	Deferred discount on forward exchange contact	0.00	0.00
004	Tax deducted at source and other statutory dues	110,714,689.96	31,008,303.05
005	Others	0.00	0.00
006	**Total**	**136,137,196.70**	**59,075,550.10**

NATIONAL CAPITAL POWER STATION

NOTE NO. 33 TO THE FS-CL-PROVISIONS

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	**SHORT TERM PROVISIONS**	**0.00**	**0.00**
002	**Provision for Employee Benefits**	**0.00**	**0.00**
003	Opening balance	0.00	0.00
004	Additions/ (adjustments) during the year	0.00	0.00
005	**Closing Balance**	**0.00**	**0.00**
028	**Provisions for Obligations Incidental to Land Acquisition**	**0.00**	**0.00**
029	Opening balance	0.00	0.00
030	Additions during the year	0.00	0.00
031	Amounts paid during the year	0.00	0.00
032	Amounts reversed during the year	0.00	0.00
033	**Closing Balance**	**0.00**	**0.00**
035	**Provision for Tariff Adjustment**	**0.00**	**0.00**
036	Opening balance	0.00	0.00
037	Additions during the year	0.00	0.00
038	Amounts adjusted during the year	0.00	0.00
039	Amounts reversed during the year	0.00	0.00
040	**Closing Balance**	**0.00**	**0.00**
042	**Provision for shortage in Fixed Assets Pending Investigation & Others**	**0.00**	**0.00**
043	Opening balance	165,808.06	2,430,375.08
044	Additions during the year	0.00	165,808.06
045	Amounts adjusted during the year	0.00	0.00
046	Amounts reversed during the year	165,808.06	2,430,375.08
047	**Closing Balance**	**0.00**	**165,808.06**
048	**Provision for Arbitration**	**0.00**	**0.00**
049	Opening balance	22,934,546.00	21,926,785.00
050	Additions during the year	1,010,522.00	1,007,761.00
051	Amounts used during the year	0.00	0.00
052	Amounts reversed during the year	0.00	0.00
053	**Closing Balance**	**23,945,068.00**	**22,934,546.00**
054	**Others**	**0.00**	**0.00**
055	Opening balance	0.00	0.00
056	Additions during the year	0.00	0.00
057	Amounts used during the year	0.00	0.00
058	Amounts reversed during the year	0.00	0.00
059	**Closing Balance**	**0.00**	**0.00**
102		0.00	0.00
103	**Total**	**23,945,068.00**	**23,100,354.06**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 34 TO THE FS-CL-CURRENT TAX LIABILITIES (NET) (Amount in ₹)

	As at	31.03.2020	31.03.2019
001	**Current liabilities - current tax liabilities (net)**	**0.00**	**0.00**
002	Opening balance	0.00	0.00
003	Additions during the year	0.00	0.00
004	Amounts adjusted during the year	0.00	0.00
005	Less: Set off against taxes paid	0.00	0.00
006	**Closing Balance**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 35 TO THE FS--DEFERRED REVENUE

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	**Deferred Revenue**	**0.00**	**0.00**
002	On account of advance against depreciation	0.00	0.00
003	On account of income from foreign currency fluctuation	149,915,000.00	171,191,000.00
004	Government grants	0.00	0.00
005		0.00	0.00
006	**TOTAL**	**149,915,000.00**	**171,191,000.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 36 TO THE FS--REGULATORY DEFERRAL ACCOUNT CREDIT BALANCES

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	Regulatory deferral account credit balances	0.00	0.00
002	Exchange Differences	0.00	0.00
003		0.00	0.00
004	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 37 TO THE FS--REVENUE FROM OPERATIONS

(Amount in ₹)

	For the Year ended	31.03.2020	31.03.2019
001	**REVENUE FROM OPERATIONS**	**0.00**	**0.00**
002	**Sales**	**0.00**	**0.00**
003	Energy Sales (including Electricity Duty)	44,150,749,440.00	52,236,168,962.50
004	Less : Advance against depreciation deferred (net)	0.00	0.00
005	Add: Revenue recognized out of advance against depreciation	0.00	0.00
006	Add : Exchange fluctuation receivable from customers	-34,228,000.00	-40,010,000.00
007	Sale of energy through trading	0.00	0.00
008	Commission (NVVN)	0.00	0.00
009	**Sub total**	**44,116,521,440.00**	**52,196,158,962.50**
010	Less: Rebate to customers	140,621,411.33	541,659,120.97
011	**Energy Sales (Total)**	**43,975,900,028.67**	**51,654,499,841.53**
012	Consultancy, project management and supervision fees	0.00	0.00
013	Lease rentals on assets on Operating lease	0.00	0.00
014	Sale of Captive Coal	0.00	0.00
015	Intra Company Elimination	0.00	0.00
017	**Sub-total**	**0.00**	**0.00**
018	**Total - Sales**	**43,975,900,028.67**	**51,654,499,841.53**
019	Sale of fly ash/ash products	470,460,530.77	626,304,777.16
020	Less: Transferred to fly ash utilisation reserve fund	-470,460,530.77	-626,304,777.16
021	**Sub-total**	**0.00**	**0.00**
022	**Other Operating Income**	**0.00**	**0.00**
023	Interest from customers	262,929,445.00	36,044,468.00
024	Energy Internally Consumed *	88,917,833.00	72,305,870.00
025	Interest income on Assets under finance lease	0.00	0.00
026	Recognized from deferred revenue - government grant	0.00	0.00
027	Provision written back: Tariff Adjustment	0.00	0.00
028	Income form Trading of ESCerts	0.00	0.00
029	Income from E-Mobility Business	0.00	0.00
030		0.00	0.00
031	**Total**	**44,327,747,306.67**	**51,762,850,179.53**
040	* Valued at variable cost of generation and corresponding amount included in power charges (Note No. 42)	0.00	0.00
041	Excise duty on sale of flyash,cenosphere & ash products	0.00	0.00
042	Energy sales of principal nature (NVVN)	0.00	0.00
043	Energy sales of agency nature (NVVN)	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 38 TO THE FS--OTHER INCOME

(Amount in ₹)

	For the Year ended	31.03.2020	31.03.2019
001	**OTHER INCOME**	**0.00**	**0.00**
002	**Interest from**	**0.00**	**0.00**
004	**Financial assets at amortised cost**	**0.00**	**0.00**
005	Government Securities (8.5% Tax Free Bonds issued by the State Goverments)	0.00	0.00
006	Other Bonds	0.00	0.00
007		0.00	0.00
008	Interest from Government of India Securties-Non-Trade	0.00	0.00
009	Less: Amortiation of premium	0.00	0.00
010	**Sub Total**	**0.00**	**0.00**
011	Interest from others	0.00	0.00
012	Loan to State Government in settlement of dues from customers	0.00	0.00
013	Loan to Subsidiary Companies	0.00	0.00
014	Loan to Employees	23,266,416.42	25,121,170.45
015	Deposit with banks	0.00	0.00
016	Foreign Banks	0.00	0.00
017	Interest from Contractors	0.00	-420,571.00
018	Interest from Income Tax Refunds	0.00	0.00
019	Less : Refundable to Customers	0.00	0.00
020	**Sub Total**	**0.00**	**0.00**
021	Deposits with banks-flyash utilisation reserve fund	0.00	0.00
022	Less: transferred to flyash utilisation reserve fund	0.00	0.00
023	**Sub Total**	**0.00**	**0.00**
024	Deposits with banks- DDUGJY funds	0.00	0.00
025	Interest from Contractors- DDUGJY funds	0.00	0.00
026	Transfer to DDUGJY-Advance from customers	0.00	0.00
027	Sub-total	0.00	0.00
030	Others	0.00	0.00
031		0.00	0.00
032	**Dividend from**	**0.00**	**0.00**
033	**Longterm investments in**	**0.00**	**0.00**
034	Subsidiaries	0.00	0.00
035	Joint Ventures	0.00	0.00
036	Equity Instruments	0.00	0.00
037	**Current investments in**	**0.00**	**0.00**
038	Mutual Funds measured at fairvalue through profit or loss	0.00	0.00
039	Current investments in mutual funds-flyash utilisation reserve fund	0.00	0.00
040	Less: transferred to flyash utilisation reserve fund	0.00	0.00
041	Lease Rent # Ash Brick Plant	0.00	0.00
042	Less: transferred to flyash utilisation reserve fund	0.00	0.00
043	Other non-operating income	40.00	230.00
044	Profit on disposal of PPE	345,248.40	[illegible]
045	Profit on redemption of GOI securities	0.00	[illegible]

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NATIONAL CAPITAL POWER STATION

NOTE NO. 38 TO THE FS--OTHER INCOME

(Amount in ₹)

	For the Year ended	31.03.2020	31.03.2019
046	Net gain on sale of investments	0.00	0.00
047	Surcharge received from customers	153,417,050.00	502,751,305.00
048	Hire charges for equipment	0.00	0.00
049	Gain on option contract / Discount on F.ExchContract	0.00	0.00
050	Provision written back-others	14,003,710.17	775,016.35
051	Fair value gains/(losses) on investments in mutual funds at fair value through profit or loss	0.00	0.00
052	Interest from Solar payment security account	0.00	0.00
053	Less : Transferred to SPSA fund	0.00	0.00
054	Interest on "Retention on A/c BG encashment (Solar)"	0.00	0.00
055	Less : Transferred to "Retention on A/c BG encashment (Solar)"	0.00	0.00
056	Miscellaneous Income	106,556,709.31	144,360,595.06
057	**Total**	**299,592,174.30**	**673,081,914.31**
058	Less Transferred to Development of Coal Mines-Note 43A	0.00	0.00
059	Less Transferred to Expenditure during Construction period (net)- Note 43	36,135.68	0.00
061		0.00	0.00
062	**Total**	**299,556,038.62**	**673,081,914.31**
063		0.00	0.00
064	**Details of Miscellaneous Income**	**0.00**	**0.00**
065	Vehicle Hire Charges	77,283.00	110,000.00
066	Sale of by products & residuals	0.00	0.00
067	Township recoveries(excl. Hospital Recoveries)	67,700,599.61	62,552,083.48
068	Depreciation written back	0.00	0.00
069	Sale of Scrap	18,896,980.98	62,116,834.85
070	Receipt under loss of profit policy	0.00	0.00
071	Receipts under MBD/Fire Policy	10,042,202.00	0.00
072	Management development programme	0.00	0.00
073	Management Fee - Misc (NVVN)	0.00	0.00
074	Others	11,839,643.72	19,481,676.73
075		0.00	0.00
076	**Total (Miscellaneous Income)**	**106,556,709.31**	**144,360,595.06**
077		0.00	0.00
078	**Details of Provision written back others**	**0.00**	**0.00**
079	Doubtful debts	0.00	0.00
080	Doubtful Loans, Advances and Claims	0.00	0.00
081	Doubtful Construction Advances	0.00	0.00
082	Shortage in Construction Stores	0.00	0.00
083	Shortage in Stores	111,799.84	473,721.97
084	Obsolescence in Stores	13,726,111.27	0.00
085	Unserviceable capital works	0.00	0.00
086	Other Obligation	0.00	0.00
087	Shortage in Fixed Assets	165,808.09	[illegible]

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NATIONAL CAPITAL POWER STATION

NOTE NO. 38 TO THE FS--OTHER INCOME

(Amount in ₹)

	For the Year ended	31.03.2020	31.03.2019
088	Diminution in value of investment	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 38A TO THE FS-FUEL COST

(Amount in ₹)

	For the Year ended	31.03.2020	31.03.2019
001	**FUEL COST**	**0.00**	**0.00**
002	Coal	0.00	0.00
003	Captive	0.00	0.00
004	Other than captive	27,908,545,973.33	35,157,385,997.30
005	Gas	0.00	0.00
006	Naptha	0.00	0.00
007	Oil	286,838,360.91	139,166,681.04
008	**Total**	**28,195,384,334.24**	**35,296,552,679.34**
009		0.00	0.00
010		0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 39 TO THE FS--EMPLOYEE BENEFITS EXPENSE

(Amount in ₹)

	For the Year ended	31.03.2020	31.03.2019
001	**EMPLOYEE BENEFITS EXPENSE**	**0.00**	**0.00**
002	Salaries and wages	1,928,274,823.34	1,830,746,630.76
003	Contribution to provident and other funds	209,859,591.07	269,830,439.70
004	Unwinding of deferred payroll expense	14,355,973.46	17,316,575.58
005	Staff welfare expenses	260,468,549.05	313,372,321.31
006	Less : Expenses transferred to Consultancy group	0.00	0.00
007		0.00	0.00
008	**Sub Total**	**2,412,958,736.92**	**2,431,265,467.35**
009	Less: Employee benefits expense inventorised	125,439,873.93	115,083,208.63
010	Less: Transferred/Allocated to development of coal mines	0.00	0.00
011		0.00	0.00
012	Less: Transferred to fly ash utilisation reserve fund	0.00	12,817,530.40
013	Less: Transferred to CSR Expenses	0.00	0.00
014	Reimbursements for employees on secondment	155,127.44	35,399.89
015	Less: Transferred to expenditure during construction period (net)- Note 43	15,415,329.04	0.00
016	**TOTAL**	**2,271,928,606.51**	**2,305,349,328.43**
017	**Managerial Remuneration paid/ payable to Directors included above (except for Directors fee which is included in Note 42)**	**0.00**	**0.00**
018	Salaries and wages	0.00	0.00
019	Contribution to provident and other funds	0.00	0.00
020	Staff welfare expenses	0.00	0.00
021	Directors fee	0.00	0.00
022		0.00	0.00
023		0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 40 TO THE FS--FINANCE COSTS

(Amount in ₹)

	For the Year ended	31.03.2020	31.03.2019
001	**FINANCE COSTS**	**0.00**	**0.00**
002	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
003	Bonds	489,539,135.48	643,002,124.87
004	Government of India Loans	0.00	0.00
005	Foreign currency term loans	-171,305.91	1,002,549.61
006	Rupee term loans	518,090,672.00	537,696,809.00
007	Public deposits	0.00	0.00
008	Foreign currency bonds/notes	0.00	0.00
009	Cash Credit	0.00	0.00
010	Unwinding of discount on account of vendor liabilities	2,489,056.00	9,792,104.35
011	Commercial Papers	0.00	0.00
012	Others	1,826,042.81	9,156,856.31
013	**Sub Total**	**1,011,573,600.38**	**1,200,651,444.14**
014	**Other Borrowing Costs**	**0.00**	**0.00**
015	Bonds servicing & public deposit exp	512,666.23	1,139,892.45
016	Guarantee fee	0.00	0.00
017	Management fee	0.00	0.00
018	Committ charges/exposure premium	0.00	0.00
019	Bond issue expenses	0.00	0.00
020	Legal exp on foreign currency loans	0.00	0.00
021	Foreign currency bonds/notes exp	0.00	0.00
022	Up-front fee	0.00	0.00
023	Insurance premium on foreign currency loans	0.00	0.00
024		0.00	0.00
025	Others	0.00	0.00
026	**Sub Total (Other Borrowing cost)**	**512,666.23**	**1,139,892.45**
027		0.00	0.00
028	**Exchange differences regarded as an adjustment to interest costs**	**2,290,060.00**	**0.00**
029	**Sub Total**	**1,014,376,326.61**	**1,201,991,336.59**
030	Less: Transferred to Expenditure during construction period (net) - Note 43	84,713,300.17	36,790,248.09
031	Less: Transferred to development of coal mines-Note 43A	0.00	0.00
032		0.00	0.00
033	**Total**	**929,663,026.44**	**1,165,201,088.50**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 41 TO THE FS--DEPRECIATION, AMORTIZATION AND IMPAIRMENT EXPENSE

(Amount in ₹)

	For the Year ended	31.03.2020	31.03.2019
001	**Depreciation, amortization and impairment expense**	**0.00**	**0.00**
002	On property, plant and equipment- Note 2	3,353,878,196.92	3,000,332,233.33
003	On intangible assets- Note 4	99,950,547.38	100,228,335.98
004	Sub-total	3,453,828,744.30	3,100,560,569.31
005	Less:	0.00	0.00
006	Inventorised	192,348,902.37	208,543,192.34
007	Transferred to Expenditure during Construction Period (net)- Note 43	0.00	0.00
008	Transferred/Allocated to development of coal mines	0.00	0.00
009	Adjustment with deferred revenue from deferred foreign currency fluctuation	19,640,000.00	21,003,000.00
010	**Total**	**3,241,839,841.93**	**2,871,014,376.97**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 42 TO THE FS--OTHER EXPENSE

(Amount in ₹)

	For the Year ended	31.03.2020	31.03.2019
001	**OTHER EXPENSES**	**0.00**	**0.00**
002	Power charges	78,981,156.25	63,130,089.33
003	Less: Recovered from contractors & employees	16,390,361.19	14,294,242.54
004	**Sub-Total(Power Charges)**	**62,590,795.06**	**48,835,856.79**
005	Water charges	20,162,112.88	28,257,179.00
006	Stores consumed	25,658,254.17	33,917,539.04
007	Rent	0.00	0.00
008	Less Recoveries	0.00	0.00
009	**Sub-Total (Rent)**	**0.00**	**0.00**
010	Cost of extraction of Captive coal	0.00	0.00
011	**Repairs & maintenance**	**0.00**	**0.00**
012	Buildings	79,075,286.32	137,525,922.45
013	Plant & machinery	0.00	0.00
014	Power stations	939,109,767.05	853,087,886.37
015	Construction equipment	75,894.13	29,803.44
016	Others	67,281,554.89	22,712,002.65
017	**Sub-total (Repairs & maintenance)**	**1,085,542,502.39**	**1,013,355,514.91**
019	Load Dispatch Center Charges	18,957,392.00	13,621,766.00
021	Insurance	51,178,597.07	44,196,196.23
022	Interest to beneficiaries	18,641,115.00	0.00
023	Rates and taxes	8,163,322.11	8,198,547.08
024	Water cess & environment protection cess	721,140.00	600,950.00
025	Training & recruitment expenses	11,192,679.46	8,545,620.46
026	Less: Receipts	0.00	0.00
027	**Sub-total (Training and recruitment expenses)**	**11,192,679.46**	**8,545,620.46**
028	Communication expenses	21,360,754.56	18,867,702.61
029	Inland Travel	74,030,276.51	69,297,573.78
030	Foreign Travel	1,964,239.54	399,833.37
031	Tender expenses	0.00	0.00
032	Less: Receipt from sale of tenders	63,393.00	105,614.00
033	**Sub-total (Tender expenses)**	**-63,393.00**	**-105,614.00**
034	Payment to auditors	0.00	0.00
035	Audit fee	0.00	0.00
036	Tax audit fee	0.00	0.00
037	Other services	0.00	0.00
038	Reimbursement of expenses	0.00	0.00
039	**Sub-total (Payment to Auditors)**	**0.00**	**0.00**
040	Advertisement and publicity	2,095,016.73	2,482,447.92
041	Electricity duty	0.00	0.00
042	Security expenses	292,850,889.85	264,652,653.70
043	Entertainment expenses	24,145,836.97	20,917,746.23
044	Expenses for guest house	18,708,652.45	18,241,704.66
045	Less Recoveries	13,000.00	16,000.00
046	**Sub-Total (Guest house expenses)**	**18,695,652.45**	**18,225,704.66**
047	Education expenses	61,202,222.51	[illegible]
049	Donations	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 42 TO THE FS:-OTHER EXPENSE

(Amount in ₹)

	For the Year ended	31.03.2020	31.03.2019
050	Ash utilisation & marketing expenses	42,628,371.31	35,406,682.64
051	Directors sitting fee	0.00	0.00
053	Professional charges and consultancy fees	2,135,834.85	2,645,962.91
054	Legal expenses	9,579,481.36	12,727,770.80
055	EDP hire and other charges	14,206,940.60	16,778,023.82
056	Printing and stationery	1,584,408.50	954,695.26
057	Oil & gas exploration expenses	0.00	0.00
059	Hiring of vehicles	15,008,434.78	23,313,200.34
061	Reimbursement of L.C.charges on sales realisation	0.00	0.00
062		0.00	0.00
063	Cost of Hedging	-2,898,221.00	-1,527,617.00
064	Derivatives MTM loss/gain (Net)	3,487,965.00	6,542,044.00
065	Net loss/(gain) in foreign currency transactions & translations	-25,991,521.70	-9,926,699.44
066	Transport Vehicle running expenses	9,558,244.92	10,023,162.92
067	Horticulture Expenses	20,419,145.67	17,929,880.42
068	Hire charges- helicopter/aircraft	0.00	0.00
069	Hire charges of construction equipment	0.00	0.00
070	Demurrage Charges	0.00	0.00
072		0.00	0.00
073	Miscellaneous expenses	12,204,604.29	14,865,224.33
074	Loss on disposal/write-off of PPE	45,791,347.48	109,975,417.05
075	**Sub-Total**	**1,947,999,342.32**	**1,890,828,338.39**
076	Less: Other expenses inventorised	142,957,390.90	138,360,711.14
077	Less: Transferred/Allocated to development of coal mines	0.00	0.00
078	Less: Transferred to fly ash utilisation reserve fund	42,628,371.31	40,247,781.54
079	Less: Hedging cost Net recoverable/payable from/to beneficiaries	3,487,965.00	6,542,044.00
080		0.00	0.00
081	Less: Transferred to CSR Expenses	59,628,639.00	42,438,738.00
082	Less Transferred to Expenditure during Construction period(-)Note 43	3,112,015.77	3,912,654.00
083	**Net (Generation, Administration and Other expenses)**	**1,596,184,960.34**	**1,659,226,409.71**
084	Corporate Social Responsibility Expenses	105,226,894.96	119,424,777.09
085	Less: Grants-in-aid	0.00	0.00
086	**Sub-total (Corporate Social Responsibility Expenses)**	**105,226,894.96**	**119,424,777.09**
087	**Provisions**	**0.00**	**0.00**
088	Doubtful Debts	0.00	0.00
089	Doubtful loans, advances and claims	49,706.00	0.00
090	Doubtful Construction Advances	0.00	0.00
091	Shortage in stores	30,381,453.54	594,713.00
092	Obsolete/Diminution in the value of surplus stores	774,786.51	[illegible]
093	Shortage in construction stores	0.00	0.00
094	Diminution in value of long term investments	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 42 TO THE FS--OTHER EXPENSE

[Amount in ₹]

	For the Year ended	31.03.2020	31.03.2019
095	Shortage in Fixed assets	0.00	-1,963,272.54
096	Unfinished minimum work progress from oil & gas exploration	0.00	0.00
097	Unserviceable capital works	0.00	0.00
098	Tariff Adjustment	9,225,000.00	0.00
099	Others :	0.00	0.00
100	(i) Provision for arbitration cases	1,010,522.00	1,807,781.00
101	(ii) Other provisions	0.00	0.00
102	**Total (Provisions)**	**41,441,448.55**	**5,233,027.32**
103		0.00	0.00
104	**Total**	**1,842,853,383.85**	**1,787,884,214.12**
105		0.00	0.00
106	**Breakup of miscellaneous expenses.**	**0.00**	**0.00**
109	Hire charges of office equipment	0.00	0.00
111	Operating expenses of construction equipment	0.00	0.00
112	Operating expenses of D.G. sets	842,759.80	591,579.71
113	Furnishing expenses	315,468.21	205,340.74
114	Subscription to trade and other associations	25,000.00	0.00
116	Visa and entry permit charges	0.00	0.00
117	Tree plantation exp.-NTPC Land	17,128.79	239,764.80
118	Research & development expenses	4,464.20	2,728,163.71
119	Less : Grants received for Research & develoment expenses	0.00	0.00
120	Sub-total (Research & development expenses)	4,464.20	2,728,163.71
121	Bank charges	647,196.26	234,759.69
122	Business Development Expenditure	0.00	0.00
123	Surcharge (NVVN)	0.00	0.00
124	Power Trading Expenses	236,000.00	1,404,212.00
125	Brokerage & commission	591,316.64	871,492.64
129	Books and periodicals	288,020.43	178,105.03
130	Claims/advances written off	0.00	0.00
131	Stores written off	0.00	0.00
132	Survey &Investigation expenses written off	0.00	0.00
133	Others	9,437,147.96	8,422,805.81
134	**Total**	**12,204,504.29**	**14,860,224.33**
135		0.00	0.00
136		0.00	0.00
137		0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 43 TO THE FS--EXPENDITURE DURING CONSTRUCTION PERIOD (NET) (Amount in ₹)

	For the Year ended	31.03.2020	31.03.2019
001	**EXPENDITURE DURING CONSTRUCTION PERIOD (NET)**	**0.00**	**0.00**
002	A. Employee benefits expense	0.00	0.00
003	Salaries and wages	12,277,545.80	0.00
004	Contribution to provident and other funds	1,096,453.04	0.00
005	Unwinding of deffered payroll expenses	0.00	0.00
006	Staff welfare expenses	2,041,330.20	0.00
007	**Total (A)**	**15,415,329.04**	**0.00**
008	**B. Finance Costs**	**0.00**	**0.00**
009	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
010	Bonds	29,148,913.87	21,618,316.54
011	Foreign currency term loans	-488,786.70	0.00
012	Rupee term loans	53,773,093.00	15,173,931.55
013	Foreign currency bonds/notes	0.00	0.00
014	Unwinding of discount on account of vendor liabilities	0.00	0.00
015	Others	0.00	0.00
016		0.00	0.00
017	Other Borrowings Costs	0.00	0.00
018	Guarantee Commission	0.00	0.00
019	Management Fees/Arrangers Fees	0.00	0.00
020	Commitment charges/Exposure Premium	0.00	0.00
021	Legal Expenses on foreign currency loans	0.00	0.00
022	Foreign currency bonds/notes expenses	0.00	0.00
023	Foreign Credit Insurance Premium	0.00	0.00
024	Upfront Fee	0.00	0.00
025	Exchange Differences	0.00	0.00
026	Others	0.00	0.00
027	Exchange differences regarded as adjustment to interest cost	2,290,060.00	0.00
028	**Total (B)**	**54,713,300.17**	**36,790,248.09**
029		0.00	0.00
030	C. Depreciation and amortisation	0.00	0.00
031	**D. Generation , administration and other expenses**	**0.00**	**0.00**
032	Power charges	1,948,558.00	0.00
033	Less: Recovered from contractors & employees	38,028.92	0.00
034	**Sub-total(Net power charges)**	**1,910,529.08**	**0.00**
035	Water charges	0.00	0.00
036	Rent	0.00	0.00
037	Repairs & maintenance	0.00	0.00
038	Buildings	0.00	0.00
039	Construction equipment	0.00	0.00
040	Others	597,828.00	3,912,654.00
041		0.00	0.00
042	Insurance	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 43 TO THE FS--EXPENDITURE DURING CONSTRUCTION PERIOD (NET) (Amount in ₹)

	For the Year ended	31.03.2020	31.03.2019
043	Rates and taxes	3,356.00	0.00
044	Communication expenses	133,186.14	0.00
045	Travelling expenses	415,118.11	0.00
046	Tender expenses	0.00	0.00
047	Less: Income from sale of tenders	0.00	0.00
048	**Sub-total (Net tender expenses)**	**0.00**	**0.00**
049	Advertisement and publicity	0.00	0.00
050	Security expenses	0.00	0.00
051	Entertainment expenses	47,697.00	0.00
052	Guest house expenses	0.00	0.00
053	Less: Receipt from guest house	0.00	0.00
054	**Sub-total (Net Guest House Expenses)**	**0.00**	**0.00**
055	Education expenses	0.00	0.00
056	Brokerage & Commisaion	0.00	0.00
057	Books and periodicals	0.00	0.00
058	Community development expenses	0.00	0.00
059	Professional charges and consultancy fee	0.00	0.00
060	Legal expenses	0.00	0.00
061	EDP Hire and other charges	0.00	0.00
062	Printing and stationery	0.00	0.00
063	Miscellaneous expenses	4,503.44	0.00
064	**Total (D)**	**3,112,015.77**	**3,912,654.00**
065	**Total (A+B+C+D)**	**103,240,844.98**	**40,702,902.09**
066	**E. Less: Other Income**	**0.00**	**0.00**
067	Interest from	0.00	0.00
068	Indian banks	0.00	0.00
069	Foreign banks	0.00	0.00
070	Others	0.00	0.00
071	Contractors	0.00	0.00
072	Hire charges	0.00	0.00
073	Sale of scrap	0.00	0.00
074	Exchange Differences	0.00	0.00
075	Miscellaneous Income	36,135.68	0.00
076	**TOTAL (E)**	**36,135.68**	**0.00**
077	F. Net actuarial gain/loss OCI	262,013.14	0.00
078		0.00	0.00
079	**GRAND TOTAL (A+B+C+D-E+F)**	**103,466,522.44**	**40,702,902.09**
080		0.00	0.00
081	*** Balance carried to Capital Work in progress - (Note 3)**	**103,466,522.44**	**40,702,902.09**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 43A TO THE FS–EDC- COAL MINING

(Amount in ₹)

	For the Year ended	31.03.2020	31.03.2019
001	**EDC - Coal Mining**	**0.00**	**0.00**
002	A. Employee benefits expense	0.00	0.00
003	Salaries and wages	0.00	0.00
004	Contribution to provident and other funds	0.00	0.00
005	Unwinding of deffered payroll expenses	0.00	0.00
006	Staff welfare expenses	0.00	0.00
007	**Total (A)**	**0.00**	**0.00**
008	**B. Finance Costs**	**0.00**	**0.00**
009	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
010	Bonds	0.00	0.00
011	Foreign currency term loans	0.00	0.00
012	Rupee term loans	0.00	0.00
013	Foreign currency bonds/notes	0.00	0.00
014	Unwinding of discount on account of vendor liabilities	0.00	0.00
015	Others	0.00	0.00
016		0.00	0.00
017	Other Borrowings Costs	0.00	0.00
018	Guarantee Commission	0.00	0.00
019	Management Fees/Arrangers Fees	0.00	0.00
020	Commitment charges/Exposure Premium	0.00	0.00
021	Legal Expenses on foreign currency loans	0.00	0.00
022	Foreign currency bonds/notes expenses	0.00	0.00
023	Foreign Credit Insurance Premium	0.00	0.00
024	Upfront Fee	0.00	0.00
025	Exchange Differences	0.00	0.00
026	Others	0.00	0.00
027	Exchange differences regarded as adjustment to interest cost	0.00	0.00
028	**Total (B)**	**0.00**	**0.00**
029		0.00	0.00
030	C. Depreciation and amortisation	0.00	0.00
031	**D. Generation , administration and other expenses**	**0.00**	**0.00**
032	Power charges	0.00	0.00
033	Less: Recovered from contractors & employees	0.00	0.00
034	**Sub-total(Net power charges)**	**0.00**	**0.00**
035	Water charges	0.00	0.00
036	Rent	0.00	0.00
037	Repairs & maintenance	0.00	0.00
038	Buildings	0.00	0.00
039	Construction equipment	0.00	0.00
040	Others	0.00	0.00
041	Cost of Captive Coal	0.00	0.00
042	Insurance	0.00	0.00
043	Rates and taxes	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 43A TO THE FS--EDC- COAL MINING

(Amount in ₹)

	For the Year ended	31.03.2020	31.03.2019
044	Communication expenses	0.00	0.00
045	Travelling expenses	0.00	0.00
046	Tender expenses	0.00	0.00
047	Less: Income from sale of tenders	0.00	0.00
048	**Sub-total (Net tender expenses)**	**0.00**	**0.00**
049	Advertisement and publicity	0.00	0.00
050	Security expenses	0.00	0.00
051	Entertainment expenses	0.00	0.00
052	Guest house expenses	0.00	0.00
053	Less: Receipt from guest house	0.00	0.00
054	**Sub-total (Net Guest House Expenses)**	**0.00**	**0.00**
055	Education expenses	0.00	0.00
056	Brokerage & Commission	0.00	0.00
057	Books and periodicals	0.00	0.00
058	Community development expenses	0.00	0.00
059	Professional charges and consultancy fee	0.00	0.00
060	Legal expenses	0.00	0.00
061	EDP Hire and other charges	0.00	0.00
062	Printing and stationery	0.00	0.00
063	Miscellaneous expenses	0.00	0.00
064	**Total (D)**	**0.00**	**0.00**
065	**Total (A+B+C+D)**	**0.00**	**0.00**
066	**E. Less: Other Income**	**0.00**	**0.00**
067	Interest from	0.00	0.00
068	Indian banks	0.00	0.00
069	Foreign banks	0.00	0.00
070	Others	0.00	0.00
071	Contractors	0.00	0.00
072	Hire charges	0.00	0.00
073	Sale of scrap	0.00	0.00
074	Exchange Differences	0.00	0.00
075	Miscellaneous income	0.00	0.00
076	**TOTAL (E)**	**0.00**	**0.00**
077	F. Net actuarial gain/loss OCI	0.00	0.00
078		0.00	0.00
079	**GRAND TOTAL (A+B+C+D-E+F)**	**0.00**	**0.00**
080		0.00	0.00
081	*** Balance carried to Capital Work-in-progress - (Note 3)**	**0.00**	**0.00**

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Reason: Approved
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 44-A TO THE FINANCIAL STATEMENTS

(Amount in ₹)

	As at	31.03.2020	31.03.2019
001	Balance sheet	0.00	0.00
002	Freehold land for which conveyancing of the title is awaiting completion of legal formalities	0.00	0.00
003	(a) area (in acres)	0.00	0.00
004	(b) value (in rs)	0.00	0.00
005	Right-of-use land for which execution of lease deed is awaiting completion of legal formalities	0.00	0.00
006	(a) area (in acres)	0.00	0.00
007	(b) value (in rs)	0.00	0.00
008	Right-of-use land acquired on perpetual lease and accordingly not amortised	0.00	0.00
009	(a) area (in acres)	0.00	0.00
010	(b) value (in rs.)	0.00	0.00
011	Land in physical possesession of the company which has not been shown in the books pending settlement of price (in acres)	0.00	0.00
012	Deposit with government authorities towards land in possession of the company included in cost of land which is subject to adjus	0.00	0.00
013	Land not in possession of the company	0.00	0.00
014	(a) area (in acres)	76.91	76.91
015	(b) value (in rs)	158,222,688.90	155,907,827.70
016	Right-of-use buildings pending completion of legal fomalities - value (in rs.)	0.00	0.00
017	Estimated amount of contracts remaining to be executed on capital account and not provided for	0.00	0.00
018	Property, plant & equipment	2,220,847,535.00	4,363,148,022.00
019	Intangible assets	0.00	0.00
020	Details of precommissioning expenditure	0.00	0.00
021	(a) precommissioning expenses	0.00	0.00
022	(b) precommissioning income	0.00	0.00
023	(c) net precommissioning expenditure	0.00	0.00
024	Impact due to change in Accounting policy :-	0.00	0.00
025	(a) Increase in profit/Decrease in depreciation for the year due to change in depreciation on RE assets (Competitive bidding)	0.00	0.00
026	(b) Decrease in profit due to the adjustment in grants recognized consequent to change in policy	0.00	0.00
027		0.00	0.00
028		0.00	0.00
029		0.00	0.00
030		0.00	0.00
031	Exchange rate variation taken to revenue during the year (with -ve sign, if favourable)	-41,906,182.79	-9,926,899.44
045	Exchange rate variation capitalised during the year (with -ve sign, if favourable)	-812,316.69	-5,038,351.75
050	Finance lease	0.00	0.00
051	A) obligations towards minimum lease payments	0.00	0.00
052	Not later than one year	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 44-A TO THE FINANCIAL STATEMENTS

(Amount in ₹)

	As at	31.03.2020	31.03.2019
053	Later than one year and not later than five years	0.00	0.00
054	Later than five years	0.00	0.00
055	**Total**	**0.00**	**0.00**
056	B) present value of (a) above	0.00	0.00
057	Not later than one year	0.00	0.00
058	Later than one year and not later than five years	0.00	0.00
059	Later than five years	0.00	0.00
060	**Total**	**0.00**	**0.00**
061	C) finance charges	0.00	0.00
062	Operating leases	0.00	0.00
063	A) rent	0.00	0.00
064	Company lease accomodation - executives	1,852,031.29	118,327.48
065	Company lease accomodation - directors	0.00	0.00
066	Others	0.00	0.00
067	**Total**	**1,852,031.29**	**118,327.48**
068	B) (i) receipts from sub-lease of office buildings	0.00	0.00
069	(ii) receipts from sub-lease of helicopter	0.00	0.00
070	Borrowing cost capitalised during the year	84,713,300.17	39,790,246.09
071	Revenue grants recognized during the year	0.00	0.00
072	Revenue expenditure on research and development	161,464.20	2,728,183.71
073	Capital expenditure on research and development	520,201.00	38,739,595.00
074		0.00	0.00
075	Expenditure on sustainbility development - capital	1,661,728.00	1,146,743.00
076	Expenditure on csr- capital	0.00	0.00
077	Csr amount spent during the year, yet to be paid in cash	3,587,503.00	0.00
078	Constn/acquisition of any asset	0.00	0.00
079	On purpose other than above	0.00	0.00
080		0.00	0.00
081		0.00	0.00
082	Disclosure under msmed act 2006	0.00	0.00
083	(i) (a) the principal amount remaining unpaid as at year end	230,019,040.46	172,416,677.29
084	(i) (b) interest due there on remaining unpaid as at Year end	0.00	0.00
085	(ii) the amount of interest paid by the buyer in terms of section 16, along with the amounts of the payment made to the supplier	0.00	0.00
086	(iii) the amount of interest due and payable for the period of delay in making payment(which has been paid but beyond the appoin	0.00	0.00
087	(iv) the amount of interest accrued and remaining unpaid at the end of the year; and	0.00	0.00
088	(v) the amount of further interest remaining due and payable even in the succeeding years, until such date when the interest due	0.00	0.00
111		0.00	0.00

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Reason: Approved (Financial)
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 44-A TO THE FINANCIAL STATEMENTS

(Amount in ₹)

	As at	31.03.2020	31.03.2019
112	Amount of inventories recognized as an expense (including fuel)	28,499,639,932.06	35,738,196,998.71
113	Amount of inventories capitalised as overhauling assets out of 112 above	71,200,717.51	32,844,885.32
114	Amount capitalised as edc out of 112 above	0.00	0.00
134		0.00	0.00
135	Contingent liabilities	0.00	0.00
136	A. Claims against the company not acknowledged as debts in respect of :	0.00	0.00
137	(i)Capital works	1,735,624,613.00	1,625,940,320.00
138	(ii)Land compensation cases	93,879,510.00	199,331,520.00
139	(iii)Others by state authorities towards:-	0.00	0.00
140	(a) Water royalty / water charges / nala tax	0.00	0.00
141	(b) Diversion of land / building permission fees	0.00	0.00
142	(c) Other demands by state authorities	0.00	0.00
143	(iv) Others by fuel companies	0.00	0.00
144	(a) Disputes related to grade slippage-third party sampling	1,712,342,618.00	3,461,233,221.00
145	(b) Surface transportation charges on coal	15,236,513.00	10,891,736.00
146	(c) Take or pay claim - Gas stations	0.00	0.00
147	(d) Other claims by fuel companies not acknowledged as debt	175,936,517.00	0.00
149	B.Disputed tax demands	0.00	0.00
150	(i) Income tax	0.00	0.00
151	(ii) Excise duty	0.00	0.00
152	(iii) Sales tax	90,845,620.00	82,887,264.00
153	(iv) Service tax	0.00	0.00
154	(v) Entry tax	31,635,152.00	26,769,124.00
155	C. Others	7,585,077.00	7,736,077.00
156	**Total**	**3,863,288,620.00**	**5,355,808,262.00**
157	D. Possible reimbursement on account of contingent liabilities	0.00	0.00
158	(i) Capital works	0.00	0.00
159	(ii)Land compensation cases	0.00	0.00
160	(iii)Others (by state authorities)	0.00	0.00
161		0.00	0.00
162	(iv) Others by fuel companies	1,727,579,131.00	3,412,124,957.00
163	(v) Disputed income tax demand	0.00	0.00
164	(vi) Disputed tax demands -others	0.00	0.00
165	(vii) Others	7,299,187.00	7,299,187.00
167	**Total**	**1,734,878,318.00**	**3,419,424,144.00**
168	E.AMOUNT PAID UNDER PROTEST/ADJUSTED BY AUTHORITIES - TAX CASES	0.00	14,905,010.00
169		0.00	0.00
170	F.CONTINGENT ASSETS	0.00	0.00
171		0.00	0.00
172		0.00	0.00
173		0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 44-A TO THE FINANCIAL STATEMENTS

(Amount in ₹)

	As at	31.03.2020	31.03.2019
175	Previous year figures have been regrouped/rearranged wherever necessary.	0.00	0.00

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NATIONAL CAPITAL POWER STATION

BALANCE SHEET

[Amount in ₹]

	As at	Note	31.03.2021	31.03.2020
001	ASSETS		0.00	0.00
002			0.00	0.00
003	**Non-Current Assets**		**0.00**	**0.00**
004	Property, plant and equipment	2	28,520,401,315.50	27,044,916,346.43
005	Capital Work-in-Progress	3	6,067,574,730.07	6,285,354,642.39
006	Intangible Assets	4	1,374,040,106.32	1,471,949,203.09
007	Intangible Assets under Development	5	0.00	0.00
008	**Financial Assets**		**0.00**	**0.00**
009	i) Investments in Subsidiaries and Joint Ventures	6	0.00	0.00
010	ii) Investments	7	0.00	0.00
011	iii) Trade receivables	8	0.00	0.00
012	iv) Loans	9	221,241,035.07	228,166,979.00
013	v) Other financial assets	10	0.00	0.00
014	Other non-current assets	11	195,606,733.82	201,625,628.48
015	**Total non-current assets**		**37,879,863,920.78**	**35,228,012,267.34**
016			**0.00**	**0.00**
017	**Current Assets**		**0.00**	**0.00**
018	Inventories	12	9,027,245,197.39	7,245,158,987.60
019	**Financial Assets**		**0.00**	**0.00**
020	i) Investments	13	0.00	0.00
021	ii) Trade receivables	14	0.00	0.00
022	iii) Cash and cash equivalents	15	128,715.00	624,503.03
023	iv) Bank balances other than cash and cash equivalents	16	0.00	0.00
024	v) Loans	17	112,979,862.56	116,130,287.44
025	vi) Other financial assets	18	63,484,343.02	6,161,129.15
026	Current Tax Assets (net)		0.00	0.00
027			0.00	0.00
028	Other Current Assets	19	8,542,623,907.10	4,642,797,782.44
029			**0.00**	**0.00**
030	**Total Current Assets**		**8,216,699,466.07**	**11,991,797,267.64**
031	Regulatory deferral account debit balances	20	196,639,248.42	473,847,125.74
032	**TOTAL ASSETS**		**46,293,072,635.28**	**47,693,656,660.69**
033	**EQUITY AND LIABILITIES**		**0.00**	**0.00**
034	**Equity**		**0.00**	**0.00**
035	Equity Share capital	21	0.00	0.00
036	Other equity	22	50,243,679,926.98	126,815,796,324.24
037	**Total equity**		**50,243,679,926.98**	**126,815,796,324.24**
038			0.00	0.00
039	**Liabilities**		**0.00**	**0.00**
040	**Non-Current Liabilities**		**0.00**	**0.00**
041	**Financial Liabilities**		**0.00**	**0.00**
042	i) Borrowings	23	0.00	0.00

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NATIONAL CAPITAL POWER STATION

BALANCE SHEET

(Amount in ₹)

	As at	Note	31.03.2021	31.03.2020
046	(i) Trade payables		0.00	0.00
047	- Total outstanding dues of micro and small enterprises	24	2,412,526.74	2,383,094.29
048	- Total outstanding dues of creditors other than micro and small enterprises	24	1,320,995.58	3,715,280.37
049	(c) Other financial liabilities	25	812,028.74	298,777.34
050	Provisions	26	0.00	0.00
051	Deferred Tax Liabilities (net)	27	0.00	0.00
052	Other non current liabilities	28	0.00	0.00
053			0.00	0.00
054	Total non current liabilities		5,775,350.06	5,916,152.70
055			0.00	0.00
056	Current Liabilities		0.00	0.00
057	Financial liabilities		0.00	0.00
058	(i) Borrowings	29	0.00	0.00
059	(ii) Trade Payables		0.00	0.00
060	- Total outstanding dues of micro and small enterprises	30	109,958,610.30	108,498,742.19
061	- Total outstanding dues of creditors other than micro and small enterprises	30	1,542,372,626.78	3,111,341,177.42
062	(c) Other financial liabilities	31	2,627,972,747.17	2,140,255,158.43
063	Other current liabilities	32	86,979,133.34	136,129,796.70
064	Provisions	33	23,136,888.28	23,041,288.31
065	Current tax liabilities (net)	34	0.00	0.00
066			0.00	0.00
067	Balance Total		4,746,999,179.33	5,519,317,976.74
068			0.00	0.00
069	Deferred Revenue	35	133,617,000.00	140,970,000.00
070	Regulatory deferral account credit balances	36	0.00	0.00
071	Net fixed Assets		45,976,910,844.28	47,897,804,087.56
072			0.00	0.00
073	TOTAL EQUITY AND LIABILITIES		46,192,517,299.38	47,514,576,496.74
074	Significant Accounting Policies as per Note 1	1	0.00	0.00
075			0.00	0.00
076	The accompanying notes 1 to 44 form an integral part of these financial statements.		0.00	0.00
077			0.00	0.00
078			0.00	0.00

(Auditor's Seal & Stamp)

(Head of Finance)

दिनेश सक्सेना
DINESH SAKSENA

(Head of Unit)

सी. शिवकुमार
C. SIVAKUMAR

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NATIONAL CAPITAL POWER STATION

STATEMENT OF PROFIT AND LOSS

[Amount in ₹]

	For the Year ended	Note	31.03.2021	31.03.2020
001	Revenue		0.00	0.00
002	Revenue from operations	37	23,198,249,444.12	[illegible]
003	Other income	38	419,241,421.40	[illegible]
005	Total Revenue		23,617,490,865.52	[illegible]
007	Expenses		0.00	0.00
009	Fuel including cost of captive coal	39A	14,315,323,600.60	[illegible]
009	Employee benefits expense	39	2,215,533,163.54	[illegible]
010	Electricity purchases for trading		0.00	0.00
011	Finance costs	40	344,791,753.05	[illegible]
012	Depreciation and amortisation expenses	41	2,059,348,301.74	[illegible]
013			0.00	- 0.00
014	Other expenses	42	1,994,336,108.92	[illegible]
016	CC expenses charge to revenue		542,917,220.35	[illegible]
016	Less: Unit expenses transferred to CC		79,491.27	0.00
017	Total expenses		23,738,389,452.66	[illegible]
020	Profit before exceptional items & tax		6,874,521,412.86	[illegible]
021	Exceptional items		0.00	0.00
024	Profit before tax		6,874,521,412.86	[illegible]
027	Tax expense:		0.00	0.00
028	Current tax		0.00	0.00
029	Deferred tax		0.00	0.00
030			0.00	0.00
031	Total Tax expense		0.00	0.00
032	Profit for the period before regulatory deferral account balances		6,874,521,412.86	[illegible]
033	Movement in regulatory deferral account balances		-2.86	2.86
034	Regulatory deferral account - deferred		0.00	0.00
035	Others		-14,662,108.00	[illegible]
036	Tax impact on Regulatory deferral account balances		0.00	0.00
037	Movement in Regulatory deferral account balances (Net of Tax)		-14,662,108.93	14,436,792.99
038	Profit for the period year		6,859,859,278.07	[illegible]
039	Other comprehensive income		0.00	0.00
040	(A) Items that will not be reclassified to profit or loss		0.00	0.00
041	- Net gains/(losses) on fair value of equity instruments through other comprehensive income		0.00	0.00
042	Income tax on items that will not be reclassified to profit or loss		0.00	0.00
044	- Net actuarial gains/(losses) on defined benefit plans		-10,858,367.77	[illegible]
046	Income tax on items that will not be reclassified to profit or loss		0.00	0.00

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NATIONAL CAPITAL POWER STATION

STATEMENT OF PROFIT AND LOSS

[Amount in ₹]

	For the Year ended	Note	31.03.2021	31.03.2020
[illegible]			[illegible]	[illegible]
[illegible]	Other comprehensive income for the year, net of income tax		[illegible]	[illegible]
[illegible]			[illegible]	[illegible]
[illegible]	Total Comprehensive Income for the year		[illegible]	[illegible]
[illegible]			[illegible]	[illegible]
[illegible]	Earnings per equity share:		[illegible]	[illegible]
[illegible]	Basic & Diluted		[illegible]	[illegible]
[illegible]	Significant Accounting Policies		[illegible]	[illegible]
[illegible]	Expenditure during construction period (Net/Cov. of cash inflows (refer 43 NCA)		[illegible]	[illegible]
[illegible]	The accompanying notes 1 to 44 form an integral part of these financial statements		[illegible]	[illegible]

(Auditor Initial & Stamp)

(Head of Finance)

(Head of Unit)

DINESH BAHGUNA

C. SIVAKUMAR

Group General Manager

Page 7 of 7

Note forming part of Balance Sheet
Note 2 : Property, Plant And Equipment
Business Area :1011

(Amount in Rupees)

Asset Class	Opening Gross Block As At 01.04.2020	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2021	Opening Depreciation As At 01.04.2020	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2021	Net Block As At 31.03.2021	Net Block As At 31.03.2020
1 TANGIBLE ASSETS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 Land : (excluding development expenses)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3 Freehold	1733603863.71	0.00	49100115.37	1782904079.08	0.00	0.00	0.00	0.00	1782904079.08	1733603863.71
4 Right of Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5 Submergence	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 Right of use - Coal Bearing Area Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7 Roads,bridges, culverts & helipads	361443748.77	0.00	0.00	361443748.77	84487270.24	14396253.97	0.00	98883564.21	262560184.56	276956478.53
8 Building :	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 Freehold	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10 Main plant	3155029131.51	0.00	0.00	3155029131.51	645641385.98	120994805.55	0.00	766636191.53	2388392939.98	2510387745.53
11 Others	787267580.93	0.00	4387104.48	791654705.41	190159969.85	36492336.16	0.00	226776306.01	564878399.40	596981611.01
12 Right of Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13 Temporary erection	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14 Water Supply, drainage & sewerage system	156520013.72	1096636.72	1339851.21	157320804.65	37027778.85	7722665.45	0.00	44750444.10	112573860.55	117492235.87
15 Hydraulic works, barrages, dams, tunnels and power channel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16 MGR track and signaling system	93186487.30	0.00	0.00	93186487.30	24610979.18	4008107.82	0.00	28619086.00	64567401.30	68575509.12
17 Railway siding	709757892.41	0.00	0.00	709757892.41	273033329.98	114793993.74	0.00	387827324.72	321930567.69	436724562.43
18 Earth dam reservoir	402144447.04	0.00	0.00	402144447.04	78727329.37	21127926.50	0.00	99854856.15	302289590.87	324417117.67
19 Plant and machinery(including associated civil works) Owned Asset	3791302390.77	691108651.87	2885767.21	4480027295.43	1309667731.63	274791408.98	(2985535.98)	1581473604.63	2898553690.80	2481634659.14

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Note forming part of Balance Sheet
Note 2 : Property, Plant And Equipment
Business Area :1011

(Amount in Rupees)

Asset Class	Opening Gross Block As At 01.04.2020	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2021	Opening Depreciation As At 01.04.2020	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2021	Net Block As At 31.03.2021	Net Block As At 31.03.2020
20 Plant and machinery(including associated civil works) -Right of use Asset	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21 Furniture and fixtures	200720384.83	0.00	9946514.36	209667199.19	70949478.39	1646936.11	1253399.02	90342272.52	119324926.67	130077906.44
22 Assets under 5 Yrs Scheme	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23 Vehicles including speedboats / helicopter - Owned	1000108.48	0.00	36280.24	1036388.73	618324.84	24619.70	29780.44	613131.03	364637.70	380783.64
24 Vehicles including speedboats / helicopter - Leased	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25 Office equipment	103584863.07	10494676.58	1011689.03	113169829.13	53534874.09	7995090.79	983492.86	61546227.74	51623601.39	50050189.54
26 EDP, WP machines and telecom equipment	85315140.84	16615309.32	(5713246.46)	76217212.70	54632949.84	8969267.38	(5713246.46)	57917964.96	18299246.14	30682200.16
27 Construction equipments	142543649.14	0.00	(9022930.30)	133772918.85	64785507.07	9047934.74	0.00	74334141.81	59438777.04	76058142.06
28 Electrical installations	205653836.75	1846364.23	(246550.02)	207253652.96	85551264.00	16812096.76	(100927.51)	102262433.25	122230799.65	140387568.67
29 Communication equipments	20627374.05	303833.00	(44944.00)	20887463.05	16062934.08	1066814.95	0.00	17129749.03	3757714.02	4564440.00
30 Hospital equipments	17339464.34	12337164.00	0.00	29676628.34	4551449.57	1124295.97	0.00	5675744.54	24000883.94	12788016.77
31 Laboratory and workshop equipments	9946188.38	0.00	0.00	9946188.38	1535693.06	542340.04	0.00	2078033.10	7868155.21	8411495.32
32 Capital expenditure on assets not owned by the Company	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33 Assets of Government	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Note forming part of Balance Sheet
Note 2 : Property, Plant And Equipment
Business Area :1011

(Amount in Rupees)

Asset Class	Opening Gross Block As At 01.04.2020	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2021	Opening Depreciation As At 01.04.2020	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2021	Net Block As At 31.03.2021	Net Block As At 31.03.2020
34 Less:Grants from Government	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35 Less: Recoverable from GOI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36 Assets for ash utilisation	150294730.39	116555.13	0.00	150411285.52	0.00	0.00	0.00	0.00	150411285.52	150294730.39
37 (Less): Adjusted from fly ash utilisation reserve fund	150294730.39	116555.13	0.00	150411285.52	0.00	0.00	0.00	0.00	150411285.52	150294730.39
38 Site Restoration Cost	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39 Mining Properties	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand Total (Tangible)	45483813777.60	705782429.64	85362436.11	45774483865.25	14939637431.25	3044280325.26	(2972940461)	17064162351.65	28820801313.60	31044176346.40
Grand Total Prev Year (Tangible)	44721746365.23	1305695195.09	(4665787.58)	45483813777.60	13925392938.23	3505878196.93	(4391634703.95)	14939637431.25	31044176346.40	32796352430.37

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Note forming part of Balance Sheet
Note 2 : Property, Plant And Equipment
Business Area :1011

(Amount in Rupees)

Details of Adjustments of Gross Block and Depreciation/Amortization				
Particulars	**Gross Block**		**Depreciation/Amortization**	
	Tangible As At: 31.03.2021	**Tangible As At: 31.03.2020**	**Tangible As At: 31.03.2021**	**Tangible As At: 31.03.2020**
Disposal of assets	(5607239.40)	(4345202.09)	(5607239.40)	(4345202.09)
Retirement of assets	(45930327.81)	(479955025.29)	(26020629.40)	(432886250.32)
Cost adjustments	132936683.81	440447512.52	0.00	0.00
Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Depreciation on construction equipment capitalised as EDC	0.00	0.00	0.00	0.00
Prior Period Depreciation due to Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Special Depreciation (As per New Policy)	0.00	0.00	0.00	0.00
Transfer in /out because of Inter Unit transfers	3668342.71	(3033072.80)	1602484.19	(2403251.54)
Others	0.00	0.00	0.00	0.00
TOTAL	**85367459.11**	**(46885767.66)**	**(29725404.61)**	**(439634703.95)**

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Note forming part of Balance Sheet
Note 3: Capital-Work-in-Progress
Business Area: NATIONAL CAPITAL POWER STATION

(Amount in Rupees)

Sl No	Asset Class	As At 01.04.2020	Addition	Deduction/ Adjustment	Capitalized	As At 31.03.2021
	1	2	3	4	5	6
1	CAPITAL WORK-IN-PROGRESS					
2	Development of land					
3	Roads, bridges, culverts & helipads		67734.26	(67734.26)		
4	Piling and foundation					
5	Buildings					
6	Main plant		1035808.64			1035808.64
7	Others		4207747.20	(4207124.48)		105622.72
8	Temporary erection					
9	Water supply, drainage and sewerage system		853511.78	(1052772.06)	1599639.72	
10	Hydraulic works, barrages, dams, tunnels and power channel					
11	MGR track and signalling system					
12	Railway siding					
13	Earth dam reservoir	3771196.93	45405576.75			49177772.78
14	Plant and equipment	5924372522.43	1460351711.14	(1327141507.76)	5648000339.83	5882627167.94
15	Furniture and fixtures	734600.03	1078108.84	(1321708.84)		487200.03
16	Vehicles					
17	Office equipment					
18	EDP/WP machines & allied equipment					
19	Construction equipments					
20	Electrical installations					
21	Communication equipment					
22	Hospital equipments					
23	Laboratory and workshop implements					
24	Assets under 90% Scheme of the GOI					
25	Capital expenditure on assets not owned by the company					
26	Expenditure towards development of coal mines					
27	Survey Investigation Consultancy & Supervision Chs					
28	Difference in exchange on foreign currency loans					

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Note forming part of Balance Sheet
Note 3: Capital-Work-in-Progress
Business Area: NATIONAL CAPITAL POWER STATION

(Amount in Rupees)

Sl No	Asset Class	As At 01.04.2020	Addition	Deduction/ Adjustment	Capitalized	As At 31.03.2021
	1	2	3	4	5	6
29	Expenditure towards diversion of forest land					
30	Pre-commissioning expenses (net)					
31	Exp/Rev/Allocation ex attributed Project					
32	Expenditure During Construction Period (net)*		144529907.03	(792207.00)		143737700.03
33	LESS: Allocated to related works		143737700.03			143737700.03
34	LESS: Provision for Unrecoverable works					
35	**Construction stores (At Cost)**					
36	Steel	9512246.13	1333869.43	(1618762.19)		9227353.37
37	Cement	2281905.88	2825512.00	(2705996.45)		2281421.43
38	Others	359515767.07	96360796.68	(174164425.05)		221991361.61
39	**Sub-total**	**361578921.03**	**60440091.11**	**(178679283.73)**		**233440126.41**
40	LESS: Provision for shortages					
41	**Sub-total**	**361578921.03**	**60440091.11**	**(178679283.73)**		**233440126.41**
42	**Total CWIP**	**6283354640.55**	**1581855597.02**	**(328447235.15)**	**556406179.35**	**6857374720.07**
43						
44						
45	**PREVIOUS YEAR TOTAL**	**3286217386.46**	**4649696241.91**	**(693234916.70)**	**922295967.54**	**6280394640.55**

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Note forming part of Balance Sheet
Note-4 Non Current Assets- Intangible Assets
Business Area :1011

(Amount in Rupees)

Asset Class	Opening Gross Block As At 01.04.2020	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2021	Opening Depreciation As At 01.04.2020	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2021	Net Block As At 31.03.2021	Net Block As At 31.03.2020
INTANGIBLE ASSETS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1 Right to Use-Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 Others	1971860852.66	0.00	0.00	1971860852.66	408558428.98	99654706.69	0.00	508721135.67	1373139716.99	1473304423.68
3 Software	1695972.83	1325857.00	0.00	3021779.83	1651132.83	470255.67	0.00	2121388.50	900391.33	44840.00
Grand Total (Intangible)	1973556825.49	1325857.00	0.00	1974882682.49	410207561.81	100124962.36	0.00	510842524.17	1374040158.32	1473349263.68
Grand Total Prev Year (Intangible)	1973556825.49	0.00	0.00	1973556825.49	400557014.43	9650547.38	0.00	410207561.81	1473349263.68	1572999811.06

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Note forming part of Balance Sheet
Note-4 Non Current Assets- Intangible Assets
Business Area :1011

(Amount in Rupees)

Details of Adjustments of Gross Block and Depreciation/Amortization				
Particulars	Gross Block		Depreciation/Amortization	
	InTangible As At: 31.03.2021	InTangible As At: 31.03.2020	InTangible As At: 31.03.2021	InTangible As At: 31.03.2020
Disposal of assets	0.00	0.00	0.00	0.00
Retirement of assets	0.00	0.00	0.00	0.00
Cost adjustments	0.00	0.00	0.00	0.00
Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Depreciation on construction equipment capitalised as EDC	0.00	0.00	0.00	0.00
Prior Period Depreciation due to Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Special Depreciation (As per New Policy)	0.00	0.00	0.00	0.00
Transfer in /out because of Inter Unit transfers	0.00	0.00	0.00	0.00
Others	0.00	0.00	0.00	0.00
TOTAL	**0.00**	**0.00**	**0.00**	**0.00**

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(Amount in Rupees)

Note forming part of Balance Sheet
Note 5: Intangible Assets under Development
Business Area: NATIONAL CAPITAL POWER STATION

Sl No	Asset Class	As At 01.04.2020	Addition	Deduction/ Adjustment	Capitalized	As At 31.03.2021
	1	2	3	4	5	6
1	INTANGIBLE ASSETS UNDER DEVELOPMENT					
2	Software					
3	Right to use-Others					
4	Exploration and Evaluation Expenditure - Coal Mine					
5	Exploratory wells-in-progress					
6	Less: Provision for exploratory wells-in-progress					
7	Total					
8	PREVIOUS YEAR TOTAL-I					

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NATIONAL CAPITAL POWER STATION

NOTE NO. 6 TO THE FS-NCA-INVESTMENTS IN SUBSIDIARIES & JOINT VENTURES

(Amount in ₹)

	As at	No. of shares	Face value	31.03.2021	31.03.2020
001	**NON CURRENT INVESTMENTS-Investments in subsidiaries and joint ventures**			0.00	0.00
012	**Equity Instruments - Unquoted-fully paid up unless otherwise stated, at cost)**			0.00	0.00
013	**Subsidiary Companies**			0.00	0.00
014	Patratu Vidyut Utpadan Nigam Ltd.			0.00	0.00
015	NTPC Electric Supply Company Ltd.			0.00	0.00
016	NTPC Vidyut Vyapar Nigam Ltd.			0.00	0.00
017	Aligarh Power Generating Company Ltd.			0.00	0.00
018	Kanti Bijlee Utpadan Nigam Ltd.			0.00	0.00
019	Bhartiya Rail Bijlee Company Ltd.			0.00	0.00
020	NTPC Mining Ltd.(NML)			0.00	0.00
021	THDC India Ltd.			0.00	0.00
022	NEEPCO LTD.			0.00	0.00
023	NTPC EDMC Waste Solutions Pvt Ltd			0.00	0.00
024	NTPC Renewables Energy Ltd			0.00	0.00
025	Ratnagiri Gas & Power Pvt. Limited (RGPPL)			0.00	0.00
026				0.00	0.00
027				0.00	0.00
028				0.00	0.00
029				0.00	0.00
030	**Sub Total**			**0.00**	**0.00**
039	**Joint Ventures Companies**			**0.00**	**0.00**
056	Utility Powertech Ltd			0.00	0.00
057	NTPC GE Power Services Pvt.Ltd			0.00	0.00
058	NTPC-Sail Power Company Ltd.			0.00	0.00
059	NTPC-Tamil Nadu Energy Company Ltd.			0.00	0.00
060	Ratnagiri Gas & Power Pvt. Limited (RGPPL)			0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 6 TO THE FS-NCA-INVESTMENTS IN SUBSIDIARIES & JOINT VENTURES

(Amount in ₹)

	As at	No. of shares	Face value	31.03.2021	31.03.2020
061	Aravali Power Company Private Ltd.			0.00	0.00
062				0.00	0.00
063	NTPC BHEL Power Projects Private Ltd.			0.00	0.00
064	Maa Urja Nigam Private Limited			0.00	0.00
065	BF-NTPC Energy Systems Ltd.			0.00	0.00
066				0.00	0.00
067	Nathpa Jhakri Power Generating Company Ltd.			0.00	0.00
068	Transformer and Electrical Kerala Ltd.			0.00	0.00
069	National High Power Test Laboratory Private Ltd.			0.00	0.00
070				0.00	0.00
071	CIL NTPC Urja Private Ltd.			0.00	0.00
072	Anushakti Vidhyut Nigam Ltd.			0.00	0.00
073	Energy Efficiency Services Ltd.			0.00	0.00
074				0.00	0.00
075	Trincomalee Power Company Ltd.			0.00	0.00
076	Bangladesh-India Friendship Power Company (Pvt.) Ltd.			0.00	0.00
077	Hindustan Urvarak & Rasayan Limited			0.00	0.00
078	Konkan LNG Ltd.			0.00	0.00
079				0.00	0.00
080	**Sub Total**			**0.00**	**0.00**
100	Aggregate amount of impairment in the value of investments			0.00	0.00
110	Total (net of impairment) of JV			0.00	0.00
111	Gross Total of Investments			0.00	0.00
104	Total			**0.00**	**0.00**
105	Owners of Investments			[illegible]	
106	Aggregate amount of Unquoted Investments			[illegible]	

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NATIONAL CAPITAL POWER STATION

NOTE NO. 6 TO THE FS-NCA-INVESTMENTS IN SUBSIDIARIES & JOINT VENTURES

(Amount in ₹)

	As at	No. of shares	Face value	31.03.2021	31.03.2020
141				0.00	0.00
142				0.00	0.00
143				0.00	0.00
144				0.00	0.00
145				0.00	0.00
153	Valuation of Investments as per Note 1			0.00	0.00
154				0.00	0.00
202				0.00	0.00
203				0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 7 TO THE FS-NCA-INVESTMENTS

(Amount in ₹)

	As at	No. of shares	Face value	31.03.2021	31.03.2020
001	Non-current financial assets (investments)			0.00	0.00
005	**Long Term - Trade**			**0.00**	**0.00**
007	**Equity Instruments (fully paid up unless otherwise stated)**			**0.00**	**0.00**
008	**Quoted**			**0.00**	**0.00**
009	**Joint Venture Companies**			**0.00**	**0.00**
010	PTC India Ltd.			0.00	0.00
070	International Coal Ventures Private Ltd.			0.00	0.00
079	BF-NTPC Energy Systems Ltd.			0.00	0.00
080				0.00	0.00
110	Cooperative Societies			0.00	0.00
111	**Sub Total**			**0.00**	**0.00**
112	Aggregate amount of impairment in the value of investments			0.00	0.00
113	**Total**			**0.00**	**0.00**
130				0.00	0.00
146	NTPC Employees Consumers and Thrift Co-operative Society Ltd. Korba			0.00	0.00
147	NTPC Employees Consumers and Thrift Cooperative Society Ltd. RSTPP			0.00	0.00
148	NTPC Employees Consumers Cooperative Society Ltd. Farakka			0.00	0.00
149	NTPC Employees Consumers Cooperative Society Ltd. Vindhyachal			0.00	0.00
150	NTPC Employees Consumers Cooperative Society Ltd. Anta			0.00	0.00
151	NTPC Employees Consumers Cooperative Society Ltd. Kawas			0.00	0.00
152	NTPC Employees Consumers Cooperative Society Ltd. Kakrha			0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 8 TO THE FS-NCA-TRADE RECEIVABLES

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	Non-current financial assets - Trade receivables	0.00	0.00
002	Unsecured, considered good	0.00	0.00
003	Credit impaired	0.00	0.00
004		0.00	0.00
005		0.00	0.00
006	**Total**	**0.00**	**0.00**

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Page 1 of 1

NATIONAL CAPITAL POWER STATION

NOTE NO. 9 TO THE FS-NCA-LOANS

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	**Loans (Non Current)**	**0.00**	**0.00**
004	Related Parties	0.00	0.00
005	Secured	0.00	0.00
006	Un-Secured	0.00	0.00
007	With significant increase in Credit Risk	0.00	0.00
008	Credit impaired	0.00	0.00
009		0.00	0.00
010	Employees(including accrued interest)	0.00	0.00
011	Secured	197,896,223.42	166,524,678.96
012	Unsecured	90,813,196.20	112,461,930.09
013	With significant increase in Credit Risk	0.00	0.00
014	Credit impaired	0.00	0.00
015	Less : Employee Loans Discounting	0.00	0.00
016	Secured	51,508,617.52	47,492,789.94
017	Unsecured	15,859,726.03	23,327,240.83
018	Loan to State Government in settlement of dues from customers (Unsecured)	0.00	0.00
019	Others	0.00	0.00
020	Secured	0.00	0.00
021	Unsecured	0.00	0.00
022	With significant increase in Credit Risk	0.00	0.00
023	Credit impaired	0.00	0.00
024	Less. Allowance for credit impaired loans	0.00	0.00
025	**Sub Total**	**221,241,078.07**	**208,166,578.28**
026		0.00	0.00
027	**Total**	**221,241,078.07**	**208,166,578.28**
028		0.00	0.00
029		0.00	0.00
030	**Due from Directors and Officers of the Company**	**0.00**	**0.00**
031	Directors	0.00	0.00
032	Officers	0.00	0.00
033		**0.00**	**0.00**
034	**Loans to related parties include:**	**0.00**	**0.00**
035	i)Key management personel	0.00	0.00
036	ii)Subsidiary companies	0.00	0.00
037	iii)Joint Venture companies	0.00	0.00
038	iv)Others	0.00	0.00
039		**0.00**	**0.00**
054	Other loans represent loans given to	0.00	0.00
055	a) APHC	0.00	0.00
060		0.00	0.00
061	RPD	0.00	0.00
062	i)Key management personel	0.00	0.00
063	ii)Subsidiary companies	0.00	0.00
064	iii)Joint Venture companies	0.00	0.00
065	iv)Others	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 9 TO THE FS-NCA-LOANS

(Amount in ₹)

	As at	31.03.2021	31.03.2020
068	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 10 TO THE FS-NCA-OTHER FINANCIAL ASSETS

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	**Other Financial Assets (non current)**	**0.00**	**0.00**
002		0.00	0.00
003	**Share application money pending allotment in (Subsidiary Companies) :**	**0.00**	**0.00**
004	NTPC Electric Supply Company Ltd.	0.00	0.00
005	NTPC Vidyut Vyapar Nigam Ltd.	0.00	0.00
006	Nabinagar Power Generating Company Ltd.	0.00	0.00
007	Kanti Bijlee Utpadan Nigam Ltd.	0.00	0.00
008	Bhartiya Rail Bijlee Company Ltd.	0.00	0.00
009	Patratu Vidyut Utpadan Nigam Ltd.	0.00	0.00
010	NTPC Mining Limited	0.00	0.00
011	THDC Ltd.	0.00	0.00
012	NEEPCO Ltd.	0.00	0.00
013		0.00	0.00
014	**Total**	**0.00**	**0.00**
015	**Share application money pending allotment (Joint Venture)**	**0.00**	**0.00**
016	Utility Powertech Ltd.	0.00	0.00
017	NTPC GE Power Services Pvt.Ltd.	0.00	0.00
018	NTPC-SAIL Power Company Ltd.	0.00	0.00
019	NTPC-Tamil Nadu Energy Company Ltd.	0.00	0.00
020	Ratnagiri Gas & Power Private Ltd.	0.00	0.00
021	Aravali Power Company Private Ltd.	0.00	0.00
022		0.00	0.00
023	NTPC BHEL Power Projects Private Ltd.	0.00	0.00
024	Meja Urja Nigam Private Limited	0.00	0.00
025	BF-NTPC Energy Systems Ltd.	0.00	0.00
026	Anushakti Vidhyut Nigam Ltd.	0.00	0.00
027	Nabinagar Power Generating Company Ltd.	0.00	0.00
028	Energy Efficiency Services Ltd.	0.00	0.00
029	National High Power Test Labortory Private Ltd.	0.00	0.00
030		0.00	0.00
031	CIL NTPC Urja Private Ltd.	0.00	0.00
032	Trincomalee Power Company Ltd.	0.00	0.00
033	Hindustan Urvarak & Rasayan Limited	0.00	0.00
034	Bangladesh-India Friendship Power Company Private Ltd.	0.00	0.00
035	**Sub Total**	**0.00**	**0.00**
036		0.00	0.00
037	Claims Recoverable	0.00	0.00
038	Finance Lease Receivable	0.00	0.00
039	Mine Closure Deposit	0.00	0.00
041	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 11 TO THE FS-NCA-OTHER NON-CURRENT ASSETS

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	**Other Non-current Assets**	**0.00**	**0.00**
002		**0.00**	**0.00**
003	**CAPITAL ADVANCES**	**0.00**	**0.00**
004	Secured	0.00	0.00
005	Unsecured	0.00	0.00
006	Covered by Bank Guarantee	126,289,452.42	46,873,388.93
007	Others	3,388,484.55	111,473,136.87
008	Considered doubtful	18,594,445.00	18,594,445.00
009	Less: Allowance for bad & doubtful advances	18,594,445.00	18,594,445.00
010	**Sub-Total**	**129,677,936.97**	**158,346,525.80**
011		0.00	0.00
012	Advances other than capital advances	0.00	0.00
013	Security deposits	2,880,000.00	0.00
019	Advances to Related parties	0.00	0.00
022	**Advances to Contractors & Suppliers**	**0.00**	**0.00**
023	Secured	0.00	0.00
024	Unsecured	0.00	0.00
025	Considered Doubtful	0.00	0.00
026	Less: Allowance for bad & doubtful advances	0.00	0.00
027	**Sub Total**	**2,880,000.00**	**0.00**
028	Receivable from MCP Escrow A/c	0.00	0.00
039	Advance tax & tax deducted at source	3,981,869.59	3,039,981.50
040	Less:- Provision for current tax	0.00	0.00
041		0.00	0.00
042	**Sub Total**	**3,981,869.59**	**3,039,981.50**
043	Deferred Payroll Expenses (Secured)	44,962,095.30	42,070,522.03
044	Deferred Payroll Expenses (Unsecured)	12,223,831.97	19,769,599.10
045	**Sub Total**	**57,185,927.27**	**61,840,721.13**
046	Deferred Foreign Currency Fluctuation Asset	1,000.00	1,000.00
048	**Total**	**193,526,733.83**	**223,228,228.43**
049		0.00	0.00
050		0.00	0.00
061	Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies	0.00	0.00
063		0.00	0.00
064	NTPC GE Power Services Pvt Ltd.	0.00	0.00
065		0.00	0.00
066	Ratnagiri Gas & Power Private Ltd.	0.00	0.00
067	Aravali Power Company Private Ltd.	0.00	0.00
068	NTPC-SCCL Global Ventures Private Ltd.	0.00	0.00
069	NTPC BHEL Power Projects Private Ltd.	0.00	0.00
070	Meja Urja Nigam Private Limited	0.00	0.00
071	Nabinagar Power Generating Company Ltd.	0.00	0.00
072	National High Power Test Labortory Private Ltd.	0.00	0.00
074	CIL NTPC Urja Private Ltd.	0.00	0.00
076		0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 11 TO THE FS-NCA-OTHER NON-CURRENT ASSETS

(Amount in ₹)

	As at	31.03.2021	31.03.2020
077	**Related Party (Adv)**	**0.00**	**0.00**
078	Key Management personel	0.00	0.00
079	Subsidiary companies	0.00	0.00
080	Joint Venture companies	0.00	0.00
081	Contractors	0.00	0.00
082	Others	0.00	0.00
084		0.00	0.00
085	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 12 TO THE FS-CA-INVENTORIES

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	**INVENTORIES**	**0.00**	**0.00**
002		**0.00**	**0.00**
003	Coal	1,281,548,988.29	5,139,165,754.07
004	Fuel oil	174,108,354.55	361,938,902.63
005	Naphtha	0.00	0.00
006	Stores and spares	1,455,539,967.56	1,349,309,221.77
007	Chemicals & consumables	196,039,717.16	102,382,585.31
008	Loose tools	8,098,495.86	8,026,768.72
009	Steel Scrap	2,340,854.93	2,266,913.48
010	Others*	389,421,662.52	372,478,768.79
011	**Sub Total**	**3,406,098,040.90**	**7,333,568,914.77**
012	Less: Provision for shortages	39,067,579.52	29,131,134.69
013	Less: Provision for obsolete/ unservicable/dimunition in value of surplus inventory	59,286,753.59	59,286,878.99
014		0.00	0.00
015	**Total**	**3,307,743,707.39**	**7,245,150,901.09**
016	**Inventories include material in transit**	**0.00**	**0.00**
017	Coal	0.00	313,273,179.32
018	Fuel oil	0.00	0.00
019	Naphtha	0.00	0.00
020	Stores and spares	12,798,126.46	2,714,830.16
021	Chemicals & consumables	972,000.00	1,734,671.60
022	Loose tools	0.00	0.00
023	Others	148,129.43	1,317,900.11
024		**0.00**	**0.00**
025	Inventory items other than steel scrap have been valued considering Note 1.	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 13 TO THE FS-CA-INVESTMENTS

(Amount in ₹)

	As at	No. of shares	Face value	31.03.2021	31.03.2020
001	CURRENT INVESTMENTS			0.00	0.00
002	(Valuation as per Note 1)			0.00	0.00
003				0.00	0.00
033	Investment in Mutual Funds (Details as under)			0.00	0.00
034	SBI Magnum Insta Cash Fund-DDR			0.00	0.00
035	SBI Premier Liquid Fund Super-IP-DDR			0.00	0.00
036	SBI-SHF Ultra Short Term Fund-IP-DDR			0.00	0.00
037	UTI Money Market- IP-Direct-Growth			0.00	0.00
038	ICICI-Liquid plan- Direct-Growth			0.00	0.00
039	Canara Robeco Liquid Fund Super-IP-DDR			0.00	0.00
040	Canara Robeco Treasury Advantage Fund Super-IP-DDR			0.00	0.00
041	ICICI Liquid Fund-DDR			0.00	0.00
042	SBI Premier Liquid fund Direct DDR (Ash Fund)			0.00	0.00
043	UTI Liquid Cash Plan - IP - DDR (Ash Funds)			0.00	0.00
044	ICICI Liquid Fund - DDR - (Ash Funds)			0.00	0.00
045	Baroda Liquid Fund - Direct - Growth			0.00	0.00
046	Sub Total			0.00	0.00
047				0.00	0.00
052	Unquoted Investments			0.00	0.00
054				0.00	0.00
055	TOTAL			0.00	0.00
057				0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 14 TO THE FS-CA-TRADE RECEIVABLES

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	**TRADE RECEIVABLES (current)***	**0.00**	**0.00**
002		0.00	0.00
003	Secured,Considered Good	0.00	0.00
004	Unsecured , considered good	0.00	0.00
005	Credit impaired	0.00	0.00
006	**Sub-Total**	**0.00**	**0.00**
007	**Total**	**0.00**	**0.00**
008	Less: Allowance for credit impaired receivables	0.00	0.00
009	**Total**	**0.00**	**0.00**
010	Less: Discom Clearing	0.00	0.00
012	**Grand Total**	**0.00**	**0.00**
013	* After adjustment for Unbilled Revenue	0.00	0.00
014	Long-term trade receivables	0.00	0.00
015	TCS Clearing	0.00	0.00
016	Discom Clearing	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 15 TO THE FS-CA-CASH AND CASH EQUIVALENTS

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	**CASH & BANK BALANCES**	**0.00**	**0.00**
002	**Cash & Cash Equivalents**	**0.00**	**0.00**
003	Balances with Banks	0.00	271,992.83
004	Cheques & Drafts on hand	0.00	0.00
005	Cash on hand	0.00	0.00
006	Others (stamps in hand)	128,755.00	157,642.00
007	Bank deposits with original maturity upto three months	0.00	0.00
008	Balances with RBI	0.00	0.00
009		0.00	0.00
010	**Total**	**128,755.00**	**429,634.83**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 16 TO THE FS-CA-BANK BALANCES OTHER THAN CASH AND CASH EQUIVALENTS (Amount in ₹)

	As at	31.03.2021	31.03.2020
001	**Other Bank Balances**	**0.00**	**0.00**
002	Deposits with original maturity of more than three months but not more than twelve months	0.00	0.00
003	Earmarked balances with banks*	0.00	0.00
004	**SubTotal**	**0.00**	**0.00**
005	Interest accrued on deposits	0.00	0.00
006		0.00	0.00
007	**Total**	**0.00**	[redacted]
008		0.00	0.00
009	**Earmarked balances with banks consist of :**	**0.00**	[redacted]
010	Unpaid dividend account balance	0.00	0.00
011	Towards public deposit repayment reserve	0.00	0.00
012	Towards redemption of bonds due for repayment within one year	0.00	0.00
013	Security with Government/other authorities	0.00	0.00
014	Unpaid refund/interest account balance - Tax free bonds/ Bonus Debentures	0.00	0.00
015	Earmarked for RGGVY/DDUGJY/SAUBHAGYA Fund	0.00	0.00
016	Earmarked for Flyash Utilisation Reserve Fund	0.00	0.00
017	Deposits with original maturity upto three months as per court orders	0.00	0.00
018	Payment Security Scheme of MNRE NSM (NTPC)	0.00	0.00
019	Payment Security Scheme of MNRE NSM (NVVN)	0.00	0.00
020	Enforcement Directorate of Solar Plant(NVVN)	0.00	0.00
021	Bank guarantee Fund of MNRE (NVVN)	0.00	0.00
022	Others	0.00	0.00
023		0.00	0.00
024		0.00	0.00
025		0.00	0.00
026	**Sub-total**	**0.00**	**0.00**
030	**Total**	**0.00**	**0.00**
031		0.00	0.00
032	Bank deposits with original maturity of less than three months- other than earmarked	0.00	0.00
033	Bank deposits with original maturity of more than three months but not more than twelve months- other than earmarked	0.00	0.00
034	Earmarked bank balances (current account)	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 17 TO THE FS-CA-LOANS

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	**Current financial assets - Loans**	**0.00**	**0.00**
002	**Loans (current) including interest accrued**	**0.00**	**0.00**
004	**Related Parties**	**0.00**	**0.00**
005	Secured	0.00	0.00
006	Un-Secured	0.00	0.00
007	With significant increase in Credit Risk	0.00	0.00
008	Credit impaired	0.00	0.00
009		**0.00**	**0.00**
010	**Employees**	**0.00**	**0.00**
011	Secured	40,415,720.79	39,134,434.46
012	Unsecured	72,559,961.79	72,985,852.99
013	With significant increase in Credit Risk	0.00	0.00
014	Credit impaired	0.00	0.00
015	Less : Employee Loans Discounting	0.00	0.00
016	**Loan to State Government in settlement of dues from customers (Unsecured)**	**0.00**	**0.00**
017		0.00	0.00
018	**Others**	**0.00**	**0.00**
019	Secured	0.00	0.00
020	Unsecured	0.00	0.00
021	With significant increase in Credit Risk	0.00	0.00
022	Credit impaired	0.00	0.00
023		**0.00**	**0.00**
024	Less: Allowance for credit impaired loans	0.00	0.00
025	**Total (Loans)**	**112,975,682.58**	**112,120,287.45**
026		**0.00**	**0.00**
027	**Due from Directors and Officers of the Company**	**0.00**	**0.00**
028	Directors	0.00	0.00
029	Officers	0.00	0.00
030		**0.00**	**0.00**
031	**Loans to related parties include:**	**0.00**	**0.00**
032	i)Key management personel	0.00	0.00
033	ii)Subsidiary companies	0.00	0.00
034	KBUNL	0.00	0.00
035	RGPPL	0.00	0.00
036	NVVN	0.00	0.00
037	iii)Joint Venture companies	0.00	0.00
038	iv)others	0.00	0.00
039		0.00	0.00
059	RPD	0.00	0.00
060	i)Key management personel	0.00	0.00
061	ii)Subsidiary companies	0.00	0.00
062	iii)Joint Venture companies	0.00	0.00
063	iv)Others	0.00	0.00
064		0.00	0.00
065	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 18 TO THE FS-CA-OTHER FINANCIAL ASSETS

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	**Other Financial Assets (current)**	**0.00**	**0.00**
002		0.00	0.00
003	**ADVANCES**	**0.00**	**0.00**
004		**0.00**	**0.00**
005	**Related Parties**	**0.00**	**0.00**
006	Secured	0.00	0.00
007	Un-Secured	-11,321,245.10	-32,171,592.85
008	Considered doubtful	0.00	0.00
009		**0.00**	**0.00**
010	**Employees**	**0.00**	**0.00**
012	Unsecured	3,971,858.22	5,271,605.17
013	Considered Doubtful	0.00	0.00
014		**0.00**	**0.00**
020	**Others**	**0.00**	**0.00**
021	Secured	0.00	0.00
022	Unsecured	-926,920.20	0.00
023	Considered Doubtful	0.00	0.00
024		**0.00**	**0.00**
025	Less: Allowance for bad & doubtful advances	0.00	0.00
026		**0.00**	**0.00**
033	**Total (Advances)**	**-8,276,307.08**	**-26,900,287.68**
044		**0.00**	**0.00**
045	**Claims Recoverable**	**0.00**	**0.00**
046	Secured	0.00	0.00
047	Unsecured, considered good	2,551,128.00	2,412,747.00
048	Considered Doubtful	375,353.48	0.00
049	Less - Allowance for doubtful claims	375,353.48	0.00
050	Others-Claims Recoverable	0.00	0.00
051		**0.00**	**0.00**
052	Unbilled Revenue	0.00	0.00
053	Hedging cost recoverable from beneficiaries	0.00	0.00
054	Derivative MTM Asset	0.00	0.00
055	Finance Lease Receivable	0.00	0.00
056	Mine Closure Deposit	0.00	0.00
057	**Other Accrued Income**	**0.00**	**0.00**
058	Secured,Considered Good	0.00	0.00
059	Unsecured , considered good	59,409,724.60	15,499,477.53
060	Credit impaired	0.00	0.00
061	Sub-Total	59,409,724.60	15,499,477.53
062	Less: Allowance for credit impaired receivables	0.00	0.00
063	**Total**	**0.00**	**0.00**
064		0.00	0.00
065	Others*	0.00	226,754.00
066	**Total**	**53,684,543.52**	**-8,761,309.15**
067	* Other include amount recoverable from contractors and other parties towards hire charges, rent/electricity etc.	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 18 TO THE FS-CA-OTHER FINANCIAL ASSETS

(Amount in ₹)

	As at	31.03.2021	31.03.2020
068	**Advances to related parties include:**	**0.00**	**0.00**
069	i)Key management personel	0.00	0.00
070	ii)Subsidiary companies	0.00	0.00
071	iii)Joint Venture companies	0.00	0.00
072	iv)Contractors	0.00	0.00
073	v)Others	0.00	0.00
074		**0.00**	**0.00**
075	Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies	0.00	0.00
076		**0.00**	**0.00**
077		0.00	0.00
078	NTPC GE Power Services Pvt.Ltd.	0.00	0.00
079	Ratnagiri Gas & Power Private Ltd.	0.00	0.00
080	Aravali Power Company Private Ltd.	0.00	0.00
081	NTPC-SCCL Global Ventures Private Ltd.	0.00	0.00
082	NTPC BHEL Power Projects Private Ltd.	0.00	0.00
083	Meja Urja Nigam Private Limited	0.00	0.00
084	Nabinagar Power Generating Company Ltd.	0.00	0.00
085	National High Power Test Labortory Private Ltd.	0.00	0.00
086	International Coal Ventures Private Ltd.	0.00	0.00
087	CIL NTPC Urja Private Ltd.	0.00	0.00
089	Bangladesh-India Friendship Power Co. Pvt Ltd	0.00	0.00
090	TCS Clearing	0.00	0.00
091	Related Party (Adv)- Employee	0.00	0.00
092	Related Party (Adv)- Subsidiaries	0.00	0.00
093	Related Party (Adv)- Joint Ventures	-5,892,096.00	-3,825,920.00
094	Related Party (Adv)- Contractors	0.00	0.00
095	Related Party (Adv)- Others	-5,429,149.10	-28,345,972.85
096		0.00	0.00
097		0.00	0.00
098		0.00	0.00
099		0.00	0.00
100	**Total**	**-11,321,245.10**	**-32,171,892.85**

NATIONAL CAPITAL POWER STATION

NOTE NO. 19 TO THE FS-CA-OTHER CURRENT ASSETS

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	**OTHER CURRENT ASSETS**	**0.00**	**0.00**
002	Security Deposits (Unsecured)	0.00	0.00
003	Deposit with Customs, port trust & others*	18,052,693.00	18,102,399.00
004	**ADVANCES**	**0.00**	**0.00**
005		**0.00**	**0.00**
006	**Related Parties**	**0.00**	**0.00**
007	Secured	0.00	0.00
008	Un-Secured	958,855,952.86	89,513,783.73
009	Considered doubtful	0.00	0.00
010		**0.00**	**0.00**
011	**Employees(including imprest)**	**0.00**	**0.00**
012	Secured	0.00	0.00
013	Unsecured	373,403.12	1,142,843.12
014	Considered Doubtful	0.00	0.00
015		**0.00**	**0.00**
016	**Contractors & Suppliers**	**0.00**	**0.00**
017	Secured	0.00	0.00
018	Unsecured	222,562,873.49	115,264,421.45
019	Considered Doubtful	0.00	49,706.00
020		0.00	0.00
021	**Others****	**0.00**	**0.00**
022	Secured	0.00	0.00
023	Unsecured	591,849.00	6,270,323.00
024	Considered Doubtful	0.00	0.00
025	Less: Allowance for bad & doubtful advances	0.00	49,706.00
026	Receivable from MCP Escrow A/c	0.00	0.00
027	Deferred Payroll Expenses (Secured)	5,901,986.74	6,137,120.40
028	Deferred Payroll Expenses (Unsecured)	5,490,066.13	5,555,962.74
029	**Sub-total**	**11,392,052.87**	**11,693,083.14**
030	**Interest accrued on :**	**0.00**	**0.00**
031	Advances to contractors	0.00	0.00
032		**0.00**	**0.00**
033	**Claims Recoverable**	**0.00**	**0.00**
034	Secured	0.00	0.00
035	Unsecured, considered good	3,528,767,179.70	4,424,396,368.55
036	Considered Doubtful	0.00	0.00
037	Less:- Allowance for doubtful claims	0.00	0.00
038		**0.00**	**0.00**
039	Deferred premium on forward exchange contract/ Option Assets	0.00	0.00
041	Assets Held for Disposal	2,065,443.40	2,065,443.40
042	Others	1,374,559.74	4,299,072.77
043		0.00	0.00
044	**Total (Other Current Assets)**	**4,742,025,807.18**	**4,642,767,738.56**
045	**Include Prepaid Expenses	591,849.00	[illegible]
046	*Includes sales tax/Entry tax/VAT deposited under protest with Sales Tax Authorities	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 19 TO THE FS-CA-OTHER CURRENT ASSETS

(Amount in ₹)

	As at	31.03.2021	31.03.2020
047	*Includes deposited with courts	0.00	0.00
048	*Includes deposited with LIC for annuity payments	0.00	0.00
049	* Includes deposits with WRD / against BG in r/o finance lease	0.00	0.00
050	Other include amount recoverable from contractors and other parties towards hire charges, rent/electricity etc.	0.00	0.00
052	**Advances to related parties include:**	**0.00**	**0.00**
053	i)Key management personel	0.00	0.00
054	ii)Subsidiary companies	0.00	0.00
055	iii)Joint Venture companies	0.00	0.00
056	Contractors	0.00	0.00
057	Others	0.00	0.00
058		0.00	0.00
059	Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies	0.00	0.00
060		**0.00**	**0.00**
061		0.00	0.00
062	Related Party (Adv)- Employee	0.00	0.00
063	Related Party (Adv)- Subsidiaries	0.00	0.00
064	Related Party (Adv)- Joint Venture	0.00	0.00
065	Related Party (Adv)- Contractors	958,585,154.86	59,147,467.73
066	Related Party (Adv)- Others	270,798.00	366,316.00
067	**Total**	**958,855,952.86**	**59,513,783.73**
068		0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 20 TO THE FS--REGULATORY DEFERRAL ACCOUNT DEBIT BALANCES

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	On account of Exchange Differences	-5,010,639.18	9,551,697.74
002	On account of employee benefit exp	404,045,489.00	404,045,489.00
003	Regulatory deferred account - deferred	0.00	0.00
004	Deferred asset for ash transportation	0.00	0.00
005	Deferred asset for Arbitration Award	0.00	0.00
006	**Total**	**399,034,849.82**	**413,597,186.74**

NATIONAL CAPITAL POWER STATION

NOTE NO. 21 TO THE FS-EQUITY-EQUITY SHARE CAPITAL

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	**SHARE CAPITAL**	**0.00**	**0.00**
002	**Equity Share Capital**	**0.00**	**0.00**
003	**Authorised**	**0.00**	**0.00**
004	10,000,000,000 equity shares of Rs 10/- each (Previous year 10,000,000,000 eq shares of Rs.10/- each)	0.00	0.00
005	**Issued,Subscribed and fully Paid-up**	**0.00**	**0.00**
006	9,69,66,66,134 equity shares of Rs.10/- (Pv. Year 9,894,557,280 equity shares of Rs.10/- each)	0.00	0.00
007		**0.00**	**0.00**
008	**Total**	**0.00**	**0.00**
009	During FY 2018-19, the company has issued 1,649,092,880 equity shares of Rs 10/- each as fully paid bonus shares	0.00	0.00
010	The holders of the equity shares are entitled to receive dividends as declared from time to time, and are entitled to one vote per share at meetings of the company.	0.00	0.00
011	Details of shareholders holding more than 5% shares in the company	0.00	0.00
012	- President of India	0.00	0.00
013	No. of Shares	0.00	0.00
014	% of holding	0.00	0.00
015	- Life Insurance Corporation of India/ICICI Prudential Mutual Fund	0.00	0.00
016	No. of Shares	0.00	0.00
017	% of holding	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 22 TO THE FS-EQUITY-OTHER EQUITY

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	RESERVE AND SURPLUS	0.00	0.00
002		**0.00**	**0.00**
003	**Capital Reserve**	**0.00**	**0.00**
004	As per last financial statements	0.00	0.00
006	Add : Grants received during the year	0.00	0.00
007	Add: Transfer from Surplus	0.00	0.00
008	Less: Write back during the year/period	0.00	0.00
009	Less: Adjustments during the year/period	0.00	0.00
010	**Sub-Total**	**0.00**	**0.00**
011	**Securities Premium Account**	**0.00**	**0.00**
012	As per last financial statements	0.00	0.00
013	Add: Additions during the year/period	0.00	0.00
014	Less: Adjustments during the year/period	0.00	0.00
015	**Sub-Total**	**0.00**	**0.00**
016	**Bonds Redemption Reserve**	**0.00**	**0.00**
017	As per last financial statements	0.00	0.00
018	Add: Transfer from Surplus	0.00	0.00
019	Less: Transfer to surplus on redemption	0.00	0.00
020	Less: Adjustments during the year/ period	0.00	0.00
021	**Sub-Total**	**0.00**	**0.00**
022	**Capital Redemption Reserve**	**0.00**	**0.00**
023	As per last financial statements	0.00	0.00
024	Add: Transfer from Surplus	0.00	0.00
025	Less: Transfer to surplus on redemption	0.00	0.00
026	Less: Adjustments during the year/ period	0.00	0.00
027	**Sub-Total**	**0.00**	**0.00**
028	**Share Application money Allotment**	**0.00**	**0.00**
029	As per last financial statements	0.00	0.00
030	Add: Addition during the year	0.00	0.00
031	Less: Utilised for allotment during the year	0.00	0.00
032	Less: Adjustments during the year/ period	0.00	0.00
033	**Sub-Total**	**0.00**	**0.00**
034	**Fly-ash utilisation reserve Fund**	**0.00**	**0.00**
035	As per last financial statements	2,227,873,695.77	1,757,423,165.00
036	Transferred to CC	0.00	0.00
037	Add:Transfer from revenue from operations	300,343,513.16	470,450,530.77
038	Add:Transfer from other income	0.00	0.00
039	Less: Utilised during the year	0.00	0.00
040	Tangible assets	0.00	0.00
041	Employee benefit expenses	0.00	0.00
042	Generation,admin. and other expenses	0.00	0.00
043	Tax Expenses	0.00	0.00
044	**Sub-Total**	**2,528,217,208.93**	**2,227,873,695.77**
045	**Special allowance Reserve Fund**	**0.00**	**0.00**
046	As per last financial statements	0.00	0.00
047	Add: Addition during the year	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 22 TO THE FS-EQUITY-OTHER EQUITY

(Amount in ₹)

	As at	31.03.2021	31.03.2020
048	Less: Utilised for allotment during the year	0.00	0.00
049	Less: Adjustments during the year/ period	0.00	0.00
050	**SUB-TOTAL**	**0.00**	**0.00**
053	**Corporate social responsibility (CSR) reserve**	**0.00**	**0.00**
054	As per last financial statements	0.00	0.00
055	Add : Transfer from surplus	0.00	0.00
056	Less :Write back during the year	0.00	0.00
057	**Sub-Total**	**0.00**	**0.00**
058	**General Reserve**	**0.00**	**0.00**
059	As per last financial statements	0.00	0.00
060	Add: Transfer from Surplus	0.00	0.00
061	Less: Transfer to Surplus	0.00	0.00
062	Less: Write back during the year /period	0.00	0.00
063	Less: Adjustments during the year /period	0.00	0.00
064	**Sub-Total**	**0.00**	**0.00**
065		**0.00**	**0.00**
066	**Retained earnings**	**0.00**	**0.00**
067	As per last financial statements	124,824,944,747.37	116,766,802,136.66
068	Add(Less) :Changes in accounting policy / prior period errors	0.00	0.00
069	Add(Less) :Profit (Loss) after tax for the year from Statement of Profit & Loss	6,859,859,076.01	8,058,142,610.71
070		0.00	0.00
071	Add: Write back from Bond Redemption Reserve	0.00	0.00
072	Add: Write back from Capital Reserve	0.00	0.00
073	Add: Write back from Foreign Project Reserve	0.00	0.00
074	Add: Write back from CSR Reserve	0.00	0.00
075	Add: Write back from General Reserve	0.00	0.00
076	Less: Transfer to Bonds Redemption Reserve	0.00	0.00
077	Less: Transfer to Special Allowance Reserve Fund	0.00	0.00
078	Less: Transfer to Foreign Project Reserve	0.00	0.00
080	Less:Transfer to Capital Reserve	0.00	0.00
081	Less:Transfer to CSR Reserve	0.00	0.00
082	Less:Transfer to General Reserve	0.00	0.00
083	Less:Interim Dividend Paid	0.00	0.00
084	Less:Tax on Interim Dividend Paid	0.00	0.00
085	Less:Final Dividend Paid	0.00	0.00
086	Less:Tax on Final Dividend Paid	0.00	0.00
087	Less: Issue of bonus debenture	0.00	0.00
088	Less: Tax on issue of bonus debenture	0.00	0.00
089	**Sub-Total**	**131,684,803,823.38**	**124,824,944,747.37**
090		0.00	0.00
091	**Remeasurement of defined benefit plans**	**0.00**	**0.00**
092	As per last financial statements	-234,052,115.90	-158,421,086.17
093	Add(Less) :- Actuarial Gains/loss through OCI	-35,893,389.77	[illegible]
094	**Sub-Total**	**-269,945,505.67**	**-234,[illegible]115.90**
095		0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 22 TO THE FS-EQUITY-OTHER EQUITY

(Amount in ₹)

	As at	31.03.2021	31.03.2020
096	**FVTOCI Reserve**	**0.00**	**0.00**
097	As per last financial statements	0.00	0.00
098	Add(Less) -Net gain/loss of equity instruments through OCI	0.00	0.00
099	**Sub-Total**	**0.00**	**0.00**
100		**0.00**	**0.00**
101	**Total Other equity**	**133,943,075,526.84**	**128,818,766,324.24**
102		0.00	0.00

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Page 3 of 3

NATIONAL CAPITAL POWER STATION

NOTE NO. 23 TO THE FS-NCL-BORROWINGS

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	**LONG TERM BORROWINGS**	**0.00**	**0.00**
002	**Bonds**	**0.00**	**0.00**
003	**Secured**	**0.00**	**0.00**
004	7.37 %. Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2035 (Fifty Sixth Issue - Public Issue - Series 3A).	0.00	0.00
005	7.62 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2035 (Fifty Sixth Issue - Public Issue - Series 3 B).	0.00	0.00
006	8.61% Tax free secured non-cumulative non-convertible redeemable bonds of ₹ 10,00,000/- each redeemable at par in full on 4th March 2034 (Fifty First Issue C - Private Placement)	0.00	0.00
007	8.66% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2033 (Fiftieth Issue - Public Issue - Series 3A)	0.00	0.00
008	8.91% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2033 (Fiftieth Issue - Public Issue - Series 3B)	0.00	0.00
009	7.37% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 14th December 2031 (Sixty Sixth Issue - Private Placement)	0.00	0.00
010	7.49% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 7th November 2031 (Sixty Fourth Issue - Private Placement)	0.00	0.00
011	7.28 %. Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2030 (Fifty Sixth Issue - Public Issue - Series	0.00	0.00

NOTE NO. 23 TO THE FS-NCL-BORROWINGS

[Amount in ₹]

	As at	31.03.2021	31.03.2020
	2A)		
012	7.53 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2030 (Fifty Sixth Issue - Public Issue - Series 2 B).	0.00	0.00
013	7.32% Secured non-cumulative non-convertible redeemable taxable bonds of Rs 10,00,000/- each redeemable at par in full on 17 July 2029 (Sixty Ninth Issue - Private Placement)	0.00	0.00
014	8.63% Tax free secured non-cumulative non-convertible redeemable bonds of ₹ 10,00,000/- each redeemable at par in full on 4th March 2029 (Fifty First Issue B - Private Placement)	0.00	0.00
015	8.30% Secured non-cumulative non-convertible redeemable taxable bonds of Rs 10,00,000/- each redeemable at par in full on 15 January 2029 (Sixty Seventh Issue - Private Placement)	0.00	0.00
016	8.48% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2028 (Fiftieth Issue - Public Issue - Series 2A)	0.00	0.00
017	8.73% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2028 (Fiftieth Issue - Public Issue - Series 2B)	0.00	0.00
018	7.47% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 16th September 2026 (Sixty Third Issue - Private Placement)	0.00	0.00
019	7.58% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in	0.00	0.00

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(Amount in ₹)

	As at	31.03.2021	31.03.2020
	full on 23rd August 2026 (Sixty Second Issue - Private Placement)		
020	8.05% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 5th May 2026 (Sixtieth Issue - Private Placement)	0.00	0.00
021	8.19% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 15th December 2025 (Fifty Seventh Issue - Private Placement)	0.00	0.00
022	7.11 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2025 (Fifty Sixth Issue - Public Issue - Series 1A).	0.00	0.00
023	7.36 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2025 (Fifty Sixth Issue - Public Issue - Series 1 B).	0.00	0.00
024	7.15% Tax free secured non-cumulative non-convertible redeemable bonds - 2015 of Rs. 10,00,000/- each redeemable at par in full on 21st August 2025 (Fifty Fifth Issue - Private Placement)	0.00	0.00
025	9.17% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 22nd September 2024 (53rd Issue - private placement).	0.00	0.00
026	9.34% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 24th March 2024 (Fifty Second Issue - private placement)	0.00	0.00
027	8.19% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 10,00,000/- each redeemable at	0.00	0.00

	As at	31.03.2021	31.03.2020
	par in full on 4th March 2024 (Fifty First Issue A - Private Placement)		
028	8.41% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2023 (Fiftieth Issue - Public Issue - Series 1A)	0.00	0.00
029	8.66% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2023 (Fiftieth Issue - Public Issue - Series 1B)	0.00	0.00
030	9.25% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each with five equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 11th year and in annual installments thereafter upto the end of 15th year respectively commencing from 4th May 2023 and ending on 4th May 2027. (Forty fourth issue - private placement)VII	0.00	0.00
031	8.48% Secured non-cumulative non-nonvertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 1st May 2023 (Seventeenth issue - private placement)I	0.00	0.00
032	8.80% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 4th April 2023 (Forty ninth issue -private placement	0.00	0.00
033	8.49% Secured non-cumulative non-convertible redeemable taxable fully paid-up bonus debentures of Rs. 12.50 each redeemable at par in three annual installments of Rs. 2.50, Rs. 5.00 and Rs. 5.00 at the end of 8th year, 9th year and 10th year on 25th March 2023, 25th March 2024 and 25th March 2025 respectively (Fifty Fourth Issue -Bonus Debentures)X - (refer Note 5 d)	0.00	0.00
034	8.73% Secured non-cumulative	0.00	0.00

(Amount in ₹)

	As at	31.03.2021	31.03.2020
	non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 07th March 2023 (Forty eighth issue - private placement)		
035	9.00% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each with five equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 11th year and in annual installments thereafter upto the end of 15th year respectively commencing from 25th January 2021 and ending on 25th January 2027 (Forty second issue- private placement)III	0.00	0.00
036	8.84% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 4th October 2022 (Forty seventh issue- private placement)VII	0.00	0.00
037	7.93% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 03 May 2022 (60th Issue - Private Placement)	0.00	0.00
038	6.72% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 24th November 2021 (Sixty Fifth Issue - Private Placement)	0.00	0.00
039	8.10% Secured Non-Cumulative Non-Convertible Redeemable Taxable Bonds of Rs. 30,00,000/- each redeemable at par in three equal separately transferable redeemable principal parts (STRPP) at the end of 5th year, 10th year & 15th year on 27th May 2021, 27th May 2026 and 27th May 2031 respectively (Sixty First Issue- Private Placement)	0.00	0.00
040	8.33% Secured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in full on 24th February 2021	0.00	0.00

(Amount in ₹)

	As at	31.03.2021	31.03.2020
	(Fifty Ninth Issue - Private Placement).		
042	8.93% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 19th January 2021 Thirty seventh issue - private placement)III	0.00	0.00
043	8.18% Secured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in full on 31st December 2020 (Fifty Eight Issue - Private Placement).	0.00	0.00
044	8.73 % Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 31st March 2020 (Thirty third issue- private placement)III	0.00	0.00
045	8.78 % Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 9th March 2020 (Thirty first issue- private placement)III	0.00	0.00
046	11.25% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in five equal annual installments commencing from 6th Nov 2019 and ending on 6th Nov 2023 (Twenty seventh issue - private placement)III	0.00	0.00
047	7.89% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 5th May 2019 (Thirtieth issue - private placement)III	0.00	0.00
048	8.65% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 4th February 2019 (Twenty ninth issue - private placement)III	0.00	0.00
049	7.50% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full	0.00	0.00

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(Amount in ₹)

	As at	31.03.2021	31.03.2020
	on 12th January 2019 (Nineteenth issue - private placement)II		
050	11% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 21st November 2018 (Twenty eighth issue - private placement)III	0.00	0.00
051	9.3473% Secured non-cumulative non-convertible redeemable taxable bonds of ₹15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 20th July 2018 and ending on 20th July 2032 (Forty sixth issue - private placement)VII	0.00	0.00
052	9.4376% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 16th May 2018 and ending on 16th May 2032 (Forty fifth issue - private placement)VII	0.00	0.00
053	8.00% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 10th April 2018 (Sixteenth issue -private placement)II	0.00	0.00
054	9.2573% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 2nd March 2018 and ending on 2nd March 2032 (Forty third issue - private placement)III	0.00	0.00
055	9.6713% Secured non-cumulatove non-convertible redeemable taxable bonds	0.00	0.00

(Amount in ₹)

	As at	31.03.2021	31.03.2020
	of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 23rd December 2017 and ending on 23rd December 2031 (Forty first issue - private placement)III		
056	9.558% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 29th July 2017 and ending on 29th July 2031(Fourtieth issue-private placement)III	0.00	0.00
057	9.3896% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 9th June 2017 and ending on 9th June 2031(Thirty ninth issue-private placement)III	0.00	0.00
058	9.17% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 22nd March 2017 and ending on 22nd March 2031(Thirty eighth issue-private placement)III	0.00	0.00
059	8.8086% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th	0.00	0.00

(Amount in ₹)

	As at	31.03.2021	31.03.2020
	year and in annual installments thereafter upto the end of 20th year respectively commencing from 15th December 2016 and ending on 15th December 2030 (Thirty sixth issue - private placement)III		
060	8.785% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 15th September 2016 and ending on 15th September 2030 (Thirty fifth issue - private placement)III	0.00	0.00
061	8.71% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 10th June 2016 and ending on 10th June 2030 (Thirty fourth issue - private placement)III	0.00	0.00
062	8.8493% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 25th March 2016 and ending on 25th March 2030 (Thirty second issue - private placement)III	0.00	0.00
063	9.37% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 70,00,000/- each with fourteen separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 4th June 2012 and ending on 4th December 2018 (Twenty fifth issue -	0.00	0.00

(Amount in ₹)

	As at	31.03.2021	31.03.2020
	private placement)III		
065	9.06% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 70,00,000/- each with fourteen separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 4th June 2012 and ending on 4th December 2018 (Twenty sixth issue - private placement)III	0.00	0.00
066	8.6077% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 9th September 2011 and ending on 9th March 2021 (Twenty fourth issue - private placement)IV	0.00	0.00
067	8.3796% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 5th August 2011 and ending on 5th February 2021 (Twenty third issue - private placement)IV	0.00	0.00
068	8.1771% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 2nd July 2011 and ending on 2nd January 2021 (Twenty second issue - private placement)IV	0.00	0.00
069	7.7125% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 2nd August 2010 and ending on 2nd February 2020 (Twenty first issue - private placement)IV	0.00	0.00
070	7.552% Secured non-cumulative non-convertible redeemable taxable bonds	0.00	0.00

(Amount in ₹)

	As at	31.03.2021	31.03.2020
	of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 23rd September 2009 and ending on 23rd March 2019 (Twentieth issue - private placement)VI		
071	9.55% Secured non-cumulative non-convertible taxable redeemable bonds of ₹ 10,00,000/- each with ten equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of the 6th year and in annual installments thereafter upto the end of 15th year respectively from 30th April 2002 (Thirteenth issue - Part B - private placement)VIII	0.00	0.00
072	9.55% Secured non-cumulative non-convertible taxable redeemable bonds of ₹ 10,00,000/- each redeemable at par in ten equal annual installments commencing from the end of 6th year and upto the end of 15th year respectively from 18th April 2002 (Thirteenth issue -Part A - private placement)VIII	0.00	0.00
073		0.00	0.00
074		0.00	0.00
075		0.00	0.00
076		0.00	0.00
077	**Sub Total**	**0.00**	**0.00**
078	**Unsecured**	**0.00**	**0.00**
079	6.55% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 17 April 2023 (Seventieth issue - Private Placement)	0.00	0.00
080	6.29% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 11 April 2031 (Seventy First issue - Private Placement)	0.00	0.00
081	5.45% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 15 October 2025 (Seventy Second issue - Private Placement)	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 23 TO THE FS-NCL-BORROWINGS

(Amount in ₹)

	As at	31.03.2021	31.03.2020
082	6.43% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 27 January 2031 (Seventy Third Issue - Private Placement)	0.00	0.00
083		0.00	0.00
084		0.00	0.00
085		0.00	0.00
086	**Sub-total**	**0.00**	**0.00**
087	**Total**	**0.00**	**0.00**
088	**Foreign Currency Notes-Unsecured**	**0.00**	**0.00**
089	4.50% Fixed Rate Notes Due for repayment on 19th March 2028	0.00	0.00
090	2.75% Fixed rate notes due for repayment on 1st February 2027	0.00	0.00
091	4.25 % Fixed rate notes due for repayment on 26th February 2026	0.00	0.00
092	4.375% Fixed Rate Note due for repayment on 26th November 2024	0.00	0.00
093	4.75 % Fixed Rate Notes due for repayment on 3rd Oct 2022	0.00	0.00
094	7.25 % Fixed green global INR denominated bonds due on 3 May 2022	0.00	0.00
095	7.375 % Fixed green global INR denominated bonds due on 10 August 2021	0.00	0.00
096	5.625% Fixed Rate Notes due for repayment on 14th July 2021	0.00	0.00
097	3.75 % Fixed rate notes due for repayment on 03 April 2024	0.00	0.00
098		0.00	0.00
099		0.00	0.00
100		0.00	0.00
101		0.00	0.00
102	**Sub Total**	**0.00**	**0.00**
103	Long term maturities of Finance Lease Obligations (Secured) IX	0.00	0.00
104	Long term maturities of Finance Lease Obligations (Unsecured) X	0.00	0.00
105	**Term Loans**	**0.00**	**0.00**
106	**From Banks**	**0.00**	**0.00**
107	**Secured**	**0.00**	**0.00**
108	**Rupee Loans**	0.00	0.00
109	**Unsecured**	**0.00**	**0.00**
110	Foreign Currency Loans	0.00	0.00
111	Rupee Loans	0.00	0.00
112	**From Others**	**0.00**	**0.00**
113	**Secured**	**0.00**	**0.00**
114	**Rupee Loans**	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 23 TO THE FS-NCL-BORROWINGS

(Amount in ₹)

	As at	31.03.2021	31.03.2020
115	Foreign Currency loans (guaranteed by GOI)	0.00	0.00
116	**Unsecured**	**0.00**	**0.00**
117	Foreign Currency loans (guaranteed by GOI)	0.00	0.00
118	Other Foreign currency loans	0.00	0.00
119	Rupee Loans	0.00	0.00
120	**Deposits**	**0.00**	**0.00**
121	**Unsecured**	**0.00**	**0.00**
122	Fixed Deposits	0.00	0.00
123	**Others**	**0.00**	**0.00**
124	**Unsecured**	**0.00**	**0.00**
125	Bonds Application Money Pending Allotment	0.00	0.00
126	**Sub-total**	**0.00**	**0.00**
127	**Total**	**0.00**	**0.00**
128		0.00	0.00
129	Less:- Interst accrued but not due on borrowings	0.00	0.00
130	Less:- Current maturities of long term borrowings	0.00	0.00
131	Bonds-Secured	0.00	0.00
132	Fixed Rate Notes	0.00	0.00
133	Foreign currency loans from Banks- unsecured	0.00	0.00
134	Rupee loans from banks- Secured	0.00	0.00
135	Rupee loans from banks- unsecured	0.00	0.00
136	Rupee Term loan from Others - Secured	0.00	0.00
137	Foreign currency loans from others- unsecured (Guaranteed by GOI)	0.00	0.00
138	Other foreign currency loans from others- unsecured	0.00	0.00
139	Rupee loans from others- unsecured	0.00	0.00
140	Finance Lease obligations - secured	0.00	0.00
141	Finance Lease obligations - unsecured	0.00	0.00
200	**Total**	**0.00**	**0.00**

NATIONAL CAPITAL POWER STATION

NOTE NO. 24 TO THE FS-NCL-TRADE PAYABLES

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	**TRADE PAYABLES(NON CURRENT)**	**0.00**	**0.00**
002	**For Goods and Services**	**0.00**	**0.00**
003	- Micro & Small Enterprises	3,432,605.74	4,983,895.09
004	- Others	1,529,995.58	3,756,280.37
005		0.00	0.00
006	**Total**	**4,962,601.32**	**8,740,175.46**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 25 TO THE FS-NCL-OTHER FINANCIAL LIABILITIES

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	**OTHER FINANCIAL LIABILITIES (NON-CURRENT)**	**0.00**	**0.00**
002	Payable for Capital Expenditure	0.00	0.00
003	- Micro & Small Enterprises	131,758.45	570,141.55
004	- Others	680,920.29	224,635.69
005	Others	0.00	0.00
006	Deposits from contractors and others	0.00	0.00
007		0.00	0.00
008		0.00	0.00
009	**Total**	**812,678.74**	**794,777.24**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 26 TO THE FS-NCL-PROVISIONS

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	**LONG TERM PROVISIONS**	**0.00**	**0.00**
002	**Provision for Employee Benefits**	**0.00**	**0.00**
003	Opening Balance	0.00	0.00
004	Additions/ (adjustments) during the year	0.00	0.00
005	**Closing Balance**	**0.00**	**0.00**
013		**0.00**	**0.00**
014	**TOTAL**	**0.00**	**0.00**

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NOTE NO. 27 TO THE FS-NCL-DEFERRED TAX LIABILITIES (NET)

(Amount in ₹)

	As at	Opening Balance on 01.04.2020	Addition	Closing Balance on 31.03.2021
001	**DEFERRED TAX LIABILITIES (NET)**			
002	Difference of book depreciation and tax depreciation	0.00	0.00	0.00
003	Less: Deferred tax assets			
004	Provisions & Other disallowances for tax purposes	0.00	0.00	0.00
005	Unabsorbed Depreciation	0.00	0.00	0.00
006	Disallowances u/s 43B of the Income Tax Act, 1961	0.00	0.00	0.00
007		0.00	0.00	0.00
008		0.00	0.00	0.00
009		0.00	0.00	0.00
010		0.00	0.00	0.00
011	MAT credit entitlement	0.00	0.00	0.00
012		0.00	0.00	0.00
013	**Total**	**0.00**	**0.00**	**0.00**
014		0.00	0.00	0.00
015	**Total**	**0.00**	**0.00**	**0.00**
016	Breakup of deferred tax assets	0.00	0.00	0.00
017	Provision	0.00	0.00	0.00
018	Statutory dues	0.00	0.00	0.00
019	Leave encashment	0.00	0.00	0.00
020	Others	0.00	0.00	0.00
021		0.00	0.00	0.00
022		0.00	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 28 TO THE FS-NCL-OTHER NON-CURRENT LIABILITIES

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	Other Non current Liabilities	0.00	0.00
002	Advances from customers and others	0.00	0.00
003	Deposits from contractors and others	0.00	0.00
004	Grants	0.00	0.00
005	**TOTAL**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 29 TO THE FS-CL-BORROWINGS

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	**Short Term Borrowings**	**0.00**	**0.00**
002	**Loans repayable on demand**	**0.00**	**0.00**
003	**From Banks**	**0.00**	**0.00**
004	**Secured**	**0.00**	**0.00**
005	Cash Credit	0.00	0.00
006	**Unsecured**	**0.00**	**0.00**
007	Cash Credit	0.00	0.00
008	**Other loans-unsecured**	**0.00**	**0.00**
009	Commercial Papers	0.00	0.00
010	Less: Unamortised discount on Commercial Papers	0.00	0.00
011	**Sub-Total**	**0.00**	**0.00**
012	**TOTAL**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 30 TO THE FS-CL-TRADE PAYABLES

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	**TRADE PAYABLES**	**0.00**	**0.00**
002	For Goods and Services	0.00	0.00
003	- Micro & Small Enterprises	105,656,010.95	135,458,742.19
004	- Others	1,742,572,616.08	3,111,241,777.42
005		0.00	0.00
006	**Total**	**1,848,228,627.03**	**3,246,700,519.61**
007		0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 31 TO THE FS-CL-OTHER FINANCIAL LIABILITIES

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	**OTHER FINANCIAL LIABILITIES (CURRENT)**	**0.00**	**0.00**
002	***Current maturity of long term borrowings***	**0.00**	**0.00**
003	Bonds-Secured	0.00	0.00
004	Foreign Currency Fixed Rate Notes	0.00	0.00
005	**From Banks**	**0.00**	**0.00**
006	**Secured**	**0.00**	**0.00**
007	Rupee Term Loan	0.00	0.00
008	**Unsecured**	**0.00**	**0.00**
009	Foreign currency loans	0.00	0.00
010	Rupee term loans	0.00	0.00
011	**From Others**	**0.00**	**0.00**
012	**Secured**	**0.00**	**0.00**
013	Rupee Term Loan	0.00	0.00
014	**Unsecured**	**0.00**	**0.00**
015	Foreign currency loans (Guaranteed by Government of India)	0.00	0.00
016	Other foreign currency loans	0.00	0.00
017	Rupee term loans	0.00	0.00
018	Fixed deposits	0.00	0.00
019	Sub Total	0.00	0.00
020	Current maturity of finance lease obligations (secured)	0.00	0.00
021	Current maturity of finance lease obligations (unsecured)	0.00	0.00
022	Interest accrued but not due on borrowings	0.00	0.00
023	Unpaid Dividends*	0.00	0.00
024	Unpaid matured deposits and interest accrued thereon*	0.00	0.00
025	Unpaid matured bonds and interest accrued thereon*	0.00	0.00
026	Unpaid bond refund money-Tax free bonds *	0.00	0.00
027	Book Overdraft	0.00	0.00
028	Payable to Customers	0.00	0.00
029	Liability under forward exchange contact	0.00	0.00
030	Hedging cost payable to beneficiaries	0.00	0.00
031	Derivative MTM Liability	0.00	0.00
032	**Payable for Capital Expenditure**	**0.00**	**0.00**
033	- Micro & Small Enterprises	58,375,192.00	89,006,261.63
034	- Others	2,580,097,556.67	2,906,396,483.72
035	**Others Payables**	**0.00**	**0.00**
036	Deposits from contractors and others	98,696,814.00	91,177,485.00
037	Gratuity Obligations	0.00	0.00
038	Payable to employees	6,944,056.93	11,490,812.35
039	Payable to holding company	0.00	0.00
040	Retention on A/c BG encashment (Solar)	0.00	0.00
041	Payable to Solar Payment Security Account	0.00	0.00
042	Others **	83,559,127.57	[illegible]

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NATIONAL CAPITAL POWER STATION

NOTE NO. 31 TO THE FS-CL-OTHER FINANCIAL LIABILITIES

(Amount in ₹)

	As at	31.03.2021	31.03.2020
043	Unspent CSR balance on ongoing Approved CSR projects	0.00	0.00
044	**Total**	**2,827,872,747.17**	**3,147,245,192.43**
045	* Represents the amounts which have not been claimed by the investor/holders of the bonds/fixed deposits. Out of the above, no amount is due for payment to Investor Education and Protection Fund.	0.00	0.00
046	** Include Payable to Hospital and other payable.	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 32 TO THE FS-CL-OTHER CURRENT LIABILITIES

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	**OTHER CURRENT LIABILITIES**	**0.00**	**0.00**
002	Advances from customers and others	39,184,020.10	26,422,906.74
003	Deferred discount on forward exchange contact	0.00	0.00
004	Tax deducted at source and other statutory dues	49,835,113.24	110,714,289.96
005	Others	0.00	0.00
006	**Total**	**89,019,133.34**	**136,137,196.70**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 33 TO THE FS-CL-PROVISIONS

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	**SHORT TERM PROVISIONS**	**0.00**	**0.00**
002	**Provision for Employee Benefits**	**0.00**	**0.00**
003	Opening balance	0.00	0.00
004	Additions/ (adjustments) during the year	0.00	0.00
005	**Closing Balance**	**0.00**	**0.00**
028	**Provisions for Obligations Incidental to Land Acquisition**	**0.00**	**0.00**
029	Opening balance	0.00	0.00
030	Additions during the year	0.00	0.00
031	Amounts paid during the year	0.00	0.00
032	Amounts reversed during the year	0.00	0.00
033	**Closing Balance**	**0.00**	**0.00**
035	**Provision for Tariff Adjustment**	**0.00**	**0.00**
036	Opening balance	0.00	0.00
037	Additions during the year	0.00	0.00
038	Amounts adjusted during the year	0.00	0.00
039	Amounts reversed during the year	0.00	0.00
040	**Closing Balance**	**0.00**	**0.00**
042	**Provision for shortage in Fixed Assets Pending Investigation & Others**	**0.00**	**0.00**
043	Opening balance	0.00	165,808.06
044	Additions during the year	180,517.29	0.00
045	Amounts adjusted during the year	0.00	0.00
046	Amounts reversed during the year	0.00	165,808.06
047	**Closing Balance**	**180,517.29**	**0.00**
048	**Provision for Arbitration**	**0.00**	**0.00**
049	Opening balance	23,945,068.00	22,934,546.00
050	Additions during the year	1,013,283.00	1,010,522.00
051	Amounts used during the year	0.00	0.00
052	Amounts reversed during the year	0.00	0.00
053	**Closing Balance**	**24,958,351.00**	**23,945,068.00**
054	**Others**	**0.00**	**0.00**
055	Opening balance	0.00	0.00
056	Additions during the year	0.00	0.00
057	Amounts used during the year	0.00	0.00
058	Amounts reversed during the year	0.00	0.00
059	**Closing Balance**	**0.00**	**0.00**
102		0.00	0.00
103	**Total**	**25,138,868.29**	**23,945,068.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 34 TO THE FS-CL-CURRENT TAX LIABILITIES (NET)

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	**Current liabilities - current tax liabilities (net)**	**0.00**	**0.00**
002	Opening balance	0.00	0.00
003	Additions during the year	0.00	0.00
004	Amounts adjusted during the year	0.00	0.00
005	Less: Set off against taxes paid	0.00	0.00
006	**Closing Balance**	**0.00**	**0.00**

NATIONAL CAPITAL POWER STATION

NOTE NO. 35 TO THE FS--DEFERRED REVENUE

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	**Deferred Revenue**	**0.00**	**0.00**
002	On account of advance against depreciation	0.00	0.00
003	On account of income from foreign currency fluctuation	130,587,000.00	149,915,000.00
004	Government grants	0.00	0.00
005		0.00	0.00
006	**TOTAL**	**130,587,000.00**	**149,915,000.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 36 TO THE FS--REGULATORY DEFERRAL ACCOUNT CREDIT BALANCES

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	Regulatory deferral account credit balances	0.00	0.00
002	Exchange Differences	0.00	0.00
003		0.00	0.00
004	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 37 TO THE FS--REVENUE FROM OPERATIONS

(Amount in ₹)

	For the Year ended	31.03.2021	31.03.2020
001	**REVENUE FROM OPERATIONS**	**0.00**	**0.00**
002	**Sales**	**0.00**	**0.00**
003	Energy Sales (including Electricity Duty)	29,993,365,592.00	44,709,247,371.00
004	Less : Advance against depreciation deferred (net)	0.00	0.00
005	Add: Revenue recognized out of advance against depreciation	0.00	0.00
006	Add : Exchange fluctuation receivable from customers	0.00	-34,228,000.00
007	Sale of energy through trading	0.00	0.00
008	Commission (NVVN)	0.00	0.00
009	**Sub total**	**29,993,365,592.00**	**44,675,019,371.00**
010	Less: Rebate to customers	886,949,721.90	140,621,411.33
011	**Energy Sales (Total)**	**29,106,415,870.10**	**44,534,397,959.67**
012	Consultancy, project management and supervision fees	0.00	0.00
013	Lease rentals on assets on Operating lease	0.00	0.00
014	Sale of Captive Coal	0.00	0.00
015	Intra Company Elimination	0.00	0.00
017	**Sub-total**	**0.00**	**0.00**
018	**Total - Sales**	**29,106,415,870.10**	**44,534,397,959.67**
019	Sale of fly ash/ash products	300,343,513.16	470,450,530.77
020	Less: Transferred to fly ash utilisation reserve fund	-300,343,513.16	-470,450,530.77
021	**Sub-total**	**0.00**	**0.00**
022	**Other Operating Income**	**0.00**	**0.00**
023	Interest from customers	23,738,963.00	262,929,445.00
024	Energy Internally Consumed *	69,246,611.00	88,917,833.00
025	Interest income on Assets under finance lease	0.00	0.00
026	Recognized from deferred revenue - government grant	0.00	0.00
027	Provision written back: Tariff Adjustment	0.00	0.00
028	Income form Trading of ESCerts	0.00	0.00
029	Income from E-Mobility Business & others	0.00	0.00
030		0.00	0.00
031	**Total**	**29,199,399,444.10**	**44,886,245,237.67**
040	* Valued at variable cost of generation and corresponding amount included in power charges (Note No. 42)	0.00	0.00
041	Excise duty on sale of flyash,cenosphere & ash products	0.00	0.00
042	Energy sales of principal nature (NVVN)	0.00	0.00
043	Energy sales of agency nature (NVVN)	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 38 TO THE FS--OTHER INCOME

(Amount in ₹)

	For the Year ended	31.03.2021	31.03.2020
001	**OTHER INCOME**	**0.00**	**0.00**
002	**Interest from**	**0.00**	**0.00**
004	**Financial assets at amortised cost**	**0.00**	**0.00**
005	Government Securities (8.5% Tax Free Bonds issued by the State Goverments)	0.00	0.00
006	Other Bonds	0.00	0.00
007		0.00	0.00
008	Interest from Government of India Securties-Non-Trade	0.00	0.00
009	Less: Amortiation of premium	0.00	0.00
010	**Sub Total**	**0.00**	**0.00**
011	Interest from others	0.00	0.00
012	Loan to State Government in settlement of dues from customers	0.00	0.00
013	Loan to Subsidiary Companies	0.00	0.00
014	Loan to Employees	22,668,603.92	23,266,416.42
015	Deposit with banks	0.00	0.00
016	Foreign Banks	0.00	0.00
017	Interest from Contractors	0.00	0.00
018	Interest from Income Tax Refunds	0.00	0.00
019	Less : Refundable to Customers	0.00	0.00
020	**Sub Total**	**0.00**	**0.00**
021	Deposits with banks-flyash utilisation reserve fund	0.00	0.00
022	Less: transferred to flyash utilisation reserve fund	0.00	0.00
023	**Sub Total**	**0.00**	**0.00**
024	Deposits with banks- DDUGJY funds	0.00	0.00
025	Interest from Contractors- DDUGJY funds	0.00	0.00
026	Transfer to DDUGJY-Advance from customers	0.00	0.00
027	Sub-total	0.00	0.00
030	Others	0.00	0.00
031		0.00	0.00
032	**Dividend from**	**0.00**	**0.00**
033	**Longterm investments in**	**0.00**	**0.00**
034	Subsidiaries	0.00	0.00
035	Joint Ventures	0.00	0.00
036	Equity Instruments	0.00	0.00
037	**Current investments in**	**0.00**	**0.00**
038	Mutual Funds measured at fairvalue through profit or loss	0.00	0.00
039	Current investments in mutual funds-flyash utilisation reserve fund	0.00	0.00
040	Less: transferred to flyash utilisation reserve fund	0.00	0.00
041	Lease Rent # Ash Brick Plant	0.00	0.00
042	Less: transferred to flyash utilisation reserve fund	0.00	0.00
043	Other non-operating income	50.00	40.00
044	Profit on disposal of PPE	62,528.20	[illegible]
045	Profit on redemption of GOI securities	0.00	[illegible]

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NATIONAL CAPITAL POWER STATION

NOTE NO. 38 TO THE FS--OTHER INCOME

(Amount in ₹)

	For the Year ended	31.03.2021	31.03.2020
046	Net gain on sale of investments	0.00	0.00
047	Surcharge received from customers	300,034,236.00	153,417,050.00
048	Hire charges for equipment	0.00	0.00
049	Gain on option contract / Discount on F.ExchContract	0.00	0.00
050	Provision written back-others	8,895,844.17	14,003,710.17
051	Fair value gains/(losses) on investments in mutual funds at fair value through profit or loss	0.00	0.00
052	Interest from Solar payment security account	0.00	0.00
053	Less : Transferred to SPSA fund	0.00	0.00
054	Interest on "Retention on A/c BG encashment (Solar)"	0.00	0.00
055	Less : Transferred to "Retention on A/c BG encashment (Solar)"	0.00	0.00
056	Miscellaneous Income	81,653,211.33	108,556,709.31
057	**Total**	**413,314,273.62**	**299,592,174.36**
058	Less Transferred to Development of Coal Mines-Note 43A	0.00	0.00
059	Less Transferred to Expenditure during Construction period (net)- Note 43	122,852.13	36,135.68
061	Less: Others	0.00	0.00
062	**Total**	**413,191,421.49**	**299,556,038.62**
063		0.00	0.00
064	**Details of Miscellaneous Income**	**0.00**	**0.00**
065	Vehicle Hire Charges	118,000.00	77,283.00
066	Sale of by products & residuals	0.00	0.00
067	Township recoveries(excl. Hospital Recoveries)	63,977,866.84	67,700,599.61
068	Depreciation written back	0.00	0.00
069	Sale of Scrap	10,498,783.34	18,896,960.98
070	Receipt under loss of profit policy	0.00	0.00
071	Receipts under MBD/Fire Policy	2,050,952.00	10,042,202.00
072	Management development programme	0.00	0.00
073	Management Fee - Misc (NVVN)	0.00	0.00
074	Others	5,009,629.15	11,839,643.72
075		0.00	0.00
076	**Total (Miscellaneous Income)**	**81,653,211.33**	**108,556,709.31**
077		0.00	0.00
078	**Details of Provision written back others**	**0.00**	**0.00**
079	Doubtful debts	0.00	0.00
080	Doubtful Loans, Advances and Claims	0.00	0.00
081	Doubtful Construction Advances	0.00	0.00
082	Shortage in Construction Stores	0.00	0.00
083	Shortage in Stores	8,895,844.17	111,790.84
084	Obsolescence in Stores	0.00	13,728,111.27
085	Unserviceable capital works	0.00	0.00
086	Other Obligation including Arbitration	0.00	0.00
087	Shortage in Fixed Assets	0.00	[illegible]

NATIONAL CAPITAL POWER STATION

NOTE NO. 38 TO THE FS--OTHER INCOME

(Amount in ₹)

	For the Year ended	31.03.2021	31.03.2020
088	Diminution in value of investment	0.00	0.30

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NATIONAL CAPITAL POWER STATION

NOTE NO. 38A TO THE FS-FUEL COST

(Amount in ₹)

	For the Year ended	31.03.2021	31.03.2020
001	**FUEL COST**	**0.00**	**0.00**
002	Coal	0.00	0.00
003	Captive	0.00	0.00
004	Other than captive	14,008,975,339.59	27,909,545,973.33
005	Gas	0.00	0.00
006	Naptha	0.00	0.00
007	Oil	204,348,569.07	285,838,360.91
008	**Total**	**14,213,323,908.66**	**28,195,384,334.24**
009		0.00	0.00
010		0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 39 TO THE FS--EMPLOYEE BENEFITS EXPENSE

(Amount in ₹)

	For the Year ended	31.03.2021	31.03.2020
001	**EMPLOYEE BENEFITS EXPENSE**	**0.00**	**0.00**
002	Salaries and wages	1,781,785,984.14	1,928,274,823.34
003	Contribution to provident and other funds	236,848,447.13	209,859,591.07
004	Unwinding of deferred payroll expense	11,772,967.39	14,355,973.46
005	Staff welfare expenses	253,222,334.36	260,468,549.05
006	Less : Expenses transferred to Consultancy group	0.00	0.00
007		0.00	0.00
008	**Sub Total**	**2,283,609,733.07**	**2,412,958,736.92**
009	Less: Employee benefits expense allocated to fuel inventory	43,478,186.56	125,459,673.93
010	Less: Transferred/Allocated to development of coal mines	0.00	0.00
011	Less: Others	0.00	0.00
012	Less: Transferred to fly ash utilisation reserve fund	0.00	0.00
013	Less: Transferred to CSR Expenses	5.05	0.00
014	Reimbursements for employees on secondment	193,219.00	155,127.44
015	Less: Transferred to expenditure during construction period (net)- Note 43	26,385,144.17	15,415,329.04
016	**TOTAL**	**2,213,553,183.34**	**2,271,928,606.51**
017	**Managerial Remuneration paid/ payable to Directors included above (except for Directors fee which is included in Note 42)**	**0.00**	**0.00**
018	Salaries and wages	0.00	0.00
019	Contribution to provident and other funds	0.00	0.00
020	Staff welfare expenses	0.00	0.00
021	Directors fee	0.00	0.00
022		0.00	0.00
023		0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 40 TO THE FS--FINANCE COSTS

(Amount in ₹)

	For the Year ended	31.03.2021	31.03.2020
001	**FINANCE COSTS**	**0.00**	**0.00**
002	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
003	Bonds	501,087,439.89	489,539,135.46
004	Government of India Loans	0.00	0.00
005	Foreign currency term loans	4,540,087.82	-171,305.91
006	Rupee term loans	338,280,262.00	518,090,672.00
007	Public deposits	0.00	0.00
008	Foreign currency bonds/notes	0.00	0.00
009	Cash Credit	0.00	0.00
010	Unwinding of discount on account of vendor liabilities	1,464,548.76	2,469,058.00
011	Commercial Papers	0.00	0.00
012	**Sub Total**	**843,372,338.47**	**1,009,947,557.57**
013	Interest on non financial items	18,508,028.53	1,626,042.31
014	**Other Borrowing Costs**	**0.00**	**0.00**
015	Bonds servicing & public deposit exp	449,742.51	512,666.23
016	Guarantee fee	0.00	0.00
017	Management fee	0.00	0.00
018	Committ charges/exposure premium	0.00	0.00
019	Bond issue expenses	0.00	0.00
020	Legal exp on foreign currency loans	0.00	0.00
021	Foreign currency bonds/notes exp	0.00	0.00
022	Up-front fee	0.00	0.00
023	Insurance premium on foreign currency loans	0.00	0.00
024		0.00	0.00
025	Others	0.00	0.00
026	**Sub Total (Other Borrowing cost)**	**18,958,771.04**	**2,138,709.04**
027		0.00	0.00
028	**Exchange differences regarded as an adjustment to borrowing costs**	**-2,290,013.00**	**2,290,060.00**
029	**Sub Total**	**860,039,096.51**	**1,014,376,326.61**
030	Less: Transferred to Expenditure during construction period (net) - Note 43	115,277,343.46	84,713,300.17
031	Less: Transferred to development of coal mines-Note 43A	0.00	0.00
032		0.00	0.00
033	**Total**	**744,761,753.05**	**929,663,026.44**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 41 TO THE FS--DEPRECIATION AND AMORTIZATION EXPENSES

(Amount in ₹)

	For the Year ended	31.03.2021	31.03.2020
001	**Depreciation and amortization expenses**	**0.00**	**0.00**
002	On property, plant and equipment- Note 2	3,044,250,325.28	3,353,878,196.92
003	On intangible assets- Note 4	100,334,962.36	99,950,547.38
004	Sub-total	3,144,585,287.62	3,453,828,744.30
005	Less:	0.00	0.00
006	Allocated to fuel inventory	85,907,399.88	192,348,902.37
007	Transferred to Expenditure during Construction Period (net)- Note 43	0.00	0.00
008		0.00	0.00
009	Transferred/Allocated to development of coal mines	0.00	0.00
010	Adjustment with deferred revenue from deferred foreign currency fluctuation	19,328,000.00	19,640,000.00
011		0.00	0.00
012	**Total**	**3,059,349,887.74**	**3,241,839,841.93**

NATIONAL CAPITAL POWER STATION

NOTE NO. 42 TO THE FS--OTHER EXPENSE

(Amount in ₹)

	For the Year ended	31.03.2021	31.03.2020
001	**OTHER EXPENSES**	**0.00**	**0.00**
002	Power charges	60,992,988.49	79,981,158.25
003	Less: Recovered from contractors & employees	15,142,892.73	18,390,361.19
004	**Sub-Total(Power Charges)**	**45,850,095.76**	**62,590,795.06**
005	Water charges	17,175,357.94	20,162,112.88
006	Stores consumed	23,352,636.59	26,658,254.17
007	Rent	0.00	0.00
008	Less Recoveries	0.00	0.00
009	**Sub-Total (Rent)**	**0.00**	**0.00**
010	Cost of captive coal produced	0.00	0.00
011	**Repairs & maintenance**	**0.00**	**0.00**
012	Buildings	67,804,436.74	79,075,286.32
013	Plant & machinery	0.00	0.00
014	Power stations	992,225,962.72	939,109,757.05
015	Construction equipment	224,575.37	75,894.13
016	Others	117,854,595.77	67,281,564.89
017	**Sub-total (Repairs & maintenance)**	**1,178,169,570.60**	**1,085,542,502.39**
019	Load Dispatch Center Charges	9,589,791.00	18,957,392.00
021	Insurance	76,716,257.64	51,176,597.07
022	Interest to beneficiaries	618,629.00	18,641,115.00
023	Rates and taxes	8,088,651.56	8,163,322.11
024	Water cess & environment protection cess	0.00	721,140.00
025	Training & recruitment expenses	6,411,795.17	11,192,679.46
026	Less: Receipts	0.00	0.00
027	**Sub-total (Training and recruitment expenses)**	**6,411,795.17**	**11,192,679.46**
028	Communication expenses	19,129,587.73	21,360,754.56
029	Inland Travel	86,291,731.02	74,030,276.51
030	Foreign Travel	0.00	1,964,239.54
031	Tender expenses	-818,512.38	0.00
032	Less: Receipt from sale of tenders	0.00	63,393.00
033	**Sub-total (Tender expenses)**	**-818,512.38**	**-63,393.00**
034	Payment to auditors	0.00	0.00
035	Audit fee	0.00	0.00
036	Tax audit fee	0.00	0.00
037	Other services	0.00	0.00
038	Reimbursement of expenses	614.69	0.00
039	**Sub-total (Payment to Auditors)**	**614.69**	**0.00**
040	Advertisement and publicity	1,059,692.29	2,095,016.73
041	Electricity duty	0.00	0.00
042	Security expenses	299,390,586.86	292,880,882.88
043	Entertainment expenses	21,053,306.24	24,145,836.97
044	Expenses for guest house	16,025,476.13	18,708,652.45
045	Less Recoveries	1,000.00	13,000.00
046	**Sub-Total (Guest house expenses)**	**16,024,476.13**	**18,695,652.45**
047	Education expenses	56,653,161.53	[illegible]
049	Donations	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 42 TO THE FS:-OTHER EXPENSE

(Amount in ₹)

	For the Year ended	31.03.2021	31.03.2020
050	Ash utilisation & marketing expenses	43,819,326.40	42,628,371.31
051	Directors sitting fee	0.00	0.00
053	Professional charges and consultancy fees	1,508,217.99	2,135,834.85
054	Legal expenses	13,119,005.82	5,576,481.36
055	EDP hire and other charges	8,886,517.09	14,206,940.60
056	Printing and stationery	394,128.19	1,584,408.50
057	Oil & gas exploration expenses	0.00	0.00
059	Hiring of vehicles	13,875,093.76	15,068,434.78
061	Reimbursement of L.C.charges on sales realisation	0.00	0.00
062		0.00	0.00
063	Cost of Hedging	0.00	-2,698,221.00
064	Derivatives MTM loss/gain (Net)	0.00	3,487,965.00
065	Net loss/(gain) in foreign currency transactions & translations	-21,726,685.79	-25,991,521.70
066	Transport Vehicle running expenses	8,098,951.74	9,566,244.92
067	Horticulture Expenses	20,400,163.47	20,419,145.67
068	Hire charges- helicopter/aircraft	0.00	0.00
069	Hire charges of construction equipment	0.00	0.00
070	Demurrage Charges	0.00	0.00
072		0.00	0.00
073	Miscellaneous expenses	9,909,314.60	12,204,504.29
074	Loss on disposal/write-off of PPE	19,580,150.33	45,791,347.45
075	**Sub-Total**	**1,962,541,542.96**	**1,947,909,342.32**
076	Less: Other expenses allocated to fuel inventory	65,488,186.81	142,967,390.90
077	Less: Transferred/Allocated to development of coal mines	0.00	0.00
078	Less: Transferred to fly ash utilisation reserve fund	43,819,783.59	42,628,371.31
079	Less: Hedging cost Net recoverable/payable from/to beneficiaries	0.00	3,487,965.00
080	Less: Others	0.00	0.00
081	Less: Transferred to CSR Expenses	61,711,458.00	58,628,639.00
082	Less Transferred to Expenditure during Construction period(-)Note 43	2,659,456.40	3,112,015.77
083	**Net (Generation, Administration and Other expenses)**	**1,788,862,878.16**	**1,595,184,960.34**
084	Corporate Social Responsibility Expenses	122,871,095.89	105,226,894.96
085	Less: Grants-in-aid	0.00	0.00
086	**Sub-total (Corporate Social Responsibility Expenses)**	**122,871,095.89**	**105,226,894.96**
087	**Provisions**	**0.00**	**0.00**
088	Doubtful Debts	375,353.45	0.00
089	Doubtful loans, advances and claims	0.00	49,796.00
090	Doubtful Construction Advances	0.00	0.00
091	Shortage in stores	19,745,181.80	30,381,453.64
092	Obsolete/Diminution in the value of surplus stores	0.00	[illegible]
093	Shortage in construction stores	0.00	0.00
094	Diminution in value of long term investments	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 42 TO THE FS--OTHER EXPENSE

(Amount in ₹)

	For the Year ended	31.03.2021	31.03.2020
095	Shortage in Fixed assets	180,517.29	0.00
096	Unfinished minimum work progress from oil & gas exploration	0.00	0.00
097	Unserviceable capital works	0.00	0.00
098	Tariff Adjustment	32,591,000.00	9,225,000.00
099	Others :	0.00	0.00
100	(i) Provision for arbitration cases	1,013,283.00	1,010,522.00
101	(ii) Other provisions	0.00	0.00
102	**Total (Provisions)**	**52,905,334.77**	**41,441,448.55**
103		0.00	0.00
104	**Total**	**1,964,539,108.82**	**1,842,853,303.85**
105		0.00	0.00
106	**Breakup of miscellaneous expenses.**	**0.00**	**0.00**
109	Hire charges of office equipment	0.00	0.00
111	Operating expenses of construction equipment	0.00	0.00
112	Operating expenses of D.G. sets	813,019.59	542,759.80
113	Furnishing expenses	33,145.21	315,468.21
114	Subscription to trade and other associations	0.00	25,000.00
116	Visa and entry permit charges	0.00	0.00
117	Tree plantation exp.-NTPC Land	0.00	17,128.79
118	Research & development expenses	0.00	4,464.20
119	Less : Grants received for Research & develoment expenses	0.00	0.00
120	Sub-total (Research & development expenses)	0.00	4,464.20
121	Bank charges	11,086.74	647,198.28
122	Business Development Expenditure	0.00	0.00
123	Surcharge (NVVN)	0.00	0.00
124	Power Trading Expenses	239,137.00	236,000.00
125	Brokerage & commission	251,833.79	591,316.64
129	Books and periodicals	24,104.84	288,020.43
130	Claims/advances written off	0.00	0.00
131	Stores written off	0.00	0.00
132	Survey &Investigation expenses written off	0.00	0.00
133	Others	8,537,287.44	9,437,147.96
134	**Total**	**9,909,314.60**	**12,204,504.29**
135		0.00	0.00
136		0.00	0.00
137		0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 43 TO THE FS--EXPENDITURE DURING CONSTRUCTION PERIOD (NET) (Amount in ₹)

	For the Year ended	31.03.2021	31.03.2020
001	**EXPENDITURE DURING CONSTRUCTION PERIOD (NET)**	**0.00**	**0.00**
002	A. Employee benefits expense	0.00	0.00
003	Salaries and wages	21,650,941.02	12,277,545.80
004	Contribution to provident and other funds	3,149,399.11	1,086,453.04
005	Unwinding of deffered payroll expenses	0.00	0.00
006	Staff welfare expenses	1,584,804.04	2,041,330.20
007	**Total (A)**	**26,385,144.17**	**15,415,329.04**
008	**B. Finance Costs**	**0.00**	**0.00**
009	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
010	Bonds	47,541,890.41	29,148,913.87
011	Foreign currency term loans	2,916,516.05	-498,766.70
012	Rupee term loans	67,108,950.00	53,773,093.00
013	Foreign currency bonds/notes	0.00	0.00
014	Unwinding of discount on account of vendor liabilities	0.00	0.00
015	Others	0.00	0.00
016		0.00	0.00
017	Other Borrowings Costs	0.00	0.00
018	Guarantee Commission	0.00	0.00
019	Management Fees/Arrangers Fees	0.00	0.00
020	Commitment charges/Exposure Premium	0.00	0.00
021	Legal Expenses on foreign currency loans	0.00	0.00
022	Foreign currency bonds/notes expenses	0.00	0.00
023	Foreign Credit Insurance Premium	0.00	0.00
024	Upfront Fee	0.00	0.00
025	Exchange Differences	0.00	0.00
026	Others	0.00	0.00
027	Exchange differences regarded as adjustment to interest cost	-2,290,013.00	2,290,060.00
028	**Total (B)**	**115,277,343.46**	**84,713,300.17**
029		0.00	0.00
030	C. Depreciation and amortisation	0.00	0.00
031	**D. Generation , administration and other expenses**	**0.00**	**0.00**
032	Power charges	436,990.00	1,948,558.00
033	Less: Recovered from contractors & employees	121,863.17	38,028.92
034	**Sub-total(Net power charges)**	**315,126.83**	**1,910,529.08**
035	Water charges	0.00	0.00
036	Rent	0.00	0.00
037	Repairs & maintenance	0.00	0.00
038	Buildings	0.00	0.00
039	Construction equipment	0.00	0.00
040	Others	419,796.45	597,828.00
041		0.00	0.00
042	Insurance	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 43 TO THE FS--EXPENDITURE DURING CONSTRUCTION PERIOD (NET) (Amount in ₹)

	For the Year ended	31.03.2021	31.03.2020
043	Rates and taxes	0.00	3,398.30
044	Communication expenses	276,135.00	132,186.14
045	Travelling expenses	1,226,983.96	415,118.11
046	Tender expenses	0.00	0.00
047	Less: Income from sale of tenders	0.00	0.00
048	**Sub-total (Net tender expenses)**	**0.00**	**0.00**
049	Advertisement and publicity	0.00	0.00
050	Security expenses	0.00	0.00
051	Entertainment expenses	66,000.00	47,697.00
052	Guest house expenses	0.00	0.00
053	Less: Receipt from guest house	0.00	0.00
054	**Sub-total (Net Guest House Expenses)**	**0.00**	**0.00**
055	Education expenses	0.00	0.00
056	Brokerage & Commisaion	0.00	0.00
057	Books and periodicals	0.00	0.00
058	Community development expenses	0.00	0.00
059	Professional charges and consultancy fee	0.00	0.00
060	Legal expenses	0.00	0.00
061	EDP Hire and other charges	0.00	0.00
062	Printing and stationery	17,242.00	0.00
063	Miscellaneous expenses	338,173.16	4,503.44
064	**Total (D)**	**2,659,456.40**	**3,112,015.77**
065	**Total (A+B+C+D)**	**144,321,944.03**	**103,240,544.98**
066	**E. Less: Other Income**	**0.00**	**0.00**
067	Interest from	0.00	0.00
068	Indian banks	0.00	0.00
069	Foreign banks	0.00	0.00
070	Others	0.00	0.00
071	Contractors	0.00	0.00
072	Hire charges	0.00	0.00
073	Sale of scrap	0.00	0.00
074	Exchange Differences	0.00	0.00
075	Miscellaneous Income	122,852.13	36,135.68
076	**TOTAL (E)**	**122,852.13**	**36,135.68**
077	F. Net actuarial gain/loss OCI	320,715.13	262,913.14
078		0.00	0.00
079	**GRAND TOTAL (A+B+C+D-E+F)**	**144,529,807.03**	**103,466,522.44**
080		0.00	0.00
081	*** Balance carried to Capital Work in progress - (Note 3)**	**144,529,807.03**	**103,466,522.44**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 43A TO THE FS–EDC- COAL MINING

(Amount in ₹)

	For the Year ended	31.03.2021	31.03.2020
001	**EDC - Coal Mining**	**0.00**	**0.00**
002	A. Employee benefits expense	0.00	0.00
003	Salaries and wages	0.00	0.00
004	Contribution to provident and other funds	0.00	0.00
005	Unwinding of deffered payroll expenses	0.00	0.00
006	Staff welfare expenses	0.00	0.00
007	**Total (A)**	**0.00**	**0.00**
008	**B. Finance Costs**	**0.00**	**0.00**
009	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
010	Bonds	0.00	0.00
011	Foreign currency term loans	0.00	0.00
012	Rupee term loans	0.00	0.00
013	Foreign currency bonds/notes	0.00	0.00
014	Unwinding of discount on account of vendor liabilities	0.00	0.00
015	Others	0.00	0.00
016		0.00	0.00
017	Other Borrowings Costs	0.00	0.00
018	Guarantee Commission	0.00	0.00
019	Management Fees/Arrangers Fees	0.00	0.00
020	Commitment charges/Exposure Premium	0.00	0.00
021	Legal Expenses on foreign currency loans	0.00	0.00
022	Foreign currency bonds/notes expenses	0.00	0.00
023	Foreign Credit Insurance Premium	0.00	0.00
024	Upfront Fee	0.00	0.00
025	Exchange Differences	0.00	0.00
026	Others	0.00	0.00
027	Exchange differences regarded as adjustment to interest cost	0.00	0.00
028	**Total (B)**	**0.00**	**0.00**
029		0.00	0.00
030	C. Depreciation and amortisation	0.00	0.00
031	**D. Generation , administration and other expenses**	**0.00**	**0.00**
032	Power charges	0.00	0.00
033	Less: Recovered from contractors & employees	0.00	0.00
034	**Sub-total(Net power charges)**	**0.00**	**0.00**
035	Water charges	0.00	0.00
036	Rent	0.00	0.00
037	Repairs & maintenance	0.00	0.00
038	Buildings	0.00	0.00
039	Construction equipment	0.00	0.00
040	Others	0.00	0.00
041	Cost of Captive Coal	0.00	0.00
042	Insurance	0.00	0.00
043	Rates and taxes	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 43A TO THE FS--EDC- COAL MINING

(Amount in ₹)

	For the Year ended	31.03.2021	31.03.2020
044	Communication expenses	0.00	0.00
045	Travelling expenses	0.00	0.00
046	Tender expenses	0.00	0.00
047	Less: Income from sale of tenders	0.00	0.00
048	**Sub-total (Net tender expenses)**	**0.00**	**0.00**
049	Advertisement and publicity	0.00	0.00
050	Security expenses	0.00	0.00
051	Entertainment expenses	0.00	0.00
052	Guest house expenses	0.00	0.00
053	Less: Receipt from guest house	0.00	0.00
054	**Sub-total (Net Guest House Expenses)**	**0.00**	**0.00**
055	Education expenses	0.00	0.00
056	Brokerage & Commission	0.00	0.00
057	Books and periodicals	0.00	0.00
058	Community development expenses	0.00	0.00
059	Professional charges and consultancy fee	0.00	0.00
060	Legal expenses	0.00	0.00
061	EDP Hire and other charges	0.00	0.00
062	Printing and stationery	0.00	0.00
063	Miscellaneous expenses	0.00	0.00
064	**Total (D)**	**0.00**	**0.00**
065	**Total (A+B+C+D)**	**0.00**	**0.00**
066	**E. Less: Other Income**	**0.00**	**0.00**
067	Interest from	0.00	0.00
068	Indian banks	0.00	0.00
069	Foreign banks	0.00	0.00
070	Others	0.00	0.00
071	Contractors	0.00	0.00
072	Hire charges	0.00	0.00
073	Sale of scrap	0.00	0.00
074	Exchange Differences	0.00	0.00
075	Miscellaneous income	0.00	0.00
076	**TOTAL (E)**	**0.00**	**0.00**
077	F. Net actuarial gain/loss OCI	0.00	0.00
078		0.00	0.00
079	**GRAND TOTAL (A+B+C+D-E+F)**	**0.00**	**0.00**
080		0.00	0.00
081	*** Balance carried to Capital Work-in-progress - (Note 3)**	**0.00**	**0.00**

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 44-A TO THE FINANCIAL STATEMENTS

(Amount in ₹)

	As at	31.03.2021	31.03.2020
001	Balance sheet	0.00	0.00
002	Freehold land for which conveyancing of the title is awaiting completion of legal formalities	0.00	0.00
003	(a) area (in acres)	0.00	0.00
004	(b) value (in rs)	0.00	0.00
005	Right-of-use land for which execution of lease deed is awaiting completion of legal formalities	0.00	0.00
006	(a) area (in acres)	0.00	0.00
007	(b) value (in rs)	0.00	0.00
008	Right-of-use land acquired on perpetual lease and accordingly not amortised	0.00	0.00
009	(a) area (in acres)	0.00	0.00
010	(b) value (in rs.)	0.00	0.00
011	Land in physical possesession of the company which has not been shown in the books pending settlement of price (in acres)	0.00	0.00
012	Deposit with government authorities towards land in possession of the company included in cost of land which is subject to adjus	0.00	0.00
013	**Land not in possession of the company**	**0.00**	**0.00**
014	(a) area (in acres)	0.00	0.00
015	-Freehold	76.91	76.91
016	-Right of Use	0.00	0.00
017	(b) value (in rs)	0.00	0.00
018	-Freehold	153,472,543.07	156,222,688.90
019	-Right of Use	0.00	0.00
020	Right-of-use buildings pending completion of legal formalities - value (in rs.)	0.00	0.00
021	Estimated amount of contracts remaining to be executed on capital account and not provided for	0.00	0.00
022	Property, plant & equipment	1,741,419,751.00	2,220,847,535.00
023	Intangible assets	0.00	0.00
024	Details of precommissioning expenditure	0.00	0.00
025	(a) precommissioning expenses	0.00	0.00
026	(b) precommissioning income	0.00	0.00
027	(c) net precommissioning expenditure	0.00	0.00
028		0.00	0.00
029		0.00	0.00
030		0.00	0.00
031	Exchange rate variation taken to revenue during the year (with -ve sign, if favourable)	-6,643,180.39	-43,908,182.70
045	Exchange rate variation capitalised during the year (with -ve sign, if favourable)	-2,290,013.00	-812,316.69
047	Leases as Lessee	0.00	0.00
048	Leases classified as Right to Use	0.00	0.00
049	A) Obligation towards Minimum Lease Payments (undiscounted)	0.00	0.00
050	3 months or less (A)	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 44-A TO THE FINANCIAL STATEMENTS

(Amount in ₹)

	As at	31.03.2021	31.03.2020
051	3-12 Months (B)	0.00	0.00
052	1-2 Years (C)	0.00	0.00
053	2-5 Years (D)	0.00	0.00
054	More than 5 Years (E)	0.00	0.00
055	**Total (A+B+C+D+E)**	**0.00**	**0.00**
056	Opening Balance of Lease Liabilities (A)	0.00	0.00
057	- Additions in lease liabilities (B)	0.00	0.00
058	- Interest cost during the year (C)	0.00	0.00
059	- Payment of lease liabilities (D)	0.00	0.00
060	**Closing Balance of Lease Liabilities (A+B+C-D)**	**0.00**	**0.00**
061	Current Lease Liabilities	0.00	0.00
062	Non Current Lease Liabilities	0.00	0.00
063	Depreciation and amortisation expense for right-of-use assets	0.00	0.00
064	Short Term Leases	0.00	0.00
065	A) Rent	0.00	0.00
066	Company lease accomodation - executives	0.00	1,852,031.29
067	Company lease accomodation - directors	0.00	0.00
068	Others	0.00	0.00
069	**Total**	**0.00**	**1,852,031.29**
070	Cash Outflow from Leases	0.00	1,852,031.29
071	B) (i) receipts from sub-lease of office buildings	0.00	0.00
072	(ii) receipts from sub-lease of helicopter	0.00	0.00
073	**Leases as Lessor**	**0.00**	**0.00**
074	**Finance Leases**	**0.00**	**0.00**
075	Finance Income on Net Investment in Lease	0.00	0.00
076	Income Related to Variable Lease Payments	0.00	0.00
077		0.00	0.00
078	**Undiscounted Lease payments to be received**	**0.00**	**0.00**
079	Less than one year (A)	0.00	0.00
080	Between one and two years (B)	0.00	0.00
081	Between two and three years (C)	0.00	0.00
082	Between three and four years (D)	0.00	0.00
083	Between four and five years (E)	0.00	0.00
084	More than five years (F)	0.00	0.00
085	**Total minimum lease payments (A+B+C+D+E+F)**	**0.00**	**0.00**
086	Less amounts representing unearned finance income	0.00	0.00
087	Present value of minimum lease payments	0.00	0.00
088		0.00	0.00
089	**Operating Leases**	**0.00**	**0.00**
090	Lease income	0.00	0.00
091	Income Related to Variable Lease Payments	0.00	0.00
092		0.00	0.00
093	**Undiscounted Lease payments to be received**	**0.00**	**0.00**
094	Less than one year (A)	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 44-A TO THE FINANCIAL STATEMENTS

(Amount in ₹)

	As at	31.03.2021	31.03.2020
095	Between one and two years (B)	0.00	0.00
096	Between two and three years (C)	0.00	0.00
097	Between three and four years (D)	0.00	0.00
098	Between four and five years (E)	0.00	0.00
099	More than five years (F)	0.00	0.00
100	**Total minimum lease payments (A+B+C+D+E+F)**	**0.00**	**0.00**
101	Borrowing cost capitalised during the year	115,277,343.40	84,713,380.17
102	Revenue grants recognized during the year	0.00	0.00
103	Revenue expenditure on research and development	0.00	161,404.20
104	Capital expenditure on research and development	966,361.00	620,201.00
105	Expenditure on sustainability development - capital	461,068.00	1,661,720.00
106	Expenditure on csr- capital	0.00	0.00
107	Csr amount spent during the year, yet to be paid in cash	0.00	3,587,503.50
108	Constn/acquisition of any asset	0.00	0.00
109	On purpose other than above	0.00	0.00
110		0.00	0.00
111	Disclosure under msmed act 2006.	0.00	0.00
112	(i) (a) the principal amount remaining unpaid as at year end	167,595,567.14	230,019,040.46
113	(i) (b) interest due there on remaining unpaid as at Year end	0.00	0.00
114	(ii) the amount of interest paid by the buyer in terms of section 16, along with the amounts of the payment made to the supplier	0.00	0.00
115	(iii) the amount of interest due and payable for the period of delay in making payment(which has been paid but beyond the appoin	0.00	0.00
116	(iv) the amount of interest accrued and remaining unpaid at the end of the year; and	0.00	0.00
117	(v) the amount of further interest remaining due and payable even in the succeeding years, until such date when the interest due	0.00	0.00
118	Amount of inventories recognized as an expense (including fuel)	14,630,844,906.57	28,779,478,292.97
119	Amount of inventories capitalised as overhauling assets out of 112 above	47,698,794.48	71,220,747.72
120	Amount capitalised as edc out of 112 above	0.00	0.00
133	Value of Imported Material Consumed during the Year	0.00	0.00
134		0.00	0.00
135	Contingent liabilities	0.00	0.00
136	A. Claims against the company not acknowledged as debts in respect of :	0.00	0.00
137	(i)Capital works	3,118,732,485.60	2,862,488,113.82
138	(ii)Land compensation cases	192,912,153.00	[illegible]
139	(iii)Others by state authorities towards :-	0.00	[illegible]

NATIONAL CAPITAL POWER STATION

NOTE NO. 44-A TO THE FINANCIAL STATEMENTS

(Amount in ₹)

	As at	31.03.2021	31.03.2020
140	(a) Water royalty / water charges / nala tax	0.00	0.00
141	(b) Diversion of land / building permission fees	0.00	0.00
142	(c) Other demands by state authorities	0.00	0.00
143	(iv) Others by fuel companies	0.00	0.00
144	(a) Disputes related to grade slippage-third party sampling	541,895,590.60	1,712,342,618.00
145	(b) Surface transportation charges on coal	15,365,368.00	15,236,513.00
146	(c) Take or pay claim - Gas stations	0.00	0.00
147	(d) Other claims by fuel companies not acknowledged as debt	175,938,517.00	175,938,517.00
149	B.Disputed tax demands	0.00	0.00
150	(i)Income tax	0.00	0.00
151	(ii) Excise duty	0.00	0.00
152	(iii) Sales tax	96,788,223.00	96,848,620.00
153	(iv) Service tax	0.00	0.00
154	(v) Entry tax	33,908,708.00	31,835,152.00
155	C. Others	115,585,077.00	29,186,077.00
156	**Total**	**4,203,122,042.20**	**5,911,752,120.82**
157	D. Possible reimbursement on account of contingent liabilities	0.00	0.00
158	(i) Capital works	0.00	0.00
159	(ii)Land compensation cases	0.00	0.00
160	(iii)Others (by state authorities)	0.00	0.00
161		0.00	0.00
162	(iv) Others by fuel companies	733,197,475.60	1,903,515,648.00
163	(v) Disputed income tax demand	0.00	0.00
164	(vi) Disputed tax demands -others	0.00	0.00
165	(vii) Others	7,299,187.00	7,299,187.00
167	**Total**	**740,496,662.60**	**1,910,814,835.00**
168	E.AMOUNT PAID UNDER PROTEST/ADJUSTED BY AUTHORITIES - TAX CASES	0.00	0.00
169		0.00	0.00
170	F.CONTINGENT ASSETS	0.00	0.00
171		0.00	0.00
172		0.00	0.00
173		0.00	0.00
175	Previous year figures have been regrouped/rearranged wherever necessary.	0.00	0.00

NATIONAL CAPITAL POWER STATION

BALANCE SHEET

(Amount in ₹)

	As at	Note	31.03.2022	31.03.2021
001	ASSETS		[illegible]	[illegible]
002			[illegible]	[illegible]
003	NON-CURRENT ASSETS		[illegible]	[illegible]
004	PROPERTY, PLANT & EQUIPMENT	2	[illegible]	[illegible]
005	CAPITAL WORK-IN-PROGRESS	3	[illegible]	[illegible]
006	INTANGIBLE ASSETS	4	[illegible]	[illegible]
007	INTANGIBLE ASSETS UNDER DEVELOPMENT	5	[illegible]	[illegible]
008	FINANCIAL ASSETS		[illegible]	[illegible]
009	i) INVESTMENTS IN SUBSIDIARIES AND JOINT VENTURES	6	[illegible]	[illegible]
010	ii) INVESTMENTS	7	[illegible]	[illegible]
011	iii) TRADE RECEIVABLES	8	[illegible]	[illegible]
012	iv) LOANS	9	[illegible]	[illegible]
013	v) OTHER FINANCIAL ASSETS	10	[illegible]	[illegible]
014	OTHER NON-CURRENT ASSETS	11	[illegible]	[illegible]
016	TOTAL NON-CURRENT ASSETS		[illegible]	[illegible]
017			[illegible]	[illegible]
018	CURRENT ASSETS		[illegible]	[illegible]
019	INVENTORIES	12	[illegible]	[illegible]
020	FINANCIAL ASSETS		[illegible]	[illegible]
021	i) INVESTMENTS	13	[illegible]	[illegible]
022	ii) TRADE RECEIVABLES	14	[illegible]	[illegible]
023	iii) CASH AND CASH EQUIVALENTS	15	[illegible]	[illegible]
024	iv) BANK BALANCES OTHER THAN CASH AND CASH EQUIVALENTS	16	[illegible]	[illegible]
025	v) LOANS	17	[illegible]	[illegible]
026	vi) OTHER FINANCIAL ASSETS	18	[illegible]	[illegible]
027	CURRENT TAX ASSETS (NET)		[illegible]	[illegible]
028			[illegible]	[illegible]
029	OTHER CURRENT ASSETS	19	[illegible]	[illegible]
030			[illegible]	[illegible]
031	TOTAL CURRENT ASSETS		[illegible]	[illegible]
032	REGULATORY DEFERRAL ACCOUNT DEBIT BALANCES	20	[illegible]	[illegible]
034	TOTAL ASSETS		[illegible]	[illegible]
035	EQUITY AND LIABILITIES		[illegible]	[illegible]
036	EQUITY		[illegible]	[illegible]
037	EQUITY SHARE CAPITAL	21	[illegible]	[illegible]
038	OTHER EQUITY	22	[illegible]	[illegible]
041	TOTAL EQUITY		[illegible]	[illegible]
042			[illegible]	[illegible]
043	LIABILITIES		[illegible]	[illegible]
044	NON-CURRENT LIABILITIES		[illegible]	[illegible]
045	FINANCIAL LIABILITIES		[illegible]	[illegible]
046	i) BORROWINGS	23	[illegible]	[illegible]
047	ii) LEASE LIABILITIES	24	[illegible]	[illegible]
048	iii) TRADE PAYABLES		[illegible]	[illegible]

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NATIONAL CAPITAL POWER STATION

BALANCE SHEET

(Amount in ₹)

As at	Note	31.03.2022	31.03.2021
- TOTAL OUTSTANDING DUES OF MICRO AND SMALL ENTERPRISES	24	[illegible]	[illegible]
- TOTAL OUTSTANDING DUES OF CREDITORS OTHER THAN MICRO AND SMALL ENTERPRISES	24	[illegible]	[illegible]
(iv) OTHER FINANCIAL LIABILITIES	25	[illegible]	[illegible]
PROVISIONS	26	[illegible]	[illegible]
DEFERRED TAX LIABILITIES (NET)	27	[illegible]	[illegible]
OTHER NON-CURRENT LIABILITIES	28	[illegible]	[illegible]
		[illegible]	[illegible]
TOTAL NON-CURRENT LIABILITIES		[illegible]	[illegible]
		[illegible]	[illegible]
CURRENT LIABILITIES		[illegible]	[illegible]
FINANCIAL LIABILITIES		[illegible]	[illegible]
(i) BORROWINGS	29	[illegible]	[illegible]
(ii) LEASE LIABILITIES	29A	[illegible]	[illegible]
(iii) Trade Payables		[illegible]	[illegible]
- TOTAL OUTSTANDING DUES OF MICRO AND SMALL ENTERPRISES	30	[illegible]	[illegible]
- TOTAL OUTSTANDING DUES OF CREDITORS OTHER THAN MICRO AND SMALL ENTERPRISES	30	[illegible]	[illegible]
(iv) OTHER FINANCIAL LIABILITIES	31	[illegible]	[illegible]
OTHER CURRENT LIABILITIES	32	[illegible]	[illegible]
PROVISIONS	33	[illegible]	[illegible]
CURRENT TAX LIABILITIES (NET)	34	[illegible]	[illegible]
		[illegible]	[illegible]
TOTAL CURRENT LIABILITIES		[illegible]	[illegible]
		[illegible]	[illegible]
DEFERRED REVENUE	35	[illegible]	[illegible]
REGULATORY DEFERRAL ACCOUNT CREDIT BALANCES	36	[illegible]	[illegible]
INTER UNIT ACCOUNTS		[illegible]	[illegible]
		[illegible]	[illegible]
TOTAL EQUITY AND LIABILITIES		[illegible]	[illegible]
Significant Accounting Policies as per Note 1		[illegible]	[illegible]
		[illegible]	[illegible]
The accompanying Notes 1 to 46 form an integral part of these financial statements		[illegible]	[illegible]
		[illegible]	[illegible]

GOTAM KUMAR BAGARIYA

(Auditor Initial & Stamp)

NARENDRA KUMAR CHATRATH

(Head of Finance)

(Head of Unit)

द. श्रीनिवास राव

D. SRINIVASA RAO

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NATIONAL CAPITAL POWER STATION

STATEMENT OF PROFIT AND LOSS

(Amount in ₹)

	For the Year ended	Note	31.03.2022	31.03.2021
001	Revenue		[illegible]	[illegible]
002	Revenue from operations	37	[illegible]	[illegible]
003	Other income	38	[illegible]	[illegible]
005	Total Income		[illegible]	[illegible]
007	Expenses		[illegible]	[illegible]
008	Fuel including cost of captive coal	39A	[illegible]	[illegible]
009	Employee benefits expense	39	[illegible]	[illegible]
010	Chemicals purchased for trading		[illegible]	[illegible]
011	Finance costs	40	[illegible]	[illegible]
012	Depreciation and amortisation expense	41	[illegible]	[illegible]
013			[illegible]	[illegible]
014	Other expenses	42	[illegible]	[illegible]
015	CC expenses charge to expense		[illegible]	[illegible]
016	Less: total expenses transferred to CC		[illegible]	[illegible]
017	Total expenses		[illegible]	[illegible]
023	Profit before exceptional items & tax		[illegible]	[illegible]
021	Exceptional items		[illegible]	[illegible]
024	Profit before tax		[illegible]	[illegible]
027	Tax expense		[illegible]	[illegible]
028	Current tax		[illegible]	[illegible]
029	Deferred tax		[illegible]	[illegible]
034			[illegible]	[illegible]
035	Total Tax expense		[illegible]	[illegible]
036	Profit for the period before regulatory deferral account balances		[illegible]	[illegible]
037	Movement in regulatory deferral account balances		[illegible]	[illegible]
038	Regulatory deferral account - deferred		[illegible]	[illegible]
039	Others		[illegible]	[illegible]
040	Tax impact on Regulatory deferral account balances		[illegible]	[illegible]
041	Movement in Regulatory deferral account balances (Net of Tax)		[illegible]	[illegible]
042	Profit for the period/ year		[illegible]	[illegible]
043	Other comprehensive income		[illegible]	[illegible]
044	(A)Items that will not be reclassified to profit or loss		[illegible]	[illegible]
046	Net gain/(losses) on fair value of equity instruments through other comprehensive income		[illegible]	[illegible]
048	Income tax on items that will not be reclassified to profit or loss		[illegible]	[illegible]
047	Net actuarial gain/(losses) on defined benefit plans		[illegible]	[illegible]
049	Income tax on items that will not be reclassified to profit or loss		[illegible]	[illegible]
052		43	[illegible]	[illegible]
053	Other comprehensive income for the year, net of income tax		[illegible]	[illegible]
054			[illegible]	[illegible]
055	Total Comprehensive income for the year		[illegible]	[illegible]
056			[illegible]	

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NATIONAL CAPITAL POWER STATION

STATEMENT OF PROFIT AND LOSS

(Amount in ₹)

	For the Year ended	Note	31.03.2022	31.03.2021
6(h)	Earnings per equity share:		[illegible]	[illegible]
6(i)	Basic & Diluted		[illegible]	[illegible]
6(j)	Significant Accounting Policies		[illegible]	[illegible]
6(k)	Expenditure during construction period (Net) Ops. of coal mines (net) 63 (63)		[illegible]	[illegible]
6(l)	The accompanying notes 1 to 46 form an integral part of these financial statements.		[illegible]	[illegible]

GOTAM KUMAR BAGARIYA

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Date: 2022.04.28 18:34:24 +05'30'

(Auditor Initial & Stamp)

NARENDRA KUMAR CHATRATH

(Head of Finance)

(Head of Unit)

श्री श्रीनिवास राव
B. SRINIVASA RAO
मुख्य महाप्रबंधक Chief General Manager
एनटीपीसी लिमिटेड NTPC Limited

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NATIONAL CAPITAL POWER STATION

OTHER COMPREHENSIVE INCOME (Amount in ₹)

	For the Year ended	31.03.2022	31.03.2021
001		0.00	0.00
002	**Other comprehensive income**	**0.00**	**0.00**
003	**(A) Items that will not be reclassified to profit or loss**	**0.00**	**0.00**
004	- Net gains/(losses) on fair value of equity instruments through other comprehensive income	0.00	0.00
005	Income tax on above that will not be reclassified to profit or loss	0.00	0.00
006	- Net actuarial gains/(losses) on defined benefit plans	-15,174,235.26	-35,893,386.77
007	Income tax on above that will not be reclassified to profit or loss	0.00	0.00
008		0.00	0.00
009	(B) Items that will be reclassified to profit or loss	0.00	0.00
010	Income tax relating to above items that will be reclassified to profit or loss	0.00	0.00
011		0.00	0.00
012	**Other comprehensive income for the year, net of income tax**	**-15,174,235.26**	**-35,893,386.77**
013		0.00	0.00
014	**Total comprehensive income for the year (A+B)**	**-15,174,235.26**	**-35,893,386.77**

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Note forming part of Balance Sheet
Note 2 : Property, Plant And Equipment
Business Area :1011

(Amount in Rupees)

Asset Class	Opening Gross Block As At 01.04.2021	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2022	Opening Depreciation As At 01.04.2021	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2022	Net Block As At 31.03.2022	Net Block As At 31.03.2021
1 TANGIBLE ASSETS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 Land : (including development expenses)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3 Freehold	1782904079.00	1955141.26	0.00	1801457220.36	0.00	0.00	0.00	0.00	1801457220.36	1782904079.00
4 Right of Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5 Submergence	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 Right of way - Coal Bearing Area Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7 Roads,bridges, culverts & helipads	361443746.77	0.00	0.00	361443746.77	96853664.21	13851396.78	0.00	112705063.00	248738683.77	262590084.56
8 Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 Freehold	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10 Main plant	3155920131.51	0.00	0.00	3155920131.51	796536191.53	120617583.84	0.00	687953775.39	2268575356.12	2359392939.98
11 Others	791554705.41	3356857.51	0.00	794911562.92	329779360.03	37662046.07	0.00	256341315.10	538772247.82	552775336.38
12 Right of Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13 Temporary erection	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14 Water Supply, drainage & sewerage system	157323604.55	471234.44	0.00	157794839.99	44750394.10	6636015.87	0.00	51376409.97	106418179.02	112573560.55
15 Hydraulic works, barrages, dams, tunnels and power channel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16 MGR track and signalling system	93169487.30	0.00	0.00	93169487.30	28676236.00	4057092.66	0.00	32733328.66	60436158.62	64513251.30
17 [illegible]	709797802.41	0.00	0.00	709797802.41	304077324.62	21403637.85	0.00	325480962.47	384316839.94	405140477.79
18 [illegible]	400144447.04	0.00	0.00	400144447.04	96834496.17	31127626.81	0.00	127962587.98	272181804.06	303309496.87
19 [illegible]	3856375649.89	5584141.35	(3856374653.89)	3884846473.34	1598864107.63	272970715.56	(359197267.86)	1512637555.56	2372208917.78	2257510542.26

Note forming part of Balance Sheet
Note 2 : Property, Plant And Equipment
Business Area :1011

(Amount in Rupees)

Asset Class	Opening Gross Block As At 01.04.2021	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2022	Opening Depreciation As At 01.04.2021	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2022	Net Block As At 31.03.2022	Net Block As At 31.03.2021
20. Plant and machinery(including associated civil works) (Right of use Asset	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21. Furniture and fixtures	20967189.10	558503.36	1110052.30	21133936.64	9936272.52	1607342.05	681031.04	10711640.61	10421910.23	11030925.67
22. Assets under 5 Kw Scheme	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23. Vehicles including speedboats / helicopter- Owned	1038368.73	0.00	0.00	1038368.73	673731.03	248019.70	0.00	698350.73	340017.95	364637.70
24. Vehicles including speedboats / helicopter - Leased	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25. Office equipment	11119829.13	7505178.45	(946147.17)	12177860.41	6146527.74	8240774.74	(414211.57)	6958690.91	5219169.50	5553301.39
26. EDP, WP machines and allied equipment	76217210.70	8394134.14	(525591.88)	84085752.96	57017954.82	8657869.05	(1151494.87)	65594426.74	18491326.22	19200256.14
27. Construction equipments	13877916.85	2645252.14	(125756.29)	16131412.70	7435141.81	920377.24	0.00	8355519.05	7775893.65	6443777.04
28. Electrical installations	20753462.38	4233216.00	(723086.40)	24063592.58	8592803.33	1679846.54	(289543.82)	10183106.05	13880486.53	12223079.05
29. Communication equipments	2587463.00	0.00	(586592.37)	2935870.74	1827848.03	1468533.10	(298445.92)	3998936.23	936934.51	1159614.03
30. Hospital equipments	8876828.34	5973376.0	0.00	14850204.33	6005744.37	9643473.40	0.00	15649217.77	9200986.56	2870883.93
31. Laboratory and medical equipments	9949188.38	0.00	0.00	9949188.38	3079033.17	542340.00	0.00	3621373.36	6327814.13	7869155.21
32. Capital expenditure on assets not owned by the Company	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33. [illegible]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note forming part of Balance Sheet
Note 2 : Property, Plant And Equipment
Business Area :1011

(Amount in Rupees)

Asset Class	Opening Gross Block As At 01.04.2021	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2022	Opening Depreciation As At 01.04.2021	Additions	Deduction/ Adjustments	Closing Depreciation As At 31.03.2022	Net Block As At 31.03.2022	Net Block As At 31.03.2021
34. Less:Grants from Government	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35. Less: Recoverable from GOI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36.Assets for ash utilisation	159411285.52	0.00	0.00	159411285.52	0.00	0.00	0.00	0.00	159411285.52	159411285.52
37.(Less) -Adjusted from fly ash utilisation reserve fund	159411285.52	0.00	0.00	159411285.52	0.00	0.00	0.00	0.00	159411285.52	159411285.52
38. Site Restoration Cost	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39. Mining Properties	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand Total (Tangible)	46774962995.35	561893754.89	(365334217.65)	46971484532.59	17954162351.85	3036962798.50	(365770059.60)	20619854089.55	26351630443.04	28820801313.50
Grand Total Prior Year (Tangible)	45962811777.60	700783436.64	888633218.11	46774962995.35	14933863743.20	3344275326.20	(297276904.61)	17954162351.85	28820801313.50	31044170346.40

Note forming part of Balance Sheet
Note 2 : Property, Plant And Equipment
Business Area :1011

(Amount in Rupees)

Details of Adjustments of Gross Block and Depreciation/Amortization				
Particulars	**Gross Block**		**Depreciation/Amortization**	
	Tangible As At: 31.03.2022	**Tangible As At: 31.03.2021**	**Tangible As At: 31.03.2022**	**Tangible As At: 31.03.2021**
Disposal of assets	(4617337.09)	(5507239.40)	(4617337.09)	(5507239.40)
Retirement of assets	(425891059.39)	(45930327.81)	(400097151.48)	(26020829.40)
Cost adjustments	0.00	132936883.61	0.00	0.00
Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Depreciation on construction equipment capitalised as EDC	0.00	0.00	0.00	0.00
Prior Period Depreciation due to Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Special Depreciation (As per New Policy)	0.00	0.00	0.00	0.00
Transfer in /out because of Inter Unit transfers	45574173.53	3868342.71	44014429.77	1802464.19
Others	(200694.70)	0.00	0.00	0.00
TOTAL	**(385334917.65)**	**85367459.11**	**(360700058.80)**	**(29725494.61)**

Note : Additions during the year includes capital expenditure towards CSR (in Rs.) : 0.00

Note forming part of Balance Sheet
Note 3: Capital-Work-in-Progress
Business Area: NATIONAL CAPITAL POWER STATION

(Amount in Rupees)

Sl No	Asset Class	As At 01.04.2021	Addition	Deduction/ Adjustment	Capitalised	As At 31.03.2022
	1	2	3	4	5	6
1	CAPITAL WORK-IN-PROGRESS					
2	Development of land					
3	Roads, bridges, culverts & helipads		2438458.28			2438458.28
4	Piling and foundation					
5	Buildings :					
6	Main plant	1570468.54	21629041.87			23199450.41
7	Others	106022.77	4021677.69	(1310207.18)	2816493.48	
8	Temporary sheds					
9	Water supply, drainage and sewerage system		471234.40	(471234.40)		
10	Hydraulic works, barrages, dams, tunnels and power channels					
11	MGR track and signalling system		80032590.61			80032590.61
12	Railway siding					
13	Spill part-reactive	49177772.74	125176505.92			174354278.74
14	Plant and equipment	6863527867.34	1028998627.41	(251461192.43)	1839995895.65	7296766022.59
15	Furniture and fixtures	467295.83	435416.20	(202220.20)		700291.03
16	Vehicles					
17	Office equipment					
18	EDP/WP machines & peripheral equipment					
19	Construction equipments					
20	Electrical installations					
21	Communication equipment					
22	Hospital equipments					
23	Laboratory and workshop equipments					
24	Expenditure on R&D scheme of the GOI					
25	Capital expenditure on assets not owned by the company					
26	Expenditure towards development of coal mines					
27	Survey, Investigation, Consultancy & Supervision Chg					
28	Difference in exchange on foreign currency loans					

Note forming part of Balance Sheet
Note 3: Capital-Work-in-Progress
Business Area: NATIONAL CAPITAL POWER STATION

(Amount in Rupees)

Sr No	Asset Class	As At 01.04.2021	Addition	Deduction/ Adjustment	Capitalised	As At 31.03.2022
	1	2	3	4	5	6
29	Expenditure towards diversion of forest land					
30	Pre-commencement [illegible]					
31	Exploratory/Core drill or without Project					
32	Expenditure During Construction Period [net]*		158663972.00	(713084.00)		158950888.00
33	LESS : Allocation to related works		158950888.00			158950888.00
34	LESS : Provision for Unrecoverable works					
35	Construction stores (At Cost)					
36	Steel	9227388.37	14426384.77	(15546222.63)		8108517.51
37	Cement	2291421.45	3203688.09	(2904011.71)		2591097.73
38	Others	221931551.61	73213896.86	(193229299.63)		101915542.84
39	Sub-total	233440128.43	90843173.63	(211682533.97)		112600758.07
40	LESS : Provision for shortages					
41	Sub-total	233440128.43	90843173.63	(211682533.97)		112600758.07
42	Total CWIP	4867374720.07	1254352809.92	(465666577.16)	166313783.14	7689093159.67
43						
44						
45	PREVIOUS YEAR TOTAL	6280154448.55	1521143613.15	(149863984.42)	564406179.35	6867374720.07

Note:- Additions during the year includes capital expenditure towards CSR (in Rs.) : 0.00

Note forming part of Balance Sheet
Note-4 Non Current Assets- Intangible Assets
Business Area :1011

(Amount in Rupees)

Asset Class	Opening Gross Block As At 01.04.2021	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2022	Opening Depreciation As At 01.04.2021	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2022	Net Block As At 31.03.2022	Net Block As At 31.03.2021
INTANGIBLE ASSETS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1 Right to Use- Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 -Others	197160953.46	0.00	0.00	197160953.46	59872113[illegible]	9985470[illegible]	0.00	69858542.37	127302510.29	137313371[illegible]
3 -Software	3021779.83	32500.00	0.00	3054279.83	2121389.59	461580.06	0.00	2582969.16	471310.67	900391.33
Grand Total (Intangible)	197460232.46	32500.00	0.00	197492732.46	60084252.17	10032867.35	0.00	70116811.55	127373320.94	137404010[illegible]
Grand Total Prev Year (Intangible)	197256805.46	1329867.00	0.00	197492732.46	50051761.81	10032867.36	0.00	60084252.17	137404010.32	147304043.[illegible]

Note forming part of Balance Sheet
Note-4 Non Current Assets- Intangible Assets
Business Area :1011

(Amount in Rupees)

Details of Adjustments of Gross Block and Depreciation/Amortization				
Particulars	Gross Block		Depreciation/Amortization	
	InTangible As At: 31.03.2022	InTangible As At: 31.03.2021	InTangible As At: 31.03.2022	InTangible As At: 31.03.2021
Disposal of assets	0.00	0.00	0.00	0.00
Retirement of assets	0.00	0.00	0.00	0.00
Cost adjustments	0.00	0.00	0.00	0.00
Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Depreciation on construction equipment capitalised as EDC	0.00	0.00	0.00	0.00
Prior Period Depreciation due to Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Special Depreciation (As per New Policy)	0.00	0.00	0.00	0.00
Transfer in /out because of Inter Unit transfers	0.00	0.00	0.00	0.00
Others	0.00	0.00	0.00	0.00
TOTAL	**0.00**	**0.00**	**0.00**	**0.00**

Note : Additions during the year includes capital expenditure towards CSR (in Rs.) : 0.00

Note forming part of Balance Sheet

(Amount in Rupees)

Note 5: Intangible Assets under Development

Business Area: NATIONAL CAPITAL POWER STATION

Sl No	Asset Class	As At 01.04.2021	Addition	Deduction/ Adjustment	Capitalised	As At 31.03.2022
	1	2	3	4	5	6
1	INTANGIBLE ASSETS UNDER DEVELOPMENT					
2	Software					
3	Right to use Drivers					
4	Exploration and Evaluation Expenditure - Coal Mine					
5	Exploratory wells-in-progress					
6	Less: Provision for exploratory wells-in-progress					
7	Total					
8	PREVIOUS YEAR TOTAL-I					

Note:- Additions during the year includes capital expenditure towards CSR (in Rs.) : 0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 6 TO THE FS-NCA-INVESTMENTS IN SUBSIDIARIES & JOINT VENTURES

[Amount in ₹]

	As at	No. of shares	Face value	31.03.2022	31.03.2021
011	**NON CURRENT INVESTMENTS-INVESTMENTS IN SUBSIDIARIES AND JOINT VENTURES**			[illegible]	[illegible]
012	**EQUITY INSTRUMENTS - UNQUOTED-(FULLY PAID UP UNLESS OTHERWISE STATED, AT COST).**			[illegible]	[illegible]
013	**SUBSIDIARY COMPANIES**			[illegible]	[illegible]
014	PATRATU VIDYUT UTPADAN NIGAM LTD			[illegible]	[illegible]
015	NTPC ELECTRIC SUPPLY COMPANY LTD			[illegible]	[illegible]
016	NTPC VIDYUT VYAPAR NIGAM LTD			[illegible]	[illegible]
017	NABINAGAR POWER GENERATING COMPANY LTD			[illegible]	[illegible]
018	KANTI BIJLEE UTPADAN NIGAM LTD			[illegible]	[illegible]
019	BHARTIYA RAIL BIJLEE COMPANY LTD			[illegible]	[illegible]
020	NTPC MINING LTD (NML)			[illegible]	[illegible]
021	TUDC INDIA LTD			[illegible]	[illegible]
022	NEEPCO LTD			[illegible]	[illegible]
023	NTPC EDMC Waste Solutions Pvt Ltd			[illegible]	[illegible]
024	NTPC Renewables Energy Ltd			[illegible]	[illegible]
025	Raitaigh Gas & Power Pvt Limited (RGPPL)			[illegible]	[illegible]
026				[illegible]	[illegible]
027				[illegible]	[illegible]
028				[illegible]	[illegible]
029				[illegible]	[illegible]
030	**SUB TOTAL**			[illegible]	[illegible]
031	**JOINT VENTURE COMPANIES**			[illegible]	[illegible]
032	Utility Powertech Ltd.			[illegible]	[illegible]
033	NTPC GE Power Services Pvt Ltd			[illegible]	[illegible]
034	NTPC SAIL Power Company Ltd.			[illegible]	[illegible]
035	NTPC Tamil Nadu Energy Company Ltd			[illegible]	[illegible]

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Location: NTPC Limited

NOTE NO. 6 TO THE FS-NCA-INVESTMENTS IN SUBSIDIARIES & JOINT VENTURES

[Amount in ₹]

	As at	No. of shares	Face value	31.03.2022	31.03.2021
060	Ratnagiri Gas & Power Pvt. Limited (RGPPL)			0.00	0.00
061	ARAVALI POWER COMPANY PRIVATE LTD.			0.00	0.00
062				0.00	0.00
063	NTPC SNEL POWER PROJECTS PRIVATE LTD.			0.00	0.00
064	MEJA URJA NIGAM PRIVATE LIMITED			0.00	0.00
065	BF NTPC ENERGY SYSTEMS LTD.			0.00	0.00
066				0.00	0.00
067	NABINAGAR POWER GENERATING COMPANY LTD.			0.00	0.00
068	TRANSFORMER AND ELECTRICAL KERALA LTD.			0.00	0.00
069	NATIONAL HIGH POWER TEST LABORTORY PRIVATE LTD.			0.00	0.00
070				0.00	0.00
071	CIL NTPC URJA PRIVATE LTD.			0.00	0.00
072	ANUSHAKTI VIDHYUT NIGAM LTD.			0.00	0.00
073	ENERGY EFFICIENCY SERVICES LTD.			0.00	0.00
074				0.00	0.00
075	TRINCOMALEE POWER COMPANY LTD.			0.00	0.00
076	BANGLADESH IRAQ FRIENDSHIP POWER COMPANY PVT. LTD.			0.00	0.00
077	HINDUSTAN URVARAK & RASAYAN LIMITED			0.00	0.00
078	KOHAGAN LNG LTD.			0.00	0.00
081	**SUB TOTAL**			**0.00**	**0.00**
108	AGGREGATE AMOUNT OF IMPAIRMENT IN THE VALUE OF INVESTMENTS			0.00	0.00
110	TOTAL (NET OF IMPAIRMENT) OF JV			0.00	0.00
111	**Gross Total of Investments**			**0.00**	**0.00**
116	**Total**			**0.00**	**0.00**
136	Details of Investments			0.00	
138	Aggregate amount of Unquoted Investments			0.00	

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Reason: AGM Commercial
Location: NTPC Limited

NOTE NO. 6 TO THE FS-NCA-INVESTMENTS IN SUBSIDIARIES & JOINT VENTURES

[Amount in ₹]

	As at	No. of shares	Face value	31.03.2022	31.03.2021
141				0.00	0.00
142				0.00	0.00
143				0.00	0.00
144				0.00	0.00
145				0.00	0.00
152	Valuation of Investments as per note 1			0.00	0.00
154				0.00	0.00
202				0.00	0.00
255				0.00	0.00

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Reason: AGM Commercial
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 7 TO THE FS-NCA-INVESTMENTS

(Amount in ₹)

	As at	No. of shares	Face value	31.03.2022	31.03.2021
001	Non-current financial assets (investments)			[illegible]	[illegible]
005	**Long Term - Trade**			**[illegible]**	**[illegible]**
007	**Equity Instruments (fully paid up unless otherwise stated)**			**[illegible]**	**[illegible]**
008	**Quoted**			**[illegible]**	**[illegible]**
009	**JOINT VENTURE COMPANIES**			**[illegible]**	**[illegible]**
010	PTC India Ltd.			[illegible]	[illegible]
070	INTERNATIONAL COAL VENTURES PRIVATE LTD			[illegible]	[illegible]
075	BF-NTPC ENERGY SYSTEMS LTD.			[illegible]	[illegible]
098				[illegible]	[illegible]
100	COOPERATIVE SOCIETIES			[illegible]	[illegible]
111	**SUB TOTAL**			**[illegible]**	**[illegible]**
112	AGGREGATE AMOUNT OF IMPAIRMENT IN THE VALUE OF INVESTMENTS			[illegible]	[illegible]
115	**TOTAL**			**[illegible]**	**[illegible]**
120				[illegible]	[illegible]
146	NTPC EMPLOYEES CONSUMERS AND THRIFT CO-OPERATIVE SOCIETY LTD KORBA			[illegible]	[illegible]
147	NTPC EMPLOYEES CONSUMERS AND THRIFT CO-OPERATIVE SOCIETY LTD NSTPP			[illegible]	[illegible]
148	NTPC EMPLOYEES CONSUMERS COOPERATIVE SOCIETY LTD FARAKKA			[illegible]	[illegible]
149	NTPC EMPLOYEES CONSUMERS COOPERATIVE SOCIETY LTD VINDHYACHAL			[illegible]	[illegible]
150	NTPC EMPLOYEES CONSUMERS COOPERATIVE SOCIETY LTD ANTA			[illegible]	[illegible]
151	NTPC EMPLOYEES CONSUMERS COOPERATIVE SOCIETY LTD. KAWAS			[illegible]	[illegible]
152	NTPC Employees Consumers Cooperative Society Ltd. Rihand			[illegible]	[illegible]

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 6 TO THE FS-NCA-TRADE RECEIVABLES

(Amount in ₹)

	As at	31.03.2022	31.03.2021
001	Non-current financial assets - Trade receivables	0.00	0.00
002	UNSECURED, CONSIDERED GOOD	0.00	0.00
003	CREDIT IMPAIRED	0.00	0.00
004		0.00	0.00
005		0.00	0.00
006	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 9 TO THE FS-NCA-LOANS [Amount in ₹]

	As at	31.03.2022	31.03.2021
001	**LOANS (NON CURRENT)**	**0.00**	**0.00**
004	RELATED PARTIES	0.00	0.00
005	SECURED	0.00	0.00
006	UN-SECURED	0.00	0.00
007	WITH SIGNIFICANT INCREASE IN CREDIT RISK	0.00	0.00
008	CREDIT IMPAIRED	0.00	0.00
009		0.00	0.00
010	EMPLOYEES(INCLUDING ACCRUED INTEREST)	0.00	0.00
011	SECURED	185,120,149.64	197,896,223.42
012	UNSECURED	122,705,985.41	90,813,188.20
013	WITH SIGNIFICANT INCREASE IN CREDIT RISK	0.00	0.00
014	CREDIT IMPAIRED	0.00	0.00
015	LESS : EMPLOYEE LOANS DISCOUNTING	0.00	0.00
016	SECURED	46,294,068.92	51,608,617.52
017	UNSECURED	20,707,945.49	15,859,726.03
018	LOAN TO STATE GOVERNMENT IN SETTLEMENT OF DUES FROM CUSTOMERS (UNSECURED)	0.00	0.00
019	OTHERS	0.00	0.00
020	SECURED	0.00	0.00
021	UNSECURED	0.00	0.00
022	WITH SIGNIFICANT INCREASE IN CREDIT RISK	0.00	0.00
023	CREDIT IMPAIRED	0.00	0.00
024	LESS: ALLOWANCE FOR CREDIT IMPAIRED LOANS	0.00	0.00
025	**SUB TOTAL**	**240,824,120.64**	**221,241,079.07**
026		0.00	0.00
027	**TOTAL**	**240,824,120.64**	**221,241,079.07**
028		0.00	0.00
029		0.00	0.00
030	**Due from Directors and Officers of the Company**	**0.00**	**0.00**
031	Directors	0.00	0.00
032	Officers	0.00	0.00
033		**0.00**	**0.00**
034	**Loans to related parties include:**	**0.00**	**0.00**
035	i)Key management personel	0.00	0.00
036	ii)Subsidiary companies	0.00	0.00
037	iii)Joint Venture companies	0.00	0.00
038	iv)Others	0.00	0.00
039		**0.00**	**0.00**
054	Other loans represent loans given to	0.00	0.00
055	a) APHC	0.00	2.00
060		0.00	0.00
061	RPD	0.00	0.00
062	i)Key management personel	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 9 TO THE FS-NCA-LOANS

(Amount in ₹)

	As at	31.03.2022	31.03.2021
063	ii)Subsidiary companies	0.00	0.00
064	iii)Joint Venture companies	0.00	0.00
065	iv)Others	0.00	0.00
066	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 10 TO THE FS-NCA-OTHER FINANCIAL ASSETS

(Amount in ₹)

	As at	31.03.2022	31.03.2021
001	**Other Financial Assets (non current)**	**0.00**	**0.00**
002		0.00	0.00
003	**Share application money pending allotment in (Subsidiary Companies) :**	**0.00**	**0.00**
004	NTPC Electric Supply Company Ltd.	0.00	0.00
005	NTPC Vidyut Vyapar Nigam Ltd.	0.00	0.00
006	Nabinagar Power Generating Company Ltd.	0.00	0.00
007	Kanti Bijlee Utpadan Nigam Ltd.	0.00	0.00
008	Bhartiya Rail Bijlee Company Ltd.	0.00	0.00
009	Patratu Vidyut Utpadan Nigam Ltd.	0.00	0.00
010	NTPC Mining Limited	0.00	0.00
011	THDC Ltd.	0.00	0.00
012	NEEPCO Ltd	0.00	0.00
013		0.00	0.00
014	**Total**	**0.00**	**0.00**
015	**Share application money pending allotment (Joint Venture)**	**0.00**	**0.00**
016	Utility Powertech Ltd.	0.00	0.00
017	NTPC GE Power Services Pvt.Ltd.	0.00	0.00
018	NTPC-SAIL Power Company Ltd.	0.00	0.00
019	NTPC-Tamil Nadu Energy Company Ltd.	0.00	0.00
020	Ratnagiri Gas & Power Private Ltd.	0.00	0.00
021	Aravali Power Company Private Ltd.	0.00	0.00
022		0.00	0.00
023	NTPC BHEL Power Projects Private Ltd.	0.00	0.00
024	Meja Urja Nigam Private Limited	0.00	0.00
025	BF-NTPC Energy Systems Ltd.	0.00	0.00
026	Anushakti Vidhyut Nigam Ltd.	0.00	0.00
027	Nabinagar Power Generating Company Ltd.	0.00	0.00
028	Energy Efficiency Services Ltd.	0.00	0.00
029	National High Power Test Labortory Private Ltd.	0.00	0.00
030		0.00	0.00
031	CIL NTPC Urja Private Ltd.	0.00	0.00
032	Trincomalee Power Company Ltd.	0.00	0.00
033	Hindustan Urvarak & Rasayan Limited	0.00	0.00
034	Bangladesh-India Friendship Power Company Private Ltd.	0.00	0.00
035	**Sub Total**	**0.00**	**0.00**
036		0.00	0.00
037	Claims Recoverable	0.00	0.00
038	Finance Lease Recoverable	0.00	0.00
039	Mine Closure Deposit	0.00	0.00
041	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

(Amount in ₹)

As at	31.03.2022	31.03.2021

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NATIONAL CAPITAL POWER STATION

NOTE NO. 11 TO THE FS-NCA-OTHER NON-CURRENT ASSETS (Amount in ₹)

	As at	31.03.2022	31.03.2021
001	**Other Non-current Assets**	**0.00**	**0.00**
002		**0.00**	**0.00**
003	**CAPITAL ADVANCES**	**0.00**	**0.00**
004	SECURED	0.00	0.00
005	Unsecured	0.00	0.00
006	COVERED BY BANK GUARANTEE	138,854,777.86	126,289,452.42
007	OTHERS	113,089,030.51	3,388,484.55
008	CONSIDERED DOUBTFUL	18,594,445.00	18,594,445.00
009	LESS: ALLOWANCE FOR BAD & DOUBTFUL ADVANCES	18,594,445.00	18,594,445.00
010	**Sub-Total**	**251,943,808.37**	**129,677,936.97**
011		0.00	0.00
012	Advances other than capital advances	0.00	0.00
013	SECURITY DEPOSITS	2,680,000.00	2,680,000.00
019	Advances to Related parties	0.00	0.00
022	**Advances to Contractors & Suppliers**	**0.00**	**0.00**
023	SECURED	0.00	0.00
024	UNSECURED	0.00	0.00
025	CONSIDERED DOUBTFUL	0.00	0.00
026	LESS: ALLOWANCE FOR BAD & DOUBTFUL ADVANCES	0.00	0.00
027	**Sub Total**	**2,680,000.00**	**2,680,000.00**
028	RECEIVABLE FROM MCP ESCROW A/C	0.00	0.00
039	ADVANCE TAX & TAX DEDUCTED AT SOURCE	5,928,327.71	3,981,569.59
040	LESS - PROVISION FOR CURRENT TAX	0.00	0.00
041		0.00	0.00
042	**Sub Total**	**5,928,327.71**	**3,981,569.59**
043	DEFERRED PAYROLL EXPENSES (SECURED)	38,245,783.96	44,962,095.30
044	DEFERRED PAYROLL EXPENSES (UNSECURED)	14,965,943.89	12,223,831.97
045	**Sub Total**	**53,211,727.85**	**57,185,927.27**
046	DEFERRED FOREIGN CURRENCY FLUCTUATION ASSET	1,000.00	1,000.00
048	**Total**	**313,764,863.93**	**193,526,733.83**
049		0.00	0.00
050		0.00	0.00
061	Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies	0.00	0.00
063		0.00	0.00
064	NTPC GE Power Services Pvt.Ltd.	0.00	0.00
065		0.00	0.00
066	Ratnagiri Gas & Power Private Ltd.	0.00	0.00
067	Aravali Power Company Private Ltd.	0.00	0.00
068	NTPC-SCCL Global Ventures Private Ltd.	0.00	0.00
069	NTPC BHEL Power Projects Private Ltd.	0.00	[illegible]
070	Meja Urja Nigam Private Limited	0.00	[illegible]

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NATIONAL CAPITAL POWER STATION

NOTE NO. 11 TO THE FS-NCA-OTHER NON-CURRENT ASSETS

(Amount in ₹)

	As at	31.03.2022	31.03.2021
071	Nabinagar Power Generating Company Ltd.	0.00	0.00
072	National High Power Test Laboratory Private Ltd.	0.00	0.00
074	CIL NTPC Urja Private Ltd.	0.00	0.00
076		0.00	0.00
077	**Related Party (Adv)**	**0.00**	**0.00**
078	Key Management personel	0.00	0.00
079	Subsidiary companies	0.00	0.00
080	Joint Venture companies	0.00	0.00
081	Contractors	0.00	0.00
082	Others	0.00	0.00
084		0.00	0.00
085	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 12 TO THE FS-CA-INVENTORIES (Amount in ₹)

	As at	31.03.2022	31.03.2021
001	**INVENTORIES**	**0.00**	**0.00**
002		**0.00**	**0.00**
003	Coal	2,574,669,655.05	1,283,173,804.35
004	Fuel oil	340,350,415.26	174,108,354.58
005	Naphtha	0.00	0.00
006	Stores and spares	1,399,331,240.17	1,455,539,967.56
007	Chemicals & consumables	124,457,413.26	106,039,717.16
008	Loose tools	5,372,629.79	5,098,466.86
009	Steel Scrap	2,313,576.95	2,340,854.93
010	Others	415,412,585.54	380,421,662.52
011	**Sub Total**	**4,861,907,526.02**	**3,407,722,856.96**
012	Less: Provision for shortages	9,535,688.00	39,067,579.52
013	Less: Provision for obsolete/ unservicable/diminution in value of surplus inventory	83,901,876.05	59,286,753.99
014		0.00	0.00
015	**Total**	**4,768,465,961.97**	**3,308,368,523.45**
016	**Inventories include material in transit**	**0.00**	**0.00**
017	Coal	87,212,195.00	0.00
018	Fuel oil	0.00	0.00
019	Naphtha	0.00	0.00
020	Stores and spares	4,986,658.95	12,708,128.46
021	Chemicals & consumables	2,097,835.38	972,000.00
022	Loose tools	0.00	0.00
023	Others	154,728.55	148,129.43
024		**0.00**	**0.00**
025	Inventory items other than steel scrap have been valued considering Note 1.	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 13 TO THE FS-CA-INVESTMENTS

(Amount in ₹)

	As at	No. of shares	Face value	31.03.2022	31.03.2021
001	**CURRENT INVESTMENTS**			[illegible]	[illegible]
002	**(Valuation as per Note 1)**			[illegible]	[illegible]
003				[illegible]	[illegible]
003	Investment in Mutual Funds (Details as under)			[illegible]	[illegible]
004	SBI-Magnum Insta Cash Fund-DDR			[illegible]	[illegible]
035	SBI Premier Liquid Fund Super-IP-DDR			[illegible]	[illegible]
036	SBI-S-IF Ultra Short Term Fund-IP-DDR			[illegible]	[illegible]
037	UTI Money Market- IP-Direct-Growth			[illegible]	[illegible]
038	IDBI Liquid plan- Direct Growth			[illegible]	[illegible]
039	Canara Robeco Liquid Fund Super-IP-DDR			[illegible]	[illegible]
040	Canara Robeco Treasury Advantage Fund Super-IP-DDR			[illegible]	[illegible]
041	IDBI Liquid Fund-DDR			[illegible]	[illegible]
042	SBI Premier Liquid fund Direct DDR (Aah Fund)			[illegible]	[illegible]
043	UTI Liquid CashPlan - IP - DDR (Aah Funds)			[illegible]	[illegible]
044	IDBI Liquid Fund - DDR - (Aah Funds)			[illegible]	[illegible]
045	Norron Liquid Fund - Direct - Growth			[illegible]	[illegible]
046	**Sub Total**			[illegible]	[illegible]
047				[illegible]	[illegible]
052	**Unquoted Investments**			[illegible]	[illegible]
054				[illegible]	[illegible]
055	**TOTAL**			[illegible]	[illegible]
057				[illegible]	[illegible]

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NATIONAL CAPITAL POWER STATION

NOTE NO. 14 TO THE FS-CA-TRADE RECEIVABLES

(Amount in ₹)

	As at	31.03.2022	31.03.2021
001	**TRADE RECEIVABLES (current)***	**0.00**	**0.00**
002		0.00	0.00
003	Secured,Considered Good	0.00	0.00
004	Unsecured , considered good	0.00	0.00
005	Credit impaired	0.00	0.00
006	Unbilled Revenue	0.00	0.00
007	**Sub-Total**	**0.00**	**0.00**
008	**Total**	**0.00**	**0.00**
009	Less: Allowance for credit impaired receivables	0.00	0.00
010	**Total**	**0.00**	**0.00**
012	Less: Discom Clearing	0.00	0.00
013	**Grand Total**	**0.00**	**0.00**
014	* After adjustment for Unbilled Revenue	0.00	0.00
015	Long-term trade receivables	0.00	0.00
016	TCS Clearing	0.00	0.00
017	Discom Clearing	0.00	0.00
228	**Trade Receivable**	**0.00**	**0.00**
230	Not due	0.00	0.00
231	Due	0.00	0.00
232	(i) Undisputed Trade receivables # considered good	0.00	0.00
233	(ii) Undisputed Trade Receivables # which have significant increase in credit risk	0.00	0.00
234	(iii) Undisputed Trade Receivables # credit impaired	0.00	0.00
235	(iv) Disputed Trade Receivables#considered good	0.00	0.00
236	(v) Disputed Trade Receivables # which have significant increase in credit risk	0.00	0.00
237	(vi) Disputed Trade Receivables # credit impaired	0.00	0.00
238	Unbilled	0.00	0.00
239	**Total**	**0.00**	**0.00**
240		0.00	0.00
241	**(i) Undisputed Trade receivables # considered good**	**0.00**	**0.00**
242	Less than 6 months	0.00	0.00
243	6 months - 1 year	0.00	0.00
244	1-2 years	0.00	0.00
245	2-3 years	0.00	0.00
246	More than 3 years	0.00	0.00
247	**Sub Total (i)**	**0.00**	**0.00**
248	**(ii) Undisputed Trade Receivables # which have significant increase in credit risk**	**0.00**	**0.00**
249	Less than 6 months	0.00	0.00
250	6 months - 1 year	0.00	0.00
251	1-2 years	0.00	0.00
252	2-3 years	0.00	0.00
253	More than 3 years	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 14 TO THE FS-CA-TRADE RECEIVABLES

(Amount in ₹)

	As at	31.03.2022	31.03.2021
254	**Sub Total (iii)**	**0.00**	**0.00**
255	***(iv) Disputed Trade Receivables#considered good***	**0.00**	**0.00**
256	Less than 6 months	0.00	0.00
257	6 months -1 year	0.00	0.00
258	1-2 years	0.00	0.00
259	2-3 years	0.00	0.00
260	More than 3 years	0.00	0.00
261	**Sub Total (IV)**	**0.00**	**0.00**
262	**(v) Disputed Trade Receivables # which have significant increase in credit risk**	**0.00**	**0.00**
263	Less than 6 months	0.00	0.00
264	6 months -1 year	0.00	0.00
265	1-2 years	0.00	0.00
266	2-3 years	0.00	0.00
267	More than 3 years	0.00	0.00
268	**Sub Total (V)**	**0.00**	**0.00**
269	**(vi) Disputed Trade Receivables # credit impaired**	**0.00**	**0.00**
270	Less than 6 months	0.00	0.00
271	6 months -1 year	0.00	0.00
272	1-2 years	0.00	0.00
273	2-3 years	0.00	0.00
274	More than 3 years	0.00	0.00
275	**Sub Total (VI)**	**0.00**	**0.00**
276	Total	0.00	0.00

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 15 TO THE FS-CA-CASH AND CASH EQUIVALENTS (Amount in ₹)

	As at	31.03.2022	31.03.2021
001	**CASH & BANK BALANCES**	**0.00**	**0.00**
002	**Cash & Cash Equivalents**	**0.00**	**0.00**
003	Balances with Banks	0.00	0.00
004	Cheques & Drafts on hand	0.00	0.00
005	Cash on hand	0.00	0.00
006	Others (stamps in hand)	115,421.00	128,755.00
007	Bank deposits with original maturity upto three months	0.00	0.00
008	Balances with RBI	0.00	0.00
009		0.00	0.00
010	**Total**	**115,421.00**	**128,755.00**

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Reason: AGM (Commercial)
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NATIONAL CAPITAL POWER STATION

NOTE NO. 16 TO THE FS-CA-BANK BALANCES OTHER THAN CASH AND CASH EQUIVALENTS (Amount in ₹)

	As at	31.03.2022	31.03.2021
001	**Other Bank Balances**	**0.00**	**0.00**
002	Deposits with original maturity of more than three months but not more than twelve months	0.00	0.00
003	Earmarked balances with banks*	0.00	0.00
004	**SubTotal**	**0.00**	**0.00**
005	Interest accrued on deposits	0.00	0.00
006		0.00	0.00
007	**Total**	**0.00**	**0.00**
008		0.00	0.00
009	**Earmarked balances with banks consist of :**	**0.00**	**0.00**
010	Unpaid dividend account balance	0.00	0.00
011	Towards public deposit repayment reserve	0.00	0.00
012	Towards redemption of bonds due for repayment within one year	0.00	0.00
013	Security with Government/other authorities	0.00	0.00
014	Unpaid refund/interest account balance - Tax free bonds/ Bonus Debentures	0.00	0.00
015	Earmarked for RGGVY/DDUGJY/SAUBHAGYA Fund	0.00	0.00
016	Earmarked for Flyash Utilisation Reserve Fund	0.00	0.00
017	Deposits with original maturity upto three months as per court orders	0.00	0.00
018	Payment Security Scheme of MNRE NSM (NTPC)	0.00	0.00
019	Payment Security Scheme of MNRE NSM (NVVN)	0.00	0.00
020	Enforcement Directorate of Solar Plant(NVVN)	0.00	0.00
021	Bank guarantee Fund of MNRE (NVVN)	0.00	0.00
022	Others	0.00	0.00
023	Margin Money	0.00	0.00
024		0.00	0.00
025		0.00	0.00
026	**Sub-total**	**0.00**	**0.00**
030	**Total**	**0.00**	**0.00**
031		0.00	0.00
032	Bank deposits with original maturity of less than three months- other than earmarked	0.00	0.00
033	Bank deposits with original maturity of more than three months but not more than twelve months- other than earmarked	0.00	0.00
034	Earmarked bank balances (current account)	0.00	0.00

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Reason: AGM (Commercial)
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 17 TO THE FS-CA-LOANS

[Amount in ₹]

	As at	31.03.2022	31.03.2021
001	**Current financial assets - Loans**	**0.00**	**0.00**
002	**Loans (current)-including interest accrued**	**0.00**	**0.00**
004	**Related Parties**	**0.00**	**0.00**
005	Secured	0.00	0.00
006	Un-Secured	0.00	0.00
007	With significant increase in Credit Risk	0.00	0.00
008	Credit impaired	0.00	0.00
009		**0.00**	**0.00**
010	**Employees**	**0.00**	**0.00**
011	Secured	41,671,418.02	40,415,720.79
012	Unsecured	91,737,918.65	72,559,961.79
013	With significant increase in Credit Risk	0.00	0.00
014	Credit impaired	0.00	0.00
015	Less : Employee Loans Discounting	0.00	0.00
016	**Loan to State Government in settlement of dues from customers (Unsecured)**	**0.00**	**0.00**
017		0.00	0.00
018	**Others**	**0.00**	**0.00**
019	Secured	0.00	0.00
020	Unsecured	0.00	0.00
021	With significant increase in Credit Risk	0.00	0.00
022	Credit impaired	0.00	0.00
023		**0.00**	**0.00**
024	Less: Allowance for credit impaired loans	0.00	0.00
025	**Total (Loans)**	**133,409,336.67**	**112,975,682.58**
026		**0.00**	**0.00**
027	**Due from Directors and Officers of the Company**	**0.00**	**0.00**
028	Directors	0.00	0.00
029	Officers	0.00	0.00
030		**0.00**	**0.00**
031	**Loans to related parties include:**	**0.00**	**0.00**
032	i)Key management personel	0.00	0.00
033	ii)Subsidiary companies	0.00	0.00
034	KBUNL	0.00	0.00
035	RGPPL	0.00	0.00
036	NVVN	0.00	0.00
037	iii)Joint Venture companies	0.00	0.00
038	iv)others	0.00	0.00
039		0.00	0.00
059	RPD	0.00	0.00
060	i)Key management personel	0.00	0.00
061	ii)Subsidiary companies	0.00	0.00
062	iii)Joint Venture companies	0.00	0.00
063	iv)Others	0.00	0.00
064		0.00	0.00
065	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 18 TO THE FS-CA-OTHER FINANCIAL ASSETS

(Amount in ₹)

	As at	31.03.2022	31.03.2021
001	**Other Financial Assets (current)**	**0.00**	**0.00**
002		0.00	0.00
003	**ADVANCES**	**0.00**	**0.00**
004		**0.00**	**0.00**
005	**Related Parties**	**0.00**	**0.00**
006	Secured	0.00	0.00
007	Un-Secured	-46,583,846.43	-11,321,245.16
008	Considered doubtful	0.00	0.00
009		**0.00**	**0.00**
010	**Employees**	**0.00**	**0.00**
012	Unsecured	12,022,309.11	3,971,856.22
013	Considered Doubtful	0.00	0.00
014		**0.00**	**0.00**
020	**Others**	**0.00**	**0.00**
021	Secured	0.00	0.00
022	Unsecured	-1,295,537.00	-826,920.20
023	Considered Doubtful	0.00	0.00
024		**0.00**	**0.00**
025	Less: Allowance for bad & doubtful advances	0.00	0.00
026		**0.00**	**0.00**
033	**Total (Advances)**	**-35,857,076.32**	**-8,276,307.08**
044		**0.00**	**0.00**
045	**Claims Recoverable**	**0.00**	**0.00**
046	Secured	0.00	0.00
047	Unsecured, considered good	3,371,801.00	2,551,126.00
048	Considered Doubtful	375,353.48	375,353.48
049	Less:- Allowance for doubtful claims	375,353.48	375,353.48
050	Others-Claims Recoverable	0.00	0.00
051		**0.00**	**0.00**
052	Contract Asset- Revenue	30,768,328.75	6,802,758.13
053	Hedging cost recoverable from beneficiaries	0.00	0.00
054	Derivative MTM Asset	0.00	0.00
055	Finance Lease Receivable	0.00	0.00
056	Mine Closure Deposit	0.00	0.00
058	**Other Accrued Income**	**0.00**	**0.00**
059	Secured Considered Good	0.00	0.00
060	Unsecured , considered good	30,714,613.49	59,409,724.60
061	Credit impaired	0.00	0.00
062	**Sub-Total**	**30,714,613.49**	**59,409,724.60**
063	Less: Allowance for credit impaired receivables	0.00	0.00
064	**Total**	**30,714,613.49**	**59,409,724.60**
065		0.00	0.00
066	Others*	0.00	0.00
067	**Total**	**29,897,666.92**	**[illegible]**
068	* Other include amount recoverable from contractors and other parties towards hire charges, rent/electricity etc.	0.00	[illegible]

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Date: 2022.[illegible] 17:14:30 IST

Reason: [illegible]

Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 18 TO THE FS-CA-OTHER FINANCIAL ASSETS

(Amount in ₹)

	As at	31.03.2022	31.03.2021
069	**Advances to related parties include:**	**0.00**	**0.00**
070	i)Key management personal	0.00	0.00
071	ii)Subsidiary companies	0.00	0.00
072	iii)Joint Venture companies	0.00	0.00
073	iv)Contractors	0.00	0.00
074	v)Others	0.00	0.00
075		**0.00**	**0.00**
076	Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies	0.00	0.00
077		**0.00**	**0.00**
078	NTPC GE Power Services Pvt.Ltd.	0.00	0.00
079	Ratnagiri Gas & Power Private Ltd.	0.00	0.00
080	Aravali Power Company Private Ltd.	0.00	0.00
081	NTPC-SCCL Global Ventures Private Ltd.	0.00	0.00
082	NTPC BHEL Power Projects Private Ltd.	0.00	0.00
083	Meja Urja Nigam Private Limited	0.00	0.00
084	Nabinagar Power Generating Company Ltd.	0.00	0.00
085	National High Power Test Laboratory Private Ltd.	0.00	0.00
086	International Coal Ventures Private Ltd.	0.00	0.00
087	CIL NTPC Urja Private Ltd.	0.00	0.00
088	Bangladesh-India Friendship Power Co. Pvt.Ltd.	0.00	0.00
090	TCS Cleaning	0.00	0.00
091	Related Party (Adv)- Employee	0.00	0.00
092	Related Party (Adv)- Subsidiaries	0.00	0.00
093	Related Party (Adv)- Joint Ventures	0.00	-5,892,096.00
094	Related Party (Adv)- Contractors	0.00	0.00
095	Related Party (Adv)- Others	-46,683,848.43	-5,429,149.10
096		0.00	0.00
097		0.00	0.00
098		0.00	0.00
099		0.00	0.00
100	**Total**	**-46,683,848.43**	**-11,321,245.10**

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Date: 2024 IST 14.29 IST

Reason: AOC Commercial

Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 19 TO THE FS-CA-OTHER CURRENT ASSETS

(Amount in ₹)

	As at	31.03.2022	31.03.2021
001	**OTHER CURRENT ASSETS**	**0.00**	**0.00**
002	Security Deposits (Unsecured)	0.00	0.00
003	Deposit with Customs, port trust & others*	18,152,893.00	18,052,893.00
004	**ADVANCES**	**0.00**	**0.00**
005		**0.00**	**0.00**
006	**Related Parties**	**0.00**	**0.00**
007	Secured	0.00	0.00
008	Un-Secured	0.00	0.00
009	Considered doubtful	0.00	0.00
010		**0.00**	**0.00**
011	**Employees(including imprest)**	**0.00**	**0.00**
012	Secured	0.00	0.00
013	Unsecured	5,847,242.12	373,403.12
014	Considered Doubtful	0.00	0.00
015		**0.00**	**0.00**
016	**Contractors & Suppliers**	**0.00**	**0.00**
017	Secured	0.00	0.00
018	Unsecured	1,343,803,017.31	1,181,138,028.35
019	Considered Doubtful	0.00	0.00
020		0.00	0.00
021	**Others****	**0.00**	**0.00**
022	Secured	0.00	0.00
023	Unsecured	7,602,363.43	862,447.00
024	Considered Doubtful	0.00	0.00
025	Less: Allowance for bad & doubtful advances	0.00	0.00
026	Receivable from MCP Escrow A/c	0.00	0.00
027	Deferred Payroll Expenses (Secured)	5,505,785.63	5,901,986.74
028	Deferred Payroll Expenses (Unsecured)	6,492,499.59	5,490,066.13
029	**Sub-total**	**11,998,285.22**	**11,392,052.87**
030	**Interest accrued on :**	**0.00**	**0.00**
031	Advances to contractors	0.00	0.00
032		**0.00**	**0.00**
033	**Claims Recoverable**	**0.00**	**0.00**
034	Secured	0.00	0.00
035	Unsecured, considered good	4,291,190,986.63	3,526,787,179.70
036	Considered Doubtful	0.00	0.00
037	Less:- Allowance for doubtful claims	0.00	0.00
038		**0.00**	**0.00**
039	Deferred premium on forward exchange contract/ Option Assets	0.00	0.00
041	Assets Held for Disposal	1,957,457.07	2,066,443.40
042	Others	1,418,827.48	1,374,559.74
043		0.00	0.00
044	**Total (Other Current Assets)**	**5,634,950,962.36**	**4,742,035,807.18**
045	**Include Prepaid Expenses	7,015,989.43	[illegible]
046	*Includes sales tax/Entry tax/VAT deposited under protest with Sales Tax Authorities	16,534,962.05	[illegible]

Locked: 27.04.2022 - 17.44.02

Run on: 27.04.2022 - 18:09:03 Version: 0

NATIONAL CAPITAL POWER STATION

NOTE NO. 19 TO THE FS-CA-OTHER CURRENT ASSETS

(Amount in ₹)

	As at	31.03.2022	31.03.2021
047	*Includes deposited with courts	0.00	0.00
048	*Includes deposited with LIC for annuity payments	0.00	0.00
049	* Includes deposits with WRD / against BG in r/o finance lease	0.00	0.00
050	Other include amount recoverable from contractors and other parties towards hire charges, rent/electricity etc.	0.00	0.00
052	**Advances to related parties include:**	**0.00**	**0.00**
053	i)Key management personel	0.00	0.00
054	ii)Subsidiary companies	0.00	0.00
055	iii)Joint Venture companies	0.00	0.00
056	Contractors	0.00	0.00
057	Others	0.00	0.00
058		0.00	0.00
059	Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies	0.00	0.00
060		**0.00**	**0.00**
061		0.00	0.00
062	Related Party (Adv)- Employee	0.00	0.00
063	Related Party (Adv)- Subsidiaries	0.00	0.00
064	Related Party (Adv)- Joint Venture	0.00	0.00
065		0.00	0.00
066		0.00	0.00
067	**Total**	**0.00**	**0.00**
068		0.00	0.00

Document verified by PARWAN PITUSH
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Date: 2024 IST 14:24 IST
Reason: AOA Commercial
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 20 TO THE FS--REGULATORY DEFERRAL ACCOUNT DEBIT BALANCES

(Amount in ₹)

	As at	31.03.2022	31.03.2021
001	On account of Exchange Differences	-57,530,663.99	-5,010,839.18
002	On account of employee benefit exp	404,045,499.00	404,045,499.00
003	Regulatory deferred account - deferred	0.00	0.00
004	Deferred asset for ash transportation	0.00	0.00
005	Deferred asset for Arbitration Award	0.00	0.00
007	**Total**	**346,514,835.01**	**399,034,849.82**

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Date: 2024 IST 14.29 IST
Reason: AOA Commercial
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 21 TO THE FS-EQUITY-EQUITY SHARE CAPITAL

(Amount in ₹)

	As at	31.03.2022	31.03.2021
001	**SHARE CAPITAL**	**0.00**	**0.00**
002	**Equity Share Capital**	**0.00**	**0.00**
003	**Authorised**	**0.00**	**0.00**
004	10,000,000,000 equity shares of Rs.10/- each (Previous year 10,000,000,000 eq shares of Rs.10/- each)	0.00	0.00
005	**Issued,Subscribed and fully Paid-up**	**0.00**	**0.00**
006	9,69,66,66,134 equity shares of Rs.10/- (Pv. Year 9,694,557,280 equity shares of Rs.10/- each)	0.00	0.00
007		**0.00**	**0.00**
008	**Total**	**0.00**	**0.00**
009	During FY 2018-19, the company has issued 1,649,092,880 equity shares of Rs.10/- each as fully paid bonus shares	0.00	0.00
010	The holders of the equity shares are entitled to receive dividends as declared from time to time, and are entitled to one vote per share at meetings of the company.	0.00	0.00
011	Details of shareholders holding more than 5% shares in the company	0.00	0.00
012	- President of India	0.00	0.00
013	No. of Shares	0.00	0.00
014	% of holding	0.00	0.00
015	- Life Insurance Corporation of India/ICICI Prudential Mutual Fund	0.00	0.00
016	No. of Shares	0.00	0.00
017	% of holding	0.00	0.00

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Run on: 27.04.2022 - 18:09:11 Version: 0

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Date: 2024 IST 14:24 IST
Reason: AGM (Commercial)
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 22 TO THE FS-EQUITY-OTHER EQUITY

(Amount in ₹)

	As at	31.03.2022	31.03.2021
001	RESERVE AND SURPLUS	0.00	0.00
002		**0.00**	**0.00**
003	**Capital Reserve**	**0.00**	**0.00**
004	As per last financial statements	0.00	0.00
006	Add : Grants received during the year	0.00	0.00
007	Add: Transfer from Surplus	0.00	0.00
008	Less: Write back during the year/period	0.00	0.00
009	Less: Adjustments during the year/period	0.00	0.00
010	**SUB-TOTAL**	**0.00**	**0.00**
011		0.00	0.00
017		0.00	0.00
018	**SECURITIES PREMIUM ACCOUNT**	**0.00**	**0.00**
019	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
020	ADD: ADDITIONS DURING THE YEAR/PERIOD	0.00	0.00
021	LESS: ADJUSTMENTS DURING THE YEAR/PERIOD	0.00	0.00
022	**SUB-TOTAL**	**0.00**	**0.00**
023	**BONDS REDEMPTION RESERVE**	**0.00**	**0.00**
024	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
025	ADD: TRANSFER FROM SURPLUS	0.00	0.00
026	LESS: TRANSFER TO SURPLUS ON REDEMPTION	0.00	0.00
027	LESS: ADJUSTMENTS DURING THE YEAR/ PERIOD	0.00	0.00
028	**SUB-TOTAL**	**0.00**	**0.00**
029	**CAPITAL REDEMPTION RESERVE**	**0.00**	**0.00**
030	As per last financial statements	0.00	0.00
031	Add: Transfer from Surplus	0.00	0.00
032	Less: Transfer to surplus on redemption	0.00	0.00
033	Less: Adjustments during the year/ period	0.00	0.00
034	**Sub-Total**	**0.00**	**0.00**
035	**Share Application money pending Allotment**	**0.00**	**0.00**
036	As per last financial statements	0.00	0.00
037	Add: Addition during the year	0.00	0.00
038	Less: Utilised for allotment during the year	0.00	0.00
039	Less: Adjustments during the year/ period	0.00	0.00
040	**SUB-TOTAL**	**0.00**	**0.00**
046	**FLY-ASH UTILISATION RESERVE FUND**	**0.00**	**0.00**
047	AS PER LAST FINANCIAL STATEMENTS	2,528,217,208.93	2,227,873,695.77
048	TRANSFERRED TO CC	0.00	0.00
049	ADD TRANSFER FROM REVENUE FROM OPERATIONS	485,023,554.64	300,343,513.16
050	ADD TRANSFER FROM OTHER INCOME	0.00	0.00
051	LESS: UTILISED DURING THE YEAR	0.00	0.00
052	TANGIBLE ASSETS	0.00	
053	EMPLOYEE BENEFIT EXPENSES	0.00	
054	GENERATION,ADMN. AND OTHER EXPENSES	0.00	

Locked: 27.04.2022 - 17:43:50

Run on: 27.04.2022 - 18:09:13 Version: 0

NATIONAL CAPITAL POWER STATION

NOTE NO. 22 TO THE FS-EQUITY-OTHER EQUITY

(Amount in ₹)

	As at	31.03.2022	31.03.2021
056	TAX EXPENSES	0.00	0.00
056	**SUB-TOTAL**	**3,013,240,762.57**	**2,528,217,203.93**
057	Self Insurance Reserve	0.00	0.00
058	As per last financial statements	0.00	0.00
059	Add: Addition during the year	0.00	0.00
060	Less: Utilised for allotment during the year	0.00	0.00
061	Less: Adjustments during the year/ period	0.00	0.00
062	SUB-TOTAL	0.00	0.00
063	**SPECIAL ALLOWANCE RESERVE FUND**	**0.00**	**0.00**
064	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
065	ADD: ADDITION DURING THE YEAR	0.00	0.00
066	LESS: UTLISED FOR ALLOTMENT DURING THE YEAR	0.00	0.00
067	LESS: ADJUSTMENTS DURING THE YEAR/ PERIOD	0.00	0.00
068	**SUB-TOTAL**	**0.00**	**0.00**
069	**CORPORATE SOCIAL RESPONSIBILITY (CSR) RESERVE**	**0.00**	**0.00**
070	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
071	ADD : TRANSFER FROM SURPLUS	0.00	0.00
072	LESS: WRITE BACK DURING THE YEAR	0.00	0.00
073	**SUB-TOTAL**	**0.00**	**0.00**
074	**GENERAL RESERVE**	**0.00**	**0.00**
075	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
076	ADD: TRANSFER FROM SURPLUS	0.00	0.00
077	LESS: TRANSFER TO SURPLUS	0.00	0.00
078	LESS: WRITE BACK DURING THE YEAR /PERIOD	0.00	0.00
079	LESS: ADJUSTMENTS DURING THE YEAR /PERIOD	0.00	0.00
080	**SUB-TOTAL**	**0.00**	**0.00**
081		**0.00**	**0.00**
082	**RETAINED EARNINGS**	**0.00**	**0.00**
083	AS PER LAST FINANCIAL STATEMENTS	131,669,824,469.38	124,324,944,747.37
084	ADD(LESS)-CHANGES IN ACCOUNTING POLICY / PRIOR PERIOD ERRORS	0.00	0.00
085	ADD(LESS)-PROFIT (LOSS) AFTER TAX FOR THE YEAR FROM STATEMENT OF PROFIT & LOSS	1,322,843,165.23	6,864,679,712.01
087	ADD: WRITE BACK FROM BOND REDEMPTION RESERVE	0.00	0.00
088	ADD: WRITE BACK FROM CAPITAL RESERVE	0.00	0.00
089	ADD: WRITE BACK FROM FOREIGN PROJECT RESERVE	0.00	0.00
090	ADD: WRITE BACK FROM CSR RSSERVE	0.00	0.00
091	ADD: WRITE BACK FROM GENERAL RESERVE	0.00	[illegible]
093	LESS: TRANSFER TO BONDS REDEMPTION RESERVE	0.00	[illegible]

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Date: 2024.[illegible] 14:26:07
Reason: [illegible]
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 22 TO THE FS-EQUITY-OTHER EQUITY

[Amount in ₹]

	As at	31.03.2022	31.03.2021
094	LESS: TRANSFER TO SPECIAL ALLOWANCE RESERVE FUND	0.00	0.00
095	LESS: TRANSFER TO FOREIGN PROJECT RESERVE	0.00	0.00
096	LESS:TRANSFER TO CAPITAL RESERVE	0.00	0.00
097	LESS:TRANSFER TO CSR RESERVE	0.00	0.00
098	LESS:TRANSFER TO GENERAL RESERVE	0.00	0.00
099	LESS:INTERIM DIVIDEND PAID	0.00	0.00
100	LESS:TAX ON INTERIM DIVIDEND PAID	0.00	0.00
101	LESS:FINAL DIVIDEND PAID	0.00	0.00
102	LESS:TAX ON FINAL DIVIDEND PAID	0.00	0.00
103	LESS: ISSUE OF BONUS DEBENTURE	0.00	0.00
104	LESS: TAX ON ISSUE OF BONUS DEBENTURE	0.00	0.00
105	**SUB-TOTAL**	**133,012,467,624.61**	**131,589,624,459.38**
110		0.00	0.00
111	**REMEASUREMENT OF DEFINED BENEFIT PLANS**	**0.00**	**0.00**
112	AS PER LAST FINANCIAL STATEMENTS	-269,945,505.67	-234,052,118.90
113	ADD/(LESS):- ACTUARIAL GAINS/LOSS THROUGH OCI	-15,174,235.26	-35,893,386.77
114	**SUB-TOTAL**	**-285,119,740.93**	**-269,945,505.67**
115		0.00	0.00
116	**FVTOCI Reserve**	**0.00**	**0.00**
117	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
118	ADD(LESS): NET GAIN/LOSS OF EQUITY INSTRUMENTS THROUGH OCI	0.00	0.00
119	**Sub-Total**	**0.00**	**0.00**
120		**0.00**	**0.00**
121	**Total Other equity**	**135,740,588,547.25**	**133,947,896,162.64**
122		0.00	0.00
123		0.00	0.00
124		0.00	0.00
125		0.00	0.00
126		0.00	0.00
127		0.00	0.00
128		0.00	0.00

Document verified by PARIMAL PITLISH
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Date: 2024 IST 14:24 IST
Reason: AOC (commercial)
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

(Amount in ₹)

As at	31.03.2022	31.03.2021

Locked: 27.04.2022 - 17:44:02
Run on: 27.04.2022 - 18:09:16 Version: 0

Digitally signed by
Date: 2024
Reason: AOA
Location: NTPC

NATIONAL CAPITAL POWER STATION

NOTE NO. 23 TO THE FS-NCL-BORROWINGS

(Amount in ₹)

	As at	31.03.2022	31.03.2021
001	**LONG TERM BORROWINGS**	**0.00**	**0.00**
002	**Bonds**	**0.00**	**0.00**
003	**Secured**	**0.00**	**0.00**
004	7.37 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2035 (Fifty Sixth Issue - Public Issue - Series 3A).	0.00	0.00
005	7.62 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2035 (Fifty Sixth Issue - Public Issue - Series 3 B).	0.00	0.00
006	8.61% Tax free secured non-cumulative non-convertible redeemable bonds of ₹ 10,00,000/- each redeemable at par in full on 4th March 2034 (Fifty First Issue C - Private Placement)	0.00	0.00
007	8.66% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2033 (Fiftieth Issue - Public Issue - Series 3A)	0.00	0.00
008	8.91% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2033 (Fiftieth Issue - Public Issue - Series 3B)	0.00	0.00
009	7.37% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 14th December 2031 (Sixty Sixth Issue - Private Placement)	0.00	0.00
010	7.49% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 7th November 2031 (Sixty Fourth Issue - Private Placement)	0.00	0.00
011	7.28 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2030 (Fifty Sixth Issue - Public Issue - Series	0.00	0.00

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(Amount in ₹)

	As at	31.03.2022	31.03.2021
	2A)		
012	7.53 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2030 (Fifty Sixth Issue - Public Issue - Series 2 B).	0.00	0.00
013	7.32% Secured non-cumulative non-convertible redeemable taxable bonds of Rs 10,00,000/- each redeemable at par in full on 17 July 2029 (Sixty Ninth Issue - Private Placement)	0.00	0.00
014	8.63% Tax free secured non-cumulative non-convertible redeemable bonds of ₹ 10,00,000/- each redeemable at par in full on 4th March 2029 (Fifty First Issue B - Private Placement)	0.00	0.00
015	8.30% Secured non-cumulative non-convertible redeemable taxable bonds of Rs 10,00,000/- each redeemable at par in full on 15 January 2029 (Sixty Seventh Issue - Private Placement)	0.00	0.00
016	8.48% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2028 (Fiftieth Issue - Public Issue - Series 2A)	0.00	0.00
017	8.73% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2028 (Fiftieth Issue - Public Issue - Series 2B)	0.00	0.00
018	7.47% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 16th September 2026 (Sixty Third Issue - Private Placement)	0.00	0.00
019	7.58% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in	0.00	0.00

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[Amount in ₹]

	As at	31.03.2022	31.03.2021
	full on 23rd August 2026 (Sixty Second Issue - Private Placement)		
020	8.05% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 5th May 2026 (Sixtieth Issue - Private Placement)	0.00	0.00
021	8.19% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 15th December 2025 (Fifty Seventh Issue - Private Placement)	0.00	0.00
022	7.11 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2025 (Fifty Sixth Issue - Public Issue - Series 1A).	0.00	0.00
023	7.36 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2025 (Fifty Sixth Issue - Public Issue - Series 1 B).	0.00	0.00
024	7.15% Tax free secured non-cumulative non-convertible redeemable bonds - 2015 of Rs. 10,00,000/- each redeemable at par in full on 21st August 2025 (Fifty Fifth Issue - Private Placement)	0.00	0.00
025	9.17% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 22nd September 2024 (53rd issue - private placement)	0.00	0.00
026	9.34% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 24th March 2024 (Fifty Second Issue - private placement)	0.00	0.00
027	8.19% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 10,00,000/- each redeemable at	0.00	0.00

	As at	31.03.2022	31.03.2021
	par in full on 4th March 2024 (Fifty First Issue A - Private Placement)		
028	8.41% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2023 (Fiftieth Issue - Public Issue - Series 1A)	0.00	0.00
029	8.66% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2023 (Fiftieth Issue - Public Issue - Series 1B)	0.00	0.00
030	9.25% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each with five equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 11th year and in annual installments thereafter upto the end of 15th year respectively commencing from 4th May 2023 and ending on 4th May 2027 (Forty fourth issue - private placement)VII	0.00	0.00
031	8.48% Secured non-cumulative non-nonvertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 1st May 2023 (Seventeenth issue - private placement)I	0.00	0.00
032	8.80% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 4th April 2023 (Forty ninth issue -private placement	0.00	0.00
033	8.49% Secured non-cumulative non-convertible redeemable taxable fully paid up bonus debentures of Rs. 12.50 each redeemable at par in three annual installments of Rs. 2.50, Rs. 5.00 and Rs. 5.00 at the end of 8th year, 9th year and 10th year on 25th March 2023, 25th March 2024 and 25th March 2025 respectively (Fifty Fourth Issue -Bonus Debentures)X - (refer Note 5 a)	0.00	0.00
034	8.73% Secured non-cumulative	0.00	

(Amount in ₹)

	As at	31.03.2022	31.03.2021
	non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 07th March 2023 (Forty eighth issue - private placement)		
035	9.00% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each with five equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 11th year and in annual installments thereafter upto the end of 15th year respectively commencing from 25th January 2023 and ending on 25th January 2027 (Forty second issue- private placement)III	0.00	0.00
036	8.84% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 4th October 2022 (Forty seventh issue- private placement)VII	0.00	0.00
037	7.93% Secured non-cumulative non-convertible redeemable taxable bonds of ` 10,00,000/- each redeemable at par in full on 03 May 2022 (68th Issue - Private Placement)	0.00	0.00
038	6.72% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 24th November 2021 (Sixty Fifth Issue - Private Placement)	0.00	0.00
039	8.10% Secured Non-Cumulative Non-Convertible Redeemable Taxable Bonds of Rs. 30,00,000/- each redeemable at par in three equal separately transferable redeemable principal parts (STRPP) at the end of 5th year, 10th year & 15th year on 27th May 2021, 27th May 2026 and 27th May 2031 respectively (Sixty First Issue- Private Placement)	0.00	0.00
040	8.33% Secured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in full on 24th February 2021	0.00	0.00

(Amount in ₹)

	As at	31.03.2022	31.03.2021
	(Fifty Ninth Issue - Private Placement).		
042	8.93% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 19th January 2021 Thirty seventh issue - private placement)III	0.00	0.00
043	8.18% Secured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in full on 31st December 2020 (Fifty Eight Issue - Private Placement).	0.00	0.00
044	8.73 % Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 31st March 2020 (Thirty third issue- private placement)III	0.00	0.00
045	8.78 % Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 9th March 2020 (Thirty first issue- private placement)III	0.00	0.00
046	11.25% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in five equal annual installments commencing from 6th Nov 2019 and ending on 6th Nov 2023 (Twenty seventh issue - private placement)III	0.00	0.00
047	7.89% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 5th May 2019 (Thirtieth issue - private placement)III	0.00	0.00
048	8.65% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 4th February 2019 (Twenty ninth issue - private placement)III	0.00	0.00
049	7.50% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full	0.00	0.00

(Amount in ₹)

	As at	31.03.2022	31.03.2021
	on 12th January 2019 (Nineteenth issue - private placement)ii		
050	11% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 21st November 2018 (Twenty eighth issue - private placement)iii	0.00	0.00
051	9.3473% Secured non-cumulative non-convertible redeemable taxable bonds of ₹15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 20th July 2018 and ending on 20th July 2032 (Forty sixth issue - private placement)vii	0.00	0.00
052	9.4376% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 16th May 2018 and ending on 16th May 2032 (Forty fifth issue - private placement)vii	0.00	0.00
053	8.00% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 10th April 2018 (Sixteenth issue -private placement)i	0.00	0.00
054	9.2573% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 2nd March 2018 and ending on 2nd March 2032 (Forty third issue - private placement)iii	0.00	0.00
055	9.6713% Secured non-cumulative non-convertible redeemable taxable bonds	0.00	

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(Amount in ₹)

	As at	31.03.2022	31.03.2021
	of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 23rd December 2017 and ending on 23rd December 2031 (Forty first issue - private placement)(ii)		
066	9.558% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 29th July 2017 and ending on 29th July 2031(Fourtieth issue-private placement)(ii)	0.00	0.00
067	9.3896% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 9th June 2017 and ending on 9th June 2031(Thirty ninth issue-private placement)(ii)	0.00	0.00
068	9.17% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 22nd March 2017 and ending on 22nd March 2031(Thirty eighth issue-private placement)(ii)	0.00	0.00
069	8.8086% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th	0.00	0.00

[Amount in ₹]

	As at	31.03.2022	31.03.2021
	year and in annual installments thereafter upto the end of 20th year respectively commencing from 15th December 2016 and ending on 15th December 2030 (Thirty sixth issue - private placement)III		
060	8.785% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 15th September 2016 and ending on 15th September 2030 (Thirty fifth issue - private placement)III	0.00	0.00
061	8.71% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 10th June 2016 and ending on 10th June 2030 (Thirty fourth issue - private placement)III	0.00	0.00
062	8.8493% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 25th March 2016 and ending on 25th March 2030 (Thirty second issue - private placement)III	0.00	0.00
063	9.37% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 70,00,000/- each with fourteen separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 4th June 2012 and ending on 4th December 2018 (Twenty fifth issue -	0.00	0.00

	As at	31.03.2022	31.03.2021
	private placement)iii		
065	9.06% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 70,00,000/- each with fourteen separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 4th June 2012 and ending on 4th December 2018 (Twenty sixth issue - private placement)iii	0.00	0.00
066	8.6077% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 9th September 2011 and ending on 9th March 2021 (Twenty fourth issue - private placement)iv	0.00	0.00
067	8.3796% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 5th August 2011 and ending on 5th February 2021 (Twenty third issue - private placement)iv	0.00	0.00
068	8.1771% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 2nd July 2011 and ending on 2nd January 2021 (Twenty second issue - private placement)iv	0.00	0.00
069	7.7125% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 2nd August 2010 and ending on 2nd February 2020 (Twenty first issue - private placement)iv	0.00	0.00
070	7.552% Secured non-cumulative non-convertible redeemable taxable bonds	0.00	

	As at	31.03.2022	31.03.2021
	of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 23rd September 2009 and ending on 23rd March 2019 (Twentieth issue - private placement)VI		
071	9.55% Secured non-cumulative non-convertible taxable redeemable bonds of ₹ 10,00,000/- each with ten equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of the 6th year and in annual installments thereafter upto the end of 15th year respectively from 30th April 2002 (Thirteenth issue - Part B - private placement)VIII	0.00	0.00
072	9.55% Secured non-cumulative non-convertible taxable redeemable bonds of ₹ 10,00,000/- each redeemable at par in ten equal annual installments commencing from the end of 6th year and upto the end of 15th year respectively from 18th April 2002 (Thirteenth issue -Part A - private placement)VIII	0.00	0.00
075		0.00	0.00
076		0.00	0.00
077	**Sub Total**	**0.00**	**0.00**
078	**Unsecured**	**0.00**	**0.00**
079	6.55% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 17 April 2023 (Seventieth Issue - Private Placement)	0.00	0.00
080	6.29% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 11 April 2031 (Seventy First Issue - Private Placement)	0.00	0.00
081	5.45% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 15 October 2025 (Seventy Second Issue - Private Placement)	0.00	0.00
082	6.41% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in	0.00	

(Amount in ₹)

	As at	31.03.2022	31.03.2021
	full on 27 January 2031 (Seventy Third Issue - Private Placement)		
083	6.87% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 21 April 2036 (Seventy Fourth Issue - Private Placement)	0.00	0.00
084	6.69% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 13 September 2031 (Seventy Fifth Issue - Private Placement)	0.00	0.00
085	6.74% Unsecured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in full on 14 April 2032 (Seventy Sixth Issue - Private Placement)	0.00	0.00
086		0.00	0.00
087		0.00	0.00
088		0.00	0.00
089	**Sub-total**	**0.00**	**0.00**
090	**Total**	**0.00**	**0.00**
091	**Foreign Currency Notes-Unsecured**	**0.00**	**0.00**
092	4.50% Fixed Rate Notes Due for repayment on 19th March 2028	0.00	0.00
093	2.75% Fixed rate notes due for repayment on 1st February 2027	0.00	0.00
094	4.25 % Fixed rate notes due for repayment on 26th February 2026	0.00	0.00
095	4.375% Fixed Rate Note due for repayment on 26th November 2024	0.00	0.00
096	4.75 % Fixed Rate Notes due for repayment on 3rd Oct 2022	0.00	0.00
097	7.25 % Fixed green global INR denominated bonds due on 3 May 2022	0.00	0.00
098	7.375 % Fixed green global INR denominated bonds due on 10 August 2021	0.00	0.00
099	5.625% Fixed Rate Notes due for repayment on 14th July 2021	0.00	0.00
100	3.75 % Fixed rate notes due for repayment on 03 April 2024	0.00	0.00
101		0.00	0.00
102		0.00	0.00
103		0.00	0.00
104	**Sub Total**	**0.00**	**0.00**
105	**Term Loans**	**0.00**	**0.00**
106	**From Banks**	**0.00**	**0.00**
107	**Secured**	**0.00**	**0.00**
108	Rupee Loans	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 23 TO THE FS-NCL-BORROWINGS

(Amount in ₹)

	As at	31.03.2022	31.03.2021
109	**Unsecured**	**0.00**	**0.00**
110	Foreign Currency Loans	0.00	0.00
111	Rupee Loans	0.00	0.00
112	**From Others**	**0.00**	**0.00**
113	**Secured**	**0.00**	**0.00**
114	Rupee Loans	0.00	0.00
115	Foreign Currency loans (guaranteed by GOI)	0.00	0.00
116	**Unsecured**	**0.00**	**0.00**
117	Foreign Currency loans (guaranteed by GOI)	0.00	0.00
118	Other Foreign currency loans	0.00	0.00
120	Rupee Loans	0.00	0.00
121	**Deposits**	**0.00**	**0.00**
122	**Unsecured**	**0.00**	**0.00**
123	Fixed Deposits	0.00	0.00
124	**Others**	**0.00**	**0.00**
125	**Unsecured**	**0.00**	**0.00**
126	Bonds Application Money Pending Allotment	0.00	0.00
127	**Sub-total**	**0.00**	**0.00**
128	**Total**	**0.00**	**0.00**
129	Less:- Interst accrued but not due on secured borrowings	0.00	0.00
130	Less - Interst accrued but not due on unsecured borrowings	0.00	0.00
131	Less - Current maturities of long term borrowings	0.00	0.00
132	Bonds-Secured	0.00	0.00
133	Fixed Rate Notes	0.00	0.00
135	Foreign currency loans from Banks- unsecured	0.00	0.00
136	Rupee loans from banks- Secured	0.00	0.00
137	Rupee loans from banks- unsecured	0.00	0.00
138	Rupee Term loan from Others - Secured	0.00	0.00
139	Foreign currency loans from others- unsecured (Guaranteed by GOI)	0.00	0.00
140	Other foreign currency loans from others- unsecured	0.00	0.00
141	Rupee loans from others- unsecured	0.00	0.00
142		0.00	0.00
143		0.00	0.00
144		0.00	0.00
145		0.00	0.00
146		0.00	0.00
147		0.00	0.00
148		0.00	0.00
149		0.00	0.00
150		0.00	0.00
151		0.00	0.00
200	**Total**	**0.00**	**0.00**

NATIONAL CAPITAL POWER STATION

NOTE NO. 24 TO THE FS-NCL-TRADE PAYABLES

[Amount in ₹]

	As at	31.03.2022	31.03.2021
001	**TRADE PAYABLES(NON CURRENT)**	**0.00**	**0.00**
002	**For Goods and Services**	**0.00**	**0.00**
003	- Micro & Small Enterprises	6,517,044.67	3,432,605.74
004	- Others	5,038,712.06	1,529,995.58
005		0.00	0.00
006	**Total**	**11,555,756.73**	**4,962,601.32**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 25 TO THE FS-NCL-OTHER FINANCIAL LIABILITIES [Amount in ₹]

	As at	31.03.2022	31.03.2021
001	**OTHER FINANCIAL LIABILITIES (NON-CURRENT)**	**0.00**	**0.00**
002	Payable for Capital Expenditure	0.00	0.00
003	- Micro & Small Enterprises	335,444.50	131,758.45
004	- Others	1,236,743.49	680,920.29
005	Others	0.00	0.00
006	Deposits from contractors and others	0.00	0.00
007		0.00	0.00
008		0.00	0.00
009	**Total**	**1,572,187.99**	**812,678.74**

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 26 TO THE FS-NCL PROVISIONS

(Amount in ₹)

	As at	31.03.2022	31.03.2021
001	**LONG TERM PROVISIONS**	**0.00**	**0.00**
002	***Provision for Employee Benefits***	**0.00**	**0.00**
003	Opening Balance	0.00	0.00
004	Additions/ (adjustments) during the year	0.00	0.00
005	**Closing Balance**	**0.00**	**0.00**
006		0.00	0.00
007	**Others**	**0.00**	**0.00**
008	**i) Mine Closure Provision**	**0.00**	**0.00**
009	Opening Balance	0.00	0.00
010	Additions during the year	0.00	0.00
011	Amounts adjusted during the year	0.00	0.00
012	Amounts reversed during the year	0.00	0.00
013	**Closing Balance**	**0.00**	**0.00**
014		0.00	0.00
015	**ii) Stripping Activity Adjustments**	**0.00**	**0.00**
016	Opening Balance	0.00	0.00
017	Additions during the year	0.00	0.00
018	Amounts adjusted during the year	0.00	0.00
019	Amounts reversed during the year	0.00	0.00
020	**Closing Balance**	**0.00**	**0.00**
021		0.00	0.00
024		0.00	0.00
025	**TOTAL**	**0.00**	**0.00**

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Location: NTPC Limited

NOTE NO. 27 TO THE FS-NCL-DEFERRED TAX LIABILITIES (NET)

[Amount in ₹]

	As at	Open Balance on 01.04.2021	Addition	Closing Balance on 31.03.2022
001	**DEFERRED TAX LIABILITIES (NET)**			
002	Difference of book depreciation and tax depreciation	0.00	0.00	0.00
003	Less: Deferred tax assets			
004	Provisions & Other disallowances for tax purposes	0.00	0.00	0.00
005	Unabsorbed Depreciation	0.00	0.00	0.00
006	Disallowances u/s 43B of the Income Tax Act, 1961	0.00	0.00	0.00
007	Others	0.00	0.00	0.00
008	Opening Balance	0.00	0.00	0.00
009	Additions during the year	0.00	0.00	0.00
010	Amounts adjusted during the year	0.00	0.00	0.00
011	Amounts reversed during the year	0.00	0.00	0.00
012	Closing Balance	0.00	0.00	0.00
013	MAT credit entitlement	0.00	0.00	0.00
014	**Total**	**0.00**	**0.00**	**0.00**
015	**Total**	**0.00**	**0.00**	**0.00**
016	Breakup of deferred tax assets	0.00	0.00	0.00
017	Provision	0.00	0.00	0.00
018	Statutory dues	0.00	0.00	0.00
019	Leave encashment	0.00	0.00	0.00
020	Others	0.00	0.00	0.00
021		0.00	0.00	0.00
022		0.00	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 28 TO THE FS-NCL-OTHER NON-CURRENT LIABILITIES (Amount in ₹)

	As at	31.03.2022	31.03.2021
001	Other Non current Liabilities	0.00	0.00
002	Advances from customers and others	0.00	0.00
003	Deposits from contractors and others	0.00	0.00
004	Grants	0.00	0.00
005	**TOTAL**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 29 TO THE FS-CL-BORROWINGS

(Amount in ₹)

	As at	31.03.2022	31.03.2021
001	**Short Term Borrowings**	**0.00**	**0.00**
002	**Loans repayable on demand**	**0.00**	**0.00**
003	**From Banks**	**0.00**	**0.00**
004	**Secured**	**0.00**	**0.00**
005	Cash Credit	0.00	0.00
006	**Unsecured**	**0.00**	**0.00**
007	Cash Credit	0.00	0.00
008	**Other loans-unsecured**	**0.00**	**0.00**
009	Commercial Papers	0.00	0.00
010	Less: Unamortised discount on Commercial Papers	0.00	0.00
011	**Sub-Total**	**0.00**	**0.00**
012	**Current maturity of long term borrowings**	**0.00**	**0.00**
013	Bonds-Secured	0.00	0.00
014	Foreign Currency Fixed Rate Notes	0.00	0.00
015	**From Banks**	**0.00**	**0.00**
016	**Secured**	**0.00**	**0.00**
017	Rupee Term Loan	0.00	0.00
018	Foreign currency loans	0.00	0.00
019	**Unsecured**	**0.00**	**0.00**
020	Foreign currency loans	0.00	0.00
021	Rupee term loans	0.00	0.00
022	**From Others**	**0.00**	**0.00**
023	**Secured**	**0.00**	**0.00**
024	Rupee Term Loan	0.00	0.00
025	**Unsecured**	**0.00**	**0.00**
026	Foreign currency loans (Guaranteed by Government of India)	0.00	0.00
027	Other foreign currency loans	0.00	0.00
028	Rupee term loans	0.00	0.00
029	Fixed deposits	0.00	0.00
031	Sub Total	0.00	0.00
032	**TOTAL**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 30 TO THE FS-CL-TRADE PAYABLES

(Amount in ₹)

	As at	31.03.2022	31.03.2021
001	**TRADE PAYABLES**	**0.00**	**0.00**
002	For Goods and Services	0.00	0.00
003	- Micro & Small Enterprises	106,761,225.15	105,656,010.95
004	- Others	4,300,214,341.89	1,742,572,616.08
005		0.00	0.00
006	**Total**	**4,406,975,567.04**	**1,848,228,627.03**
007		0.00	0.00
172	**Trade payable**	**0.00**	**0.00**
173	**MSME**	**0.00**	**0.00**
174	Unbilled	62,074,796.32	27,855,069.10
175	Not due	34,714,305.83	44,625,784.85
176	**Due**	**9,972,129.00**	**33,175,157.00**
177	Disputed	0.00	0.00
178	Undisputed	9,972,129.00	33,175,157.00
179		0.00	0.00
180	**Sub-total (A)**	**106,761,225.15**	**105,656,010.95**
181		0.00	0.00
182	**Others**	**0.00**	**0.00**
183	Unbilled	273,412,548.53	163,558,791.19
184	Not due	1,224,050,402.33	848,379,440.34
185	**Due**	**2,802,751,391.03**	**730,634,384.55**
186	Disputed	0.00	0.00
187	Undisputed	2,802,751,391.03	730,634,384.55
188		0.00	0.00
189	**Sub-total (B)**	**4,300,214,341.89**	**1,742,572,616.08**
190		0.00	0.00
191	**Total**	**4,406,975,567.04**	**1,848,228,627.03**
192		0.00	0.00
193	**Ageing**	**0.00**	**0.00**
194	**MSME**	**0.00**	**0.00**
195	**Disputed**	**0.00**	**0.00**
196	Less than 1 year	0.00	0.00
197	1-2 years	0.00	0.00
198	2-3 years	0.00	0.00
199	More than 3 years	0.00	0.00
200	**Sub Total (I)**	**0.00**	**0.00**
201		0.00	0.00
202	**Undisputed**	**0.00**	**0.00**
203	Less than 1 year	9,972,129.00	33,175,157.00
204	1-2 years	0.00	0.00
205	2-3 years	0.00	0.00
206	More than 3 years	0.00	0.00
207	**Sub Total (II)**	**9,972,129.00**	**33,175,157.00**
208		0.00	0.00
209	**Total MSME (III)**	**9,972,129.00**	[illegible]
210		0.00	[illegible]

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NATIONAL CAPITAL POWER STATION

NOTE NO. 30 TO THE FS-CL-TRADE PAYABLES

[Amount in ₹]

	As at	31.03.2022	31.03.2021
211	**Others**	**0.00**	**0.00**
212	**Disputed**	**0.00**	**0.00**
213	Less than 1 year	0.00	0.00
214	1-2 years	0.00	0.00
215	2-3 years	0.00	0.00
216	More than 3 years	0.00	0.00
217	**Sub Total (IV)**	**0.00**	**0.00**
218		0.00	0.00
219	**Undisputed**	**0.00**	**0.00**
220	Less than 1 year	2,764,504,581.62	257,552,595.70
221	1-2 years	25,129,745.83	459,544,683.70
222	2-3 years	2,078,865.70	580,735.00
223	More than 3 years	11,038,197.83	12,956,166.15
224	**Sub Total (V)**	**2,802,751,391.03**	**730,634,384.55**
225		0.00	0.00
226	**Total Others (VI)**	**2,802,751,391.03**	**730,634,384.55**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 31 TO THE FS-CL-OTHER FINANCIAL LIABILITIES

[Amount in ₹]

	As at	31.03.2022	31.03.2021
001	**OTHER FINANCIAL LIABILITIES (CURRENT)**	**0.00**	**0.00**
020		0.00	0.00
021	Interest accrued but not due on secured borrowings	0.00	0.00
022	Interest accrued but not due on unsecured borrowings	0.00	0.00
023	Unpaid Dividends*	0.00	0.00
024	Unpaid matured deposits and interest accrued thereon*	0.00	0.00
025	Unpaid matured bonds and interest accrued thereon*	0.00	0.00
026	Unpaid bond refund money-Tax free bonds *	0.00	0.00
027	Book Overdraft	0.00	0.00
028	Payable to Customers	0.00	0.00
029	Liability under forward exchange contact	0.00	0.00
030	Hedging cost payable to beneficiaries	0.00	0.00
031	Derivative MTM Liability	0.00	0.00
032	**Payable for Capital Expenditure**	**0.00**	**0.00**
033	- Micro & Small Enterprises	64,309,256.00	58,375,192.00
034	- Others	2,298,362,982.79	2,580,097,556.67
035	**Others Payables**	**0.00**	**0.00**
036	Deposits from contractors and others	139,641,027.00	98,696,814.00
037	Gratuity Obligations	0.00	0.00
038	Payable to employees	12,821,046.87	6,944,056.93
039	Payable to holding company	0.00	0.00
040	Retention on A/c BG encashment (Solar)	0.00	0.00
041	Payable to Solar Payment Security Account	0.00	0.00
042	Others **	119,997,642.39	63,559,127.57
043	Unspent CSR balance on ongoing Approved CSR projects	0.00	0.00
044	**Total**	**2,625,131,874.85**	**2,827,672,747.17**
045	* Represents the amounts which have not been claimed by the investor/holders of the bonds/fixed deposits. Out of the above, no amount is due for payment to Investor Education and Protection Fund.	0.00	0.00
046	** Include Payable to Hospital and other payable.	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 32 TO THE FS-CL-OTHER CURRENT LIABILITIES

[Amount in ₹]

	As at	31.03.2022	31.03.2021
001	**OTHER CURRENT LIABILITIES**	**0.00**	**0.00**
002	Advances from customers and others	23,858,930.14	39,184,020.10
003	Deferred discount on forward exchange contact	0.00	0.00
004	Tax deducted at source and other statutory dues	106,326,482.95	49,835,113.24
005	Deposits from contractors and others	0.00	0.00
006	Government grants	0.00	0.00
007	Others	0.00	0.00
008	**Total**	**134,985,413.09**	**89,019,133.34**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 33 TO THE FS-CL-PROVISIONS

(Amount in ₹)

	As at	31.03.2022	31.03.2021
001	**SHORT TERM PROVISIONS**	**0.00**	**0.00**
002	**Provision for Employee Benefits**	**0.00**	**0.00**
003	Opening balance	0.00	0.00
004	Additions/ (adjustments) during the year	0.00	0.00
005	**Closing Balance**	**0.00**	**0.00**
028	**Provisions for Obligations Incidental to Land Acquisition**	**0.00**	**0.00**
029	Opening balance	0.00	0.00
030	Additions during the year	0.00	0.00
031	Amounts paid during the year	0.00	0.00
032	Amounts reversed during the year	0.00	0.00
033	**Closing Balance**	**0.00**	**0.00**
035	**Provision for Tariff Adjustment**	**0.00**	**0.00**
036	Opening balance	0.00	0.00
037	Additions during the year	0.00	0.00
038	Amounts adjusted during the year	0.00	0.00
039	Amounts reversed during the year	0.00	0.00
040	**Closing Balance**	**0.00**	**0.00**
042	**Provision for shortage in Fixed Assets Pending Investigation & Others**	**0.00**	**0.00**
043	Opening balance	160,517.29	0.00
044	Additions during the year	0.00	160,517.29
045	Amounts adjusted during the year	0.00	0.00
046	Amounts reversed during the year	160,517.29	0.00
047	**Closing Balance**	**0.00**	**160,517.29**
048	**Provision for Arbitration**	**0.00**	**0.00**
049	Opening balance	24,958,351.00	23,945,068.00
050	Additions during the year	12,072,593.78	1,013,283.00
051	Amounts used during the year	0.00	0.00
052	Amounts reversed during the year	0.00	0.00
053	**Closing Balance**	**37,030,944.78**	**24,958,351.00**
054	**Others**	**0.00**	**0.00**
055	Opening balance	0.00	0.00
056	Additions during the year	0.00	0.00
057	Amounts used during the year	0.00	0.00
058	Amounts reversed during the year	0.00	0.00
059	**Closing Balance**	**0.00**	**0.00**
102		0.00	0.00
103	**Total**	**37,030,944.78**	**25,118,868.29**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 34 TO THE FS-CL CURRENT TAX LIABILITIES (NET) (Amount in ₹)

	As at	31.03.2022	31.03.2021
001	**Current liabilities - current tax liabilities (net)**	**0.00**	**0.00**
002	Opening balance	0.00	0.00
003	Additions during the year	0.00	0.00
004	Amounts adjusted during the year	0.00	0.00
005	Less: Set off against taxes paid	0.00	0.00
006	**Closing Balance**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 35 TO THE FS--DEFERRED REVENUE [Amount in ₹]

	As at	31.03.2022	31.03.2021
001	**Deferred Revenue**	**0.00**	**0.00**
002	On account of advance against depreciation	0.00	0.00
003	On account of income from foreign currency fluctuation	111,259,000.00	130,587,000.00
004	Government grants	0.00	0.00
005	**TOTAL**	**111,259,000.00**	**130,587,000.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 36 TO THE FS--REGULATORY DEFERRAL ACCOUNT CREDIT BALANCES

(Amount in ₹)

	As at	31.03.2022	31.03.2021
001	Regulatory deferral account credit balances	0.00	0.00
002	Exchange Differences	0.00	0.00
003		0.00	0.00
004	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 37 TO THE FS--REVENUE FROM OPERATIONS

(Amount in ₹)

	For the Year ended	31.03.2022	31.03.2021
001	**REVENUE FROM OPERATIONS**	**0.00**	**0.00**
002	**Sales**	**0.00**	**0.00**
003	Energy Sales (including Electricity Duty)	28,417,849,171.12	30,000,172,658.13
004	Less : Advance against depreciation deferred (net)	0.00	0.00
005	Add: Revenue recognized out of advance against depreciation	0.00	0.00
006	Add : Exchange fluctuation receivable from customers	0.00	0.00
007	Sale of energy through trading	0.00	0.00
008	Commission (NVVN)	0.00	0.00
009	**Sub total**	**28,417,849,171.12**	**30,000,172,658.13**
010	Less: Rebate to customers	-229,390,972.42	886,949,721.90
011	**Energy Sales (Total)**	**28,187,459,198.70**	**29,113,222,936.23**
012	Consultancy, project management and supervision fees	0.00	0.00
013	Lease rentals on assets on Operating lease	0.00	0.00
014	Sale of Captive Coal	0.00	0.00
015	Intra Company Elimination	0.00	0.00
017	**Sub-total**	**0.00**	**0.00**
018	**Total - Sales**	**28,187,459,198.70**	**29,113,222,936.23**
019	Sale of fly ash/ash products	495,023,554.64	300,343,513.16
020	Less: Transferred to fly ash utilisation reserve fund	-495,023,554.64	-300,343,513.16
021	**Sub-total**	**0.00**	**0.00**
022	**Other Operating Income**	**0.00**	**0.00**
023	Interest from customers	2,605,800.00	23,736,983.00
024	Energy Internally Consumed *	62,190,837.49	69,246,611.00
025	Interest Income on Assets under finance lease	0.00	0.00
026	Recognized from deferred revenue - government grant	0.00	0.00
027	Provision written back- Tariff Adjustment	0.00	0.00
028	Income form Trading of ESCerts	0.00	0.00
029	Income from E-Mobility Business & others	0.00	0.00
030	Others	0.00	0.00
031	**Total**	**28,252,255,636.19**	**29,206,206,510.23**
040	* Valued at variable cost of generation and corresponding amount included in power charges (Note No. 42)	0.00	0.00
041	Excise duty on sale of flyash,cenosphere & ash products	0.00	0.00
042	Energy sales of principal nature (NVVN)	0.00	0.00
043	Energy sales of agency nature (NVVN)	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 38 TO THE FS-OTHER INCOME [Amount in ₹]

	For the Year ended	31.03.2022	31.03.2021
001	**OTHER INCOME**	**0.00**	**0.00**
002	**Interest from**	**0.00**	**0.00**
004	**Financial assets at amortised cost**	**0.00**	**0.00**
005	Government Securities (8.5% Tax Free Bonds issued by the State Governments)	0.00	0.00
006	Other Bonds	0.00	0.00
007		0.00	0.00
008	Interest from Government of India Securties-Non-Trade	0.00	0.00
009	Less: Amortisation of premium	0.00	0.00
010	**Sub Total**	**0.00**	**0.00**
011	Interest from others	0.00	0.00
012	Loan to State Government in settlement of dues from customers	0.00	0.00
013	Loan to Subsidiary Companies	0.00	0.00
014	Loan to Employees	27,525,138.08	22,668,603.92
015	Deposit with banks	0.00	0.00
016	Foreign Banks	0.00	0.00
017	Interest from Contractors	0.00	0.00
018	Interest from Income Tax Refunds	0.00	0.00
019	Less : Refundable to Customers	0.00	0.00
020	**Sub Total**	**0.00**	**0.00**
021	Deposits with banks-flyash utilisation reserve fund	0.00	0.00
022	Less: transferred to flyash utilisation reserve fund	0.00	0.00
023	**Sub Total**	**0.00**	**0.00**
024	Deposits with banks- DDUGJY funds	0.00	0.00
025	Interest from Contractors- DDUGJY funds	0.00	0.00
026	Transfer to DDUGJY-Advance from customers	0.00	0.00
027	Sub-total	0.00	0.00
030	Others	2,867,336.00	0.00
031		0.00	0.00
032	**Dividend from**	**0.00**	**0.00**
033	**Longterm investments in**	**0.00**	**0.00**
034	Subsidiaries	0.00	0.00
035	Joint Ventures	0.00	0.00
036	Equity Instruments	0.00	0.00
037	**Current Investments in**	**0.00**	**0.00**
038	Mutual Funds measured at fairvalue through profit or loss	0.00	0.00
039	Current investments in mutual funds-flyash utilisation reserve fund	0.00	0.00
040	Less: transferred to flyash utilisation reserve fund	0.00	0.00
041	Lease Rent & Ash Brick Plant	0.00	0.00
042	Less: transferred to flyash utilisation reserve fund	0.00	0.00
043	Other non-operating income	0.00	[illegible]
044	Profit on deposal of PPE	54,156.25	[illegible]
045	Profit on redemption of GOI securities	0.00	[illegible]

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NATIONAL CAPITAL POWER STATION

NOTE NO. 38 TO THE FS- OTHER INCOME (Amount in ₹)

	For the Year ended	31.03.2022	31.03.2021
046	Net gain on sale of investments	0.00	5.00
047	Surcharge received from customers	163,679,620.00	304,850,584.00
048	Hire charges for equipment	0.00	0.00
049	Gain on option contract / Discount on F.ExchContract	0.00	0.00
050	Provision written back-others	32,722,035.25	8,808,736.17
051	Fair value gains/(losses) on investments in mutual funds at fair value through profit or loss	0.00	0.00
052	Interest from Solar payment security account	0.00	0.00
053	Less : Transferred to SPSA fund	0.00	0.00
054	Interest on "Retention on A/c BG encashment (Solar)"	0.00	0.00
055	Less : Transfered to "Retention on A/c BG encashment (Solar)"	0.00	0.00
056	Miscellaneous Income	73,065,559.53	51,653,211.33
057	**Total**	**299,913,345.11**	**418,943,693.82**
058	Less:Transferred to Development of Coal Mines- Note 43A	0.00	0.00
059	Less:Transferred to Expenditure during Construction period (net)- Note 43	95,161.00	122,852.13
060	Less: Others	0.00	0.00
062	**Total**	**299,818,184.11**	**417,920,841.49**
063		0.00	0.00
064	**Details of Miscellaneous Income**	**0.00**	**0.00**
065	Vehicle Hire Charges	189,326.80	116,000.00
066	Sale of by products & residuals	0.00	0.00
067	Township recoveries(exl. Hospital Recoveries)	31,097,698.04	63,977,866.64
068	Depreciation written back	0.00	0.00
069	Sale of Scrap	18,729,808.92	10,496,763.34
070	Receipt under loss of profit policy	0.00	0.00
071	Receipts under MBD/Fire Policy	13,196,689.00	2,050,952.00
072	Management development programme	0.00	0.00
073	Management Fee - Misc (NVVN)	0.00	0.00
074	Others	9,862,076.77	5,009,629.15
075		0.00	0.00
076	**Total (Miscellaneous Income)**	**73,065,559.53**	**51,653,211.33**
077		0.00	0.00
078	**Details of Provision written back others**	**0.00**	**0.00**
079	Doubtful debts	0.00	0.00
080	Doubtful Loans, Advances and Claims	0.00	0.00
081	Doubtful Construction Advances	0.00	0.00
082	Shortage in Construction Stores	0.00	0.00
083	Shortage in Stores	32,541,517.96	8,808,736.17
084	Obsolescence in Stores	0.00	0.00
085	Unserviceable capital works	0.00	0.00
086	Other Obligation including Arbitration	0.00	0.00
087	Shortage in Fixed Assets	180,517.29	

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NATIONAL CAPITAL POWER STATION

NOTE NO. 38 TO THE FS--OTHER INCOME

[Amount in ₹]

	For the Year ended	31.03.2022	31.03.2021
088	Diminution in value of Investment	0.00	0.00

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 38A TO THE FS--FUEL COST [Amount in ₹]

	For the Year ended	31.03.2022	31.03.2021
001	**FUEL COST**	**0.00**	**0.00**
002	Coal	0.00	0.00
003	Captive	0.00	0.00
004	Other than captive	18,476,872,765.23	13,957,861,314.24
005	Gas	0.00	0.00
006	Naptha	0.00	0.00
007	Oil	253,410,680.21	204,348,869.07
008	Biomass Pellets	43,901,268.12	57,799,875.48
009	**Total**	**18,774,184,713.56**	**14,220,039,758.79**
010		0.00	0.00

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 39 TO THE FS-EMPLOYEE BENEFITS EXPENSE [Amount in ₹]

	For the Year ended	31.03.2022	31.03.2021
001	**EMPLOYEE BENEFITS EXPENSE**	**0.00**	**0.00**
002	Salaries and wages	1,959,565,058.45	1,791,785,081.14
003	Contribution to provident and other funds	271,053,208.42	236,843,447.18
004	Unwinding of deferred payroll expense	16,281,342.99	11,772,967.39
005	Staff welfare expenses	318,570,384.89	253,222,334.36
006	Less : Expenses transferred to Consultancy group	0.00	0.00
007		0.00	0.00
008	**Sub Total**	**2,565,469,994.75**	**2,293,609,733.07**
009	Less: Employee benefits expense allocated to fuel inventory	108,758,781.16	43,478,186.56
010	Less: Transferred/Allocated to development of coal mines	0.00	0.00
011	Less: Others	0.00	0.00
012	Less: Transferred to fly ash utilisation reserve fund	0.00	0.00
013	Less: Transferred to CSR Expenses	0.00	0.00
014	Reimbursements for employees on secondment	138,824.00	193,319.00
015	Less: Transferred to expenditure during construction period (net)- Note 43	22,467,418.75	26,365,144.17
016	**TOTAL**	**2,434,106,970.84**	**2,213,553,183.34**
017	**Managerial Remuneration paid/ payable to Directors included above (except for Directors fee which is included in Note 42)**	**0.00**	**0.00**
018	Salaries and wages	0.00	0.00
019	Contribution to provident and other funds	0.00	0.00
020	Staff welfare expenses	0.00	0.00
021	Directors fee	0.00	0.00
022		0.00	0.00
023		0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 40 TO THE FS--FINANCE COSTS (Amount in ₹)

	For the Year ended	31.03.2022	31.03.2021
001	**FINANCE COSTS**	**0.00**	**0.00**
002	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
003	Bonds	550,902,066.72	501,087,439.89
004	Government of India Loans	0.00	0.00
005	Foreign currency term loans	8,174,738.48	4,540,087.52
006	Rupee term loans	175,838,536.00	336,280,262.00
007	Public deposits	0.00	0.00
008	Foreign currency bonds/notes	0.00	0.00
009	Cash Credit	0.00	0.00
010	Unwinding of discount on account of vendor liabilities	1,271,042.71	1,464,548.76
011	Commercial Papers	0.00	0.00
012	**Sub Total**	**736,186,383.91**	**843,372,338.47**
013	Interest on non financial items	4,845,020.62	16,508,028.53
014	**Other Borrowing Costs**	**0.00**	**0.00**
015	Bonds servicing & public deposit exp.	547,763.41	448,742.51
016	Guarantee fee	0.00	0.00
017	Management fee	0.00	0.00
018	Committ charges/exposure premium	522,270.89	0.00
019	Bond issue expenses	0.00	0.00
020	Legal exp on foreign currency loans	0.00	0.00
021	Foreign currency bonds/notes exp.	0.00	0.00
022	Up-front fee	0.00	0.00
023	Insurance premium on foreign currency loans	0.00	0.00
024		0.00	0.00
025	Others	0.00	0.00
026	**Sub Total (Other Borrowing cost)**	**5,715,055.02**	**18,956,771.94**
027		0.00	0.00
028	**Exchange differences regarded as an adjustment to borrowing costs**	**0.00**	**-2,290,013.00**
029	**Sub Total**	**741,905,438.93**	**860,039,096.51**
030	Less: Transferred to Expenditure during construction period (net) - Note 43	135,194,288.37	115,277,343.46
031	Less: Transferred to development of coal mines- Note 43A	0.00	0.00
032		0.00	0.00
033	**Total**	**606,711,150.56**	**744,761,753.05**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 41 TO THE FS--DEPRECIATION AND AMORTIZATION EXPENSES

[Amount in ₹]

	For the Year ended	31.03.2022	31.03.2021
001	**Depreciation and amortization expenses**	**0.00**	**0.00**
002	On property, plant and equipment- Note 2	3,026,082,796.50	3,044,250,328.26
003	On intangible assets- Note 4	100,326,287.38	100,334,962.36
004	Sub-total	3,126,409,083.88	3,144,585,287.62
005	Less:	0.00	0.00
006	Allocated to fuel inventory	160,679,140.12	65,907,399.88
007	Transferred to Expenditure during Construction Period (net)- Note 43	0.00	0.00
008		0.00	0.00
009	Transferred/Allocated to development of coal mines:	0.00	0.00
010	Adjustment with deferred revenue from deferred foreign currency fluctuation	19,328,000.00	19,328,000.00
011		0.00	0.00
012	**Total**	**2,946,401,943.76**	**3,058,349,887.74**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 42 TO THE FS-OTHER EXPENSE

(Amount in ₹)

	For the Year ended	31.03.2022	31.03.2021
001	**OTHER EXPENSES**	**0.00**	**0.00**
002	Power charges	54,480,681.36	60,992,986.49
003	Less: Recovered from contractors & employees	18,684,059.94	15,142,890.73
004	**Sub-Total(Power Charges)**	**35,796,621.42**	**45,850,095.76**
005	Water charges	14,061,686.60	17,175,357.94
006	Stores consumed	50,861,765.59	23,352,636.59
007	Rent	0.00	0.00
008	Less Recoveries	0.00	0.00
009	**Sub-Total (Rent)**	**0.00**	**0.00**
010	Cost of captive coal produced	0.00	0.00
011	**Repairs & maintenance**	**0.00**	**0.00**
012	Buildings	63,376,823.67	67,364,436.74
013	Plant & machinery	0.00	0.00
014	Power stations	1,066,687,615.38	992,299,379.58
015	Construction equipment	95,559.63	224,575.37
016	Others	94,238,367.64	117,354,595.77
017	**Sub-total (Repairs & maintenance)**	**1,244,398,368.32**	**1,175,242,987.46**
019	Load Dispatch Center Charges	15,428,355.00	9,589,791.00
021	Insurance	69,945,754.06	76,716,287.64
022	Interest to beneficiaries	227,184,657.00	818,628.00
023	Rates and taxes	6,822,345.36	8,068,651.56
024	Water cess & environment protection cess	0.00	0.00
025	Training & recruitment expenses	9,700,242.86	6,411,795.17
026	Less: Receipts	0.00	0.00
027	**Sub-total (Training and recruitment expenses)**	**9,700,242.86**	**6,411,795.17**
028	Communication expenses	19,535,820.64	19,129,587.73
029	Inland Travel	79,450,894.86	66,201,731.02
030	Foreign Travel	0.00	0.00
031	Tender expenses	0.00	-818,512.38
032	Less: Receipt from sale of tenders	4,500.00	0.00
033	**Sub-total (Tender expenses)**	**-4,500.00**	**-818,512.38**
034	Payment to auditors	0.00	0.00
035	Audit fee	0.00	0.00
036	Tax audit fee	0.00	0.00
037	Other services	0.00	0.00
038	Reimbursement of expenses	0.00	614.69
039	**Sub-total (Payment to Auditors)**	**0.00**	**614.69**
040	Advertisement and publicity	1,360,279.92	1,059,592.29
041	Electricity duty	0.00	0.00
042	Security expenses	303,162,968.75	299,399,686.86
043	Entertainment expenses	21,072,149.25	21,053,306.24
044	Expenses for guest house	18,728,040.78	16,025,478.13
045	Less Recoveries	2,066,601.00	1,000.00
046	**Sub-Total (Guest house expenses)**	**16,661,439.78**	**16,024,478.13**
047	Education expenses	49,949,526.42	[illegible]
049	Donations	0.00	[illegible]

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NATIONAL CAPITAL POWER STATION

NOTE NO. 42 TO THE FS--OTHER EXPENSE (Amount in ₹)

	For the Year ended	31.03.2022	31.03.2021
050	Ash utilisation & marketing expenses	45,406,421.73	43,818,326.40
051	Directors sitting fee	0.00	0.00
053	Professional charges and consultancy fees	4,822,397.30	1,508,217.99
054	Legal expenses	10,696,820.38	13,119,005.82
055	EDP hire and other charges	14,726,744.55	8,936,517.09
056	Printing and stationery	488,574.90	394,128.19
057	Oil & gas exploration expenses	0.00	0.00
059	Hiring of vehicles	12,639,084.01	13,875,093.76
061	Reimbursement of L.C.charges on sales realisation	0.00	0.00
062		0.00	0.00
063	Cost of Hedging	0.00	0.00
064	Derivatives MTM loss/gain (Net)	0.00	0.00
065	Net loss/(gain) in foreign currency transactions & translations	-37,608,522.42	-21,726,885.79
066	Transport Vehicle running expenses	11,108,628.46	9,096,551.74
067	Horticulture Expenses	14,812,504.22	29,400,163.47
068	Hire charges- helicopter/aircraft	0.00	0.00
069	Hire charges of construction equipment	0.00	0.00
070	Demurrage Charges	0.00	0.00
072		0.00	0.00
073	Miscellaneous expenses	18,783,464.80	9,909,314.60
074	Loss on disposal/write-off of PPE	10,022,374.33	19,580,150.33
075	**Sub-Total**	**2,271,076,855.00**	**1,962,614,939.82**
076	Less: Other expenses allocated to fuel inventory	192,416,395.74	65,488,166.81
077	Less: Transferred/Allocated to development of coal mines	0.00	0.00
078	Less: Transferred to fly ash utilisation reserve fund	45,409,279.59	43,819,783.59
079	Less: Hedging cost Net recoverable/payable from/to beneficiaries	0.00	0.00
080	Less: Others	0.00	0.00
081	Less: Transferred to CSR Expenses	51,742,614.00	61,711,458.00
082	Less:Transferred to Expenditure during Construction period(net)-Note 43	2,007,132.52	2,859,456.40
083	**Net (Generation, Administration and Other expenses)**	**1,979,501,433.95**	**1,788,936,095.02**
084	Corporate Social Responsibility Expenses	107,718,984.26	122,797,679.03
085	Less: Grants-in-aid	0.00	0.00
086	**Sub-total (Corporate Social Responsibility Expenses)**	**107,718,984.26**	**122,797,679.03**
087	**Provisions**	**0.00**	**0.00**
088	Doubtful Debts	0.00	375,353.48
089	Doubtful loans, advances and claims	0.00	0.00
090	Doubtful Construction Advances	0.00	0.00
091	Shortage in stores	1,976,192.00	18,745,181.00
092	Obsolete/Diminution in the value of surplus stores	24,815,124.91	[illegible]
093	Shortage in construction stores	0.00	[illegible]
094	Diminution in value of long term investments	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 42 TO THE FS--OTHER EXPENSE (Amount in ₹)

	For the Year ended	31.03.2022	31.03.2021
095	Shortage in Fixed assets	0.00	190,517.29
096	Unfinished minimum work progress from oil & gas exploration	0.00	3.00
097	Unserviceable capital works	0.00	0.00
098	Tariff Adjustment	51,640,000.00	32,591,000.00
099	Others :	0.00	0.00
100	(i) Provision for arbitration cases	12,072,593.79	1,013,283.00
101	(ii) Other provisions	0.00	0.00
102	**Total (Provisions)**	**92,205,969.79**	**52,905,334.77**
103		0.00	0.00
104	**Total**	**2,179,426,327.10**	**1,964,639,108.82**
105		0.00	0.00
106	**Breakup of miscellaneous expenses.**	**0.00**	**0.00**
109	Hire charges of office equipment	0.00	0.00
111	Operating expenses of construction equipment	0.00	0.00
112	Operating expenses of D.G. sets	726,867.25	813,019.58
113	Furnishing expenses	457,808.57	33,145.21
114	Subscription to trade and other associations.	0.00	0.00
116	Visa and entry permit charges	0.00	0.00
117	Tree plantation exp.-NTPC Land	0.00	0.00
118	Research & development expenses	0.00	0.00
119	Less : Grants received for Research & develoment expenses.	0.00	0.00
120	Sub-total (Research & development expenses)	0.00	0.00
121	Bank charges	7,644.60	11,086.74
122	Business Development Expenditure	0.00	0.00
123	Surcharge (NVVN)	0.00	0.00
124	Power Trading Expenses	4,596,819.00	239,137.00
125	Brokerage & commission	1,706,149.45	251,533.79
129	Books and periodicals	7,211.40	24,104.64
130	Claims/advances written off	0.00	0.00
131	Stores written off	0.00	0.00
132	Survey &Investigation expenses written off	0.00	0.00
133	Others	11,777,954.53	8,537,287.44
134	**Total**	**18,783,454.80**	**9,909,314.60**
135		0.00	0.00
136		0.00	0.00
137		0.00	0.00

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 43 TO THE FS-EXPENDITURE DURING CONSTRUCTION PERIOD (NET) (Amount in ₹)

	For the Year ended	31.03.2022	31.03.2021
001	**EXPENDITURE DURING CONSTRUCTION PERIOD (NET)**	**0.00**	**0.00**
002	A. Employee benefits expense	0.00	0.00
003	Salaries and wages	18,773,722.90	21,650,941.02
004	Contribution to provident and other funds	2,343,195.19	3,149,359.11
005	Unwinding of deferred payroll expenses	0.00	0.00
006	Staff welfare expenses	1,350,500.66	1,584,804.04
007	**Total (A)**	**22,467,418.75**	**26,385,144.17**
008	**B. Finance Costs**	**0.00**	**0.00**
009	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
010	Bonds	66,212,058.84	47,541,890.41
011	Foreign currency term loans	5,827,230.73	2,916,516.05
012	Rupee term loans	64,154,999.00	67,108,956.00
013	Foreign currency bonds/notes	0.00	0.00
014	Unwinding of discount on account of vendor liabilities	0.00	0.00
015	Others	0.00	0.00
016		0.00	0.00
017	Other Borrowings Costs	0.00	0.00
018	Guarantee Commission	0.00	0.00
019	Management Fees/Arrangers Fees	0.00	0.00
020	Commitment charges/Exposure Premium	0.00	0.00
021	Legal Expenses on foreign currency loans	0.00	0.00
022	Foreign currency bonds/notes expenses	0.00	0.00
023	Foreign Credit Insurance Premium	0.00	0.00
024	Upfront Fee	0.00	0.00
025	Exchange Differences	0.00	0.00
026	Others	0.00	0.00
027	Exchange differences regarded as adjustment to interest cost	0.00	-2,290,013.00
028	**Total (B)**	**135,194,288.37**	**115,277,343.46**
029		0.00	0.00
030	C. Depreciation and amortisation	0.00	0.00
031	**D. Generation , administration and other expenses**	**0.00**	**0.00**
032	Power charges	211,954.00	436,990.00
033	Less: Recovered from contractors & employees	91,636.00	121,863.17
034	**Sub-total(Net power charges)**	**120,318.00**	**315,126.83**
035	Water charges	0.00	0.00
036	Rent	0.00	0.00
037	Repairs & maintenance	0.00	0.00
038	Buildings	112,754.72	0.00
039	Construction equipment	0.00	0.00
040	Others	0.00	[illegible]
041		0.00	0.00
042	Insurance	0.00	[illegible]

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NATIONAL CAPITAL POWER STATION

NOTE NO. 43 TO THE FS--EXPENDITURE DURING CONSTRUCTION PERIOD (NET) (Amount in ₹)

	For the Year ended	31.03.2022	31.03.2021
043	Rates and taxes	0.00	0.00
044	Communication expenses	294,998.00	276,135.00
045	Travelling expenses	668,070.25	1,226,983.96
046	Tender expenses	0.00	0.00
047	Less: Income from sale of tenders	0.00	0.00
048	**Sub-total (Net tender expenses)**	**0.00**	**0.00**
049	Advertisement and publicity	0.00	0.00
050	Security expenses	0.00	0.00
051	Entertainment expenses	78,830.00	66,000.00
052	Guest house expenses	0.00	0.00
053	Less: Receipt from guest house	0.00	0.00
054	**Sub-total (Net Guest House Expenses)**	**0.00**	**0.00**
055	Education expenses	0.00	0.00
056	Brokerage & Commission	0.00	0.00
057	Books and periodicals	0.00	0.00
058	Community development expenses	0.00	0.00
059	Professional charges and consultancy fee	0.00	0.00
060	Legal expenses	0.00	0.00
061	EDP Hire and other charges	94,700.26	0.00
062	Printing and stationery	23,708.00	17,242.00
063	Miscellaneous expenses	613,753.39	338,173.16
064	**Total (D)**	**2,007,132.62**	**2,659,456.40**
065	**Total (A+B+C+D)**	**159,668,839.74**	**144,321,944.03**
066	**E. Less: Other Income**	**0.00**	**0.00**
067	Interest from	0.00	0.00
068	Indian banks	0.00	0.00
069	Foreign banks	0.00	0.00
070	Others	0.00	0.00
071	Contractors	0.00	0.00
072	Hire charges	0.00	0.00
073	Sale of scrap	0.00	0.00
074	Exchange Differences	0.00	0.00
075	Miscellaneous Income	95,161.00	122,852.13
076	**TOTAL (E)**	**95,161.00**	**122,852.13**
077	F. Net actuarial gain/loss OCI	90,293.26	330,715.13
078		0.00	0.00
079	**GRAND TOTAL (A+B+C+D-E+F)**	**159,663,972.00**	**144,529,807.03**
080		0.00	0.00
081	*** Balance carried to Capital Work-in-progress - (Note 3)**	**159,663,972.00**	**144,529,807.03**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 43A TO THE FS--EDC- COAL MINING

[Amount in ₹]

	For the Year ended	31.03.2022	31.03.2021
001	**EDC- Coal Mining**	**0.00**	**0.00**
002	A. Employee benefits expense	0.00	0.00
003	Salaries and wages	0.00	0.00
004	Contribution to provident and other funds	0.00	0.00
005	Unwinding of deffered payroll expenses	0.00	0.00
006	Staff welfare expenses	0.00	0.00
007	**Total (A)**	**0.00**	**0.00**
008	**B. Finance Costs**	**0.00**	**0.00**
009	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
010	Bonds	0.00	0.00
011	Foreign currency term loans	0.00	0.00
012	Rupee term loans	0.00	0.00
013	Foreign currency bonds/notes	0.00	0.00
014	Unwinding of discount on account of vendor liabilities	0.00	0.00
015	Others	0.00	0.00
016		0.00	0.00
017	Other Borrowings Costs	0.00	0.00
018	Guarantee Commission	0.00	0.00
019	Management Fees/Arrangers Fees	0.00	0.00
020	Commitment charges/Exposure Premium	0.00	0.00
021	Legal Expenses on foreign currency loans	0.00	0.00
022	Foreign currency bonds/notes expenses	0.00	0.00
023	Foreign Credit Insurance Premium	0.00	0.00
024	Upfront Fee	0.00	0.00
025	Exchange Differences	0.00	0.00
026	Others	0.00	0.00
027	Exchange differences regarded as adjustment to interest cost	0.00	0.00
028	**Total (B)**	**0.00**	**0.00**
029		0.00	0.00
030	C. Depreciation and amortisation	0.00	0.00
031	**D. Generation , administration and other expenses**	**0.00**	**0.00**
032	Power charges	0.00	0.00
033	Less: Recovered from contractors & employees	0.00	0.00
034	**Sub-total(Net power charges)**	**0.00**	**0.00**
035	Water charges	0.00	0.00
036	Rent	0.00	0.00
037	Repairs & maintenance	0.00	0.00
038	Buildings	0.00	0.00
039	Construction equipment	0.00	0.00
040	Others	0.00	0.00
041	Cost of Captive Coal	0.00	[illegible]
042	Insurance	0.00	[illegible]
043	Rates and taxes	0.00	[illegible]

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NATIONAL CAPITAL POWER STATION

NOTE NO. 43A TO THE FS–EDC- COAL MINING

(Amount in ₹)

	For the Year ended	31.03.2022	31.03.2021
044	Communication expenses	0.00	0.00
045	Travelling expenses	0.00	0.00
046	Tender expenses	0.00	0.00
047	Less: Income from sale of tenders	0.00	0.00
048	**Sub-total (Net tender expenses)**	**0.00**	**0.00**
049	Advertisement and publicity	0.00	0.00
050	Security expenses	0.00	0.00
051	Entertainment expenses	0.00	0.00
052	Guest house expenses	0.00	0.00
053	Less: Receipt from guest house	0.00	0.00
054	**Sub-total (Net Guest House Expenses)**	**0.00**	**0.00**
055	Education expenses	0.00	0.00
056	Brokerage & Commission	0.00	0.00
057	Books and periodicals	0.00	0.00
058	Community development expenses	0.00	0.00
059	Professional charges and consultancy fee	0.00	0.00
060	Legal expenses	0.00	0.00
061	EDP Hire and other charges	0.00	0.00
062	Printing and stationery	0.00	0.00
063	Miscellaneous expenses	0.00	0.00
064	**Total (D)**	**0.00**	**0.00**
065	**Total (A+B+C+D)**	**0.00**	**0.00**
066	**E. Less: Other Income**	**0.00**	**0.00**
067	Interest from	0.00	0.00
068	Indian banks	0.00	0.00
069	Foreign banks	0.00	0.00
070	Others	0.00	0.00
071	Contractors	0.00	0.00
072	Hire charges	0.00	0.00
073	Sale of scrap	0.00	0.00
074	Exchange Differences	0.00	0.00
075	Miscellaneous income	0.00	0.00
076	**TOTAL (E)**	**0.00**	**0.00**
077	F. Net actuarial gain/loss OCI	0.00	0.00
078		0.00	0.00
079	**GRAND TOTAL (A+B+C+D-E+F)**	**0.00**	**0.00**
080		0.00	0.00
081	*** Balance carried to Capital Work-in-progress - (Note 3)**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 44-A TO THE FINANCIAL STATEMENTS (Amount in ₹)

	As at	31.03.2022	31.03.2021
001	Balance sheet	0.00	0.00
002	Freehold land for which conveyancing of the title is awaiting completion of legal formalities	0.00	0.00
003	(a) area (in acres)	0.00	0.00
004	(b) value (in rs)	0.00	0.00
005	Right-of-use land for which execution of lease deed is awaiting completion of legal formalities	0.00	0.00
006	(a) area (in acres)	0.00	0.00
007	(b) value (in rs)	0.00	0.00
008	Right-of-use land acquired on perpetual lease and accordingly not amortised	0.00	0.00
009	(a) area (in acres)	0.00	0.00
010	(b) value (in rs.)	0.00	0.00
011	Land in physical possession of the company which has not been shown in the books pending settlement of price (in acres)	0.00	0.00
012	Deposit with government authorities towards land in possession of the company included in cost of land which is subject to adjus	0.00	0.00
013	**Land not in possession of the company**	**0.00**	**0.00**
014	(a) area (in acres)	0.00	0.00
015	-Freehold	76.91	76.91
016	-Right of Use	0.00	0.00
017	(b) value (in rs)	0.00	0.00
018	-Freehold	155,138,848.80	153,472,543.97
019	-Right of Use	0.00	0.00
020	Right-of-use buildings pending completion of legal formalities - value (in rs.)	0.00	0.00
021	Estimated amount of contracts remaining to be executed on capital account and not provided for	0.00	0.00
022	Property, plant & equipment	1,609,494,138.00	1,741,419,751.00
023	Intangible assets	0.00	0.00
024	Details of precommissioning expenditure	0.00	0.00
025	(a) precommissioning expenses	0.00	0.00
026	(b) precommissioning income	0.00	0.00
027	(c) net precommissioning expenditure	0.00	0.00
028		0.00	0.00
029		0.00	0.00
030		0.00	0.00
031	Exchange rate variation taken to revenue during the year (with -ve sign, if favourable)	-37,608,522.42	-6,643,180.39
045	Exchange rate variation capitalised during the year (with -ve sign, if favourable)	0.00	-2,290,013.00
064	Short Term Leases	0.00	0.00
065	A) Rent	0.00	0.00
066	Company lease accomodation - executives	0.00	0.00
067	Company lease accomodation - directors	0.00	0.00
068	Others	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 44-A TO THE FINANCIAL STATEMENTS (Amount in ₹)

	As at	31.03.2022	31.03.2021
069	**Total**	**0.00**	**0.00**
101	Borrowing cost capitalised during the year	135,194,289.37	115,277,343.40
102	Revenue grants recognized during the year	0.00	0.00
103	Revenue expenditure on research and development	0.00	0.00
104	Capital expenditure on research and development	0.00	965,361.00
105	Expenditure on sustainibility development - capital	0.00	461,068.00
106	Expenditure on csr- capital	0.00	0.00
107	Opening balance - CSR Liability	548,400.00	3,587,503.00
108	Paid/Adjusted during the Year out of Opening above	0.00	-3,039,103.00
109	Amount yet to be paid against Cr Year CSR Exp	1,723,313.90	0.00
110	Closing Balance CSR- Liability (110)	2,271,713.90	548,400.00
111		0.00	0.00
112		0.00	0.00
113		0.00	0.00
114		0.00	0.00
115	Disclosure under msmed act 2006.	0.00	0.00
116	(i) (a) the principal amount remaining unpaid as at year end	177,922,970.36	-167,595,567.14
117	(i) (b) interest due there on remaining unpaid as at Year end	0.00	0.00
118	(ii) the amount of interest paid by the buyer in terms of section 16, along with the amounts of the payment made to the supplier	0.00	0.00
119	(iii) the amount of interest due and payable for the period of delay in making payment(which has been paid but beyond the appoin	0.00	0.00
120	(iv) the amount of interest accrued and remaining unpaid at the end of the year; and	0.00	0.00
121	(v) the amount of further interest remaining due and payable even in the succeeding years, until such date when the interest due	0.00	0.00
122	Amount of inventories recognized as an expense (including fuel)	19,369,167,087.02	14,537,560,756.89
123	Amount of inventories capitalised as overhauling assets out of 122 above	92,730,618.96	47,698,794.46
124	Amount capitalised as edc out of 122 above	0.00	0.00
133	Value of Imported Material Consumed during the Year	0.00	0.00
134		0.00	0.00
135	Contingent liabilities	0.00	0.00
136	A. Claims against the company not acknowledged as debts in respect of :	0.00	0.00
137	(i)Capital works	3,053,938,922.67	3,119,732,405.60
138	(ii)Land compensation cases	109,643,891.00	102,312,153.00
139	(iii)Others by state authorities towards:-	0.00	0.00
140	(a) Water royalty / water charges / nala tax	0.00	0.00
141	(b) Diversion of land / building permission fees	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 44-A TO THE FINANCIAL STATEMENTS

[Amount in ₹]

	As at	31.03.2022	31.03.2021
142	(c) Other demands by state authorities	0.00	0.00
143	(iv) Others by fuel companies	0.00	0.00
144	(a) Disputes related to grade slippage-third party sampling	545,602,131.97	541,695,590.60
145	(b) Surface transportation charges on coal	15,365,368.00	15,365,368.00
146	(c.) Take or pay claim - Gas stations	0.00	0.00
147	(d) Other claims by fuel companies not acknowledged as debt	175,936,517.00	175,936,517.00
149	B.Disputed tax demands	0.00	0.00
150	(i) Income tax	0.00	0.00
151	(ii) Excise duty	0.00	0.00
152	(iii) Sales tax	106,749,500.00	96,768,223.00
153	(iv) Service tax	0.00	0.00
154	(v) Entry tax	35,756,269.00	33,906,708.00
155	C. Others	201,985,077.00	115,585,077.00
156	**Total**	**4,840,872,676.64**	**4,203,122,042.20**
157	D. Possible reimbursement on account of contingent liabilities	0.00	0.00
158	(i) Capital works	0.00	0.00
159	(ii)Land compensation cases	0.00	0.00
160	(iii)Others (by state authorities)	0.00	0.00
161		0.00	0.00
162	(iv) Others by fuel companies	744,203,203.97	733,197,475.60
163	(v) Disputed income tax demand	0.00	0.00
164	(vi) Disputed tax demands -others	0.00	0.00
165	(vii) Others	0.00	7,299,187.00
167	**Total**	**744,203,203.97**	**740,496,662.60**
168	E.AMOUNT PAID UNDER PROTEST/ADJUSTED BY AUTHORITIES - TAX CASES	16,534,962.00	16,534,962.00
169	F.CONTINGENT ASSETS	0.00	0.00
170	Intangible under development : less than 1 year	0.00	0.00
171	Intangible under development #. 1-2 year	0.00	0.00
227	Intangible under development #. 2-3 year	0.00	0.00
277	Intangible under development #. More than 3 years	0.00	0.00
278	**Capital-Work-in Progress (CWIP)**	**0.00**	**0.00**
279	Projects in progress	7,659,093,159.67	6,967,374,720.07
280	Projects temporarily suspended	0.00	0.00
281		0.00	0.00
282		0.00	0.00
283	**Projects in progress**	**0.00**	**0.00**
284	Less than 1 year	859,405,791.16	1,312,282,719.40
285	1-2 years	1,239,876,320.67	3,462,582,437.19
286	2-3 years	3,445,145,343.43	1,545,074,419.24
287	More than 3 years	2,106,665,704.41	[illegible]
288	**Sub Total (I)**	**7,659,093,159.67**	[illegible]
289		0.00	

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NATIONAL CAPITAL POWER STATION

NOTE NO. 44-A TO THE FINANCIAL STATEMENTS

[Amount in ₹]

	As at	31.03.2022	31.03.2021
290	**Projects temporarily suspended**	**0.00**	**0.00**
291	Less than 1 year	0.00	0.00
292	1-2 years	0.00	0.00
293	2-3 years	0.00	0.00
294	More than 3 years	0.00	0.00
295	**Sub Total (II)**	**0.00**	**0.00**
296		0.00	0.00
380	Previous year figures have been regrouped/rearranged wherever necessary.	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 44-B TO THE FS--RPD DISCLOSURE- TRANSACTIONS DURING THE PERIOD (Amount in ₹)

	For the Year ended	31.03.2022	31.03.2021
001	**1) Transactions during the year- subsidiaries**	**0.00**	**0.00**
002	Purchase of equipment, supply & erection services	0.00	0.00
003	Purchase of spares	0.00	0.00
004	Maintenance services	0.00	0.00
005	Contracts for works/services for services provided by the company	0.00	0.00
006	Deputation of employees	0.00	0.00
007	Sales of goods	0.00	0.00
008	Sales of property and other assets	0.00	0.00
009	**Sub-total**	**0.00**	**0.00**
010		0.00	0.00
011	Dividend received	0.00	0.00
012	Equity contributions made	0.00	0.00
013	Share application money pending allotment	0.00	0.00
014	Loans granted	0.00	0.00
015	Interest on Loan	0.00	0.00
016	Guarantees received	0.00	0.00
017	Guarantees provided	0.00	0.00
018	**Sub-total**	**0.00**	**0.00**
019		0.00	0.00
020	**Transactions during the year- jvs**	**0.00**	**0.00**
021	Purchase of equipment, supply & erection services	4,832,462.80	0.00
022	Purchase of spares	0.00	0.00
023	Maintenance services	564,855,570.18	592,314,567.45
024	Contracts for works/services for services provided by the company	0.00	0.00
025	Deputation of employees	0.00	0.00
026	Sales of goods	0.00	0.00
027	Sales of property and other assets	0.00	0.00
028	**Sub-total**	**569,688,032.98**	**592,314,567.45**
029		0.00	0.00
030	Dividend received	0.00	0.00
031	Equity contributions made	0.00	0.00
032	Share application money pending allotment	0.00	0.00
033	Loans granted	0.00	0.00
034	Guarantees received	0.00	0.00
035	Guarantees provided	0.00	0.00
036	**Sub-total**	**0.00**	**0.00**
037	**Total**	**569,688,032.98**	**592,314,567.45**
038	**Transactions with post employment benefit plans**	**0.00**	**0.00**
039	Contributions made during the year	0.00	0.00
040	**Compensation to key management personnel**	**0.00**	**0.00**
041	Short term employee benefits	0.00	0.00
042	Post employment benefits	0.00	0.00
043	Other long term benefits	0.00	0.00
044	Termination benefits	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 44-B TO THE FS--RPD DISCLOSURE- TRANSACTIONS DURING THE PERIOD

(Amount in ₹)

	For the Year ended	31.03.2022	31.03.2021
045	Sitting Fee	0.00	0.00
046	Share based payments	0.00	0.00
047	**Sub-total**	**0.00**	**0.00**
048	**Transactions with the related parties under the control of the same government:**	**0.00**	**0.00**
049	Coal india ltd . And its subsidiaries- purchase of coal	6,992,154,053.00	3,116,670,004.00
050	Singareni coalfields ltd- purchase of coal	0.00	0.00
051	**Bhel ltd.**	**0.00**	**0.00**
052	Purchase of equipment, supply & erection services	50,124,732.00	391,322,785.42
053	Purchase of spares	66,969,092.76	113,094,268.62
054	Maintenance services	266,223,285.15	666,618,043.83
055	**Sub-total**	**383,317,109.91**	**1,171,035,097.87**
056	Gail (i) ltd. Supply of natural gas	0.00	0.00
057	Iocl supply of oil products	58,660,776.98	48,351,085.17
058	Bpcl-supply of natural gas and oil	400,517,344.10	97,394,137.00
059	Sail-supply of steel and iron products	62,976,578.97	47,593,598.92
060	Other entities	0.00	0.00
061	Purchase of equipments & erection services	54,814,765.21	28,590,683.97
062	Purchase of spares	40,824,729.66	602,642.83
063	Maintenance services	6,554,118.75	5,279,317.17
064		0.00	0.00
065	**Total**	**7,589,519,476.48**	**4,513,516,576.83**
066	**Transaction with other**	**0.00**	**0.00**
067	**Transaction with ntpc education and research society and ntpc foundation**	**0.00**	**0.00**
068	- transactions during the year	0.00	0.00
069	ADDITIONAL TRANSACTIONS WITH RELATED PARTIES FOR PSU	0.00	0.00
070	Additional Transactions with GAIL	0.00	0.00
071	Additional Transactions with subsidiaries	0.00	0.00
072	Additional Transactions with joint ventures	0.00	0.00
073		0.00	0.00
074		0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 44-C TO THE FS--RPD DISCLOSURE- OUTSTANDING BALANCES

(Amount in ₹)

	As at	31.03.2022	31.03.2021
001	**Outstanding balance**	**0.00**	**0.00**
002	***Amount recoverable towards loans***	**0.00**	**0.00**
003	- From Subsidiaries	0.00	0.00
004	- From JVC	0.00	0.00
005	- From KMP	0.00	0.00
006	- From Others	0.00	0.00
007	Sub-total	0.00	0.00
008	**Amount recoverable other than loan**	**0.00**	**0.00**
009	- from subsidiaries	0.00	0.00
010	- from joint ventures	0.00	0.00
011	- from key managerial personnel	0.00	0.00
012	- from post employment benfit plans	0.00	0.00
013	- from others	0.00	0.00
014	Sub-total	0.00	0.00
015	**Amount payable**	**0.00**	**0.00**
016	- from subsidiaries	65,203,162.00	0.00
017	- from joint ventures	69,629,541.06	58,439,231.31
018	- from key managerial personnel	0.00	0.00
019	- from post employment benfit plans	0.00	0.00
020	- from others	0.00	0.00
021	Sub-total	134,832,703.06	58,439,231.31
022		0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 23A TO THE FS-NCL-LEASE BORROWINGS

(Amount in ₹)

	As at	31.03.2022	31.03.2021
001	**Non-current financial liabilities - Lease liabilities**	**0.00**	**0.00**
002	**Lease liabilities**	**0.00**	**0.00**
003	Long term maturities of Finance Lease Liabilities (Secured) IX	0.00	0.00
004	Long term maturities of Finance Lease Liabilities (Unsecured) X	0.00	0.00
005	**Sub-Total**	**0.00**	**0.00**
006	**Less: current maturities of lease liabilities**	**0.00**	**0.00**
007	Finance Lease obligations - secured	0.00	0.00
008	Finance Lease obligations - unsecured	0.00	0.00
009	**Sub-Total**	**0.00**	**0.00**
010	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 29A TO THE FS-CL-LEASE BORROWINGS

(Amount in ₹)

	As at	31.03.2022	31.03.2021
001	**Current financial liabilities - Lease liabilities**	**0.00**	**0.00**
002	Current maturity of finance lease obligations (secured)	0.00	0.00
003	Current maturity of finance lease obligations (unsecured)	0.00	0.00
004	**Total**	**0.00**	**0.00**

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

BALANCE SHEET

(Amount in ₹)

	As at	Note	31.03.2023	31.03.2022
001	**ASSETS**		**0.00**	**0.00**
002			0.00	0.00
003	**NON-CURRENT ASSETS**		**0.00**	**0.00**
004	PROPERTY, PLANT & EQUIPMENT	2	29,870,450,436.91	26,391,326,473.04
005	CAPITAL WORK-IN-PROGRESS	3	2,256,457,195.49	7,982,093,156.97
006	INVESTMENT PROPERTY		0.00	0.00
007	INTANGIBLE ASSETS	4	1,172,974,480.42	1,273,736,323.34
008	INTANGIBLE ASSETS UNDER DEVELOPMENT	5	0.00	0.00
009	**FINANCIAL ASSETS**		**0.00**	**0.00**
010	i) EQUITY INVESTMENTS IN SUBSIDIARIES AND JOINT VENTURES	6	0.00	0.00
011	ii) OTHER INVESTMENTS	7	0.00	0.00
012	iii) TRADE RECEIVABLES	8	0.00	0.00
013	iv) LOANS	9	348,214,792.15	340,824,123.64
014	v) OTHER FINANCIAL ASSETS	10	0.00	0.00
015	OTHER NON-CURRENT ASSETS	11	315,903,938.55	315,903,093.90
017	**TOTAL NON-CURRENT ASSETS**		**33,915,677,798.53**	**36,872,179,078.22**
018			**0.00**	**0.00**
019	**CURRENT ASSETS**		**0.00**	**0.00**
020	INVENTORIES	12	5,206,491,796.29	4,768,455,941.97
021	**FINANCIAL ASSETS**		**0.00**	**0.00**
022	i) OTHER INVESTMENTS	13	0.00	0.00
023	ii) TRADE RECEIVABLES	14	0.00	0.00
024	iii) CASH AND CASH EQUIVALENTS	15	67,772.00	119,823.00
025	iv) BANK BALANCES OTHER THAN CASH AND CASH EQUIVALENTS	16	0.00	0.00
026	v) LOANS	17	137,203,798.40	137,408,536.67
027	vi) OTHER FINANCIAL ASSETS	18	808,324,157.00	28,967,588.32
028	CURRENT TAX ASSETS (NET)		0.00	0.00
029			0.00	0.00
030	OTHER CURRENT ASSETS	19	8,902,953,364.44	9,680,795,286.19
031			0.00	0.00
032	**TOTAL CURRENT ASSETS**		**14,954,575,329.90**	**15,011,062,651.75**
033	ASSETS CLASSIFIED AS HELD FOR SALE		42,471,016.51	7,267,437.07
036	REGULATORY DEFERRAL ACCOUNT DEBIT BALANCES	20	-53,429,696.23	-87,518,853.99
037	**TOTAL ASSETS**		**48,918,353,848.73**	**49,803,990,313.03**
038	**EQUITY AND LIABILITIES**		**0.00**	**0.00**
039	**EQUITY**		**0.00**	**0.00**
040	EQUITY SHARE CAPITAL	21	0.00	0.00
041	OTHER EQUITY	22	144,253,437,821.34	136,164,573,599.35
044	**TOTAL EQUITY**		**144,253,437,821.34**	**136,164,573,599.35**
045			0.00	0.00
046	**LIABILITIES**		**0.00**	**0.00**
047	**NON-CURRENT LIABILITIES**		**0.00**	**0.00**
048	**FINANCIAL LIABILITIES**		**0.00**	**0.00**
049	i) BORROWINGS	23	0.00	

Document verified by PARIMALIN PITLISH <Parimalin.pitlish@ntpc.co.in>

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NATIONAL CAPITAL POWER STATION

BALANCE SHEET

(Amount in ₹)

	As at	Note	31.03.2023	31.03.2022
050	(ii) LEASE LIABILITIES	29A	3.05	5.05
051	**(iii) TRADE PAYABLES**		**0.00**	**0.00**
052	- TOTAL OUTSTANDING DUES OF MICRO AND SMALL ENTERPRISES	24	1,584,271.03	8,017,244.67
053	- TOTAL OUTSTANDING DUES OF CREDITORS OTHER THAN MICRO AND SMALL ENTERPRISES	24	7,865,309.80	3,608,712.08
054	(v) OTHER FINANCIAL LIABILITIES	25	8,953,380.00	1,572,187.09
055	PROVISIONS	26	0.00	0.00
056	DEFERRED TAX LIABILITIES (NET)	27	0.00	0.00
057	OTHER NON CURRENT LIABILITIES	28	0.00	0.00
058			**0.00**	**0.00**
059	**TOTAL NON-CURRENT LIABILITIES**		**18,382,589.91**	**53,937,944.73**
060			**0.00**	**0.00**
061	**CURRENT LIABILITIES**		**0.00**	**0.00**
062	**FINANCIAL LIABILITIES**		**0.00**	**0.00**
063	(i) BORROWINGS	29	0.00	0.00
064	(ii) LEASE LIABILITIES	29A	0.00	0.00
065	**(iii) TRADE PAYABLES**		**0.00**	**0.00**
066	- TOTAL OUTSTANDING DUES OF MICRO AND SMALL ENTERPRISES	30	53,913,226.63	106,751,225.15
067	- TOTAL OUTSTANDING DUES OF CREDITORS OTHER THAN MICRO AND SMALL ENTERPRISES	30	19,562,654,952.77	4,309,214,541.89
068	(iv) OTHER FINANCIAL LIABILITIES	31	2,414,667,896.38	2,423,121,874.60
069	OTHER CURRENT LIABILITIES	32	367,636,492.99	134,980,413.28
070	PROVISIONS	33	90,795,384.99	37,931,344.79
071	CURRENT TAX LIABILITIES (NET)	34	0.00	0.00
072			**0.00**	**0.00**
073	**TOTAL CURRENT LIABILITIES**		**22,498,553,438.84**	**7,204,123,799.79**
074			**0.00**	**0.00**
077	DEFERRED REVENUE	35	91,836,386.00	141,358,508.96
078	REGULATORY DEFERRAL ACCOUNT CREDIT BALANCES	36	0.00	0.00
079	INTER UNIT ACCOUNTS		-107,797,445,269.35	-46,565,265,731.04
080			**0.00**	**0.00**
081	**TOTAL EQUITY AND LIABILITIES**		**[illegible]**	**[illegible]**
082	Significant Accounting Policies as per note 1	1	0.00	0.00
083			0.00	0.00
084	The accompanying notes 1 to 44 form an integral part of these financial statements.		0.00	0.00
085			**0.00**	**0.00**

Shalabh Jain
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(Auditor Initial & Stamp)

NARENDER KUMAR CHATRATH
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(Head of Finance)

BRAHMAJI RAO GAMPA
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(Head of Unit)

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NATIONAL CAPITAL POWER STATION

STATEMENT OF PROFIT AND LOSS (Amount in ₹)

	For the Year ended	Note	31.03.2023	31.03.2022
001	**Revenue**		**0.00**	**0.00**
002	Revenue from operations	37	[illegible]	[illegible]
003	Other income	38	331,469,935.78	224,322,456.11
005	**Total Income**		**[illegible]**	**[illegible]**
007	**Expenses**		**0.00**	**0.00**
008	Fuel including cost of captive coal	39A	16,515,329,088.74	[illegible]
009	Employee benefits expense	39	2,834,510,079.48	2,434,198,273.94
010	Electricity purchased for trading		0.00	0.00
011	Finance costs	40	756,588,974.43	606,711,159.96
012	Depreciation and amortisation expenses	41	2,371,757,386.00	2,942,421,943.75
013			0.00	0.00
014	Other expenses	42	2,467,594,386.30	2,208,882,576.19
015	CC expenses charge to revenue		380,647,629.77	486,276,211.23
016	Less: UHI expenses transferred to CC		432,535,254.79	253,335,375.79
017	**Total expenses**		**[illegible]**	**[illegible]**
020	**Profit before exceptional items & tax**		**[illegible]**	**[illegible]**
023	Exceptional items		0.00	0.00
024	**Profit before tax**		**[illegible]**	**[illegible]**
027	**Tax expense:**		**0.00**	**0.00**
028	Current tax		0.00	0.00
031	Deferred tax		0.00	0.00
034			0.00	0.00
035	**Total Tax expense**		**0.00**	**0.00**
036	**Profit for the period before regulatory deferral account balances**		**[illegible]**	**[illegible]**
037	**Movement in regulatory deferral account balances**		**0.00**	**0.00**
038	Regulatory deferral account - deferred		0.00	0.00
039	Others		[illegible]	[illegible]
040	Tax impact on Regulatory deferral account balance		0.00	0.00
041	**Movement in Regulatory deferral account balances (Net of Tax)**		**[illegible]**	**[illegible]**
042	**Profit for the period/ year**		**[illegible]**	**[illegible]**
045	**Other comprehensive income**		**0.00**	**0.00**
046	**(A) Items that will not be reclassified to profit or loss**		**0.00**	**0.00**
047	- Net gain/(loss) on fair value of equity instruments through other comprehensive income		0.00	0.00
048	Income tax on above that will not be reclassified to profit or loss		0.00	0.00
050	- Net actuarial gains/(losses) on defined benefit plans		-25,989,442.76	-10,174,226.36
051	Income tax on above that will not be reclassified to profit or loss		0.00	0.00
054			0.00	0.00
055	**Other comprehensive income for the year, net of income tax**		**-25,989,442.76**	**-10,174,226.36**
070			3.06	0.40
071			0.05	0.07
072	**Total comprehensive income for the year**		**[illegible]**	**[illegible]**

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NATIONAL CAPITAL POWER STATION

STATEMENT OF PROFIT AND LOSS (Amount in ₹)

	For the Year ended	Note	31.03.2023	31.03.2022
006			[illegible]	[illegible]
007	Earnings per equity share		[illegible]	[illegible]
008	Share & Debut		[illegible]	[illegible]
009	Significant Accounting Policies		[illegible]	[illegible]
010			[illegible]	[illegible]
011	The accompanying notes (to 54 form an integral part of these financial statements.		[illegible]	[illegible]

Shalab h Jain
(Auditor Initial & Stamp)

NARENDER KUMAR CHATRATH
(Head of Finance)

BRAHMAJI RAO GAMPA
(Head of Unit)

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Note forming part of Balance Sheet
Note 2 : Property, Plant And Equipment
Business Area :1011

(Amount in Rupees)

Asset Class	Opening Gross Block As At 01.04.2022	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2023	Opening Depreciation As At 01.04.2022	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2023	Net Block As At 31.03.2023	Net Block As At 31.03.2022
1 TANGIBLE ASSETS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 Land : (including development expenses)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3 Freehold	1601457220.30	5600987.95	1421213782.64	1765205425.67	0.00	0.00	0.00	0.00	1765205425.67	1601457220.30
4 Right of Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5 Submergence	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 Right of way - Coal Bearing Area Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7 Roads,bridges, culverts & helipads	3614457746.77	4202695.27	0.00	3657028344.04	1127359383.00	127592243.94	0.00	1254951626.94	2402212537.10	2486098685.77
8 Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 Freehold	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10 Main plant	3155920131.50	1543759899.17	0.00	4699680030.68	867353775.39	180146163.69	0.00	1047499939.08	3652180091.60	2288575356.12
11 Others	795113662.93	333382.65	0.00	795447045.58	256341315.10	26245401.97	0.00	282586716.97	512860328.61	538772347.83
12 Right of Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13 Temporary erection	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14 Water Supply, drainage & sewerage system	1577535339.05	2646735.38	0.00	1580044774.43	513789859.97	53907645.97	0.00	567174705.94	1012870068.49	1064418179.08
15 Hydraulic works, barrages, dams, tunnels and power channel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16 MGR track and signalling system	93169487.30	0.00	0.00	93169487.30	32721328.68	4057092.67	0.00	36700421.35	56469065.95	60456158.62
17 [illegible]	7097976802.41	0.00	0.00	7097976802.41	3395019862.47	211147991.11	0.00	3607167854.58	3490809948.83	3737956939.94
18 [illegible] Equipment	4501444437.04	9614269.00	0.00	4511058706.04	1179635293.98	23020919.79	0.00	1202656213.77	3308402492.27	3321809143.06
19 Sub Total (Tangible Assets)	3654489473.16.57	66547984.79.59	(2377193595.64)	4322962205.391.46	1835589092.35.54	211097305.7.00	(3694053.5.10)	2030267342.52	2291694863.48.94	2036964908.1.01

Note forming part of Balance Sheet
Note 2 : Property, Plant And Equipment
Business Area :1011

(Amount in Rupees)

Asset Class	Opening Gross Block As At 01.04.2022	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2023	Opening Depreciation As At 01.04.2022	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2023	Net Block As At 31.03.2023	Net Block As At 31.03.2022
20. Plant and machinery(including associated civil works) (Right of use Asset	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21. Furniture and fixtures	21123593[illegible].64	165906.23	2244257.61	21523972.76	19711764[illegible].61	1340397[illegible].48	1228992.42	12174987.51	9348[illegible].27	1042181[illegible].23
22. Assets under S Kw Scheme	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23. Vehicles including speedboats / helicopter - Owned	1038368.73	0.00	0.00	1038368.73	606352.78	24019.70	0.00	722970.48	315398.25	340017.95
24. Vehicles including speedboats / helicopter - Leased	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25. Office equipment	12177981.41	3428459.21	1787512.27	13820928.65	8946696.91	7032986.95	1187447.73	7773425.58	4826644.39	5239217[illegible]
26. EDP, WP machines and allied equipment	8296[illegible]752.96	1223[illegible]857.00	332[illegible].37	9355[illegible]19.33	6659[illegible]428.74	967[illegible]340.75	330[illegible].37	7560[illegible]868.64	1795[illegible]640.47	1539[illegible]324.22
27. Construction equipments	14121[illegible]452.70	1426[illegible]380.00	0.00	15537[illegible]832.70	9354[illegible]319.03	867[illegible]137.97	0.00	8241[illegible]457.00	5316[illegible]365.39	5777[illegible]
28. Electrical installations	21963746.58	1314762.53	1400756.00	21777753.11	10187[illegible]	1369[illegible]168.71	(782636.02)	11552[illegible]	10225[illegible]7.31	109[illegible]
29. Communication equipments	2503[illegible]879.74	1[illegible]5062.00	626[illegible]15.44	3191[illegible]406.18	1846[illegible]036.23	1226291.88	538987.31	2122[illegible]315.22	1069[illegible]172.96	9836[illegible]34.51
30. Hospital equipments	41[illegible]584.33	282279.03	0.00	41[illegible]874.33	15[illegible]217.77	4814646.93	0.00	20[illegible]763.69	21219112.63	25750360.55
31. Laboratory and [illegible] equipments	9[illegible]148.30	0.00	973433.00	10[illegible]621.30	3621273.39	542340.00	619707.15	3760[illegible]480.56	7141140.60	7370815.13
32. Capital Expenditure on assets not owned by the Company	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33. [illegible]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note forming part of Balance Sheet
Note 2 : Property, Plant And Equipment
Business Area :1011

(Amount in Rupees)

Asset Class	Opening Gross Block As At 01.04.2022	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2023	Opening Depreciation As At 01.04.2022	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2023	Net Block As At 31.03.2023	Net Block As At 31.03.2022
34 Less:Grants from Government	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35 Less: Recoverable from GOI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36 Assets for ash utilisation	159411285.52	0.00	0.00	159411285.52	0.00	0.00	0.00	0.00	159411285.52	159411285.52
37 (Less) -Adjusted from fly ash utilisation reserve fund	159411285.52	0.00	0.00	159411285.52	0.00	0.00	0.00	0.00	159411285.52	159411285.52
38 Site Restoration Cost	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39 Mining Properties	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand Total (Tangible)	5997484502.59	6150217084.05	(262796365.61)	12757905791.03	2361954569.59	2432631118.71	(26568516.14)	2767804692.13	2990100098.91	2635193413.04
Grand Total Prior Year (Tangible)	4877490365.35	5616758754.89	(285334917.65)	9997114202.59	1798418225.85	3126092790.90	(362700958.89)	2361954569.59	2635193413.04	2882080139.50

Note forming part of Balance Sheet
Note 2 : Property, Plant And Equipment
Business Area :1011

(Amount in Rupees)

Details of Adjustments of Gross Block and Depreciation/Amortization				
Particulars	Gross Block		Depreciation/Amortization	
	Tangible As At: 31.03.2023	Tangible As At: 31.03.2022	Tangible As At: 31.03.2023	Tangible As At: 31.03.2022
Disposal of assets	(2479239.81)	(4617337.09)	(2428540.54)	(4617337.09)
Retirement of assets	(328897208.71)	(425891059.39)	(270716113.27)	(400097151.48)
Cost adjustments	0.00	0.00	0.00	0.00
Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Depreciation on construction equipment capitalised as EDC	0.00	0.00	0.00	0.00
Prior Period Depreciation due to Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Special Depreciation (As per New Policy)	0.00	0.00	0.00	0.00
Transfer in /out because of Inter Unit transfers	9683269.28	45374173.53	7391483.40	44014429.77
Others	(42052128.37)	(200694.70)	69654.27	0.00
TOTAL	**(363746365.61)**	**(385334917.65)**	**(265683516.14)**	**(360700058.80)**

Note : Additions during the year includes capital expenditure towards CSR (in Rs.) : 0.00

Note forming part of Balance Sheet
Note 3: Capital-Work-in-Progress
Business Area: NATIONAL CAPITAL POWER STATION

(Amount in Rupees)

Sl No	Asset Class	As At 01.04.2022	Addition	Deduction/ Adjustment	Capitalised	As At 31.03.2023
	1	2	3	4	5	6
1	CAPITAL WORK-IN-PROGRESS					
2	Development of land					
3	Roads, bridges, culverts & helipads	2439458.29	4685192.65	4765250.99	4765250.65	7124608.93
4	Piling and foundation					
5	Buildings :					
6	Main plant	20109450.41	5487523.29	10193101401.03	10193072240.32	7680134.29
7	Others		333367.66	(333367.66)		
8	Temporary sheds					
9	Water supply, drainage and sewerage system		333074.19	1863599.25	2296673.53	
10	Hydraulic works, barrages, dams, tunnels and power channels					
11	MGR track and signalling system	60032990.61		(32990.61)		60000000.00
12	Railway siding					
13	Spill plant machine	17435427.74	93457260.97	(98149269.06)		12867240.68
14	Plant and equipment	7295706922.56	5686886409.11	(11274601439.26)	4732316897.00	2005676000.41
15	Furniture and fixtures	703291.63		(101400.00)		578491.03
16	Vehicles					
17	Office equipment		649982.53			649982.53
18	EDP/WP machines & peripheral equipment					
19	Construction equipments					
20	Electrical installations					
21	Communication equipment					
22	Hospital equipments					
23	Laboratory and workshop equipments					
24	Expenditure on Voluntary Retirement Scheme of the GOI					
25	Capital expenditure on assets not owned by the company					
26	Expenditure towards development of coal mines					
27	Survey, Investigation, Consultancy & Supervision Chg					
28	Differential in exchange on foreign currency loans					

Note forming part of Balance Sheet
Note 3: Capital-Work-in-Progress
Business Area: NATIONAL CAPITAL POWER STATION

(Amount in Rupees)

Sr No	Asset Class	As At 01.04.2022	Addition	Deduction/ Adjustment	Capitalised	As At 31.03.2023
	1	2	3	4	5	6
29	Expenditure towards diversion of forest land					
30	Pre-commencement [illegible]					
31	Exploration/Mine off-set without Project					
32	Expenditure During Construction Period [net]*		115758077.30			115758077.30
33	LESS : Allocation to related works		(115758077.30)			115758077.30
34	LESS : Provision for Unrecoverable works					
35	Construction stores (At Cost)					
36	Steel	6135517.51	2114681.37	(3064511.64)		7135687.24
37	Cement	2579307.72	2494864.00	(2086675.17)		2987116.55
38	Others	3091594.94	11272917.14	(6739914.19)		25780717.81
39	Sub-total	11806419.67	15882262.53	(92579329.00)		35873721.60
40	LESS : Provision for shortages					
41	Sub-total	11806419.67	15882262.53	(92579329.00)		35873721.60
42	Total CWIP	7689093159.67	6496399035.35	(293122978.33)	5779202051.79	2286457165.40
43						
44						
45	PREVIOUS YEAR TOTAL	6967374728.67	1262425796.43	(254179043.21)	166613792.14	7689093159.67

Note:- Additions during the year includes capital expenditure towards CSR (in Rs.) : 0.00

Note forming part of Balance Sheet
Note-4 Non Current Assets- Intangible Assets
Business Area :1011

(Amount in Rupees)

Asset Class	Opening Gross Block As At 01.04.2022	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2023	Opening Depreciation As At 01.04.2022	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2023	Net Block As At 31.03.2023	Net Block As At 31.03.2022
INTANGIBLE ASSETS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1 Right to Use- Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 -Others	1971660852.48	0.00	0.00	1971660852.48	696545642.37	99854706.68	0.00	796450549.05	1175410303.61	1273075010.20
3 -Software	3041279.83	756774.00	32946.00	3765099.83	2520969.18	655897.83	32946.00	3143913.01	621186.82	461310.65
Grand Total (Intangible)	1974702132.48	756774.00	32946.00	1975426852.48	701166611.55	100510604.51	32946.00	801722262.06	1173974490.43	1273736320.94
Grand Total Prev Year (Intangible)	1974602632.48	22500.00	0.00	1974625132.48	600642524.17	100523287.38	0.00	701166811.55	1273736320.94	1374040108.32

Note forming part of Balance Sheet
Note-4 Non Current Assets- Intangible Assets
Business Area :1011

(Amount in Rupees)

Details of Adjustments of Gross Block and Depreciation/Amortization				
Particulars	Gross Block		Depreciation/Amortization	
	InTangible As At: 31.03.2023	InTangible As At: 31.03.2022	InTangible As At: 31.03.2023	InTangible As At: 31.03.2022
Disposal of assets	0.00	0.00	0.00	0.00
Retirement of assets	0.00	0.00	0.00	0.00
Cost adjustments	0.00	0.00	0.00	0.00
Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Depreciation on construction equipment capitalised as EDC	0.00	0.00	0.00	0.00
Prior Period Depreciation due to Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Special Depreciation (As per New Policy)	0.00	0.00	0.00	0.00
Transfer in /out because of Inter Unit transfers	32946.00	0.00	32946.00	0.00
Others	0.00	0.00	0.00	0.00
TOTAL	**32946.00**	**0.00**	**32946.00**	**0.00**

Note : Additions during the year includes capital expenditure towards CSR (in Rs.) : 0.00

Note forming part of Balance Sheet

(Amount in Rupees)

Note 5: Intangible Assets under Development

Business Area: NATIONAL CAPITAL POWER STATION

Sl No	Asset Class	As At 01.04.2022	Addition	Deduction/ Adjustment	Capitalised	As At 31.03.2023
	1	2	3	4	5	6
1	INTANGIBLE ASSETS UNDER DEVELOPMENT					
2	Software					
3	Right to use Drivers					
4	Exploration and Evaluation Expenditure - Coal Mine					
5	Exploratory wells-in-progress					
6	Less: Provision for exploratory wells-in-progress					
7	Total					
8	PREVIOUS YEAR TOTAL-I					

Note:- Additions during the year includes capital expenditure towards CSR (in Rs.) : 0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 6 TO THE FS-NCA-EQUITY INVESTMENTS IN SUBSIDIARIES AND JOINT VENTURES

(Amount in ₹)

	As at	No. of shares	Face value	31.03.2023	31.03.2022
011	**NON CURRENT INVESTMENTS-INVESTMENTS IN SUBSIDIARIES AND JOINT VENTURES**			[illegible]	[illegible]
012	**EQUITY INSTRUMENTS - UNQUOTED-(FULLY PAID UP UNLESS OTHERWISE STATED, AT COST).**			[illegible]	[illegible]
013	**SUBSIDIARY COMPANIES**			[illegible]	[illegible]
014	PATRATU VIDYUT UTPADAN NIGAM LTD			[illegible]	[illegible]
015	NTPC ELECTRIC SUPPLY COMPANY LTD			[illegible]	[illegible]
016	NTPC VIDYUT VYAPAR NIGAM LTD			[illegible]	[illegible]
017	NABINAGAR POWER GENERATING COMPANY LTD			[illegible]	[illegible]
018	KANTI BIJLEE UTPADAN NIGAM LTD			[illegible]	[illegible]
019	BHARTIYA RAIL BIJLEE COMPANY LTD			[illegible]	[illegible]
020	NTPC MINING LTD (NML)			[illegible]	[illegible]
021	TUDC INDIA LTD			[illegible]	[illegible]
022	NEEPCO LTD			[illegible]	[illegible]
023	NTPC EDMC Waste Solutions Pvt Ltd			[illegible]	[illegible]
024	NTPC Renewables Energy Ltd			[illegible]	[illegible]
025	Rabnagar Gas & Power Pvt Limited (RGPPL)			[illegible]	[illegible]
026	NTPC Green Energy Limited			[illegible]	[illegible]
027	Green Valley Renewable Energy Limited			[illegible]	[illegible]
028				[illegible]	[illegible]
029				[illegible]	[illegible]
030	**SUB TOTAL**			[illegible]	[illegible]
031	**JOINT VENTURE COMPANIES**			[illegible]	[illegible]
032	Utility Powertech Ltd.			[illegible]	[illegible]
033	NTPC GE Power Services Pvt Ltd			[illegible]	[illegible]
034	NTPC-SAIL Power Company Ltd.			[illegible]	[illegible]
035	NTPC-Tamil Nadu Energy Company Ltd			[illegible]	[illegible]

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NOTE NO. 6 TO THE FS-NCA-EQUITY INVESTMENTS IN SUBSIDIARIES AND JOINT VENTURES

(Amount in ₹)

	As at	No. of shares	Face value	31.03.2023	31.03.2022
060	Ratnagiri Gas & Power Pvt. Limited (RGPPL)			0.00	0.00
061	ARAVALI POWER COMPANY PRIVATE LTD.			0.00	0.00
062	Jhabua Power Ltd.			0.00	0.00
063	NTPC SNEL POWER PROJECTS PRIVATE LTD.			0.00	0.00
064	MEJA URJA NIGAM PRIVATE LIMITED			0.00	0.00
065	BF-NTPC ENERGY SYSTEMS LTD.			0.00	0.00
066				0.00	0.00
067	NABINAGAR POWER GENERATING COMPANY LTD.			0.00	0.00
068	TRANSFORMER AND ELECTRICAL KERALA LTD.			0.00	0.00
069	NATIONAL HIGH POWER TEST LABORTORY PRIVATE LTD.			0.00	0.00
070				0.00	0.00
071	CIL NTPC URJA PRIVATE LTD.			0.00	0.00
072	ANUSHAKTI VIDHYUT NIGAM LTD.			0.00	0.00
073	ENERGY EFFICIENCY SERVICES LTD.			0.00	0.00
074				0.00	0.00
075	TRINCOMALEE POWER COMPANY LTD.			0.00	0.00
076	BANGLADESH IRAQ FRIENDSHIP POWER COMPANY PVT. LTD.			0.00	0.00
077	HINDUSTAN URVARAK & RASAYAN LIMITED			0.00	0.00
078	KOHAGAN LNG LTD.			0.00	0.00
081	**SUB TOTAL**			**0.00**	**0.00**
108	AGGREGATE AMOUNT OF IMPAIRMENT IN THE VALUE OF INVESTMENTS			0.00	0.00
110	TOTAL (NET OF IMPAIRMENT) OF JV			0.00	0.00
111	**Gross Total of Investments**			**0.00**	**0.00**
116	**Total**			**0.00**	**0.00**
136	Details of Investments			0.00	
138	Aggregate amount of Unquoted Investments			0.00	

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NATIONAL CAPITAL POWER STATION

NOTE NO. 6 TO THE FS-NCA-EQUITY INVESTMENTS IN SUBSIDIARIES AND JOINT VENTURES

(Amount in ₹)

	As at	No. of shares	Face value	31.03.2023	31.03.2022
141				0.00	0.00
142				0.00	0.00
143				0.00	0.00
144				0.00	0.00
145				0.00	0.00
152	Valuation of investments as per note 1			0.00	0.00
154				0.00	0.00
202				0.00	0.00
255				0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 7 TO THE FS-NCA-OTHER INVESTMENTS

[Amount in ₹]

	As at	No. of shares	Face value	31.03.2023	31.03.2022
001	Non-current financial assets (investments)			0.00	0.00
005	**Long Term - Trade**			**0.00**	**0.00**
007	**Equity Instruments (fully paid up unless otherwise stated)**			**0.00**	**0.00**
008	**Quoted**			**0.00**	**0.00**
009	**JOINT VENTURE COMPANIES**			**0.00**	**0.00**
010	PTC India Ltd.			0.00	0.00
070	INTERNATIONAL COAL VENTURES PRIVATE LTD			0.00	0.00
075	BF-NTPC ENERGY SYSTEMS LTD.			0.00	0.00
090	Jhabua Power Limited 8.5% Non convertible debentures - private placement			0.00	0.00
110	COOPERATIVE SOCIETIES			0.00	0.00
111				0.00	0.00
112	**SUB TOTAL**			**0.00**	**0.00**
113	AGGREGATE AMOUNT OF IMPAIRMENT IN THE VALUE OF INVESTMENTS			0.00	0.00
115	**TOTAL**			**0.00**	**0.00**
120				0.00	0.00
146	NTPC EMPLOYEES CONSUMERS AND THRIFT CO-OPERATIVE SOCIETY LTD KORBA			0.00	0.00
147	NTPC EMPLOYEES CONSUMERS AND THRIFT COOPERATIVE SOCIETY LTD RSTPP			0.00	0.00
148	NTPC EMPLOYEES CONSUMERS COOPERATIVE SOCIETY LTD. FARAKKA			0.00	0.00
149	NTPC EMPLOYEES CONSUMERS COOPERATIVE SOCIETY LTD. VINDHYACHAL			0.00	0.00
150	NTPC EMPLOYEES CONSUMERS COOPERATIVE SOCIETY LTD. ANTA			0.00	0.00
151	NTPC EMPLOYEES CONSUMERS COOPERATIVE SOCIETY LTD. NAVAS			0.00	0.00
152	NTPC Employees Consumers Cooperative Society Ltd. Kawas			0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 8 TO THE FS-NCA-TRADE RECEIVABLES

(Amount in ₹)

	As at	31.03.2023	31.03.2022
001	Non-current financial assets – Trade receivables	0.00	0.00
002	UNSECURED, CONSIDERED GOOD	0.00	0.00
003	CREDIT IMPAIRED	0.00	0.00
004		0.00	0.00
006	**Total**	**0.00**	**0.00**

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 9 TO THE FS-NCA-LOANS (Amount in ₹)

	As at	31.03.2023	31.03.2022
001	**LOANS (NON CURRENT)**	**0.00**	**0.00**
004	RELATED PARTIES	0.00	0.00
005	SECURED	0.00	0.00
006	UN-SECURED	0.00	0.00
007	WITH SIGNIFICANT INCREASE IN CREDIT RISK	0.00	0.00
008	CREDIT IMPAIRED	0.00	0.00
009		0.00	0.00
010	EMPLOYEES(INCLUDING ACCRUED INTEREST)	0.00	0.00
011	SECURED	183,386,645.58	165,120,149.64
012	UNSECURED	125,780,322.42	122,705,085.41
013	WITH SIGNIFICANT INCREASE IN CREDIT RISK	0.00	0.00
014	CREDIT IMPAIRED	0.00	0.00
015	LESS : EMPLOYEE LOANS DISCOUNTING	0.00	0.00
016	SECURED	42,506,542.68	46,294,068.92
017	UNSECURED	21,443,722.57	20,707,945.49
018	LOAN TO STATE GOVERNMENT IN SETTLEMENT OF DUES FROM CUSTOMERS (UNSECURED)	0.00	0.00
019	OTHERS	0.00	0.00
020	SECURED	0.00	0.00
021	UNSECURED	0.00	0.00
022	WITH SIGNIFICANT INCREASE IN CREDIT RISK	0.00	0.00
023	CREDIT IMPAIRED	0.00	0.00
024	LESS: ALLOWANCE FOR CREDIT IMPAIRED LOANS	0.00	0.00
025	**SUB TOTAL**	**248,216,702.75**	**240,824,120.64**
027		0.00	0.00
028	**TOTAL**	**248,216,702.75**	**240,824,120.64**
029		0.00	0.00
030		0.00	0.00
031	**Due from Directors and Officers of the Company**	**0.00**	**0.00**
032	Directors	0.00	0.00
033	Officers	0.00	0.00
034		**0.00**	**0.00**
035	**Loans to related parties include:**	**0.00**	**0.00**
036	i)Key management personel	0.00	0.00
037	ii)Subsidiary companies	0.00	0.00
038	iii)Joint Venture companies	0.00	0.00
039	iv)Others	0.00	0.00
040		**0.00**	**0.00**
055	Other loans represent loans given to	0.00	0.00
056	a) APHC	0.00	0.00
061		0.00	
062	RPD	0.00	
063	i)Key management personel	0.00	

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NATIONAL CAPITAL POWER STATION

NOTE NO. 9 TO THE FS-NCA-LOANS

(Amount in ₹)

	As at	31.03.2023	31.03.2022
064	ii)Subsidiary companies	0.00	0.00
065	iii)Joint Venture companies	0.00	0.00
066	iv)Others	0.00	0.00
067	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 10 TO THE FS-NCA-OTHER FINANCIAL ASSETS

(Amount in ₹)

	As at	31.03.2023	31.03.2022
001	**Other Financial Assets (non current)**	**0.00**	**0.00**
002		0.00	0.00
003	**Share application money pending allotment in (Subsidiary Companies) :**	**0.00**	**0.00**
004	NTPC Electric Supply Company Ltd.	0.00	0.00
005	NTPC Vidyut Vyapar Nigam Ltd.	0.00	0.00
006	Nabinagar Power Generating Company Ltd.	0.00	0.00
007	Kanti Bijlee Utpadan Nigam Ltd.	0.00	0.00
008	Bhartiya Rail Bijlee Company Ltd.	0.00	0.00
009	Patratu Vidyut Utpadan Nigam Ltd.	0.00	0.00
010	NTPC Mining Limited	0.00	0.00
011	THDC Ltd.	0.00	0.00
012	NEEPCO Ltd	0.00	0.00
013		0.00	0.00
014	**Total**	**0.00**	**0.00**
015	**Share application money pending allotment (Joint Venture)**	**0.00**	**0.00**
016	Utility Powertech Ltd.	0.00	0.00
017	NTPC GE Power Services Pvt.Ltd.	0.00	0.00
018	NTPC-SAIL Power Company Ltd.	0.00	0.00
019	NTPC-Tamil Nadu Energy Company Ltd.	0.00	0.00
020	Ratnagiri Gas & Power Private Ltd.	0.00	0.00
021	Aravali Power Company Private Ltd.	0.00	0.00
022		0.00	0.00
023	NTPC BHEL Power Projects Private Ltd.	0.00	0.00
024	Meja Urja Nigam Private Limited	0.00	0.00
025	BF-NTPC Energy Systems Ltd.	0.00	0.00
026	Anushakti Vidhyut Nigam Ltd.	0.00	0.00
027	Nabinagar Power Generating Company Ltd.	0.00	0.00
028	Energy Efficiency Services Ltd.	0.00	0.00
029	National High Power Test Labortory Private Ltd.	0.00	0.00
030		0.00	0.00
031	CIL NTPC Urja Private Ltd.	0.00	0.00
032	Trincomalee Power Company Ltd.	0.00	0.00
033	Hindustan Urvarak & Rasayan Limited	0.00	0.00
034	Bangladesh-India Friendship Power Company Private Ltd.	0.00	0.00
035	**Sub Total**	**0.00**	**0.00**
036		0.00	0.00
037	Claims Recoverable	0.00	0.00
038	Finance Lease Recoverable	0.00	0.00
039	Mine Closure Deposit	0.00	0.00
040	Financial Deposit	0.00	0.00
041		0.00	0.00
042	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

(Amount in ₹)

As at	31.03.2023	31.03.2022
010	0.00	0.00

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 11 TO THE FS-NCA-OTHER NON-CURRENT ASSETS

(Amount in ₹)

	As at	31.03.2023	31.03.2022
001	**Other Non-current Assets**	**0.00**	**0.00**
002		**0.00**	**0.00**
003	**CAPITAL ADVANCES**	**0.00**	**0.00**
004	SECURED	0.00	0.00
005	Unsecured	0.00	0.00
006	COVERED BY BANK GUARANTEE	33,730,262.22	138,854,777.86
007	OTHERS	201,607,439.89	113,089,030.51
008	CONSIDERED DOUBTFUL	18,572,609.00	18,594,445.00
009	LESS: ALLOWANCE FOR BAD & DOUBTFUL ADVANCES	18,572,609.00	18,594,445.00
010	**Sub-Total**	**235,337,782.11**	**251,943,808.37**
011		0.00	0.00
012	Advances other than capital advances	0.00	0.00
013	SECURITY DEPOSITS	5,498,200.00	5,498,200.00
019	Advances to Related parties	0.00	0.00
022	**Advances to Contractors & Suppliers**	**0.00**	**0.00**
023	SECURED	0.00	0.00
024	UNSECURED	0.00	0.00
025	CONSIDERED DOUBTFUL	0.00	0.00
026	LESS: ALLOWANCE FOR BAD & DOUBTFUL ADVANCES	0.00	0.00
027	**Sub Total**	**5,498,200.00**	**5,498,200.00**
028	RECEIVABLE FROM MCP ESCROW A/C	0.00	0.00
029	Pre Paid expenses	0.00	0.00
039	ADVANCE TAX & TAX DEDUCTED AT SOURCE	27,045,581.51	5,928,327.71
040	LESS:- PROVISION FOR CURRENT TAX	0.00	0.00
041		0.00	0.00
042	**Sub Total**	**27,045,581.51**	**5,928,327.71**
043	DEFERRED PAYROLL EXPENSES (SECURED)	32,280,347.09	38,245,783.96
044	DEFERRED PAYROLL EXPENSES (UNSECURED)	15,806,078.24	14,965,943.89
045	**Sub Total**	**48,086,425.33**	**53,211,727.85**
046	DEFERRED FOREIGN CURRENCY FLUCTUATION ASSET	1,000.00	1,000.00
049		0.00	0.00
050	**Total**	**315,968,988.95**	**316,583,063.93**
051		0.00	0.00
052		0.00	0.00
062	Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies	0.00	0.00
064		0.00	0.00
065	NTPC GE Power Services Pvt.Ltd.	0.00	0.00
066		0.00	0.00
067	Ratnagiri Gas & Power Private Ltd.	0.00	0.00
068	Aravali Power Company Private Ltd.	0.00	[illegible]
069	NTPC-SCCL Global Ventures Private Ltd.	0.00	[illegible]

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NATIONAL CAPITAL POWER STATION

NOTE NO. 11 TO THE FS-NCA-OTHER NON-CURRENT ASSETS (Amount in ₹)

	As at	31.03.2023	31.03.2022
070	NTPC BHEL Power Projects Private Ltd.	0.00	0.00
071	Meja Urja Nigam Private Limited	0.00	0.00
072	Nabinagar Power Generating Company Ltd.	0.00	0.00
073	National High Power Test Labortory Private Ltd.	0.00	0.00
075	CIL NTPC Urja Private Ltd.	0.00	0.00
077		0.00	0.00
078	**Related Party (Adv)**	**0.00**	**0.00**
079	Key Management personel	0.00	0.00
080	Subsidiary companies	0.00	0.00
081	Joint Venture companies	0.00	0.00
082	Contractors	0.00	0.00
083	Others	0.00	0.00
085		0.00	0.00
086	**Total**	**0.00**	**0.00**

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 12 TO THE FS-CA-INVENTORIES (Amount in ₹)

	As at	31.03.2023	31.03.2022
001	**INVENTORIES**	**0.00**	**0.00**
002		**0.00**	**0.00**
003	Coal	2,992,712,989.91	2,574,669,655.05
004	Fuel oil	282,747,188.61	340,350,415.26
005	Naphtha	0.00	0.00
006	Stores and spares	1,396,393,738.73	1,399,331,240.17
007	Chemicals & consumables	158,056,304.36	124,457,413.26
008	Loose tools	5,142,130.42	5,372,629.79
009	Steel Scrap	25,943,594.13	2,313,576.96
010	Others	440,858,562.18	415,412,595.54
011		0.00	0.00
012	**Sub Total**	**5,301,854,908.34**	**4,861,907,526.02**
013	Less: Provision for shortages	6,541,840.75	9,539,982.00
014	Less: Provision for obsolete/ unservicable/diminution in value of surplus inventory	88,821,201.30	83,901,976.05
016		0.00	0.00
017	**Total**	**5,206,491,766.29**	**4,768,465,561.97**
018	**Inventories include material in transit**	**0.00**	**0.00**
019	Coal	235,980,102.03	87,212,196.00
020	Fuel oil	0.00	0.00
021	Naphtha	0.00	0.00
022	Stores and spares	10,643,730.95	4,985,628.95
023	Chemicals & consumables	2,064,007.62	2,097,835.38
024	Loose tools	0.00	0.00
025	Others	409,916.43	154,728.55
026		**0.00**	**0.00**
028	Inventory items other than steel scrap have been valued considering Note 1.	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 13 TO THE FS-CA-OTHER INVESTMENTS

(Amount in ₹)

	As at	No. of shares	Face value	31.03.2023	31.03.2022
001	**CURRENT INVESTMENTS**			[illegible]	[illegible]
002	**(Valuation as per Note 1)**			[illegible]	[illegible]
003	Jhabua Power Limited-8.5% Non convertible debentures - private placement			[illegible]	[illegible]
030	Investment in Mutual Funds (Details as under)			[illegible]	[illegible]
004	SBI-Magnum Insta Cash Fund-DDR			[illegible]	[illegible]
035	SBI Premier Liquid Fund Super-IP-DDR			[illegible]	[illegible]
036	Sbi-SHF Ultra Short Term Fund-IP-DDR			[illegible]	[illegible]
037	UTI Money Market IP-Direct-Growth			[illegible]	[illegible]
038	IDBI Liquid plan- Direct-Growth			[illegible]	[illegible]
039	Canara Robeco Liquid Fund Super-IP-DDR			[illegible]	[illegible]
040	Canara Robeco Treasury Advantage Fund Super-IP-DDR			[illegible]	[illegible]
041	IDBI Liquid Fund-DDR			[illegible]	[illegible]
042	SBI Premier Liquid fund-Direct DDR (Ash Fund)			[illegible]	[illegible]
043	UTI Liquid CashPlan - IP - DDR (Ash Funds)			[illegible]	[illegible]
044	IDBI Liquid Fund - DDR - (Ash Funds)			[illegible]	[illegible]
045	Baroda Liquid Fund - Direct - Growth			[illegible]	[illegible]
046				[illegible]	[illegible]
047	**Sub Total**			[illegible]	[illegible]
048				[illegible]	[illegible]
052	**Unquoted Investments**			[illegible]	[illegible]
054				[illegible]	[illegible]
099	**TOTAL**			[illegible]	[illegible]
069				[illegible]	[illegible]

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NATIONAL CAPITAL POWER STATION

NOTE NO. 14 TO THE FS-CA-TRADE RECEIVABLES

(Amount in ₹)

	As at	31.03.2023	31.03.2022
001	**TRADE RECEIVABLES (current)***	**0.00**	**0.00**
002		0.00	0.00
003	Secured,Considered Good	0.00	0.00
004	Unsecured , considered good	0.00	0.00
005	Credit impaired	0.00	0.00
006	Unbilled Revenue	0.00	0.00
007	**Sub-Total**	**0.00**	**0.00**
008	**Total**	**0.00**	**0.00**
009	Less: Allowance for credit impaired receivables	0.00	0.00
010	**Total**	**0.00**	**0.00**
012	Less: Discom Clearing	0.00	0.00
014		0.00	0.00
015	**Grand Total**	**0.00**	**0.00**
016	Other Unsecured	0.00	0.00
017	Long-term trade receivables	0.00	0.00
018	TCS Clearing	0.00	0.00
019	Discom Clearing	0.00	0.00
228	**Trade Receivable**	**0.00**	**0.00**
230	Not due	0.00	0.00
231	Due	0.00	0.00
232	(i) Undisputed Trade receivables # considered good	0.00	0.00
233	(ii) Undisputed Trade Receivables # which have significant increase in credit risk	0.00	0.00
234	(iii) Undisputed Trade Receivables # credit impaired	0.00	0.00
235	(iv) Disputed Trade Receivables#considered good	0.00	0.00
236	(v) Disputed Trade Receivables # which have significant increase in credit risk	0.00	0.00
237	(vi) Disputed Trade Receivables # credit impaired	0.00	0.00
238	Unbilled	0.00	0.00
239	**Total**	**0.00**	**0.00**
240		0.00	0.00
241	**(i) Undisputed Trade receivables # considered good**	**0.00**	**0.00**
242	Less than 6 months	0.00	0.00
243	6 months -1 year	0.00	0.00
244	1-2 years	0.00	0.00
245	2-3 years	0.00	0.00
246	More than 3 years	0.00	0.00
247	**Sub Total (i)**	**0.00**	**0.00**
248	**(ii) Undisputed Trade Receivables # which have significant increase in credit risk**	**0.00**	**0.00**
249	Less than 6 months	0.00	0.00
250	6 months -1 year	0.00	0.00
251	1-2 years	0.00	0.00
252	2-3 years	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 14 TO THE FS-CA-TRADE RECEIVABLES

(Amount in ₹)

	As at	31.03.2023	31.03.2022
253	More than 3 years	0.00	0.00
254	**Sub Total (II)**	**0.00**	**0.00**
255	**(iii) Undisputed Trade Receivables -credit impaired**	**0.00**	**0.00**
256	Less than 6 months	0.00	0.00
257	6 months -1 year	0.00	0.00
258	1-2 years	0.00	0.00
259	2-3 years	0.00	0.00
260	More than 3 years	0.00	0.00
261	**Sub Total (III)**	**0.00**	**0.00**
262		0.00	0.00
263	**(iv) Disputed Trade Receivables#considered good**	**0.00**	**0.00**
264	Less than 6 months	0.00	0.00
265	6 months -1 year	0.00	0.00
266	1-2 years	0.00	0.00
267	2-3 years	0.00	0.00
268	More than 3 years	0.00	0.00
269	**Sub Total (IV)**	**0.00**	**0.00**
270	**(v) Disputed Trade Receivables # which have significant increase in credit risk**	**0.00**	**0.00**
271	Less than 6 months	0.00	0.00
272	6 months -1 year	0.00	0.00
273	1-2 years	0.00	0.00
274	2-3 years	0.00	0.00
275	More than 3 years	0.00	0.00
276	**Sub Total (V)**	**0.00**	**0.00**
277	**(vi) Disputed Trade Receivables # credit impaired**	**0.00**	**0.00**
278	Less than 6 months	0.00	0.00
279	6 months -1 year	0.00	0.00
280	1-2 years	0.00	0.00
281	2-3 years	0.00	0.00
282	More than 3 years	0.00	0.00
283	**Sub Total (VI)**	**0.00**	**0.00**
284	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 15 TO THE FS-CA-CASH AND CASH EQUIVALENTS (Amount in ₹)

	As at	31.03.2023	31.03.2022
001	**CASH & BANK BALANCES**	**0.00**	**0.00**
002	**Cash & Cash Equivalents**	**0.00**	**0.00**
003	Balances with Banks	0.00	0.00
004	Cheques & Drafts on hand	0.00	0.00
005	Cash on hand	0.00	0.00
006	Others (stamps in hand)	62,772.00	115,421.00
007	Bank deposits with original maturity upto three months	0.00	0.00
008	Balances with RBI	0.00	0.00
009		0.00	0.00
011	**Total**	**62,772.00**	**115,421.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 16 TO THE FS-CA-BANK BALANCES OTHER THAN CASH AND CASH EQUIVALENTS (Amount in ₹)

	As at	31.03.2023	31.03.2022
001	**Other Bank Balances**	**0.00**	**0.00**
002	Deposits with original maturity of more than three months but not more than twelve months	0.00	0.00
003	Earmarked balances with banks*	0.00	0.00
004	**SubTotal**	**0.00**	**0.00**
005	Interest accrued on deposits	0.00	0.00
006		0.00	0.00
008	**Total**	**0.00**	**0.00**
009		0.00	0.00
010	**Earmarked balances with banks consist of :**	**0.00**	**0.00**
011	Unpaid dividend account balance	0.00	0.00
012	Towards public deposit repayment reserve	0.00	0.00
013	Towards redemption of bonds due for repayment within one year	0.00	0.00
014	Security with Government/other authorities	0.00	0.00
015	Unpaid refund/interest account balance - Tax free bonds/ Bonus Debentures	0.00	0.00
016	Earmarked for RGGVY/DDUGJY/SAUBHAGYA Fund	0.00	0.00
017	Earmarked for Flyash Utilisation Reserve Fund	0.00	0.00
018	Deposits with original maturity upto three months as per court orders	0.00	0.00
019	Payment Security Scheme of MNRE NSM (NTPC)	0.00	0.00
020	Payment Security Scheme of MNRE NSM (NVVN)	0.00	0.00
021	Enforcement Directorate of Solar Plant(NVVN)	0.00	0.00
022	Bank guarantee Fund of MNRE (NVVN)	0.00	0.00
023	Others	0.00	0.00
024	Margin Money	0.00	0.00
025		0.00	0.00
026		0.00	0.00
027	**Sub-total**	**0.00**	**0.00**
031	**Total**	**0.00**	**0.00**
032		0.00	0.00
033	Bank deposits with original maturity of less than three months- other than earmarked	0.00	0.00
034	Bank deposits with original maturity of more than three months but not more than twelve months- other than earmarked	0.00	0.00
035	Earmarked bank balances (current account)	0.00	0.00

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 17 TO THE FS-CA-LOANS

(Amount in ₹)

	As at	31.03.2023	31.03.2022
001	**Current financial assets - Loans**	**0.00**	**0.00**
002	**Loans (current)-including interest accrued**	**0.00**	**0.00**
004	**Related Parties**	**0.00**	**0.00**
005	Secured	0.00	0.00
006	Un-Secured	0.00	0.00
007	With significant increase in Credit Risk	0.00	0.00
008	Credit impaired	0.00	0.00
009		**0.00**	**0.00**
010	**Employees**	**0.00**	**0.00**
011	Secured	41,723,301.64	41,671,418.02
012	Unsecured	95,480,483.81	91,737,918.85
013	With significant increase in Credit Risk	0.00	0.00
014	Credit impaired	0.00	0.00
015	Less : Employee Loans Discounting	0.00	0.00
016	**Loan to State Government in settlement of dues from customers (Unsecured)**	**0.00**	**0.00**
017		0.00	0.00
018	**Others**	**0.00**	**0.00**
019	Secured	0.00	0.00
020	Unsecured	0.00	0.00
021	With significant increase in Credit Risk	0.00	0.00
022	Credit impaired	0.00	0.00
023		**0.00**	**0.00**
024	Less: Allowance for credit impaired loans	0.00	0.00
026		0.00	0.00
027	**Total (Loans)**	**137,203,785.45**	**133,409,336.87**
028		**0.00**	**0.00**
029	**Due from Directors and Officers of the Company**	**0.00**	**0.00**
030	Directors	0.00	0.00
031	Officers	0.00	0.00
032		**0.00**	**0.00**
033	**Loans to related parties include:**	**0.00**	**0.00**
034	i)Key management personel	0.00	0.00
035	ii)Subsidiary companies	0.00	0.00
036	KBUNL	0.00	0.00
037	RGPPL	0.00	0.00
038	NVVN	0.00	0.00
039	iii)Joint Venture companies	0.00	0.00
040	iv)others	0.00	0.00
041		0.00	0.00
060	R/PD	0.00	0.00
061	i)Key management personel	0.00	0.00
062	ii)Subsidiary companies	0.00	0.00
063	iii)Joint Venture companies	0.00	0.00
064	iv)Others	0.00	0.00
065		0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 17 TO THE FS-CA-LOANS

(Amount in ₹)

	As at	31.03.2023	31.03.2022
065	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 18 TO THE FS-CA-OTHER FINANCIAL ASSETS

(Amount in ₹)

	As at	31.03.2023	31.03.2022
001	**Other Financial Assets (current)**	**0.00**	**0.00**
002		0.00	0.00
003	**ADVANCES**	**0.00**	**0.00**
004		**0.00**	**0.00**
005	**Related Parties**	**0.00**	**0.00**
006	Secured	0.00	0.00
007	Un-Secured	-57,713,524.56	-46,653,848.43
008	Considered doubtful	0.00	0.00
009		**0.00**	**0.00**
010	**Employees**	**0.00**	**0.00**
012	Unsecured	6,781,197.90	12,022,305.11
013	Considered Doubtful	0.00	0.00
014		**0.00**	**0.00**
020	**Others**	**0.00**	**0.00**
021	Secured	0.00	0.00
022	Unsecured	0.00	-1,295,537.00
023	Considered Doubtful	0.00	0.00
024		**0.00**	**0.00**
025	Less: Allowance for bad & doubtful advances	0.00	0.00
026		**0.00**	**0.00**
033	**Total (Advances)**	**-50,932,326.66**	**-35,957,076.32**
044		**0.00**	**0.00**
045	**Claims Recoverable**	**0.00**	**0.00**
046	Secured	0.00	0.00
047	Unsecured, considered good	24,907,393.04	3,371,801.00
048	Considered Doubtful	375,353.48	375,353.48
049	Less:- Allowance for doubtful claims	375,353.48	375,353.48
050	Others-Claims Recoverable	0.00	0.00
051		**0.00**	**0.00**
052	Contract Asset- Revenue	510,744,895.35	30,768,326.75
053	Hedging cost recoverable from beneficiaries	0.00	0.00
054	Derivative MTM Asset	0.00	0.00
055	Finance Lease Receivable	0.00	0.00
056	Mine Closure Deposit	0.00	0.00
057	Financial Deposit	0.00	0.00
059	**Other Accrued Income**	**0.00**	**0.00**
060	Secured,Considered Good	0.00	0.00
061	Unsecured , considered good	23,604,196.04	30,714,613.49
062	Credit impaired	0.00	0.00
063		0.00	0.00
064	**Sub-Total**	**23,604,196.04**	**30,714,613.49**
065	Less: Allowance for credit impaired receivables	0.00	0.00
066	**Total**	**23,604,196.04**	**30,714,613.49**
067		0.00	0.00
068	Others*	0.00	0.00
070		0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 18 TO THE FS-CA-OTHER FINANCIAL ASSETS

(Amount in ₹)

	As at	31.03.2023	31.03.2022
071	**Total**	**808,324,157.20**	**26,897,665.52**
072	* Other include amount recoverable from contractors and other parties towards hire charges, rent/electricity etc.	0.00	0.00
073	**Advances to related parties include:**	**0.00**	**0.00**
074	i)Key management personal	0.00	0.00
075		0.00	0.00
076	iii)Joint Venture companies	0.00	0.00
077		0.00	0.00
078	v)Others	0.00	0.00
079		**0.00**	**0.00**
080	Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies:	0.00	0.00
081	Related Party (Adv)- Employee	0.00	0.00
082	Related Party (Adv)- Subsidiaries	-57,713,524.56	-46,683,848.43
083	Related Party (Adv)- Joint Ventures	0.00	0.00
084		0.00	0.00
085	Related Party (Adv)- Others	0.00	0.00
086		0.00	0.00
099		0.00	0.00
100		0.00	0.00
101	**Total**	**-57,713,524.56**	**-46,683,848.43**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 19 TO THE FS-CA-OTHER CURRENT ASSETS

(Amount in ₹)

	As at	31.03.2023	31.03.2022
001	**OTHER CURRENT ASSETS**	**0.00**	**0.00**
002	Security Deposits (Unsecured)	0.00	0.00
003	Deposit with Customs, port trust & others*	16,877,316.00	15,334,493.00
004	**ADVANCES**	**0.00**	**0.00**
005		**0.00**	**0.00**
006	**Related Parties**	**0.00**	**0.00**
007	Secured	0.00	0.00
008	Un-Secured	0.00	0.00
009	Considered doubtful	0.00	0.00
010		**0.00**	**0.00**
011	**Employees(including imprest)**	**0.00**	**0.00**
012	Secured	0.00	0.00
013	Unsecured	20,903,583.00	8,947,242.12
014	Considered Doubtful	0.00	0.00
015		**0.00**	**0.00**
016	**Contractors & Suppliers**	**0.00**	**0.00**
017	Secured	0.00	0.00
018	Unsecured	4,995,057,651.45	1,343,863,017.31
019	Considered Doubtful	0.00	0.00
020		0.00	0.00
021	**Others****	**0.00**	**0.00**
022	Secured	0.00	0.00
023	Unsecured	4,899,459.03	7,602,363.43
024	Considered Doubtful	0.00	0.00
025	Less: Allowance for bad & doubtful advances	0.00	0.00
026	Receivable from MCP Escrow A/c	0.00	0.00
027	Deferred Payroll Expenses (Secured)	4,783,561.38	5,505,785.63
028	Deferred Payroll Expenses (Unsecured)	5,972,773.90	6,492,499.59
029	**Sub-total**	**10,756,335.28**	**11,998,285.22**
030	**Interest accrued on :**	**0.00**	**0.00**
031	Advances to contractors	0.00	0.00
032		**0.00**	**0.00**
033	**Claims Recoverable**	**0.00**	**0.00**
034	Secured	0.00	0.00
035	Unsecured, considered good	4,883,709,943.25	4,291,150,088.63
036	Considered Doubtful	0.00	0.00
037	Less:- Allowance for doubtful claims	0.00	0.00
038		**0.00**	**0.00**
039	Deferred premium on forward exchange contract/ Option Assets	0.00	0.00
041		0.00	0.00
042	Others	548,758.45	1,418,877.48
043		0.00	0.00
045	**Total (Other Current Assets)**	**9,932,753,944.46**	**5,656,195,265.19**
046	**Include Prepaid Expenses	4,832,003.53	[illegible]
047	*Includes sales tax/Entry tax/VAT deposited under protest with Sales Tax Authorities	15,534,962.00	[illegible]

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NATIONAL CAPITAL POWER STATION

NOTE NO. 19 TO THE FS-CA-OTHER CURRENT ASSETS (Amount in ₹)

	As at	31.03.2023	31.03.2022
048	*Includes deposited with courts	0.00	0.00
049	*Includes deposited with LIC for annuity payments	0.00	0.00
050	* Includes deposits with WRD / against BG in r/o finance lease	0.00	0.00
051	Other include amount recoverable from contractors and other parties towards hire charges, rent/electricity etc.	0.00	0.00
053	**Advances to related parties include:**	**0.00**	**0.00**
054	i)Key management personel	0.00	0.00
055	ii)Subsidiary companies	0.00	0.00
056	iii)Joint Venture companies	0.00	0.00
057	Contractors	0.00	0.00
058	Others	0.00	0.00
059		0.00	0.00
060	Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies	0.00	0.00
061		**0.00**	**0.00**
062		0.00	0.00
063	Related Party (Adv)- Employee	0.00	0.00
064	Related Party (Adv)- Subsidiaries	0.00	0.00
065	Related Party (Adv)- Joint Venture	0.00	0.00
066		0.00	0.00
067		0.00	0.00
068	**Total**	**0.00**	**0.00**
069		0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 20 TO THE FS--REGULATORY DEFERRAL ACCOUNT DEBIT BALANCES **(Amount in ₹)**

	As at	31.03.2023	31.03.2022
001	On account of Exchange Differences	-53,028,686.33	-57,530,653.99
002	On account of employee benefit exp	0.00	0.00
003	Regulatory deferred account - deferred	0.00	0.00
004	Deferred asset for ash transportation	0.00	0.00
005	Deferred asset for Arbitration Award	0.00	0.00
008		0.00	0.00
009	**Total**	**-53,028,686.33**	**-57,530,653.99**

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Reason: AOA[illegible]mmercial)
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 21 TO THE FS-EQUITY-EQUITY SHARE CAPITAL

(Amount in ₹)

	As at	31.03.2023	31.03.2022
001	**SHARE CAPITAL**	**0.00**	**0.00**
002	**Equity Share Capital**	**0.00**	**0.00**
003	**Authorised**	**0.00**	**0.00**
004	16,60,00,00,000 equity shares of Rs.10/- each (Previous year 10,000,000,000 equity shares of Rs.10/- each)	0.00	0.00
005	**Issued,Subscribed and fully Paid-up**	**0.00**	**0.00**
006	9,69,66,66,134 equity shares of Rs.10/- (Pv. Year 9,694,557,280 equity shares of Rs.10/- each)	0.00	0.00
007		**0.00**	**0.00**
008	**Total**	**0.00**	**0.00**
009	During FY 2018-19, the company has issued 1,649,092,880 equity shares of Rs.10/- each as fully paid bonus shares	0.00	0.00
010	The holders of the equity shares are entitled to receive dividends as declared from time to time, and are entitled to one vote per share at meetings of the company.	0.00	0.00
011	Details of shareholders holding more than 5% shares in the company	0.00	0.00
012	- President of India	0.00	0.00
013	No. of Shares	0.00	0.00
014	% of holdeig	0.00	0.00
015	- Life Insurance Corporation of India/ICICI Prudential Mutual Fund	0.00	0.00
016	No. of Shares	0.00	0.00
017	% of holding	0.00	0.00

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Date: 2024
Reason: AO
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 22 TO THE FS-EQUITY-OTHER EQUITY (Amount in ₹)

	As at	31.03.2023	31.03.2022
001	RESERVE AND SURPLUS	0.00	0.00
002		**0.00**	**0.00**
003	**Capital Reserve**	**0.00**	**0.00**
004	As per last financial statements	0.00	0.00
006	Add : Grants received during the year	0.00	0.00
007	Add: Transfer from Surplus	0.00	0.00
008	Less: Write back during the year/period	0.00	0.00
009	Less: Adjustments during the year/period	0.00	0.00
010	**SUB-TOTAL**	**0.00**	**0.00**
011		0.00	0.00
017		0.00	0.00
018	**SECURITIES PREMIUM ACCOUNT**	**0.00**	**0.00**
019	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
020	ADD: ADDITIONS DURING THE YEAR/PERIOD	0.00	0.00
021	LESS: ADJUSTMENTS DURING THE YEAR/PERIOD	0.00	0.00
022	**SUB-TOTAL**	**0.00**	**0.00**
023	**BONDS REDEMPTION RESERVE**	**0.00**	**0.00**
024	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
025	ADD: TRANSFER FROM SURPLUS	0.00	0.00
026	LESS: TRANSFER TO SURPLUS ON REDEMPTION	0.00	0.00
027	LESS: ADJUSTMENTS DURING THE YEAR/ PERIOD	0.00	0.00
028	**SUB-TOTAL**	**0.00**	**0.00**
029	**CAPITAL REDEMPTION RESERVE**	**0.00**	**0.00**
030	As per last financial statements	0.00	0.00
031	Add: Transfer from Surplus	0.00	0.00
032	Less: Transfer to surplus on redemption	0.00	0.00
033	Less: Adjustments during the year/ period	0.00	0.00
034	**Sub-Total**	**0.00**	**0.00**
035	**Share Application money pending Allotment**	**0.00**	**0.00**
036	As per last financial statements	0.00	0.00
037	Add: Addition during the year	0.00	0.00
038	Less: Utilised for allotment during the year	0.00	0.00
039	Less: Adjustments during the year/ period	0.00	0.00
040	**SUB-TOTAL**	**0.00**	**0.00**
046	**FLY-ASH UTILISATION RESERVE FUND**	**0.00**	**0.00**
047	AS PER LAST FINANCIAL STATEMENTS	3,013,240,763.57	2,528,217,208.93
048	TRANSFERRED TO CC	0.00	0.00
049	ADD TRANSFER FROM REVENUE FROM OPERATIONS	268,947,589.74	485,023,554.64
050	ADD TRANSFER FROM OTHER INCOME	0.00	0.00
051	LESS: UTILISED DURING THE YEAR	0.00	0.00
052	TANGIBLE ASSETS	0.00	0.00
053	EMPLOYEE BENEFIT EXPENSES	0.00	0.00
054	GENERATION,ADMN. AND OTHER EXPENSES	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 22 TO THE FS-EQUITY-OTHER EQUITY

(Amount in ₹)

	As at	31.03.2023	31.03.2022
055	TAX EXPENSES	0.00	0.00
056	**SUB-TOTAL**	**3,282,158,353.31**	**2,912,240,763.57**
057	Self Insurance Reserve	0.00	0.00
058	As per last financial statements	0.00	0.00
059	Add: Addition during the year	0.00	0.00
060	Less: Utilised for allotment during the year	0.00	0.00
061	Less: Adjustments during the year/ period	0.00	0.00
062	SUB-TOTAL	0.00	0.00
063	**SPECIAL ALLOWANCE RESERVE FUND**	**0.00**	**0.00**
064	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
065	ADD: ADDITION DURING THE YEAR	0.00	0.00
066	LESS: UTLISED FOR ALLOTMENT DURING THE YEAR	0.00	0.00
067	LESS: ADJUSTMENTS DURING THE YEAR/ PERIOD	0.00	0.00
068	**SUB-TOTAL**	**0.00**	**0.00**
069	**CORPORATE SOCIAL RESPONSIBILITY (CSR) RESERVE**	**0.00**	**0.00**
070	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
071	ADD : TRANSFER FROM SURPLUS	0.00	0.00
072	LESS: WRITE BACK DURING THE YEAR	0.00	0.00
073	**SUB-TOTAL**	**0.00**	**0.00**
074	**GENERAL RESERVE**	**0.00**	**0.00**
075	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
076	ADD: TRANSFER FROM SURPLUS	0.00	0.00
077	LESS: TRANSFER TO SURPLUS	0.00	0.00
078	LESS: WRITE BACK DURING THE YEAR /PERIOD	0.00	0.00
079	LESS: ADJUSTMENTS DURING THE YEAR /PERIOD	0.00	0.00
080	**SUB-TOTAL**	**0.00**	**0.00**
081		**0.00**	**0.00**
082	**RETAINED EARNINGS**	**0.00**	**0.00**
083	AS PER LAST FINANCIAL STATEMENTS	131,436,451,477.51	131,689,624,458.38
084	ADD(LESS)-CHANGES IN ACCOUNTING POLICY / PRIOR PERIOD ERRORS	0.00	0.00
085	ADD(LESS)-PROFIT (LOSS) AFTER TAX FOR THE YEAR FROM STATEMENT OF PROFIT & LOSS	9,855,897,174.11	-253,172,981.77
087	ADD: WRITE BACK FROM BOND REDEMPTION RESERVE	0.00	0.00
088	ADD: WRITE BACK FROM CAPITAL RESERVE	0.00	0.00
089	ADD: WRITE BACK FROM FOREIGN PROJECT RESERVE	0.00	0.00
090	ADD: WRITE BACK FROM CSR RESERVE	0.00	0.00
091	ADD: WRITE BACK FROM GENERAL RESERVE	0.00	0.00
093	LESS: TRANSFER TO BONDS REDEMPTION RESERVE	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 22 TO THE FS-EQUITY-OTHER EQUITY

(Amount in ₹)

	As at	31.03.2023	31.03.2022
094	LESS: TRANSFER TO SPECIAL ALLOWANCE RESERVE FUND	0.00	0.00
095	LESS: TRANSFER TO FOREIGN PROJECT RESERVE	0.00	0.00
096	LESS:TRANSFER TO CAPITAL RESERVE	0.00	0.00
097	LESS:TRANSFER TO CSR RESERVE	0.00	0.00
098	LESS:TRANSFER TO GENERAL RESERVE	0.00	0.00
099	LESS:INTERIM DIVIDEND PAID	0.00	0.00
100	LESS:TAX ON INTERIM DIVIDEND PAID	0.00	0.00
101	LESS:FINAL DIVIDEND PAID	0.00	0.00
102	LESS:TAX ON FINAL DIVIDEND PAID	0.00	0.00
103	LESS: ISSUE OF BONUS DEBENTURE	0.00	0.00
104	LESS: TAX ON ISSUE OF BONUS DEBENTURE	0.00	0.00
105	**SUB-TOTAL**	**141,292,348,651.72**	**131,436,451,477.61**
110		0.00	0.00
111	**REMEASUREMENT OF DEFINED BENEFIT PLANS**	**0.00**	**0.00**
112	AS PER LAST FINANCIAL STATEMENTS	-285,119,740.93	-268,945,505.67
113	ADD/(LESS):- ACTUARIAL GAINS/LOSS THROUGH OCI	-35,989,442.76	-16,174,235.26
114	**SUB-TOTAL**	**-321,109,183.69**	**-285,119,740.93**
115		0.00	0.00
116	**FVTOCI Reserve**	**0.00**	**0.00**
117	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
118	ADD(LESS): NET GAIN/LOSS OF EQUITY INSTRUMENTS THROUGH OCI	0.00	0.00
119	**Sub-Total**	**0.00**	**0.00**
120		**0.00**	**0.00**
121	**Total Other equity**	**144,253,427,821.34**	**134,164,572,500.25**
122		0.00	0.00
123		0.00	0.00
124		0.00	0.00
125		0.00	0.00
126		0.00	0.00
127		0.00	0.00
128		0.00	0.00

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Reason: AOC (Commercial)
Location: NTPC Limited

(Amount in ₹)

As at	31.03.2023	31.03.2022

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PIYUSH <Parwan[illegible]ntpc.co.in>
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PIYUSH
Date: 2024[illegible] 17:14:29 IST
Reason: AOA (Commercial)
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 23 TO THE FS-NCL-BORROWINGS

(Amount in ₹)

	As at	31.03.2023	31.03.2022
001	**LONG TERM BORROWINGS**	**0.00**	**0.00**
002	**Bonds**	**0.00**	**0.00**
003	**Secured**	**0.00**	**0.00**
004	7.37 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2035 (Fifty Sixth Issue - Public Issue - Series 3A).	0.00	0.00
005	7.62 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2035 (Fifty Sixth Issue - Public Issue - Series 3 B).	0.00	0.00
006	8.61% Tax free secured non-cumulative non-convertible redeemable bonds of ₹ 10,00,000/- each redeemable at par in full on 4th March 2034 (Fifty First Issue C - Private Placement)	0.00	0.00
007	8.66% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2033 (Fiftieth Issue - Public Issue - Series 3A)	0.00	0.00
008	8.91% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2033 (Fiftieth Issue - Public Issue - Series 3B)	0.00	0.00
009	7.37% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 14th December 2031 (Sixty Sixth Issue - Private Placement)	0.00	0.00
010	7.49% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 7th November 2031 (Sixty Fourth Issue - Private Placement)	0.00	0.00
011	7.28 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2030 (Fifty Sixth Issue - Public Issue - Series	0.00	0.00

(Amount in ₹)

	As at	31.03.2023	31.03.2022
	2A)		
012	7.53 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2030 (Fifty Sixth Issue - Public Issue - Series 2 B).	0.00	0.00
013	7.32% Secured non-cumulative non-convertible redeemable taxable bonds of Rs 10,00,000/- each redeemable at par in full on 17 July 2029 (Sixty Ninth Issue - Private Placement)	0.00	0.00
014	8.63% Tax free secured non-cumulative non-convertible redeemable bonds of ₹ 10,00,000/- each redeemable at par in full on 4th March 2029 (Fifty First Issue B - Private Placement)	0.00	0.00
015	8.30% Secured non-cumulative non-convertible redeemable taxable bonds of Rs 10,00,000/- each redeemable at par in full on 15 January 2029 (Sixty Seventh Issue - Private Placement)	0.00	0.00
016	8.48% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2028 (Fiftieth Issue - Public Issue - Series 2A)	0.00	0.00
017	8.73% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2028 (Fiftieth Issue - Public Issue - Series 2B)	0.00	0.00
018	7.47% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 16th September 2026 (Sixty Third Issue - Private Placement)	0.00	0.00
019	7.58% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in	0.00	0.00

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Date: 2024 17:14:29 IST
Reason: AOC (commercial)
Location: NTPC Limited

(Amount in ₹)

	As at	31.03.2023	31.03.2022
	full on 23rd August 2026 (Sixty Second Issue - Private Placement)		
020	8.05% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 5th May 2026 (Sixtieth Issue - Private Placement)	0.00	0.00
021	8.19% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 15th December 2025 (Fifty Seventh Issue - Private Placement)	0.00	0.00
022	7.11 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2025 (Fifty Sixth Issue - Public Issue - Series 1A).	0.00	0.00
023	7.36 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2025 (Fifty Sixth Issue - Public Issue - Series 1 B).	0.00	0.00
024	7.15% Tax free secured non-cumulative non-convertible redeemable bonds - 2015 of Rs. 10,00,000/- each redeemable at par in full on 21st August 2025 (Fifty Fifth Issue - Private Placement)	0.00	0.00
025	9.17% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 22nd September 2024 (53rd issue - private placement)	0.00	0.00
026	9.34% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 24th March 2024 (Fifty Second Issue - private placement)	0.00	0.00
027	8.19% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 10,00,000/- each redeemable at	0.00	0.00

(Amount in ₹)

	As at	31.03.2023	31.03.2022
	par in full on 4th March 2024 (Fifty First Issue A - Private Placement)		
028	8.41% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2023 (Fiftieth Issue - Public Issue - Series 1A)	0.00	0.00
029	8.66% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2023 (Fiftieth Issue - Public Issue - Series 1B)	0.00	0.00
030	9.25% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each with five equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 11th year and in annual installments thereafter upto the end of 15th year respectively commencing from 4th May 2023 and ending on 4th May 2027 (Forty fourth issue - private placement)VII	0.00	0.00
031	8.48% Secured non-cumulative non-nonvertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 1st May 2023 (Seventeenth issue - private placement)I	0.00	0.00
032	8.80% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 4th April 2023 (Forty ninth issue -private placement	0.00	0.00
033	8.49% Secured non-cumulative non-convertible redeemable taxable fully paid up bonus debentures of Rs. 12.50 each redeemable at par in three annual installments of Rs. 2.50, Rs. 5.00 and Rs. 5.00 at the end of 8th year, 9th year and 10th year on 25th March 2023, 25th March 2024 and 25th March 2025 respectively (Fifty Fourth Issue -Bonus Debentures)X - (refer Note 5 a)	0.00	0.00
034	8.73% Secured non-cumulative	0.00	

(Amount in ₹)

	As at	31.03.2023	31.03.2022
	non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 07th March 2023 (Forty eighth issue - private placement)		
035	9.00% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each with five equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 11th year and in annual installments thereafter upto the end of 15th year respectively commencing from 25th January 2023 and ending on 25th January 2027 (Forty second issue- private placement)III	0.00	0.00
036	8.84% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 4th October 2022 (Forty seventh issue- private placement)VII	0.00	0.00
037	7.93% Secured non-cumulative non-convertible redeemable taxable bonds of ` 10,00,000/- each redeemable at par in full on 03 May 2022 (68th Issue - Private Placement)	0.00	0.00
038	6.72% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 24th November 2021 (Sixty Fifth Issue - Private Placement)	0.00	0.00
039	8.10% Secured Non-Cumulative Non-Convertible Redeemable Taxable Bonds of Rs. 30,00,000/- each redeemable at par in three equal separately transferable redeemable principal parts (STRPP) at the end of 5th year, 10th year & 15th year on 27th May 2021, 27th May 2026 and 27th May 2031 respectively (Sixty First Issue- Private Placement)	0.00	0.00
040	8.33% Secured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in full on 24th February 2021	0.00	0.00

(Amount in ₹)

	As at	31.03.2023	31.03.2022
	(Fifty Ninth Issue - Private Placement).		
042	8.93% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 19th January 2021 Thirty seventh issue - private placement)III	0.00	0.00
043	8.18% Secured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in full on 31st December 2020 (Fifty Eight Issue - Private Placement).	0.00	0.00
044	8.73 % Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 31st March 2020 (Thirty third issue- private placement)III	0.00	0.00
045	8.78 % Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 9th March 2020 (Thirty first issue- private placement)III	0.00	0.00
046	11.25% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in five equal annual installments commencing from 6th Nov 2019 and ending on 6th Nov 2023 (Twenty seventh issue - private placement)III	0.00	0.00
047	7.89% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 5th May 2019 (Thirtieth issue - private placement)III	0.00	0.00
048	8.65% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 4th February 2019 (Twenty ninth issue - private placement)III	0.00	0.00
049	7.50% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full	0.00	0.00

(Amount in ₹)

	As of	31.03.2023	31.03.2022
	on 12th January 2019 (Nineteenth issue - private placement)ii		
050	11% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 21st November 2018 (Twenty eighth issue - private placement)iii	0.00	0.00
051	9.3473% Secured non-cumulative non-convertible redeemable taxable bonds of ₹15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 20th July 2018 and ending on 20th July 2032 (Forty sixth issue - private placement)vii	0.00	0.00
052	9.4376% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 16th May 2018 and ending on 16th May 2032 (Forty fifth issue - private placement)vii	0.00	0.00
053	8.00% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 10th April 2018 (Sixteenth issue -private placement)i	0.00	0.00
054	9.2573% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 2nd March 2018 and ending on 2nd March 2032 (Forty third issue - private placement)iii	0.00	0.00
055	9.6713% Secured non-cumulative non-convertible redeemable taxable bonds	0.00	[illegible]

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Location: NTPC Limited

	As at	31.03.2023	31.03.2022
	of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 23rd December 2017 and ending on 23rd December 2031 (Forty first issue - private placement)III		
066	9.558% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 29th July 2017 and ending on 29th July 2031(Fourtieth issue-private placement)III	0.00	0.00
067	9.3896% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 9th June 2017 and ending on 9th June 2031(Thirty ninth issue-private placement)III	0.00	0.00
068	9.17% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 22nd March 2017 and ending on 22nd March 2031(Thirty eighth issue-private placement)III	0.00	0.00
069	9.8086% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th	0.00	0.00

(Amount in ₹)

	As at	31.03.2023	31.03.2022
	year and in annual installments thereafter upto the end of 20th year respectively commencing from 15th December 2016 and ending on 15th December 2030 (Thirty sixth issue - private placement)III		
060	8.785% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 15th September 2016 and ending on 15th September 2030 (Thirty fifth issue - private placement)III	0.00	0.00
061	8.71% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 10th June 2016 and ending on 10th June 2030 (Thirty fourth issue - private placement)III	0.00	0.00
062	8.8493% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 25th March 2016 and ending on 25th March 2030 (Thirty second issue - private placement)III	0.00	0.00
063	9.37% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 70,00,000/- each with fourteen separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 4th June 2012 and ending on 4th December 2018 (Twenty fifth issue -	0.00	0.00

(Amount in ₹)

	As at	31.03.2023	31.03.2022
	private placement)III		
065	9.06% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 70,00,000/- each with fourteen separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 4th June 2012 and ending on 4th December 2018 (Twenty sixth issue - private placement)III	0.00	0.00
066	8.6077% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 9th September 2011 and ending on 9th March 2021 (Twenty fourth issue - private placement)IV	0.00	0.00
067	8.3796% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 5th August 2011 and ending on 5th February 2021 (Twenty third issue - private placement)IV	0.00	0.00
068	8.1771% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 2nd July 2011 and ending on 2nd January 2021 (Twenty second issue - private placement)IV	0.00	0.00
069	7.7125% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 2nd August 2010 and ending on 2nd February 2020 (Twenty first issue - private placement)IV	0.00	0.00
070	7.552% Secured non-cumulative non-convertible redeemable taxable bonds	0.00	0.00

(Amount in ₹)

	As at	31.03.2023	31.03.2022
	of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 23rd September 2009 and ending on 23rd March 2019 (Twentieth issue - private placement)VI		
071	9.55% Secured non-cumulative non-convertible taxable redeemable bonds of ₹ 10,00,000/- each with ten equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of the 6th year and in annual installments thereafter upto the end of 15th year respectively from 30th April 2002 (Thirteenth issue - Part B - private placement)VIII	0.00	0.00
072	9.55% Secured non-cumulative non-convertible taxable redeemable bonds of ₹ 10,00,000/- each redeemable at par in ten equal annual installments commencing from the end of 6th year and upto the end of 15th year respectively from 18th April 2002 (Thirteenth issue -Part A - private placement)VIII	0.00	0.00
075		0.00	0.00
076		0.00	0.00
077	**Sub Total**	**0.00**	**0.00**
078	**Unsecured**	**0.00**	**0.00**
079	6.55% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 17 April 2023 (Seventieth Issue - Private Placement)	0.00	0.00
080	6.29% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 11 April 2031 (Seventy First Issue - Private Placement)	0.00	0.00
081	5.45% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 15 October 2025 (Seventy Second Issue - Private Placement)	0.00	0.00
082	6.41% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in	0.00	

(Amount in ₹)

	As at	31.03.2023	31.03.2022
	full on 27 January 2031 (Seventy Third Issue - Private Placement)		
083	6.87% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 21 April 2036 (Seventy Fourth Issue - Private Placement)	0.00	0.00
084	6.69% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 13 September 2031 (Seventy Fifth Issue - Private Placement)	0.00	0.00
085	6.74% Unsecured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in full on 14 April 2032 (Seventy Sixth Issue - Private Placement)	0.00	0.00
086	5.78% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 29 April 2024 (Seventy Seventh Issue - Private Placement)	0.00	0.00
087	7.44% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 25 August 2032 (Seventy Eighth Issue - Private Placement)	0.00	0.00
088	7.44% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 15 April 2033 (Seventy Ninth Issue - Private Placement)	0.00	0.00
089		0.00	0.00
090	**Sub-total**	**0.00**	**0.00**
091	**Total**	**0.00**	**0.00**
092	**Foreign Currency Notes-Unsecured**	**0.00**	**0.00**
093	4.50% Fixed Rate Notes Due for repayment on 19th March 2028	0.00	0.00
094	2.75% Fixed rate notes due for repayment on 1st February 2027	0.00	0.00
096	4.25 % Fixed rate notes due for repayment on 26th February 2026	0.00	0.00
096	4.375% Fixed Rate Note due for repayment on 26th November 2024	0.00	0.00
097	4.75 % Fixed Rate Notes due for repayment on 3rd Oct 2022	0.00	0.00
098	7.25 % Fixed green global INR denominated bonds due on 3 May 2022	0.00	0.00
099	7.375 % Fixed green global INR denominated bonds due on 10 August 2021	0.00	[illegible]
100	5.625% Fixed Rate Notes due for repayment on	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 23 TO THE FS-NCL-BORROWINGS

(Amount in ₹)

	As at	31.03.2023	31.03.2022
	14th July 2021		
101	3.75 % Fixed rate notes due for repayment on 03 April 2024	0.00	0.00
102		0.00	0.00
103		0.00	0.00
104		0.00	0.00
105	**Sub Total**	**0.00**	**0.00**
106	**Term Loans**	**0.00**	**0.00**
107	**From Banks**	**0.00**	**0.00**
108	**Secured**	**0.00**	**0.00**
109	Rupee Loans	0.00	0.00
110	**Unsecured**	**0.00**	**0.00**
111	Foreign Currency Loans	0.00	0.00
112	Rupee Loans	0.00	0.00
113	**From Others**	**0.00**	**0.00**
114	**Secured**	**0.00**	**0.00**
115	Rupee Loans	0.00	0.00
116	Foreign Currency loans (guaranteed by GOI)	0.00	0.00
117	**Unsecured**	**0.00**	**0.00**
118	Foreign Currency loans (guaranteed by GOI)	0.00	0.00
119	Other Foreign currency loans	0.00	0.00
121	Rupee Loans	0.00	0.00
122	**Deposits**	**0.00**	**0.00**
123	**Unsecured**	**0.00**	**0.00**
124	Fixed Deposits	0.00	0.00
125	**Others**	**0.00**	**0.00**
126	**Unsecured**	**0.00**	**0.00**
127	Bonds Application Money Pending Allotment	0.00	0.00
128	**Sub-total**	**0.00**	**0.00**
129	**Total**	**0.00**	**0.00**
130	Less:- Interst accrued but not due on secured borrowings	0.00	0.00
131	Less:- Interst accrued but not due on unsecured borrowings	0.00	0.00
132	Less:- Current maturities of long term borrowings	0.00	0.00
133	Bonds-Secured	0.00	0.00
134	Fixed Rate Notes	0.00	0.00
136	Foreign currency loans from Banks- unsecured	0.00	0.00
137	Rupee loans from banks- Secured	0.00	0.00
138	Rupee loans from banks- unsecured	0.00	0.00
139	Rupee Term loan from Others - Secured	0.00	0.00
140	Foreign currency loans from others- unsecured (Guaranteed by GOI)	0.00	0.00
141	Other foreign currency loans from others- unsecured	0.00	0.00
142	Rupee loans from others- unsecured	0.00	0.00
143		0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 23 TO THE FS-NCL-BORROWINGS

(Amount in ₹)

	As at	31.03.2023	31.03.2022
144		0.00	0.00
145		0.00	0.00
146		0.00	0.00
147		0.00	0.00
148		0.00	0.00
149		0.00	0.00
150		0.00	0.00
151		0.00	0.00
201	**Total**	**0.00**	**0.00**

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Reason: AGM (Commercial)
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 23A TO THE FS-NCL-LEASE BORROWINGS

(Amount in ₹)

	As at	31.03.2023	31.03.2022
001	**Non-current financial liabilities - Lease liabilities**	**0.00**	**0.00**
002	**Lease liabilities**	**0.00**	**0.00**
003	Long term maturities of Finance Lease Liabilities (Secured) IX	0.00	0.00
004	Long term maturities of Finance Lease Liabilites (Unsecured) X	0.00	0.00
005	**Sub-Total**	**0.00**	**0.00**
006	**Less: current maturities of lease liabilities**	**0.00**	**0.00**
007	Finance Lease obligations - secured	0.00	0.00
008	Finance Lease obligations - unsecured	0.00	0.00
009	**Sub-Total**	**0.00**	**0.00**
011	**Total**	**0.00**	**0.00**

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Location: NTPC
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NATIONAL CAPITAL POWER STATION

NOTE NO. 24 TO THE FS-NCL-TRADE PAYABLES

(Amount in ₹)

	As at	31.03.2023	31.03.2022
001	**TRADE PAYABLES(NON CURRENT)**	**0.00**	**0.00**
002	**For Goods and Services**	**0.00**	**0.00**
003	- Micro & Small Enterprises	1,864,271.01	6,517,044.67
004	- Others	7,965,928.80	5,038,712.06
005		0.00	0.00
007	**Total**	**9,830,199.81**	**11,555,756.73**

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Reason: AOA Commercial
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 25 TO THE FS-NCL-OTHER FINANCIAL LIABILITIES

(Amount in ₹)

	As at	31.03.2023	31.03.2022
001	**OTHER FINANCIAL LIABILITIES (NON-CURRENT)**	**0.00**	**0.00**
002	Payable for Capital Expenditure	0.00	0.00
003	- Micro & Small Enterprises	54,861.03	335,444.50
004	- Others	5,458,529.97	1,236,743.49
005	Others	0.00	0.00
006	Deposits from contractors and others	0.00	0.00
007		0.00	0.00
008		0.00	0.00
010	**Total**	**5,553,390.00**	**1,572,187.99**

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 26 TO THE FS-NCL-PROVISIONS (Amount in ₹)

	As at	31.03.2023	31.03.2022
001	**LONG TERM PROVISIONS**	**0.00**	**0.00**
002	***Provision for Employee Benefits***	**0.00**	**0.00**
003	Opening Balance	0.00	0.00
004	Additions/ (adjustments) during the year	0.00	0.00
005	**Closing Balance**	**0.00**	**0.00**
006		0.00	0.00
007	**Others**	**0.00**	**0.00**
008	**i) Mine Closure Provision**	**0.00**	**0.00**
009	Opening Balance	0.00	0.00
010	Additions during the year	0.00	0.00
011	Amounts adjusted during the year	0.00	0.00
012	Amounts reversed during the year	0.00	0.00
013	**Closing Balance**	**0.00**	**0.00**
014		0.00	0.00
015	**ii) Stripping Activity Adjustments**	**0.00**	**0.00**
016	Opening Balance	0.00	0.00
017	Additions during the year	0.00	0.00
018	Amounts adjusted during the year	0.00	0.00
019	Amounts reversed during the year	0.00	0.00
020	**Closing Balance**	**0.00**	**0.00**
021		0.00	0.00
024		0.00	0.00
025	**TOTAL**	**0.00**	**0.00**

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Date: 2024.[illegible] 17:14:29 IST
Reason: AOC (Commercial)
Location: NTPC Limited

NOTE NO. 27 TO THE FS-NCL-DEFERRED TAX LIABILITIES (NET)

[Amount in ₹]

	As at	Open Balance on 01.04.2022	Additions	Closing Balance on 31.03.2023
001	**DEFERRED TAX LIABILITIES (NET)**			
002	Difference of book depreciation and tax depreciation	0.00	0.00	0.00
003	Less: Deferred tax assets			
004	Provisions & Other disallowances for tax purposes	0.00	0.00	0.00
005	Unabsorbed Depreciation	0.00	0.00	0.00
006	Disallowances u/s 43B of the Income Tax Act, 1961	0.00	0.00	0.00
007	Others	0.00	0.00	0.00
008	Opening Balance	0.00	0.00	0.00
009	Additions during the year	0.00	0.00	0.00
010	Amounts adjusted during the year	0.00	0.00	0.00
011	Amounts reversed during the year	0.00	0.00	0.00
012	Closing Balance	0.00	0.00	0.00
013	MAT credit entitlement	0.00	0.00	0.00
014	**Total**	**0.00**	**0.00**	**0.00**
016		0.00	0.00	0.00
017	**Total**	**0.00**	**0.00**	**0.00**
018	Breakup of deferred tax assets	0.00	0.00	0.00
019	Provision	0.00	0.00	0.00
020	Statutory dues	0.00	0.00	0.00
021	Leave encashment	0.00	0.00	0.00
022	Others	0.00	0.00	0.00
023		0.00	0.00	0.00
024		0.00	0.00	0.00

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Reason: AOC (Consolidated)
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 28 TO THE FS-NCL-OTHER NON-CURRENT LIABILITIES (Amount in ₹)

	As at	31.03.2023	31.03.2022
001	Other Non current Liabilities	0.00	0.00
002	Advances from customers and others	0.00	0.00
003	Deposits from contractors and others	0.00	0.00
004	Grants	0.00	0.00
006		0.00	0.00
007	**TOTAL**	**0.00**	**0.00**

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Reason: AGM
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Page 1 of 1

NATIONAL CAPITAL POWER STATION

NOTE NO. 29 TO THE FS-CL-BORROWINGS

(Amount in ₹)

	As at	31.03.2023	31.03.2022
001	**Short Term Borrowings**	**0.00**	**0.00**
002	**Loans repayable on demand**	**0.00**	**0.00**
003	**From Banks**	**0.00**	**0.00**
004	**Secured**	**0.00**	**0.00**
005	Cash Credit	0.00	0.00
006	**Unsecured**	**0.00**	**0.00**
007	Cash Credit	0.00	0.00
008	**Other loans-unsecured**	**0.00**	**0.00**
009	Commercial Papers	0.00	0.00
010	Less: Unamortised discount on Commercial Papers	0.00	0.00
011	**Sub-Total**	**0.00**	**0.00**
012	**Current maturity of long term borrowings**	**0.00**	**0.00**
013	Bonds-Secured	0.00	0.00
014	Foreign Currency Fixed Rate Notes	0.00	0.00
015	**From Banks**	**0.00**	**0.00**
016	**Secured**	**0.00**	**0.00**
017	Rupee Term Loan	0.00	0.00
018	Foreign currency loans	0.00	0.00
019	**Unsecured**	**0.00**	**0.00**
020	Foreign currency loans	0.00	0.00
021	Rupee term loans	0.00	0.00
022	**From Others**	**0.00**	**0.00**
023	**Secured**	**0.00**	**0.00**
024	Rupee Term Loan	0.00	0.00
025	**Unsecured**	**0.00**	**0.00**
026	Foreign currency loans (Guaranteed by Government of India)	0.00	0.00
027	Other foreign currency loans	0.00	0.00
028	Rupee term loans	0.00	0.00
029	Fixed deposits	0.00	0.00
031	Sub Total	0.00	0.00
032		0.00	0.00
034	**TOTAL**	**0.00**	**0.00**

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 29A TO THE FS-CL-LEASE BORROWINGS

(Amount in ₹)

	As at	31.03.2023	31.03.2022
001	**Current financial liabilities - Lease liabilities**	**0.00**	**0.00**
002	Current maturity of finance lease obligations (secured)	0.00	0.00
003	Current maturity of finance lease obligations (unsecured)	0.00	0.00
005	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 30 TO THE FS-CL-TRADE PAYABLES

(Amount in ₹)

	As at	31.03.2023	31.03.2022
001	**TRADE PAYABLES**	**0.00**	**0.00**
002	For Goods and Services	0.00	0.00
003	- Micro & Small Enterprises	63,913,228.63	106,761,225.15
004	- Others	10,582,654,953.77	4,300,214,341.89
005		0.00	0.00
007	**Total**	**10,646,568,182.40**	**4,406,975,567.04**
008		0.00	0.00
172	**Trade payable**	**0.00**	**0.00**
173	**MSME**	**0.00**	**0.00**
174	Unbilled	30,131,542.63	52,074,790.32
175	Not due	23,414,186.00	34,714,305.83
176	**Due**	**10,367,500.00**	**9,972,129.00**
177	Disputed	0.00	0.00
178	Undisputed	10,367,500.00	9,972,129.00
179		0.00	0.00
180	**Sub-total (A)**	**63,913,228.63**	**106,761,225.15**
181		0.00	0.00
182	**Others**	**0.00**	**0.00**
183	Unbilled	1,707,843,631.00	273,412,548.53
184	Not due	3,389,689,494.00	1,224,050,402.33
185	**Due**	**5,485,122,429.00**	**2,802,751,391.03**
186	Disputed	0.00	0.00
187	Undisputed	5,485,122,429.00	2,802,751,391.03
188		0.00	0.00
189	**Sub-total (B)**	**10,582,654,954.00**	**4,300,214,341.89**
190		0.00	0.00
191	**Total**	**10,646,568,182.63**	**4,406,975,567.04**
192		0.00	0.00
193	**Ageing**	**0.00**	**0.00**
194	**MSME**	**0.00**	**0.00**
195	**Disputed**	**0.00**	**0.00**
196	Less than 1 year	0.00	0.00
197	1-2 years	0.00	0.00
198	2-3 years	0.00	0.00
199	More than 3 years	0.00	0.00
200	**Sub Total (i)**	**0.00**	**0.00**
201		0.00	0.00
202	**Undisputed**	**0.00**	**0.00**
203	Less than 1 year	10,367,500.00	9,972,129.00
204	1-2 years	0.00	0.00
205	2-3 years	0.00	0.00
206	More than 3 years	0.00	0.00
207	**Sub Total (ii)**	**10,367,500.00**	**9,972,129.00**
208		0.00	0.00
209	**Total MSME (iii)**	**10,367,500.00**	**9,972,129.00**
210		0.00	

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NATIONAL CAPITAL POWER STATION

NOTE NO. 30 TO THE FS-CL-TRADE PAYABLES

(Amount in ₹)

	As at	31.03.2023	31.03.2022
211	**Others**	**0.00**	**0.00**
212	**Disputed**	**0.00**	**0.00**
213	Less than 1 year	0.00	0.00
214	1-2 years	0.00	0.00
215	2-3 years	0.00	0.00
216	More than 3 years	0.00	0.00
217	**Sub Total (IV)**	**0.00**	**0.00**
218		0.00	0.00
219	**Undisputed**	**0.00**	**0.00**
220	Less than 1 year	4,502,056,383.00	2,764,504,581.82
221	1-2 years	961,892,773.90	25,129,745.26
222	2-3 years	8,581,044.78	2,078,865.70
223	More than 3 years	12,598,227.61	11,038,197.83
224	**Sub Total (V)**	**5,485,122,429.29**	**2,802,751,391.03**
225		0.00	0.00
226	**Total Others (VI)**	**5,485,122,429.29**	**2,802,751,391.03**

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Reason: AOA Commercial
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NATIONAL CAPITAL POWER STATION

NOTE NO. 31 TO THE FS-CL-OTHER FINANCIAL LIABILITIES

[Amount in ₹]

	As at	31.03.2023	31.03.2022
001	**OTHER FINANCIAL LIABILITIES (CURRENT)**	**0.00**	**0.00**
020	Interest accrued but not due on Unsecured Short Term Borrowing	0.00	0.00
021	Interest accrued but not due on secured borrowings	0.00	0.00
022	Interest accrued but not due on unsecured borrowings	0.00	0.00
023	Unpaid Dividends*	0.00	0.00
024	Unpaid matured deposits and interest accrued thereon*	0.00	0.00
025	Unpaid matured bonds and interest accrued thereon*	0.00	0.00
026	Unpaid bond refund money-Tax free bonds *	0.00	0.00
027	Book Overdraft	0.00	0.00
028	Payable to Customers	0.00	0.00
029	Liability under forward exchange contact	0.00	0.00
030	Hedging cost payable to beneficiaries	0.00	0.00
031	Derivative MTM Liability	0.00	0.00
032	**Payable for Capital Expenditure**	**0.00**	**0.00**
033	- Micro & Small Enterprises	8,563,296.60	64,309,256.00
034	- Others	1,994,622,701.29	2,288,362,902.79
035	**Others Payables**	**0.00**	**0.00**
036	Deposits from contractors and others	151,404,460.55	139,641,027.00
037	Gratuity Obligations	0.00	0.00
038	Payable to employees	26,739,532.19	12,821,046.87
039	Payable to holding company	0.00	0.00
040	Retention on A/c BG encashment (Solar)	0.00	0.00
041	Payable to Solar Payment Security Account	0.00	0.00
042	Others **	233,531,818.82	119,987,642.39
043	Unspent CSR balance on ongoing Approved CSR projects	0.00	0.00
045		0.00	0.00
046		0.00	0.00
047	**Total**	**2,414,861,809.26**	**2,625,131,874.85**
048	* Represents the amounts which have not been claimed by the investor/holders of the bonds/fixed deposits. Out of the above, no amount is due for payment to Investor Education and Protection Fund.	0.00	0.00
049	** Include Payable to Hospital and other payable.	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 32 TO THE FS-CL-OTHER CURRENT LIABILITIES (Amount in ₹)

	As at	31.03.2023	31.03.2022
001	**OTHER CURRENT LIABILITIES**	**0.00**	**0.00**
002	Advances from customers and others	233,392,873.97	28,558,930.14
003	Deferred discount on forward exchange contact	0.00	0.00
004	Tax deducted at source and other statutory dues	134,446,589.02	106,326,482.95
005	Deposits from contractors and others	0.00	0.00
006	Government grants	0.00	0.00
007	Others	0.00	0.00
009		0.00	0.00
010		0.00	0.00
011	**Total**	**367,839,462.99**	**134,885,413.09**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 33 TO THE FS-CL-PROVISIONS

(Amount in ₹)

	As at	31.03.2023	31.03.2022
001	**SHORT TERM PROVISIONS**	**0.00**	**0.00**
002	**Provision for Employee Benefits**	**0.00**	**0.00**
003	Opening balance	0.00	0.00
004	Additions/ (adjustments) during the year	0.00	0.00
005	**Closing Balance**	**0.00**	**0.00**
028	**Provisions for Obligations Incidental to Land Acquisition**	**0.00**	**0.00**
029	Opening balance	0.00	0.00
030	Additions during the year	0.00	0.00
031	Amounts paid during the year	0.00	0.00
032	Amounts reversed during the year	0.00	0.00
033	**Closing Balance**	**0.00**	**0.00**
035	**Provision for Tariff Adjustment**	**0.00**	**0.00**
036	Opening balance	0.00	0.00
037	Additions during the year	0.00	0.00
038	Amounts adjusted during the year	0.00	0.00
039	Amounts reversed during the year	0.00	0.00
040	**Closing Balance**	**0.00**	**0.00**
042	**Provision for shortage in Fixed Assets Pending Investigation & Others**	**0.00**	**0.00**
043	Opening balance	0.00	180,517.29
044	Additions during the year	6,310,836.31	0.00
045	Amounts adjusted during the year	0.00	0.00
046	Amounts reversed during the year	0.00	180,517.29
047	**Closing Balance**	**6,310,836.31**	**0.00**
048	**Provision for Arbitration**	**0.00**	**0.00**
049	Opening balance	37,030,944.78	24,958,351.00
050	Additions during the year	13,448,203.00	12,072,593.78
051	Amounts used during the year	0.00	0.00
052	Amounts reversed during the year	0.00	0.00
053	**Closing Balance**	**50,479,147.78**	**37,030,944.78**
054	**Others**	**0.00**	**0.00**
055	Opening balance	0.00	0.00
056	Additions during the year	0.00	0.00
057	Amounts used during the year	0.00	0.00
058	Amounts reversed during the year	0.00	0.00
059	**Closing Balance**	**0.00**	**0.00**
102		0.00	0.00
104	**Total**	**56,789,984.09**	**37,030,944.78**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 34 TO THE FS-CL-CURRENT TAX LIABILITIES (NET)

(Amount in ₹)

	As at	31.03.2023	31.03.2022
001	**Current liabilities - current tax liabilities (net)**	**0.00**	**0.00**
002	Opening balance	0.00	3.00
003	Additions during the year	0.00	0.00
004	Amounts adjusted during the year	0.00	0.00
005	Less: Set off against taxes paid	0.00	0.00
007		0.00	0.00
008	**Closing Balance**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 35 TO THE FS--DEFERRED REVENUE

(Amount in ₹)

	As at	31.03.2023	31.03.2022
001	**Deferred Revenue**	**0.00**	**0.00**
002	On account of advance against depreciation	0.00	0.00
003	On account of income from foreign currency fluctuation	91,930,000.00	111,259,000.00
004	Government grants	0.00	0.00
007		0.00	0.00
008		0.00	0.00
009	**TOTAL**	**91,930,000.00**	**111,259,000.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 36 TO THE FS--REGULATORY DEFERRAL ACCOUNT CREDIT BALANCES

(Amount in ₹)

	As at	31.03.2023	31.03.2022
001	Regulatory deferral account credit balances	0.00	0.00
002	Exchange Differences	0.00	0.00
003		0.00	0.00
005	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 37 TO THE FS--REVENUE FROM OPERATIONS

(Amount in ₹)

	For the Year ended	31.03.2023	31.03.2022
001	**REVENUE FROM OPERATIONS**	**0.00**	**0.00**
002	**Sales**	**0.00**	**0.00**
003	Energy Sales (including Electricity Duty)	68,854,625,569.59	27,348,630,092.12
004	Less : Advance against depreciation deferred (net)	0.00	0.00
005	Add: Revenue recognized out of advance against depreciation	0.00	0.00
006	Add : Exchange fluctuation receivable from customers	0.00	0.00
007	Sale of energy through trading	0.00	0.00
008	Commission (NVVN)	0.00	0.00
009	**Sub total**	**68,854,625,569.59**	**27,348,630,092.12**
010	Less: Rebate to customers	915,723,122.46	230,389,972.42
011	**Energy Sales (Total)**	**67,938,902,447.13**	**27,118,240,119.70**
012	Consultancy, project management and supervision fees	0.00	0.00
013	Lease rentals on assets on Operating lease	0.00	0.00
014	Sale of Captive Coal	0.00	0.00
015	Intra Company Elimination	0.00	0.00
017	**Sub-total**	**0.00**	**0.00**
018	**Total - Sales**	**67,938,902,447.13**	**27,118,240,119.70**
019	Sale of fly ash/ash products	1,154,061,648.88	485,023,554.64
020	Less: Transferred to fly ash utilisation reserve fund	-1,154,061,648.88	-485,023,554.64
021	**Sub-total**	**0.00**	**0.00**
022	**Other Operating Income**	**0.00**	**0.00**
023	Interest from customers	249,104,452.00	2,605,600.00
024	Energy Internally Consumed *	89,594,340.00	62,190,837.49
025	Interest Income on Assets under finance lease	0.00	0.00
026	Recognized from deferred revenue - government grant	0.00	0.00
027	Provision written back- Tariff Adjustment	0.00	0.00
028	Income form Trading of ESCerts	15,914,394.01	0.00
029	Income from E-Mobility Business & others	0.00	0.00
030	Others	0.00	0.00
032		0.00	0.00
033		0.00	0.00
034	**Total**	**68,293,515,633.14**	**27,183,036,557.19**
040	* Valued at variable cost of generation and corresponding amount included in power charges (Note No. 42)	0.00	0.00
041	Excise duty on sale of flyash,cenospere & ash products	0.00	0.00
042	Energy sales of principal nature (NVVN)	0.00	0.00
043	Energy sales of agency nature (NVVN)	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 38 TO THE FS-OTHER INCOME [Amount in ₹]

	For the Year ended	31.03.2023	31.03.2022
001	**OTHER INCOME**	**0.00**	**0.00**
002	**Interest from**	**0.00**	**0.00**
004	**Financial assets at amortised cost**	**0.00**	**0.00**
005	Government Securities (8.5% Tax Free Bonds issued by the State Governments)	0.00	0.00
006	Other Bonds	0.00	0.00
007	Non current Trade Receivable	0.00	0.00
008	Interest from Government of India Securties-Non-Trade	0.00	0.00
009	Less: Amortisation of premium	0.00	0.00
010	**Sub Total**	**0.00**	**0.00**
011	Interest from others	0.00	0.00
012	Loan to State Government in settlement of dues from customers	0.00	0.00
013	Loan to Subsidiary Companies	0.00	0.00
014	Loan to Employees	27,486,400.01	27,525,138.08
015	Deposit with banks	0.00	0.00
016	Foreign Banks	0.00	0.00
017	Interest from Contractors	13,411,733.00	0.00
018	Interest from Income Tax Refunds	0.00	0.00
019	Less : Refundable to Customers	0.00	0.00
020	**Sub Total**	**0.00**	**0.00**
021	Deposits with banks-flyash utilisation reserve fund	0.00	0.00
022	Less: transferred to flyash utilisation reserve fund	0.00	0.00
023	**Sub Total**	**0.00**	**0.00**
024	Deposits with banks- DDUGJY funds	0.00	0.00
025	Interest from Contractors- DDUGJY funds	0.00	0.00
026	Transfer to DDUGJY-Advance from customers	0.00	0.00
027	Sub-total	0.00	0.00
030	Others	-2,867,336.00	2,867,336.00
031	Other investments in Joint venture companies	0.00	0.00
032	**Dividend from**	**0.00**	**0.00**
033	**Longterm investments in**	**0.00**	**0.00**
034	Subsidiaries	0.00	0.00
035	Joint Ventures	0.00	0.00
036	Equity Instruments	0.00	0.00
037	**Current Investments in**	**0.00**	**0.00**
038	Mutual Funds measured at fairvalue through profit or loss	0.00	0.00
039	Current investments in mutual funds-flyash utilisation reserve fund	0.00	0.00
040	Less: transferred to flyash utilisation reserve fund	0.00	0.00
041	Lease Rent & Ash Brick Plant	0.00	0.00
042	Less: transferred to flyash utilisation reserve fund	0.00	0.00
043	Other non-operating income	0.00	[illegible]
044	Profit on disposal of PPE	25,706.64	[illegible]
045	Profit on redemption of GOI securities	0.00	[illegible]

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NATIONAL CAPITAL POWER STATION

NOTE NO. 38 TO THE FS- OTHER INCOME (Amount in ₹)

	For the Year ended	31.03.2023	31.03.2022
046	Net gain on sale of investments	0.00	0.00
047	Surcharge received from customers	43,301,453.00	88,383,792.00
048	Hire charges for equipment	0.00	0.00
049	Gain on option contract / Discount on F.ExchContract	0.00	0.00
050	Provision written back-others	4,782,386.66	32,722,035.25
051	Fair value gains/(losses) on investments in mutual funds at fair value through profit or loss	0.00	0.00
052	Interest from Solar payment security account	0.00	0.00
053	Less : Transferred to SPSA fund	0.00	0.00
054	Interest on "Retention on A/c BG encashment (Solar)"	0.00	0.00
055	Less : Transfered to "Retention on A/c BG encashment (Solar)"	0.00	0.00
056	Miscellaneous Income	245,348,294.28	73,065,559.53
057	**Total**	**331,488,637.79**	**224,618,017.11**
058	Less:Transferred to Development of Coal Mines- Note 43A	0.00	0.00
059	Less:Transferred to Expenditure during Construction period (net)- Note 43	19,812.00	95,161.00
060	Less: Others	0.00	0.00
061	Less:Transferred to payable to Govt. of Jharkhand	0.00	0.00
063		0.00	0.00
064		0.00	0.00
065	**Total**	**331,468,825.79**	**224,522,856.11**
066		0.00	0.00
067	**Details of Miscellaneous Income**	**0.00**	**0.00**
068	Vehicle Hire Charges	135,569.60	189,328.80
069	Sale of by products & residuals	0.00	0.00
070	Township recoveries(ext. Hospital Recoveries)	215,620,360.73	31,097,658.04
071	Depreciation written back	0.00	0.00
072	Sale of Scrap	99,543,580.24	18,729,806.92
073	Receipt under loss of profit policy	0.00	0.00
074	Receipts under MBO/Five Policy	1,275,567.00	13,196,889.00
075	Management development programme	395,200.00	0.00
076	Management Fee - Misc (NVVN)	0.00	0.00
077	Others	-71,621,963.29	9,852,076.77
078		0.00	0.00
079	**Total (Miscellaneous Income)**	**245,348,294.28**	**73,065,559.53**
080		0.00	0.00
081	**Details of Provision written back others**	**0.00**	**0.00**
082	Doubtful debts	0.00	0.00
083	Doubtful Loans, Advances and Claims	0.00	0.00
084	Doubtful Construction Advances	0.00	0.00
085	Shortage in Construction Stores	0.00	0.00
086	Shortage in Stores	3,448,784.00	[illegible]
087	Obsolescence in Stores	1,333,602.66	[illegible]

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NATIONAL CAPITAL POWER STATION

NOTE NO. 38 TO THE FS--OTHER INCOME

(Amount in ₹)

	For the Year ended	31.03.2023	31.03.2022
088	Unserviceable capital works	0.00	3.00
089	Other Obligation including Arbitration	0.00	3.00
090	Shortage in Fixed Assets	0.00	180,517.25
091	Diminution in value of Investment	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 38A TO THE FS--FUEL COST (Amount in ₹)

	For the Year ended	31.03.2023	31.03.2022
001	**FUEL COST**	**0.00**	**0.00**
002	Coal	0.00	0.00
003	Captive	0.00	0.00
004	Other than captive	49,712,301,666.05	18,476,872,765.23
005	Gas	0.00	0.00
006	Naptha	0.00	0.00
007	Oil	342,310,189.65	253,410,680.21
008	Biomass Pellets & Others	460,717,230.46	43,901,268.12
009		0.00	0.00
010	**Total**	**50,515,329,086.16**	**18,774,184,713.56**
011		0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 39 TO THE FS-EMPLOYEE BENEFITS EXPENSE

(Amount in ₹)

	For the Year ended	31.03.2023	31.03.2022
001	**EMPLOYEE BENEFITS EXPENSE**	**0.00**	**0.00**
002	Salaries and wages	2,159,990,461.32	1,959,598,058.45
003	Contribution to provident and other funds	298,178,218.29	273,181,245.57
004	Unwinding of deferred payroll expense	16,638,680.47	16,281,342.99
005	Staff welfare expenses	326,602,754.71	316,442,347.74
006	Less : Expenses transferred to Consultancy group	0.00	0.00
007		0.00	0.00
008	**Sub Total**	**2,801,348,114.79**	**2,565,469,994.75**
009	Less: Employee benefits expense allocated to fuel inventory	131,331,307.66	108,758,781.16
010	Less: Transferred/Allocated to development of coal mines	0.00	0.00
011	Less: Others	0.00	0.00
012	Less: Transferred to fly ash utilisation reserve fund	0.00	0.00
013	Less: Transferred to CSR Expenses	0.00	0.00
014	Reimbursements for employees on secondment	0.00	138,824.00
015	Less: Transferred to expenditure during construction period (net)- Note 43	55,506,727.67	22,467,418.75
016	Less: Transfer to Govt of Jharkhand A/c as recoverable	0.00	0.00
018		0.00	0.00
019	**TOTAL**	**2,614,510,079.46**	**2,434,106,970.84**
020	**Managerial Remuneration paid/ payable to Directors included above (except for Directors fee which is included in Note 42)**	**0.00**	**0.00**
021	Salaries and wages	0.00	0.00
022	Contribution to provident and other funds	0.00	0.00
023	Staff welfare expenses	0.00	0.00
024	Directors fee	0.00	0.00
025		0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 40 TO THE FS--FINANCE COSTS

(Amount in ₹)

	For the Year ended	31.03.2023	31.03.2022
001	**FINANCE COSTS**	**0.00**	**0.00**
002	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
003	Bonds	516,382,242.60	550,902,066.72
004	Government of India Loans	0.00	0.00
005	Foreign currency term loans	13,263,175.33	8,174,738.48
006	Rupee term loans	231,754,051.00	175,458,536.00
007	Public deposits	0.00	0.00
008	Foreign currency bonds/notes	0.00	0.00
009	Cash Credit	0.00	0.00
010	Unwinding of discount on account of vendor liabilities	1,953,893.81	1,271,042.71
011	Commercial Papers	0.00	0.00
012	**Sub Total**	**763,273,362.14**	**736,186,383.91**
013	Interest on non financial items	-617.08	-649,020.62
014	**Other Borrowing Costs**	**0.00**	**0.00**
015	Bonds servicing & public deposit exp.	635,162.03	547,763.41
016	Guarantee fee	0.00	0.00
017	Management fee	0.00	0.00
018	Committ charges/exposure premium	-87,157.68	522,270.99
019	Bond issue expenses	0.00	0.00
020	Legal exp on foreign currency loans	0.00	0.00
021	Foreign currency bonds/notes exp.	0.00	0.00
022	Up-front fee	0.00	0.00
023	Insurance premium on foreign currency loans	0.00	0.00
024		0.00	0.00
025	Others	0.00	0.00
026	**Sub Total (Other Borrowing cost)**	**548,387.27**	**5,719,656.02**
027		0.00	0.00
028	**Exchange differences regarded as an adjustment to borrowing costs**	**2,623,963.63**	**0.00**
029	**Sub Total**	**766,445,713.04**	**741,905,439.93**
030	Less: Transferred to Expenditure during construction period (net) - Note 43	58,347,038.61	135,194,286.37
031	Less: Transferred to development of coal mines- Note 43A	0.00	0.00
032		0.00	0.00
034	**Total**	**708,098,674.43**	**606,711,153.56**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 41 TO THE FS-DEPRECIATION AND AMORTIZATION EXPENSES

(Amount in ₹)

	For the Year ended	31.03.2023	31.03.2022
001	**Depreciation and amortization expenses**	**0.00**	**0.00**
002	On property, plant and equipment- Note 2	2,433,633,118.71	3,026,082,796.50
003	On investment property	0.00	0.00
004	On intangible assets- Note 4	100,520,604.51	100,326,287.38
005		0.00	0.00
006	Sub-total	2,534,153,723.22	3,126,409,083.88
007	Less:	0.00	0.00
008	Allocated to fuel inventory	137,067,067.17	160,679,140.12
009	Transferred to Expenditure during Construction Period (net)- Note 43	0.00	0.00
010		0.00	0.00
011	Transferred/Allocated to development of coal mines	0.00	0.00
012	Adjustment with deferred revenue from deferred foreign currency fluctuation	19,329,000.00	19,329,000.00
013		0.00	0.00
015	**Total**	**2,377,757,656.05**	**2,946,401,943.76**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 42 TO THE FS-OTHER EXPENSE (Amount in ₹)

	For the Year ended	31.03.2023	31.03.2022
001	**OTHER EXPENSES**	**0.00**	**0.00**
002	Power charges	79,643,618.94	54,480,661.36
003	Less: Recovered from contractors & employees	17,318,876.79	18,684,039.94
004	**Sub-Total(Power Charges)**	**62,324,741.75**	**35,796,621.42**
005	Water charges	34,641,905.13	14,061,686.60
006	Stores consumed	33,497,513.21	50,861,765.59
007	Rent	0.00	0.00
008	Less Recoveries	0.00	0.00
009	**Sub-Total (Rent)**	**0.00**	**0.00**
010	Cost of captive coal produced	373,886.58	0.00
011	**Repairs & maintenance**	**0.00**	**0.00**
012	Buildings	57,343,840.92	63,376,823.67
013	Plant & machinery	0.00	0.00
014	Power stations	1,473,269,150.14	1,086,687,615.38
015	Construction equipment	0.00	96,559.63
016	Others	102,832,986.16	94,235,367.64
017	**Sub-total (Repairs & maintenance)**	**1,633,445,977.22**	**1,244,398,366.32**
019	Load Dispatch Center Charges	8,015,656.00	15,426,355.00
021	Insurance	103,643,116.40	69,945,754.06
022	Interest to beneficiaries	152,353,639.00	227,184,657.00
023	Rates and taxes	5,936,869.38	6,822,345.36
024	Water cess & environment protection cess	0.00	0.00
025	Training & recruitment expenses	8,171,483.21	9,700,242.86
026	Less: Receipts	0.00	0.00
027	**Sub-total (Training and recruitment expenses)**	**8,171,483.21**	**9,700,242.86**
028	Communication expenses	21,426,949.99	19,535,820.64
029	Inland Travel	87,390,371.66	79,450,894.88
030	Foreign Travel	237,842.94	0.00
031	Tender expenses	0.00	0.00
032	Less: Receipt from sale of tenders	9,000.00	4,500.00
033	**Sub-total (Tender expenses)**	**-9,000.00**	**-4,500.00**
034	Payment to auditors	0.00	0.00
035	Audit fee	0.00	0.00
036	Tax audit fee	0.00	0.00
037	Other services	0.00	0.00
038	Reimbursement of expenses	3,914.00	0.00
039	**Sub-total (Payment to Auditors)**	**3,914.00**	**0.00**
040	Advertisement and publicity	819,819.46	1,360,279.83
041	Electricity duty	0.00	0.00
042	Security expenses	306,956,221.29	303,152,968.75
043	Entertainment expenses	21,521,571.22	21,072,149.26
044	Expenses for guest house	18,875,191.23	16,729,043.79
045	Less Recoveries	3,693,769.30	2,096,601.00
046	**Sub-Total (Guest house expenses)**	**15,181,397.93**	**[illegible]**
047	Education expenses	54,003,750.40	[illegible]
049	Donations	0.00	[illegible]

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NATIONAL CAPITAL POWER STATION

NOTE NO. 42 TO THE FS-OTHER EXPENSE (Amount in ₹)

	For the Year ended	31.03.2023	31.03.2022
050	Ash utilisation & marketing expenses	37,865,471.45	45,409,421.73
051	Directors sitting fee	0.00	0.00
053	Professional charges and consultancy fees	2,400,984.88	4,622,397.30
054	Legal expenses	11,181,391.62	10,696,820.38
055	EDP hire and other charges	28,582,411.43	14,726,744.55
056	Printing and stationery	1,986,275.93	468,574.90
057	Oil & gas exploration expenses	0.00	0.00
059	Hiring of vehicles	16,593,852.71	12,639,064.01
061	Reimbursement of L.C.charges on sales realisation	0.00	0.00
062	LOSS ON FAIR VALUATION OF NON- CURRENT TRADE RECEIVABLE AT AMORTISED COST	0.00	0.00
063	Cost of Hedging	0.00	0.00
064	Derivatives MTM loss/gain (Net)	0.00	0.00
065	Net loss/(gain) in foreign currency transactions & translations	50,572,301.22	-37,608,522.42
066	Transport Vehicle running expenses	15,618,664.97	11,108,828.46
067	Horticulture Expenses	16,916,135.58	14,812,504.22
068	Hire charges- helicopter/aircraft	0.00	0.00
069	Hire charges of construction equipment	0.00	0.00
070	Demurrage Charges	0.00	0.00
072		0.00	0.00
073	Miscellaneous expenses	18,572,641.42	19,783,454.80
074	Loss on disposal/write-off of PPE	39,232,419.90	10,022,374.33
075	**Sub-Total**	**2,791,148,188.18**	**2,271,076,855.00**
076	Less: Other expenses allocated to fuel inventory	294,833,327.02	192,416,395.74
077	Less: Transferred/Allocated to development of coal mines	0.00	0.00
078	Less: Transferred to fly ash utilisation reserve fund	37,865,471.45	45,409,279.59
079	Less: Hedging cost Net recoverable/payable from/to beneficiaries	0.00	0.00
080	Less: Others	0.00	0.00
081	Less: Transferred to CSR Expenses	0.00	51,742,614.00
082	Less:Transferred to Expenditure during Construction period(net)-Note 43	1,995,602.70	2,007,132.82
083	Less: Transfer to Govt of Jharkhand A/c as recoverable	0.00	0.00
084	**Net (Generation, Administration and Other expenses)**	**2,496,453,779.81**	**1,979,501,433.05**
085	Corporate Social Responsibility Expenses	63,542,662.29	107,718,984.26
086	Less: Grants-in-aid	0.00	0.00
087	**Sub-total (Corporate Social Responsibility Expenses)**	**63,542,662.29**	**107,718,984.26**
088	**Provisions**	**0.00**	**0.00**
089	Doubtful Debts	0.00	0.00
090	Doubtful loans, advances and claims	0.00	0.00
091	Doubtful Construction Advances	0.00	0.00
092	Shortage in stores	828,822.75	[illegible]

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NATIONAL CAPITAL POWER STATION

NOTE NO. 42 TO THE FS-OTHER EXPENSE (Amount in ₹)

	For the Year ended	31.03.2023	31.03.2022
093	Obsolete/Dimunition in the value of surplus stores	6,253,026.01	24,615,124.01
094	Shortage in construction stores	0.00	0.00
095	Dimunition in value of long term investments	0.00	0.00
096	Shortage in Fixed assets	6,310,836.31	0.00
097	Unfinished minimum work progress from oil & gas exploration	0.00	0.00
098	Unserviceable capital works	0.00	0.00
099	Tariff Adjustment	-69,552,751.00	79,296,751.00
100	Others :	0.00	0.00
101	(i) Provision for arbitration cases	13,448,203.00	12,072,593.78
102	(ii) Other provisions	0.00	0.00
103	**Total (Provisions)**	**-62,912,060.93**	**119,661,560.79**
104		0.00	0.00
106	**Total**	**2,497,084,399.36**	**2,266,592,078.16**
107		0.00	0.00
108	**Breakup of miscellaneous expenses.**	**0.00**	**0.00**
110	Hire charges of office equipment	1,360.00	0.00
112	Operating expenses of construction equipment	0.00	0.00
113	Operating expenses of D.G. sets	662,707.98	725,967.25
114	Furnishing expenses	272,283.42	457,808.57
115	Subscription to trade and other associations.	0.00	0.00
117	Visa and entry permit charges	0.00	0.00
118	Tree plantation exp. NTPC Land	0.00	0.00
119	Research & development expenses	0.00	0.00
120	Less : Grants received for Research & develoment expenses.	0.00	0.00
121	Sub-total (Research & developement expenses)	0.00	0.00
122	Bank charges	162,096.28	7,644.60
123	Business Development Expenditure	0.00	0.00
124	Surcharge (NVVN)	0.00	0.00
125	Power Trading Expenses	317,462.00	4,099,819.00
126	Brokerage & commission	4,002,599.16	1,706,140.45
130	Books and periodicals	38,247.51	7,211.40
131	Claims/advances written off	0.00	0.00
132	Stores written off	0.00	0.00
133	Survey &Investigation expenses written off	2,324,296.03	0.00
134	Others	10,791,589.04	11,777,954.53
135	**Total**	**18,572,841.42**	**19,783,454.80**
136		0.00	0.00
137		0.00	0.00
138		0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 43 TO THE FS-EXPENDITURE DURING CONSTRUCTION PERIOD (NET) (Amount in ₹)

	For the Year ended	31.03.2023	31.03.2022
001	**EXPENDITURE DURING CONSTRUCTION PERIOD (NET)**	**0.00**	**0.00**
002	A. Employee benefits expense	0.00	0.00
003	Salaries and wages	42,209,878.56	18,773,722.90
004	Contribution to provident and other funds	3,898,102.97	2,343,195.19
005	Unwinding of deferred payroll expenses	0.00	0.00
006	Staff welfare expenses	9,598,746.14	1,350,500.66
007	**Total (A)**	**55,506,727.67**	**22,467,418.75**
008	**B. Finance Costs**	**0.00**	**0.00**
009	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
010	Bonds	27,564,760.24	65,212,058.64
011	Foreign currency term loans	7,013,546.41	5,827,230.73
012	Rupee term loans	22,565,734.84	64,154,999.00
013	Foreign currency bonds/notes	0.00	0.00
014	Unwinding of discount on account of vendor liabilities	0.00	0.00
015	Others	0.00	0.00
016		0.00	0.00
017	Other Borrowings Costs	0.00	0.00
018	Guarantee Commission	0.00	0.00
019	Management Fees/Arrangers Fees	0.00	0.00
020	Commitment charges/Exposure Premium	47,903.00	0.00
021	Legal Expenses on foreign currency loans	0.00	0.00
022	Foreign currency bonds/notes expenses	0.00	0.00
023	Foreign Credit Insurance Premium	0.00	0.00
024	Upfront Fee	0.00	0.00
025	Exchange Differences	0.00	0.00
026	Others	761,499.56	0.00
027	Exchange differences regarded as adjustment to interest cost	393,594.54	0.00
028	**Total (B)**	**58,347,038.61**	**135,194,288.37**
029		0.00	0.00
030	C. Depreciation and amortisation	0.00	0.00
031	**D. Generation , administration and other expenses**	**0.00**	**0.00**
032	Power charges	0.00	211,954.00
033	Less: Recovered from contractors & employees	24,685.00	91,636.00
034	**Sub-total(Net power charges)**	**-24,685.00**	**120,318.00**
035	Water charges	0.00	0.00
036	Rent	0.00	0.00
037	Repairs & maintenance	0.00	0.00
038	Buildings	0.00	112,754.72
039	Construction equipment	0.00	0.00
040	Others	0.00	0.00
041		0.00	
042	Insurance	0.00	

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NATIONAL CAPITAL POWER STATION

NOTE NO. 43 TO THE FS--EXPENDITURE DURING CONSTRUCTION PERIOD (NET) (Amount in ₹)

	For the Year ended	31.03.2023	31.03.2022
043	Rates and taxes	0.00	0.00
044	Communication expenses	353,197.20	294,996.00
045	Travelling expenses	1,238,737.55	668,070.25
046	Tender expenses	0.00	0.00
047	Less: Income from sale of tenders	0.00	0.00
048	**Sub-total (Net tender expenses)**	**0.00**	**0.00**
049	Advertisement and publicity	0.00	0.00
050	Security expenses	0.00	0.00
051	Entertainment expenses	120,257.90	78,820.00
052	Guest house expenses	0.00	0.00
053	Less: Receipt from guest house	0.00	0.00
054	**Sub-total (Net Guest House Expenses)**	**0.00**	**0.00**
055	Education expenses	0.00	0.00
056	Brokerage & Commission	0.00	0.00
057	Books and periodicals	0.00	0.00
058	Community development expenses	0.00	0.00
059	Professional charges and consultancy fee	0.00	0.00
060	Legal expenses	0.00	0.00
061	EDP Hire and other charges	168,686.96	94,700.26
062	Printing and stationery	0.00	23,708.00
063	Miscellaneous expenses	108,424.09	613,753.39
064	**Total (D)**	**1,995,602.70**	**2,007,132.82**
065	**Total (A+B+C+D)**	**115,849,368.98**	**159,668,839.74**
066	**E. Less: Other Income**	**0.00**	**0.00**
067	Interest from	0.00	0.00
068	Indian banks	0.00	0.00
069	Foreign banks	0.00	0.00
070	Others	0.00	0.00
071	Contractors	0.00	0.00
072	Hire charges	0.00	0.00
073	Sale of scrap	0.00	0.00
074	Exchange Differences	0.00	0.00
075	Miscellaneous Income	19,812.00	95,161.00
076	**TOTAL (E)**	**19,812.00**	**95,161.00**
077	F. Net actuarial gain/loss OCI	-71,479.68	90,293.26
078		0.00	0.00
079	**GRAND TOTAL (A+B+C+D-E+F)**	**115,758,077.30**	**159,663,972.00**
080		0.00	0.00
081	*** Balance carried to Capital Work-in-progress - (Note 3)**	**115,758,077.30**	**159,663,972.00**

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 43A TO THE FS--EDC- COAL MINING (Amount in ₹)

	For the Year ended	31.03.2023	31.03.2022
001	**EDC- Coal Mining**	**0.00**	**0.00**
002	A. Employee benefits expense	0.00	0.00
003	Salaries and wages	0.00	0.00
004	Contribution to provident and other funds	0.00	0.00
005	Unwinding of deffered payroll expenses	0.00	0.00
006	Staff welfare expenses	0.00	0.00
007	**Total (A)**	**0.00**	**0.00**
008	**B. Finance Costs**	**0.00**	**0.00**
009	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
010	Bonds	0.00	0.00
011	Foreign currency term loans	0.00	0.00
012	Rupee term loans	0.00	0.00
013	Foreign currency bonds/notes	0.00	0.00
014	Unwinding of discount on account of vendor liabilities	0.00	0.00
015	Others	0.00	0.00
016		0.00	0.00
017	Other Borrowings Costs	0.00	0.00
018	Guarantee Commission	0.00	0.00
019	Management Fees/Arrangers Fees	0.00	0.00
020	Commitment charges/Exposure Premium	0.00	0.00
021	Legal Expenses on foreign currency loans	0.00	0.00
022	Foreign currency bonds/notes expenses	0.00	0.00
023	Foreign Credit Insurance Premium	0.00	0.00
024	Upfront Fee	0.00	0.00
025	Exchange Differences	0.00	0.00
026	Others	0.00	0.00
027	Exchange differences regarded as adjustment to interest cost	0.00	0.00
028	**Total (B)**	**0.00**	**0.00**
029		0.00	0.00
030	C. Depreciation and amortisation	0.00	0.00
031	**D. Generation , administration and other expenses**	**0.00**	**0.00**
032	Power charges	0.00	0.00
033	Less: Recovered from contractors & employees	0.00	0.00
034	**Sub-total(Net power charges)**	**0.00**	**0.00**
035	Water charges	0.00	0.00
036	Rent	0.00	0.00
037	Repairs & maintenance	0.00	0.00
038	Buildings	0.00	0.00
039	Construction equipment	0.00	0.00
040	Others	0.00	0.00
041	Cost of Captive Coal	0.00	
042	Insurance	0.00	
043	Rates and taxes	0.00	

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NATIONAL CAPITAL POWER STATION

NOTE NO. 43A TO THE FS--EDC- COAL MINING

(Amount in ₹)

	For the Year ended	31.03.2023	31.03.2022
044	Communication expenses	0.00	0.00
045	Travelling expenses	0.00	0.00
046	Tender expenses	0.00	0.00
047	Less: Income from sale of tenders	0.00	0.00
048	**Sub-total (Net tender expenses)**	**0.00**	**0.00**
049	Advertisement and publicity	0.00	0.00
050	Security expenses	0.00	0.00
051	Entertainment expenses	0.00	0.00
052	Guest house expenses	0.00	0.00
053	Less: Receipt from guest house	0.00	0.00
054	**Sub-total (Net Guest House Expenses)**	**0.00**	**0.00**
055	Education expenses	0.00	0.00
056	Brokerage & Commission	0.00	0.00
057	Books and periodicals	0.00	0.00
058	Community development expenses	0.00	0.00
059	Professional charges and consultancy fee	0.00	0.00
060	Legal expenses	0.00	0.00
061	EDP Hire and other charges	0.00	0.00
062	Printing and stationery	0.00	0.00
063	Miscellaneous expenses	0.00	0.00
064	**Total (D)**	**0.00**	**0.00**
065	**Total (A+B+C+D)**	**0.00**	**0.00**
066	**E. Less: Other Income**	**0.00**	**0.00**
067	Interest from	0.00	0.00
068	Indian banks	0.00	0.00
069	Foreign banks	0.00	0.00
070	Others	0.00	0.00
071	Contractors	0.00	0.00
072	Hire charges	0.00	0.00
073	Sale of scrap	0.00	0.00
074	Exchange Differences	0.00	0.00
075	Miscellaneous income	0.00	0.00
076	**TOTAL (E)**	**0.00**	**0.00**
077	F. Net actuarial gain/loss OCI	0.00	0.00
078		0.00	0.00
079	**GRAND TOTAL (A+B+C+D-E+F)**	**0.00**	**0.00**
080		0.00	0.00
081	*** Balance carried to Capital Work-in-progress - (Note 3)**	**0.00**	**0.00**

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 44-A TO THE FINANCIAL STATEMENTS

(Amount in ₹)

	As at	31.03.2023	31.03.2022
001	Balance sheet	0.00	0.00
002	Freehold land for which conveyancing of the title is awaiting completion of legal formalities	0.00	0.00
003	(a) area (in acres)	0.00	0.00
004	(b) value (in rs)	0.00	0.00
005	Right-of-use land for which execution of lease deed is awaiting completion of legal formalities	0.00	0.00
006	(a) area (in acres)	0.00	0.00
007	(b) value (in rs)	0.00	0.00
008	Right-of-use land acquired on perpetual lease and accordingly not amortised	0.00	0.00
009	(a) area (in acres)	0.00	0.00
010	(b) value (in rs.)	0.00	0.00
011	Land in physical possession of the company which has not been shown in the books pending settlement of price (in acres)	0.00	0.00
012	Deposit with government authorities towards land in possession of the company included in cost of land which is subject to adjus	0.00	0.00
013	**Land not in possession of the company**	**0.00**	**0.00**
014	(a) area (in acres)	0.00	0.00
015	-Freehold	0.71	76.51
016	-Right of Use	0.00	0.00
017	(b) value (in rs)	0.00	0.00
018	-Freehold	1,458,014.90	155,138,846.80
019	-Right of Use	0.00	0.00
020	Right-of-use buildings pending completion of legal formalities - value (in rs.)	0.00	0.00
021	Estimated amount of contracts remaining to be executed on capital account and not provided for	0.00	0.00
022	Property, plant & equipment	1,050,748,065.00	1,009,494,138.00
023	Intangible assets	0.00	0.00
024	Details of precommissioning expenditure	0.00	0.00
025	(a) precommissioning expenses	0.00	0.00
026	(b) precommissioning income	0.00	0.00
027	(c) net precommissioning expenditure	0.00	0.00
028		0.00	0.00
029		0.00	0.00
030		0.00	0.00
031	Exchange rate variation taken to revenue during the year (with -ve sign, if favourable)	50,572,301.22	-37,608,522.42
045	Exchange rate variation capitalised during the year (with -ve sign, if favourable)	393,594.54	0.00
064	Short Term Leases	0.00	0.00
065	A) Rent	0.00	0.00
066	Company lease accomodation - executives	0.00	0.00
067	Company lease accomodation - directors	0.00	0.00
068	Others	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 44-A TO THE FINANCIAL STATEMENTS

(Amount in ₹)

	As at	31.03.2023	31.03.2022
069	**Total**	**0.00**	**0.00**
101	Borrowing cost capitalised during the year	58,347,038.61	135,194,288.37
102	Revenue grants recognized during the year	0.00	0.00
103	Revenue expenditure on research and development	48,838,286.37	0.00
104	Capital expenditure on research and development	6,723,446.00	0.00
105	Expenditure on sustainibility development - capital	0.00	0.00
106	Expenditure on csr- capital	0.00	0.00
107	Opening balance - CSR Liability	0.00	548,400.00
108	Paid/Adjusted during the Year out of Opening above	0.00	0.00
109	Amount yet to be paid against Cr Year CSR Exp	10,156,310.00	-1,723,313.90
110	Closing Balance CSR- Liability (110)	10,156,310.00	-2,271,713.90
111		0.00	0.00
112		0.00	0.00
113		0.00	0.00
114		0.00	0.00
115	Disclosure under msmed act 2006.	0.00	0.00
116	(i) (a) the principal amount remaining unpaid as at year end	74,435,857.27	177,922,970.30
117	(i) (b) interest due there on remaining unpaid as at Year end	0.00	0.00
118	(ii) the amount of interest paid by the buyer in terms of section 16, along with the amounts of the payment made to the supplier	0.00	0.00
119	(iii) the amount of interest due and payable for the period of delay in making payment(which has been paid but beyond the appoin	0.00	0.00
120	(iv) the amount of interest accrued and remaining unpaid at the end of the year; and	0.00	0.00
121	(v) the amount of further interest remaining due and payable even in the succeeding years, until such date when the interest due	0.00	0.00
122	Amount of inventories recognized as an expense (including fuel)	50,738,358,778.29	19,369,167,087.02
123	Amount of inventories capitalised as overhauling assets out of 122 above	96,602,593.37	92,730,818.96
124	Amount capitalised as edc out of 122 above	0.00	0.00
133	Value of Imported Material Consumed during the Year	0.00	0.00
134		0.00	0.00
135	Contingent liabilities	0.00	0.00
136	A. Claims against the company not acknowledged as debts in respect of :	0.00	0.00
137	(i)Capital works	3,609,456,245.00	3,453,939,922.87
138	(ii)Land compensation cases	104,631,839.10	105,543,891.00
139	(iii)Others by state authorities towards:-	0.00	0.00
140	(a) Water royalty / water charges / nala tax	0.00	0.00
141	(b) Diversion of land / building permission fees	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 44-A TO THE FINANCIAL STATEMENTS

(Amount in ₹)

	As at	31.03.2023	31.03.2022
142	(c) Other demands by state authorities	0.00	0.00
143	(iv) Others by fuel companies	0.00	0.00
144	(a) Disputes related to grade slippage-third party sampling	595,732,986.80	545,602,131.97
145	(b) Surface transportation charges on coal	15,365,368.00	15,365,368.00
146	(c.) Take or pay claim - Gas stations	0.00	0.00
147	(d) Other claims by fuel companies not acknowledged as debt	175,936,517.00	175,936,517.00
149	B.Disputed tax demands	0.00	0.00
150	(i) Income tax	0.00	0.00
151	(ii) Excise duty	0.00	0.00
152	(iii) Sales tax	140,305,671.00	106,749,500.00
153	(iv) Service tax/GST	23,999,462.40	0.00
154	(v) Entry tax	39,062,589.00	35,750,259.00
155	C. Others	0.00	201,985,077.00
156	**Total**	**4,898,520,657.38**	**4,840,872,676.64**
157	D. Possible reimbursement on account of contingent liabilities	0.00	0.00
158	(i) Capital works	0.00	0.00
159	(ii)Land compensation cases	0.00	0.00
160	(iii)Others (by state authorities)	0.00	0.00
161		0.00	0.00
162	(iv) Others by fuel companies	787,034,871.80	736,904,616.97
163	(v) Disputed income tax demand	0.00	0.00
164	(vi) Disputed tax demands -others	23,999,462.40	0.00
165	(vii) Others	7,299,187.00	7,299,187.00
167	**Total**	**818,333,521.20**	**744,203,203.97**
168	E.AMOUNT PAID UNDER PROTEST/ADJUSTED BY AUTHORITIES - TAX CASES	0.00	16,534,982.00
169	F.CONTINGENT ASSETS	0.00	0.00
170	Intangible under development : less than 1 year	0.00	0.00
171	Intangible under development #. 1-2 year	0.00	0.00
227	Intangible under development #. 2-3 year	0.00	0.00
277	Intangible under development #. More than 3 years	0.00	0.00
278	**Capital-Work-in Progress (CWIP)**	**0.00**	**0.00**
279	Projects in progress	2,266,457,185.49	7,669,053,159.57
280	Projects temporarily suspended	0.00	0.00
281		0.00	0.00
282		0.00	0.00
283	**Projects in progress**	**0.00**	**0.00**
284	Less than 1 year	210,961,701.06	990,436,791.16
285	1-2 years	641,895,746.42	1,236,876,320.87
286	2-3 years	622,012,214.55	3,445,145,343.43
287	More than 3 years	791,797,523.16	[illegible]
288	**Sub Total (I)**	**2,266,457,185.49**	[illegible]
289		0.00	

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NATIONAL CAPITAL POWER STATION

NOTE NO. 44-A TO THE FINANCIAL STATEMENTS

(Amount in ₹)

	As at	31.03.2023	31.03.2022
290	**Projects temporarily suspended**	**0.00**	**0.00**
291	Less than 1 year	0.00	0.00
292	1-2 years	0.00	0.00
293	2-3 years	0.00	0.00
294	More than 3 years	0.00	0.00
295	**Sub Total (II)**	**0.00**	**0.00**
296		0.00	0.00
380	Previous year figures have been regrouped/rearranged wherever necessary.	0.00	0.00

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 44-B TO THE FS--RPO DISCLOSURE- TRANSACTIONS DURING THE PERIOD (Amount in ₹)

	For the Year ended	31.03.2023	31.03.2022
001	**1) Transactions during the year- subsidiaries**	**0.00**	**0.00**
002	Purchase of equipment, supply & erection services	14,633,981.00	0.00
003	Purchase of spares	0.00	0.00
004	Maintenance services	0.00	0.00
005	Contracts for works/services for services provided by the company	0.00	0.00
006	Deputation of employees	0.00	0.00
007	Sales of goods	0.00	0.00
008	Sales of property and other assets	0.00	0.00
009	**Sub-total**	**14,633,981.00**	**0.00**
010		0.00	0.00
011	Dividend received	0.00	0.00
012	Equity contributions made	0.00	0.00
013	Share application money pending allotment	0.00	0.00
014	Loans granted	0.00	0.00
015	Interest on Loan	0.00	0.00
016	Guarantees received	0.00	0.00
017	Guarantees provided	0.00	0.00
018	**Sub-total**	**0.00**	**0.00**
019		0.00	0.00
020	**Transactions during the year- jvs**	**0.00**	**0.00**
021	Purchase of equipment, supply & erection services	7,025,986.72	4,832,462.80
022	Purchase of spares	0.00	0.00
023	Maintenance services	615,353,734.57	564,855,570.18
024	Contracts for works/services for services provided by the company	-2,767,373.00	0.00
025	Deputation of employees	0.00	0.00
026	Sales of goods	0.00	0.00
027	Sales of property and other assets	0.00	0.00
028	**Sub-total**	**619,612,348.29**	**569,688,032.98**
029	Dividend received	0.00	0.00
030	Equity contributions made	0.00	0.00
031	Share application money pending allotment	0.00	0.00
032	Loans granted	0.00	0.00
033	Guarantees received	0.00	0.00
034	Interest on Loan	0.00	0.00
035	Guarantees provided	0.00	0.00
036	**Sub-total**	**0.00**	**0.00**
037	**Total**	**634,246,329.29**	**569,688,032.98**
038	**Transactions with post employment benefit plans**	**0.00**	**0.00**
039	Contributions made during the year	0.00	0.00
040	**Compensation to key management personnel**	**0.00**	**0.00**
041	Short term employee benefits	0.00	0.00
042	Post employment benefits	0.00	0.00
043	Other long term benefits	0.00	0.00
044	Termination benefits	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 44-B TO THE FS--RPD DISCLOSURE- TRANSACTIONS DURING THE PERIOD (Amount in ₹)

	For the Year ended	31.03.2023	31.03.2022
045	Sitting Fee	0.00	0.00
046	Share based payments	0.00	0.00
047	**Sub-total**	**0.00**	**0.00**
048	**Transactions with the related parties under the control of the same government:**	**0.00**	**0.00**
049	Coal india ltd . And its subsidiaries- purchase of coal	7,989,694,373.30	6,982,154,053.00
050	Singareni coalfields ltd- purchase of coal	235,487,189.61	0.00
051	**Bhel ltd.**	**0.00**	**0.00**
052	Purchase of equipment, supply & erection services	286,722.00	50,124,732.00
053	Purchase of spares	123,999,395.76	66,965,092.76
054	Maintenance services	262,012,122.86	266,223,286.15
055	**Sub-total**	**386,298,240.62**	**383,317,108.91**
056	Gail (i) ltd. Supply of natural gas	0.00	0.00
057	Iocl supply of oil products	336,501,667.89	56,660,776.68
058	Bpcl-supply of natural gas and oil	0.00	400,517,344.10
059	Sail-supply of steel and iron products	62,597,384.01	62,976,578.97
060	Other entities	0.00	0.00
061	Purchase of equipments & erection services	96,782,527.39	54,814,765.21
062	Purchase of spares	11,107,938.72	46,624,729.66
063	Maintenance services	15,098,635.46	6,554,118.75
064		0.00	0.00
065	**Total**	**9,133,567,956.89**	**7,989,619,476.43**
066	**Transaction with other**	**0.00**	**0.00**
067	**Transaction with ntpc education and research society and ntpc foundation**	**0.00**	**0.00**
068	- transactions during the year	24,137,790.01	0.00
069	ADDITIONAL TRANSACTIONS WITH RELATED PARTIES FOR PSU	0.00	0.00
070	Additional Transactions with GAIL	0.00	0.00
071	Additional Transactions with subsidiaries	0.00	0.00
072	Additional Transactions with joint ventures	0.00	0.00
073		0.00	0.00
074		0.00	0.00

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 44-C TO THE FS--RPD DISCLOSURE- OUTSTANDING BALANCES

(Amount in ₹)

	As at	31.03.2023	31.03.2022
001	**Outstanding balance**	**0.00**	**0.00**
002	**Amount recoverable towards loans**	**0.00**	**0.00**
003	- From Subsidiaries	0.00	0.00
004	- From JVC	0.00	0.00
005	- From KMP	0.00	0.00
006	- From Others	0.00	0.00
007	Sub-total	0.00	0.00
008	**Amount recoverable other than loan**	**0.00**	**0.00**
009	- from subsidiaries	0.00	0.00
010	- from joint ventures	4,382,392.00	0.00
011	- from key managerial personnel	0.00	0.00
012	- from post employment benfit plans	0.00	0.00
013	- from others	0.00	0.00
014	Sub-total	4,382,392.00	0.00
015	**Amount payable**	**0.00**	**0.00**
016	- from subsidiaries	0.00	65,203,162.00
017	- from joint ventures	81,896,073.32	69,629,541.06
018	- from key managerial personnel	0.00	0.00
019	- from post employment benfit plans	0.00	0.00
020	- from others	0.00	0.00
021	Sub-total	81,896,073.32	134,832,703.06
022		0.00	0.00

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

BALANCE SHEET

(Amount in ₹)

	As at	Note	31.03.2024	31.03.2023
001	**ASSETS**		**0.00**	**0.00**
002			0.00	0.00
003	**NON-CURRENT ASSETS**		**0.00**	**0.00**
004	PROPERTY, PLANT & EQUIPMENT	2	30,112,024,985.05	29,970,493,446.91
005	CAPITAL WORK-IN-PROGRESS	3	1,443,532,336.91	2,396,457,100.49
006	INVESTMENT PROPERTY	4	0.00	0.00
007	INTANGIBLE ASSETS	5	1,073,649,359.08	1,173,974,496.43
008	INTANGIBLE ASSETS UNDER DEVELOPMENT	6	0.00	0.00
009	**FINANCIAL ASSETS**		**0.00**	**0.00**
010	i) EQUITY INVESTMENTS IN SUBSIDIARIES AND JOINT VENTURES	7	0.00	0.00
011	ii) OTHER INVESTMENTS	8	0.00	0.00
012	iii) LOANS	9	280,137,563.96	348,215,762.75
013	iv) TRADE RECEIVABLES	10	0.00	0.00
014	v) OTHER FINANCIAL ASSETS	11	0.00	0.00
015	OTHER NON-CURRENT ASSETS	12	371,580,654.73	315,969,938.35
017	**TOTAL NON-CURRENT ASSETS**		**33,327,124,499.53**	**32,973,277,794.93**
018			**0.00**	**0.00**
019	**CURRENT ASSETS**		**0.00**	**0.00**
020	INVENTORIES	13	7,566,558,935.46	5,294,491,746.29
021	**FINANCIAL ASSETS**		**0.00**	**0.00**
022	i) OTHER INVESTMENTS	14	0.00	0.00
023	ii) TRADE RECEIVABLES	15	1,025,410.11	0.00
024	iii) CASH AND CASH EQUIVALENTS	16	0.00	82,770.90
025	iv) BANK BALANCES OTHER THAN CASH AND CASH EQUIVALENTS	17	0.00	0.00
026	v) LOANS	18	146,434,797.38	131,452,795.46
027	vi) OTHER FINANCIAL ASSETS	19	1,061,368,953.58	806,024,157.90
028	CURRENT TAX ASSETS (NET)		0.00	0.00
029			0.00	0.00
030	OTHER CURRENT ASSETS	20	7,424,368,382.41	8,402,753,044.40
031			0.00	0.00
032	**TOTAL CURRENT ASSETS**		**16,211,812,782.91**	**16,664,329,526.09**
033	ASSETS (NAS) FOR SALE	21	2,024,918.57	42,471,014.31
036	REGULATORY DEFERRAL ACCOUNT DEBIT BALANCES	22	570,316,594.73	63,028,096.33
037	**TOTAL ASSETS**		**49,309,411,395.09**	**50,348,305,344.71**
038	**EQUITY AND LIABILITIES**		**0.00**	**0.00**
039	**EQUITY**		**0.00**	**0.00**
040	EQUITY SHARE CAPITAL	23	0.00	0.00
041	OTHER EQUITY	24	151,265,312,811.10	141,808,326,175.24
044	**TOTAL EQUITY**		**151,265,312,811.10**	**141,808,326,175.24**
045			0.00	0.00
046	**LIABILITIES**		**0.00**	**0.00**
047	**NON-CURRENT LIABILITIES**		**0.00**	**0.00**
048	**FINANCIAL LIABILITIES**		**0.00**	**0.00**
049	i) BORROWINGS	25	0.00	

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NATIONAL CAPITAL POWER STATION

BALANCE SHEET (Amount in ₹)

	As at	Note	31.03.2024	31.03.2023
050	(i) LEASE LIABILITIES	29	0.00	0.00
051	**(ii) TRADE PAYABLES**		**0.00**	**0.00**
052	- TOTAL OUTSTANDING DUES OF MICRO AND SMALL ENTERPRISES	27	0.00	0.00
053	- TOTAL OUTSTANDING DUES OF CREDITORS OTHER THAN MICRO AND SMALL ENTERPRISES	27	0.00	0.00
054	(v) OTHER FINANCIAL LIABILITIES	28	10,875,546.91	15,383,550.91
055	PROVISIONS	29	0.00	0.00
056	DEFERRED TAX LIABILITIES (NET)	30	0.00	0.00
057	OTHER NON CURRENT LIABILITIES	31	0.00	0.00
058			**0.00**	**0.00**
059	**TOTAL NON-CURRENT LIABILITIES**		**10,875,546.91**	**15,383,550.91**
060			**0.00**	**0.00**
061	**CURRENT LIABILITIES**		**0.00**	**0.00**
062	**FINANCIAL LIABILITIES**		**0.00**	**0.00**
063	(i) BORROWINGS	32	0.00	0.00
064	(ii) LEASE LIABILITIES	33	0.00	0.00
065	**(iii) TRADE PAYABLES**		**0.00**	**0.00**
066	- TOTAL OUTSTANDING DUES OF MICRO AND SMALL ENTERPRISES	34	233,384,365.90	50,910,755.01
067	- TOTAL OUTSTANDING DUES OF CREDITORS OTHER THAN MICRO AND SMALL ENTERPRISES	34	3,868,248,126.44	7,152,591,216.37
068	(iv) OTHER FINANCIAL LIABILITIES	35	3,498,878,535.03	3,427,867,499.44
069	OTHER CURRENT LIABILITIES	36	463,728,804.77	367,808,402.99
070	PROVISIONS	37	34,484,772.14	58,769,394.39
071	CURRENT TAX LIABILITIES (NET)	38	0.00	0.00
072			**0.00**	**0.00**
073	**TOTAL CURRENT LIABILITIES**		**8,098,697,607.52**	**11,498,375,435.84**
074			**0.00**	**0.00**
077	DEFERRED REVENUE	39	36,445,159.00	31,400,000.00
078	REGULATORY DEFERRAL ACCOUNT CREDIT BALANCES	39A	0.00	0.00
079	INTER UNIT ACCOUNTS		-109,982,904,537.44	-105,561,543,599.24
080			**0.00**	**0.00**
081	**TOTAL EQUITY AND LIABILITIES**		**49,399,941,926.09**	**56,849,793,844.71**
082	Material Accounting Policies as per note 1	1	0.00	0.00
083			0.00	0.00
084	The Accompanying notes 1 to 44A form an integral part of these financial statements.		0.00	0.00
085			**0.00**	**0.00**

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[Head of Finance]

BRAHMAJI RAO GAMPA

[Head of Unit]

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NATIONAL CAPITAL POWER STATION

STATEMENT OF PROFIT AND LOSS (Amount in ₹)

	For the Year ended	Note	31.03.2024	31.03.2023
001	**Revenue**		**0.00**	**0.00**
002	Revenue from operations	40	[illegible]	[illegible]
003	Other income	41	[illegible]	[illegible]
005	**Total Income**		**[illegible]**	**[illegible]**
007	**Expenses**		**0.00**	**0.00**
008	Fuel including cost of captive coal	42	[illegible]	[illegible]
009	Employee benefits expense	43	[illegible]	[illegible]
010	Electricity purchased for trading		0.00	0.00
011	Finance costs	44	[illegible]	[illegible]
012	Depreciation, amortisation and impairment expenses	45	[illegible]	[illegible]
013			0.00	0.00
014	Other expenses	46	[illegible]	[illegible]
015	CC expenses charge to revenue		[illegible]	[illegible]
016	Less: Unit expenses transferred to CC		[illegible]	[illegible]
017	**Total expenses**		**[illegible]**	**[illegible]**
020	**Profit before exceptional items & tax**		**[illegible]**	**[illegible]**
023	Exceptional items		0.00	0.00
024	**Profit before tax**		**[illegible]**	**[illegible]**
027	**Tax expense:**		**0.00**	**0.00**
028	Current tax		0.00	0.00
031	Deferred tax		0.00	0.00
034			0.00	0.00
035	**Total Tax expense**		**0.00**	**0.00**
036	**Profit for the period before regulatory deferral account balances**		**[illegible]**	**[illegible]**
037	**Movement in regulatory deferral account balances**		**0.00**	**0.00**
038	Regulatory deferral accounts - deferred		0.00	0.00
039	Others		[illegible]	[illegible]
040	Tax impact on regulatory deferral account balances		0.00	0.00
041	**Net movement in regulatory deferral account balances (net of tax)**		**[illegible]**	**[illegible]**
042	**Profit for the period/ year**		**[illegible]**	**[illegible]**
045	**Other comprehensive income**		**0.00**	**0.00**
046	**(A) Items that will not be reclassified to profit or loss**		**0.00**	**0.00**
047	- Net gain/(loss) on fair value of equity instruments through other comprehensive income		0.00	0.00
048	Income tax on above that will not be reclassified to profit or loss		0.00	0.00
050	- Net actuarial gains/(losses) on defined benefit plans		[illegible]	[illegible]
051	Income tax on above that will not be reclassified to profit or loss		0.00	0.00
054			0.00	0.00
055	**Other comprehensive income for the year, net of income tax**		**[illegible]**	**[illegible]**
070			0.00	0.00
071			0.00	0.00
072	**Total Comprehensive income for the year**		**[illegible]**	**[illegible]**

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NATIONAL CAPITAL POWER STATION

STATEMENT OF PROFIT AND LOSS (Amount in ₹)

	For the Year ended	Note	31.03.2024	31.03.2023
006			[illegible]	[illegible]
007	Earnings per equity share		[illegible]	[illegible]
008	Raw & Diesel		[illegible]	[illegible]
009	Material Accounting Policies		[illegible]	[illegible]
010			[illegible]	[illegible]
011	The accompanying notes 1 to 48 form an integral part of these financial statements.		[illegible]	[illegible]

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(Head of Finance)

BRAHMAJI RAO GAMPA Digitally signed by BRAHMAJI RAO GAMPA Date: 2024.04.29 Time: [illegible]

(Head of Unit)

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Reason: AOC [illegible]
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

OTHER COMPREHENSIVE INCOME (Amount in ₹)

	For the Year ended	31.03.2024	31.03.2023
001		0.00	0.00
002	**Other comprehensive income**	**0.00**	**0.00**
003	**(A) Items that will not be reclassified to profit or loss**	**0.00**	**0.00**
004	- Net gains/(losses) on fair value of equity instruments through other comprehensive income	0.00	0.00
005	Income tax on above that will not be reclassified to profit or loss	0.00	0.00
006	- Net actuarial gains/(losses) on defined benefit plans	11,271,357.32	-35,989,442.76
007	Income tax on above that will not be reclassified to profit or loss	0.00	0.00
008		0.00	0.00
009	(B) Items that will be reclassified to profit or loss	0.00	0.00
010	Income tax relating to above items that will be reclassified to profit or loss	0.00	0.00
011		0.00	0.00
012	**Other comprehensive income for the year, net of income tax**	**11,271,357.32**	**-35,989,442.76**
013		0.00	0.00
014	**Total comprehensive income for the year (A+B)**	**11,271,357.32**	**-35,989,442.76**

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Note forming part of Balance Sheet

(Amount in Rupees)

NOTE NO. 2 TO THE FS-NCA-PROPERTY, PLANT AND EQUIPMENT

Business Area :1011

Asset Class	Opening Gross Block As At 01.04.2023	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2024	Opening Depreciation As At 01.04.2023	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2024	Net Block As At 31.03.2024	Net Block As At 31.03.2023
1 TANGIBLE ASSETS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 Land : (including development expenses)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3 Freehold	1765205425.67	8537697.96	0.00	1768743323.63	0.00	0.00	0.00	0.00	1768743323.63	1765205425.67
4 Right of Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5 Submergence	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 Right of use - Coal Bearing Area Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7 Roads,bridges, culverts & helipads	365705344.04	649599.40	0.00	366355943.44	125494306.94	13641161.91	0.00	139135468.85	227220474.59	240212037.10
8 Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 Freehold	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10 Main plant	4199598000.68	3456752.93	0.00	4203154784.28	1046495929.06	173743100.22	0.00	1220239029.30	2982911744.98	3153198071.50
11 Others	795447345.58	(1328852.01)	(338811.26)	794621332.31	267594716.67	35112022.90	(158986.67)	302531752.29	477289579.02	512852328.61
12 Right of Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13 Temporary erection	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14 Water Supply, drainage & sewerage system	160084774.65	1543112.71	0.00	161627886.36	57174795.94	5358025.60	0.00	62533331.54	97894556.82	103470982.46
15 Hydraulic works, barrages, dams, canals and power channel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16 MGR track and signalling system	93169487.30	0.00	0.00	93169487.30	36762421.35	4057092.68	0.00	40847514.03	52341973.27	56396065.95
17 Railway siding	709797602.41	0.00	0.00	709797602.41	367177758.65	21114786.47	0.00	388292545.12	311504057.29	342622043.53
18 Computer Software	499752736.04	16671708.29	0.00	516424444.33	139983502.77	33914612.34	0.00	173898115.11	342526329.22	359769233.27
19 Spare parts [illegible] Capital Work in Progress)	4327606391.46	209610896.25	(421523656.44)	4115693633.25	2120256743.52	160303628.49	(369749607.99)	2141810563.92	2344242060.33	2307349648.94

Note forming part of Balance Sheet
NOTE NO. 2 TO THE FS-NCA-PROPERTY, PLANT AND EQUIPMENT
Business Area :1011

(Amount in Rupees)

Asset Class	Opening Gross Block As At 01.04.2023	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2024	Opening Depreciation As At 01.04.2023	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2024	Net Block As At 31.03.2024	Net Block As At 31.03.2023
20. Plant and machinery(including associated civil works) -Right of use Asset	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21. Furniture and fixtures	215235972.76	952701.74	(276894.22)	221694543.30	121749879.51	16799035.18	(2005294.20)	136463420.49	85231122.81	93486293.27
22. Assets under S-Kisi Scheme	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23. Vehicles including speedboats / helicopter-Owned	1038368.73	2501650.00	0.00	3540018.73	722970.48	72202.03	0.00	795173.11	2744845.62	315398.25
24. Vehicles including speedboats / helicopter - Right of Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25. Office equipment	12602969.84	1418513.00	(1159487.30)	12861995.54	7773225.04	1170592.27	(339075.09)	8604742.72	4257253.82	4829744.80
26. EDP, WP machines and allied equipment	93753313.32	16529837.72	(1317862.70)	96964288.35	75823469.66	11922330.38	(1306769.07)	74437231.22	22487054.13	17952940.47
27. Construction equipments	105379642.70	1535200.00	0.00	106914842.70	82411457.30	6769444.84	0.00	101300901.96	5474940.84	23168385.66
28. Electrical installations	217777803.11	3896.00	(55152.00)	217726519.11	115523435.90	11747745.11	(33112.08)	127237968.93	90522550.20	102254367.31
29. Communication equipments	31551489.18	1019118.00	955390.51	33525997.69	21252315.32	1908921.43	282498.63	23077733.49	10263258.21	10879172.90
30. Hospital equipments	41402876.33	2357718.33	0.00	43760594.66	20403763.68	4724886.51	0.00	25128650.20	20445358.46	21219112.65
31. Laboratory and [illegible] equipments	19931621.38	4336016.00	0.00	16251631.38	3780486.50	655764.84	0.00	4436245.34	10815386.04	7141140.88
32. Capital Expenditure on assets not owned by the [illegible]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33. [illegible]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note forming part of Balance Sheet
NOTE NO. 2 TO THE FS-NCA-PROPERTY, PLANT AND EQUIPMENT
Business Area :1011

(Amount in Rupees)

Asset Class	Opening Gross Block As At 01.04.2023	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2024	Opening Depreciation As At 01.04.2023	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2024	Net Block As At 31.03.2024	Net Block As At 31.03.2023
34 Less:Grants from Government	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35 Less: Recoverable from GOI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36 Assets for sale utilisation	159411285.52	590000.00	0.00	160001285.52	0.00	0.00	0.00	0.00	160001285.52	159411285.52
37 (Less) -Adjusted from By sale utilisation reserve fund	159411285.52	0.00	0.00	159411285.52	0.00	0.00	0.00	0.00	159411285.52	159411285.52
38 Site Restoration Cost	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39 Mining Properties	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand Total (Tangible)	5173755791.03	2139571411.79	2441599329.33	5445163874.49	2276784692.12	1960521583.66	(408192647.02)	2433063608.64	3011200265.85	2897040498.91
Grand Total Prev Year (Tangible)	5097454500.59	615021764.05	(539746360.51)	5173755791.03	2061845040.95	343463118.71	(269523510.14)	2276784692.12	2897040498.91	3035609459.64

Note forming part of Balance Sheet
NOTE NO. 2 TO THE FS-NCA-PROPERTY, PLANT AND EQUIPMENT
Business Area :1011

(Amount in Rupees)

Details of Adjustments of Gross Block and Depreciation/Amortization				
Particulars	**Gross Block**		**Depreciation/Amortization**	
	Tangible As At: 31.03.2024	**Tangible As At: 31.03.2023**	**Tangible As At: 31.03.2024**	**Tangible As At: 31.03.2023**
Disposal of assets	(9488985.58)	(2479299.81)	(9488985.58)	(2428540.54)
Retirement of assets	(433464156.16)	(328897206.71)	(399957298.17)	(270716113.27)
Cost adjustments	0.00	0.00	0.00	0.00
Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Depreciation on construction equipment capitalised as EDC	0.00	0.00	0.00	0.00
Prior Period Depreciation due to Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Special Depreciation (As per New Policy)	0.00	0.00	0.00	0.00
Transfer in /out because of Inter Unit transfers	1092677.69	9552269.28	1091750.69	7391483.40
Others	161685.74	(42052128.37)	161685.74	69654.27
TOTAL	**(441698328.33)**	**(363746365.61)**	**(408192647.32)**	**(265683516.14)**

Note : Additions during the year includes capital expenditure towards CSR (in Rs.) : 0.00

Note forming part of Balance Sheet
NOTE NO. 3 TO THE FS-NCA-CAPITAL WORK-IN-PROGRESS
Business Area: NATIONAL CAPITAL POWER STATION

(Amount in Rupees)

Sl No	Asset Class	As At 01.04.2023	Addition	Deduction/ Adjustment	Capitalised	As At 31.03.2024
	1	2	3	4	5	6
1	CAPITAL WORK-IN-PROGRESS					
2	Development of land					
3	Roads, bridges, culverts & helipads	7724908.99	16078030.13	(1085600.00)		22117339.12
4	Piling and foundation					
5	Buildings :					
6	Main plant	7080134.29	4889404.06	(834203.72)		11735334.63
7	Others		5874.99	(5874.99)		
8	Temporary sheds					
9	Water supply, drainage and sewerage system		179065.00	(179065.00)		
10	Hydraulic works, barrages, dams, tunnels and power channels					
11	MGR track and signalling system	60000000.00				60000000.00
12	Railway siding					
13	Tariff plant machine	12867249.69	7102561.69	(1842562.53)		18127248.85
14	Plant and equipment	2866479335.41	8784156.48	(2230192.366.65)	1499331341.43	1161920945.52
15	Furniture and fixtures	375491.63	1102500.00	(38976.00)	1102500.23	539514.80
16	Vehicles					
17	Office equipment	949983.95	1795586.74	(56096.30)	1894490.79	
18	EDP/WP machines & peripheral equipment					
19	Construction equipments					
20	Electrical installations					
21	Communication equipment					
22	Hospital equipments					
23	Laboratory and workshop equipments					
24	Amortisation 5% Scheme of the GOI					
25	Capital expenditure on assets not owned by the company		276547.65	(276547.65)		
26	Expenditure towards development of coal mines					
27	Survey Investigation Consultancy & Supervision Chg					
28	Difference in exchange on foreign currency loans					

Note forming part of Balance Sheet
NOTE NO. 3 TO THE FS-NCA-CAPITAL WORK-IN-PROGRESS
Business Area: NATIONAL CAPITAL POWER STATION

(Amount in Rupees)

Sr No	Asset Class	As At 01.04.2023	Addition	Deduction/ Adjustment	Capitalised	As At 31.03.2024
	1	2	3	4	5	6
29	Expenditure towards diversion of forest land					
30	Pre-commencing revenue (net)					
31	Expenditure after or without Project					
32	Expenditure During Construction Period (net)*		52980687.02			52980687.02
33	LESS : Allocation to related works		52980687.02			52980687.02
34	LESS : Provision for Unrecoverable works					
35	Construction stores (At Cost)					
36	Steel	7139667.24	10020980.88	(10523476.71)		7583369.41
37	Cement	2847116.55		278667.29		3165783.84
38	Others	25795717.91	526687.03	(11100913.59)		15221491.25
39	Sub-total	35873721.68	11468647.91	(21404725.01)		25934644.50
40	LESS : Provision for shortages					
41	Sub-total	35873721.68	11468647.91	(21404725.01)		25934644.50
42	Total CWIP	2266457165.49	965326206.16	(265864925.34)	1502368427.42	1463532638.81
43						
44						
45	PREVIOUS YEAR TOTAL	768092156.87	632877143.05	(200513668.33)	1778202051.78	2266457165.49

Note:- Additions during the year includes capital expenditure towards CSR (in Rs.) : 0.00

Note forming part of Balance Sheet
NOTE NO. 4 TO THE FS-NCA-INVESTMENT PROPERTY
Business Area :1011

(Amount in Rupees)

Asset Class	Opening Gross Block As At 01.04.2023	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2024	Opening Depreciation As At 01.04.2023	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2024	Net Block As At 31.03.2024	Net Block As At 31.03.2023
INVESTMENT PROPERTY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1 Free Hold Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 NOU Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand Total (Investment Property)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand Total Prev Year (Investment Property)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note forming part of Balance Sheet
NOTE NO. 4 TO THE FS-NCA-INVESTMENT PROPERTY
Business Area :1011

(Amount in Rupees)

Details of Adjustments of Gross Block and Depreciation/Amortization				
Particulars	Gross Block		Depreciation/Amortization	
	Investment Property As At: 31.03.2024	Investment Property As At: 31.03.2023	Investment Property As At: 31.03.2024	Investment Property As At: 31.03.2023
Disposal of assets	0.00	0.00	0.00	0.00
Retirement of assets	0.00	0.00	0.00	0.00
Cost adjustments	0.00	0.00	0.00	0.00
Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Depreciation on construction equipment capitalised as EDC	0.00	0.00	0.00	0.00
Prior Period Depreciation due to Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Special Depreciation (As per New Policy)	0.00	0.00	0.00	0.00
Transfer in /out because of Inter Unit transfers	0.00	0.00	0.00	0.00
Others	0.00	0.00	0.00	0.00
TOTAL	**0.00**	**0.00**	**0.00**	**0.00**

Note - Additions during the year includes capital expenditure towards CSR (in Rs.) : 0.00

Note forming part of Balance Sheet
NOTE NO. 5 TO THE FS-NCA-INTANGIBLE ASSETS
Business Area :1011

(Amount in Rupees)

Asset Class	Opening Gross Block As At 01.04.2023	Additions	Deductions/ Adjustments	Closing Gross Block As At 31.03.2024	Opening Depreciation As At 01.04.2023	Additions	Deductions/ Adjustments	Closing Depreciation As At 31.03.2024	Net Block As At 31.03.2024	Net Block As At 31.03.2023
INTANGIBLE ASSETS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1 Right to Use- Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 -Others	1971660852.48	0.00	0.00	1971660852.48	798450849.05	99854706.70	0.00	898315555.75	1073345596.93	1173410303.61
3 -Software	3835989.63	0.00	0.00	3835989.63	3271613.01	260424.67	0.00	3532037.68	303952.15	564166.62
Grand Total (Intangible)	1975496842.48	0.00	0.00	1975496842.48	801722362.06	100115131.37	0.00	901847493.43	1073649349.05	1173974469.43
Grand Total Prev Year (Intangible)	1974005132.48	756774.00	33946.00	1975496852.48	701150611.55	100520804.51	33946.00	801722362.06	1173974490.43	1273736380.94

Note forming part of Balance Sheet
NOTE NO. 5 TO THE FS-NCA-INTANGIBLE ASSETS
Business Area :1011

(Amount in Rupees)

Details of Adjustments of Gross Block and Depreciation/Amortization				
Particulars	Gross Block		Depreciation/Amortization	
	InTangible As At: 31.03.2024	InTangible As At: 31.03.2023	InTangible As At: 31.03.2024	InTangible As At: 31.03.2023
Disposal of assets	0.00	0.00	0.00	0.00
Retirement of assets	0.00	0.00	0.00	0.00
Cost adjustments	0.00	0.00	0.00	0.00
Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Depreciation on construction equipment capitalised as EDC	0.00	0.00	0.00	0.00
Prior Period Depreciation due to Assets capitalised with retrospective effect / Write back of excess capitalisation	0.00	0.00	0.00	0.00
Special Depreciation (As per New Policy)	0.00	0.00	0.00	0.00
Transfer in /out because of Inter Unit transfers	0.00	32946.00	0.00	32946.00
Others	0.00	0.00	0.00	0.00
TOTAL	**0.00**	**32946.00**	**0.00**	**32946.00**

Note : Additions during the year includes capital expenditure towards CSR (in Rs.) : 0.00

Note forming part of Balance Sheet

(Amount in Rupees)

NOTE NO. 6 TO THE FS-NCA-INTANGIBLE ASSETS UNDER DEVELOPMENT

Business Area: NATIONAL CAPITAL POWER STATION

Sl No	Asset Class	As At 01.04.2023	Addition	Deduction/ Adjustment	Capitalised	As At 31.03.2024
	1	2	3	4	5	6
1	INTANGIBLE ASSETS UNDER DEVELOPMENT					
2	Software					
3	Right to use Drivers					
4	Exploration and Evaluation Expenditure - Coal Mine					
5	Exploratory wells-in-progress					
6	Less: Provision for exploratory wells-in-progress					
7	Total					
8	PREVIOUS YEAR TOTAL-I					

Note:- Additions during the year includes capital expenditure towards CSR (in Rs.) : 0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 7 TO THE FS-NCA-EQUITY INVESTMENTS IN SUBSIDIARIES AND JOINT VENTURES

(Amount in ₹)

	As at	No. of shares	Face value	31.03.2024	31.03.2023
011	**NON CURRENT INVESTMENTS-INVESTMENTS IN SUBSIDIARIES AND JOINT VENTURES**			[illegible]	[illegible]
012	**EQUITY INSTRUMENTS - UNQUOTED-(FULLY PAID UP UNLESS OTHERWISE STATED, AT COST).**			[illegible]	[illegible]
013	**SUBSIDIARY COMPANIES**			[illegible]	[illegible]
014	PATRATU VIDYUT UTPADAN NIGAM LTD			[illegible]	[illegible]
015	NTPC ELECTRIC SUPPLY COMPANY LTD			[illegible]	[illegible]
016	NTPC VIDYUT VYAPAR NIGAM LTD			[illegible]	[illegible]
017	NABINAGAR POWER GENERATING COMPANY LTD			[illegible]	[illegible]
018	KANTI BIJLEE UTPADAN NIGAM LTD			[illegible]	[illegible]
019	BHARTIYA RAIL BIJLEE COMPANY LTD			[illegible]	[illegible]
020	NTPC MINING LTD (NML)			[illegible]	[illegible]
021	TUDC INDIA LTD			[illegible]	[illegible]
022	NEEPCO LTD			[illegible]	[illegible]
023	NTPC EDMC Waste Solutions Pvt Ltd			[illegible]	[illegible]
024	NTPC Renewables Energy Ltd			[illegible]	[illegible]
025	Rabnagar Gas & Power Pvt Limited (RGPPL)			[illegible]	[illegible]
026	NTPC Green Energy Limited			[illegible]	[illegible]
027	Green Valley Renewable Energy Limited			[illegible]	[illegible]
028				[illegible]	[illegible]
029				[illegible]	[illegible]
030	**SUB TOTAL**			[illegible]	[illegible]
031	**JOINT VENTURE COMPANIES**			[illegible]	[illegible]
032	Utility Powertech Ltd.			[illegible]	[illegible]
033	NTPC GE Power Services Pvt Ltd			[illegible]	[illegible]
034	NTPC SAIL Power Company Ltd.			[illegible]	[illegible]
035	NTPC Tamil Nadu Energy Company Ltd			[illegible]	[illegible]

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 7 TO THE FS-NCA-EQUITY INVESTMENTS IN SUBSIDIARIES AND JOINT VENTURES

(Amount in ₹)

	As at	No. of shares	Face value	31.03.2024	31.03.2023
060	Ratnagiri Gas & Power Pvt. Limited (RGPPL)			0.00	0.00
061	ARAVALI POWER COMPANY PRIVATE LTD.			0.00	0.00
062	Jhabua Power Ltd.			0.00	0.00
063	NTPC SNEL POWER PROJECTS PRIVATE LTD.			0.00	0.00
064	MEJA URJA NIGAM PRIVATE LIMITED			0.00	0.00
065	BF NTPC ENERGY SYSTEMS LTD.			0.00	0.00
066				0.00	0.00
067	NABINAGAR POWER GENERATING COMPANY LTD.			0.00	0.00
068	TRANSFORMER AND ELECTRICAL KERALA LTD.			0.00	0.00
069	NATIONAL HIGH POWER TEST LABORTORY PRIVATE LTD.			0.00	0.00
070				0.00	0.00
071	CIL NTPC URJA PRIVATE LTD.			0.00	0.00
072	ANUSHAKTI VIDHYUT NIGAM LTD.			0.00	0.00
073	ENERGY EFFICIENCY SERVICES LTD.			0.00	0.00
074				0.00	0.00
075	TRINCOMALEE POWER COMPANY LTD.			0.00	0.00
076	BANGLADESH IRAQ FRIENDSHIP POWER COMPANY PVT. LTD.			0.00	0.00
077	HINDUSTAN URVARAK & RASAYAN LIMITED			0.00	0.00
078	KOHIMAN LNG LTD.			0.00	0.00
079	**SUB TOTAL**			**0.00**	**0.00**
109	AGGREGATE AMOUNT OF IMPAIRMENT IN THE VALUE OF INVESTMENTS			0.00	0.00
110	TOTAL (NET OF IMPAIRMENT) OF JV			0.00	0.00
111	**Gross Total of Investments**			**0.00**	**0.00**
134	**Total**			**0.00**	**0.00**
135	Details of Investments			Document verified by PARWAN SINGH PRUSH (Parwan@ntpc.co.in)	
136	Aggregate amount of Unquoted Investments			0.00	

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NATIONAL CAPITAL POWER STATION

NOTE NO. 7 TO THE FS-NCA-EQUITY INVESTMENTS IN SUBSIDIARIES AND JOINT VENTURES

(Amount in ₹)

	As at	No. of shares	Face value	31.03.2024	31.03.2023
141				0.00	0.00
142				0.00	0.00
143				0.00	0.00
144				0.00	0.00
145				0.00	0.00
152	Valuation of investments as per Note 1.			0.00	0.00
154				0.00	0.00
202				0.00	0.00
203				0.00	0.00

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 8 TO THE FS-NCA-OTHER INVESTMENTS

[Amount in ₹]

	As at	No. of shares	Face value	31.03.2024	31.03.2023
005	Non-current financial assets (investments)			0.00	0.00
006	**Long Term - Trade**			**0.00**	**0.00**
007	**Equity Instruments (fully paid up unless otherwise stated)**			**0.00**	**0.00**
008	**Quoted**			**0.00**	**0.00**
009	**JOINT VENTURE COMPANIES**			**0.00**	**0.00**
010	PTC India Ltd.			0.00	0.00
070	INTERNATIONAL COAL VENTURES PRIVATE LTD			0.00	0.00
075	BF-NTPC ENERGY SYSTEMS LTD.			0.00	0.00
098	Jhabua Power Limited 8.5% Non convertible debentures - private placement			0.00	0.00
110	COOPERATIVE SOCIETIES			0.00	0.00
111				0.00	0.00
112	**SUB TOTAL**			**0.00**	**0.00**
113	AGGREGATE AMOUNT OF IMPAIRMENT IN THE VALUE OF INVESTMENTS			0.00	0.00
115	**TOTAL**			**0.00**	**0.00**
133				0.00	0.00
146	NTPC EMPLOYEES CONSUMERS AND THRIFT CO-OPERATIVE SOCIETY LTD KORBA			0.00	0.00
147	NTPC EMPLOYEES CONSUMERS AND THRIFT COOPERATIVE SOCIETY LTD RSTPP			0.00	0.00
148	NTPC EMPLOYEES CONSUMERS COOPERATIVE SOCIETY LTD. FARAKKA			0.00	0.00
149	NTPC EMPLOYEES CONSUMERS COOPERATIVE SOCIETY LTD. VINDHYACHAL			0.00	0.00
150	NTPC EMPLOYEES CONSUMERS COOPERATIVE SOCIETY LTD. ANTA			0.00	0.00
151	NTPC EMPLOYEES CONSUMERS COOPERATIVE SOCIETY LTD. NAVAS			0.00	0.00
152	NTPC Employees Consumers Cooperative Society Ltd. Kawas			0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 9 TO THE FS-NCA-LOANS (Amount in ₹)

	As at	31.03.2024	31.03.2023
001	**LOANS (NON CURRENT)**	**0.00**	**0.00**
004	RELATED PARTIES	0.00	0.00
005	SECURED	0.00	0.00
006	UN-SECURED	0.00	0.00
007	WITH SIGNIFICANT INCREASE IN CREDIT RISK	0.00	0.00
008	CREDIT IMPAIRED	0.00	0.00
009		0.00	0.00
010	EMPLOYEES(INCLUDING ACCRUED INTEREST)	0.00	0.00
011	SECURED	216,616,347.45	163,386,645.58
012	UNSECURED	142,865,298.68	128,780,322.42
013	WITH SIGNIFICANT INCREASE IN CREDIT RISK	0.00	0.00
014	CREDIT IMPAIRED	0.00	0.00
015	LESS : EMPLOYEE LOANS DISCOUNTING	0.00	0.00
016	SECURED	50,708,255.69	42,506,542.68
017	UNSECURED	22,575,826.46	21,443,722.57
018	LOAN TO STATE GOVERNMENT IN SETTLEMENT OF DUES FROM CUSTOMERS (UNSECURED)	0.00	0.00
019	OTHERS	0.00	0.00
020	SECURED	0.00	0.00
021	UNSECURED	0.00	0.00
022	WITH SIGNIFICANT INCREASE IN CREDIT RISK	0.00	0.00
023	CREDIT IMPAIRED	0.00	0.00
024	LESS: ALLOWANCE FOR CREDIT IMPAIRED LOANS	0.00	0.00
025	**SUB TOTAL**	**286,137,563.98**	**248,216,702.75**
027		0.00	0.00
028	**TOTAL**	**286,137,563.98**	**248,216,702.75**
029		0.00	0.00
030		0.00	0.00
031	**Due from Directors and Officers of the Company**	**0.00**	**0.00**
032	Directors	0.00	0.00
033	Officers	0.00	0.00
034		**0.00**	**0.00**
035	**Loans to related parties include:**	**0.00**	**0.00**
036	i)Key management personel	0.00	0.00
037	ii)Subsidiary companies	0.00	0.00
038	iii)Joint Venture companies	0.00	0.00
039	iv)Others	0.00	0.00
040		**0.00**	**0.00**
055	Other loans represent loans given to	0.00	0.00
056	a) APHC	0.00	0.00
061		0.00	0.00
062	RPD	0.00	0.00
063	i)Key management personel	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 9 TO THE FS-NCA-LOANS

(Amount in ₹)

	As at	31.03.2024	31.03.2023
064	ii)Subsidiary companies	0.00	0.00
065	iii)Joint Venture companies	0.00	0.00
066	iv)Others	0.00	0.00
067	**Total**	**0.00**	**0.00**

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 10 TO THE FS-NCA-TRADE RECEIVABLES

(Amount in ₹)

	As at	31.03.2024	31.03.2023
001	Non-current financial assets - Trade receivables	0.00	0.00
002	UNSECURED, CONSIDERED GOOD	0.00	0.00
003	CREDIT IMPAIRED	0.00	0.00
004		0.00	0.00
006	**Total**	**0.00**	**0.00**

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Reason: AOC (Commercial)
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

ANNEXURE TO NOTE 9- RPD (LOANS) SUBSIDIARIES

(Amount in ₹)

	As at	31.03.2024	31.03.2023
010		0.00	0.00

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Reason: AOC (Commercial)
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 11 TO THE FS-NCA-OTHER FINANCIAL ASSETS

(Amount in ₹)

	As at	31.03.2024	31.03.2023
001	**Other Financial Assets (non current)**	**0.00**	**0.00**
002		0.00	0.00
003	**Share application money pending allotment in (Subsidiary Companies) :**	**0.00**	**0.00**
004	NTPC Electric Supply Company Ltd.	0.00	0.00
005	NTPC Vidyut Vyapar Nigam Ltd.	0.00	0.00
006	Nabinagar Power Generating Company Ltd.	0.00	0.00
007	Kanti Bijlee Utpadan Nigam Ltd.	0.00	0.00
008	Bhartiya Rail Bijlee Company Ltd.	0.00	0.00
009	Patratu Vidyut Utpadan Nigam Ltd.	0.00	0.00
010	NTPC Mining Limited	0.00	0.00
011	THDC Ltd.	0.00	0.00
012	NEEPCO Ltd	0.00	0.00
013		0.00	0.00
014	**Total**	**0.00**	**0.00**
015	**Share application money pending allotment (Joint Venture)**	**0.00**	**0.00**
016	Utility Powertech Ltd.	0.00	0.00
017	NTPC GE Power Services Pvt.Ltd.	0.00	0.00
018	NTPC-SAIL Power Company Ltd.	0.00	0.00
019	NTPC-Tamil Nadu Energy Company Ltd.	0.00	0.00
020	Ratnagiri Gas & Power Private Ltd.	0.00	0.00
021	Aravali Power Company Private Ltd.	0.00	0.00
022		0.00	0.00
023	NTPC BHEL Power Projects Private Ltd.	0.00	0.00
024	Meja Urja Nigam Private Limited	0.00	0.00
025	BF-NTPC Energy Systems Ltd.	0.00	0.00
026	Anushakti Vidhyut Nigam Ltd.	0.00	0.00
027	Nabinagar Power Generating Company Ltd.	0.00	0.00
028	Energy Efficiency Services Ltd.	0.00	0.00
029	National High Power Test Labortory Private Ltd.	0.00	0.00
030		0.00	0.00
031	CIL NTPC Urja Private Ltd.	0.00	0.00
032	Trincomalee Power Company Ltd.	0.00	0.00
033	Hindustan Urvarak & Rasayan Limited	0.00	0.00
034	Bangladesh-India Friendship Power Company Private Ltd.	0.00	0.00
035	**Sub Total**	**0.00**	**0.00**
036		0.00	0.00
037	Claims Recoverable	0.00	0.00
038	Finance Lease Recoverable	0.00	0.00
039	Mine Closure Deposit	0.00	0.00
040	Financial Deposit	0.00	0.00
041		0.00	0.00
042	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 12 TO THE FS-NCA-OTHER NON-CURRENT ASSETS

(Amount in ₹)

	As at	31.03.2024	31.03.2023
001	**Other Non-current Assets**	**0.00**	**0.00**
002		**0.00**	**0.00**
003	**CAPITAL ADVANCES**	**0.00**	**0.00**
004	SECURED	0.00	0.00
005	Unsecured	0.00	0.00
006	COVERED BY BANK GUARANTEE	680,447.82	33,730,262.22
007	OTHERS	290,249,634.75	201,607,439.89
008	CONSIDERED DOUBTFUL	18,572,609.00	18,572,609.00
009	LESS: ALLOWANCE FOR BAD & DOUBTFUL ADVANCES	18,572,609.00	18,572,609.00
010	**Sub-Total**	**290,930,082.57**	**235,337,702.11**
011		0.00	0.00
012	Advances other than capital advances	0.00	0.00
013	SECURITY DEPOSITS	11,789,776.00	5,498,200.00
019	Advances to Related parties	0.00	0.00
022	**Advances to Contractors & Suppliers**	**0.00**	**0.00**
023	SECURED	0.00	0.00
024	UNSECURED	0.00	0.00
025	CONSIDERED DOUBTFUL	0.00	0.00
026	LESS: ALLOWANCE FOR BAD & DOUBTFUL ADVANCES	0.00	0.00
027	**Sub Total**	**11,789,776.00**	**5,498,200.00**
028	RECEIVABLE FROM MCP ESCROW A/C	0.00	0.00
029	Pre Paid expenses	0.00	0.00
039	ADVANCE TAX & TAX DEDUCTED AT SOURCE	27,529,747.00	27,045,581.51
040	LESS:- PROVISION FOR CURRENT TAX	0.00	0.00
041		0.00	0.00
042	**Sub Total**	**27,529,747.00**	**27,045,581.51**
043	DEFERRED PAYROLL EXPENSES (SECURED)	34,507,227.71	32,260,347.09
044	DEFERRED PAYROLL EXPENSES (UNSECURED)	16,823,028.45	15,806,078.24
045	**Sub Total**	**51,330,256.16**	**48,066,425.33**
046	DEFERRED FOREIGN CURRENCY FLUCTUATION ASSET	1,000.00	1,000.00
049		0.00	0.00
050	**Total**	**371,580,861.73**	**315,948,908.95**
051		0.00	0.00
052		0.00	0.00
062	Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies	0.00	0.00
064		0.00	0.00
065	NTPC GE Power Services Pvt.Ltd.	0.00	0.00
066		0.00	0.00
067	Ratnagiri Gas & Power Private Ltd.	0.00	0.00
068	Aravali Power Company Private Ltd.	0.00	[illegible]
069	NTPC-SCCL Global Ventures Private Ltd.	0.00	[illegible]

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NATIONAL CAPITAL POWER STATION

NOTE NO. 12 TO THE FS-NCA-OTHER NON-CURRENT ASSETS

(Amount in ₹)

	As at	31.03.2024	31.03.2023
070	NTPC BHEL Power Projects Private Ltd.	0.00	0.00
071	Meja Urja Nigam Private Limited	0.00	0.00
072	Nabinagar Power Generating Company Ltd.	0.00	0.00
073	National High Power Test Labortory Private Ltd.	0.00	0.00
075	CIL NTPC Urja Private Ltd.	0.00	0.00
077		0.00	0.00
078	**Related Party (Adv)**	**0.00**	**0.00**
079	Key Management personel	0.00	0.00
080	Subsidiary companies	0.00	0.00
081	Joint Venture companies	0.00	0.00
082	Contractors	0.00	0.00
083	Others	0.00	0.00
085		0.00	0.00
086	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 13 TO THE FS-CA-INVENTORIES (Amount in ₹)

	As at	31.03.2024	31.03.2023
001	**INVENTORIES**	**0.00**	**0.00**
002		**0.00**	**0.00**
003	Coal	5,302,335,169.37	2,992,712,989.91
004	Fuel oil	335,484,175.40	282,747,188.61
005	Naphtha	0.00	0.00
006	Stores and spares	1,430,473,345.96	1,396,393,738.73
007	Chemicals & consumables	176,275,661.49	156,056,304.35
008	Loose tools	6,182,745.46	5,142,130.42
009	Others	426,683,429.00	466,602,556.31
010		0.00	0.00
011		0.00	0.00
012	**Sub Total**	**7,677,414,526.68**	**5,301,354,908.34**
013	Less: Provision for shortages	763,228.17	8,541,840.75
014	Less: Provision for obsolete/ unservicable/diminution in value of surplus inventory	90,562,348.05	88,321,301.30
016		0.00	0.00
017	**Total**	**7,586,088,950.46**	**5,206,491,766.29**
018	**Inventories include material in transit**	**0.00**	**0.00**
019	Coal	308,768,520.59	235,980,102.03
020	Fuel oil	0.00	0.00
021	Naphtha	0.00	0.00
022	Stores and spares	6,287,625.00	10,643,730.95
023	Chemicals & consumables	0.00	2,054,007.62
024	Loose tools	0.00	0.00
025	Others	0.00	409,916.43
026		**0.00**	**0.00**
027		0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 14 TO THE FS-CA-OTHER INVESTMENTS

(Amount in ₹)

	As at	No. of shares	Face value	31.03.2024	31.03.2023
001	**CURRENT INVESTMENTS**			[illegible]	[illegible]
002	**(Valuation as per Note 1)**			[illegible]	[illegible]
003	Jhabua Power Limited-8.5% Non convertible debentures - private placement			[illegible]	[illegible]
030	Investment in Mutual Funds (Details as under)			[illegible]	[illegible]
004	SBI-Magnum Insta Cash Fund-DDR			[illegible]	[illegible]
035	SBI Premier Liquid Fund Super-IP-DDR			[illegible]	[illegible]
036	Sbi-SHF Ultra Short Term Fund-IP-DDR			[illegible]	[illegible]
037	UTI Money Market IP-Dividend-Growth			[illegible]	[illegible]
038	IDBI Liquid plan- Direct-Growth			[illegible]	[illegible]
039	Canara Robeco Liquid Fund Super-IP-DDR			[illegible]	[illegible]
040	Canara Robeco Treasury Advantage Fund Super-IP-DDR			[illegible]	[illegible]
043	IDBI Liquid Fund-DDR			[illegible]	[illegible]
042	SBI Premier Liquid fund-Direct DDR (Ash Fund)			[illegible]	[illegible]
043	UTI Liquid Cash Plan - IP - DDR (Ash Funds)			[illegible]	[illegible]
044	IDBI Liquid Fund - DDR - (Ash Funds)			[illegible]	[illegible]
045	Baroda Liquid Fund - Direct - Growth			[illegible]	[illegible]
046				[illegible]	[illegible]
047				[illegible]	[illegible]
048	**Sub Total**			[illegible]	[illegible]
049				[illegible]	[illegible]
052	**Unquoted Investments**			[illegible]	[illegible]
054				[illegible]	[illegible]
056	**TOTAL**			[illegible]	[illegible]
057				[illegible]	[illegible]

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NATIONAL CAPITAL POWER STATION

NOTE NO. 15 TO THE FS-CA-TRADE RECEIVABLES

(Amount in ₹)

	As at	31.03.2024	31.03.2023
001	**TRADE RECEIVABLES (current)***	**0.00**	**0.00**
002		0.00	0.00
003	Secured,Considered Good	0.00	0.00
004	Unsecured , considered good	1,025,410.11	0.00
005	Credit impaired	0.00	0.00
006	Unbilled Revenue	0.00	0.00
007	**Sub-Total**	**1,025,410.11**	**0.00**
008	**Total**	**1,025,410.11**	**0.00**
009	Less: Allowance for credit impaired receivables	0.00	0.00
010	**Total**	**1,025,410.11**	**0.00**
012	Less: Discom Clearing	0.00	0.00
014		0.00	0.00
015	**Grand Total**	**1,025,410.11**	**0.00**
016	Other Unsecured	0.00	0.00
017	Long-term trade receivables	0.00	0.00
018	TCS Clearing	0.00	0.00
019	Discom Clearing	0.00	0.00
228	**Trade Receivable**	**0.00**	**0.00**
230	Not due	0.00	0.00
231	Due	0.00	0.00
232	(i) Undisputed Trade receivables # considered good	1,025,410.11	0.00
233	(ii) Undisputed Trade Receivables # which have significant increase in credit risk	0.00	0.00
234	(iii) Undisputed Trade Receivables # credit impaired	0.00	0.00
235	(iv) Disputed Trade Receivables#considered good	0.00	0.00
236	(v) Disputed Trade Receivables # which have significant increase in credit risk	0.00	0.00
237	(vi) Disputed Trade Receivables # credit impaired	0.00	0.00
238	Unbilled	0.00	0.00
239	**Total**	**1,025,410.11**	**0.00**
240		0.00	0.00
241	**(i) Undisputed Trade receivables # considered good**	**0.00**	**0.00**
242	Less than 6 months	1,025,410.11	0.00
243	6 months -1 year	0.00	0.00
244	1-2 years	0.00	0.00
245	2-3 years	0.00	0.00
246	More than 3 years	0.00	0.00
247	**Sub Total (i)**	**1,025,410.11**	**0.00**
248	**(ii) Undisputed Trade Receivables # which have significant increase in credit risk**	**0.00**	**0.00**
249	Less than 6 months	0.00	0.00
250	6 months -1 year	0.00	0.00
251	1-2 years	0.00	0.00
252	2-3 years	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 15 TO THE FS-CA-TRADE RECEIVABLES

(Amount in ₹)

	As at	31.03.2024	31.03.2023
253	More than 3 years	0.00	0.00
254	**Sub Total (II)**	**0.00**	**0.00**
255	**(iii) Undisputed Trade Receivables -credit impaired**	**0.00**	**0.00**
256	Less than 6 months	0.00	0.00
257	6 months -1 year	0.00	0.00
258	1-2 years	0.00	0.00
259	2-3 years	0.00	0.00
260	More than 3 years	0.00	0.00
261	**Sub Total (III)**	**0.00**	**0.00**
262		0.00	0.00
263	**(iv) Disputed Trade Receivables#considered good**	**0.00**	**0.00**
264	Less than 6 months	0.00	0.00
265	6 months -1 year	0.00	0.00
266	1-2 years	0.00	0.00
267	2-3 years	0.00	0.00
268	More than 3 years	0.00	0.00
269	**Sub Total (IV)**	**0.00**	**0.00**
270	**(v) Disputed Trade Receivables # which have significant increase in credit risk**	**0.00**	**0.00**
271	Less than 6 months	0.00	0.00
272	6 months -1 year	0.00	0.00
273	1-2 years	0.00	0.00
274	2-3 years	0.00	0.00
275	More than 3 years	0.00	0.00
276	**Sub Total (V)**	**0.00**	**0.00**
277	**(vi) Disputed Trade Receivables # credit impaired**	**0.00**	**0.00**
278	Less than 6 months	0.00	0.00
279	6 months -1 year	0.00	0.00
280	1-2 years	0.00	0.00
281	2-3 years	0.00	0.00
282	More than 3 years	0.00	0.00
283	**Sub Total (VI)**	**0.00**	**0.00**

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Reason: AOC Commercial
Location: NTPC Limited

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NATIONAL CAPITAL POWER STATION

NOTE NO. 16 TO THE FS-CA-CASH AND CASH EQUIVALENTS (Amount in ₹)

	As at	31.03.2024	31.03.2023
001	**CASH & BANK BALANCES**	**0.00**	**0.00**
002	**Cash & Cash Equivalents**	**0.00**	**0.00**
003	Balances with Banks	0.00	0.00
004	Cheques & Drafts on hand	0.00	0.00
005	Cash on hand	0.00	0.00
006	Others (stamps in hand)	0.00	62,772.00
007	Bank deposits with original maturity upto three months	0.00	0.00
008	Balances with RBI	0.00	0.00
009		0.00	0.00
011	**Total**	**0.00**	**62,772.00**

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Reason: AOA Commercial
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 17 TO THE FS-CA-BANK BALANCES OTHER THAN CASH AND CASH EQUIVALENTS (Amount in ₹)

	As at	31.03.2024	31.03.2023
001	**Other Bank Balances**	**0.00**	**0.00**
002	Deposits with original maturity of more than three months but not more than twelve months	0.00	0.00
003	Earmarked balances with banks*	0.00	0.00
004	**SubTotal**	**0.00**	**0.00**
005	Interest accrued on deposits	0.00	0.00
006		0.00	0.00
008	**Total**	**0.00**	**0.00**
009		0.00	0.00
010	**Earmarked balances with banks consist of :**	**0.00**	**0.00**
011	Unpaid dividend account balance	0.00	0.00
012	Towards public deposit repayment reserve	0.00	0.00
013	Towards redemption of bonds due for repayment within one year	0.00	0.00
014	Security with Government/other authorities	0.00	0.00
015	Unpaid refund/interest account balance - Tax free bonds/ Bonus Debentures	0.00	0.00
016	Earmarked for RGGVY/DDUGJY/SAUBHAGYA Fund/RDSS	0.00	0.00
017	Earmarked for Flyash Utilisation Reserve Fund	0.00	0.00
018	Deposits with original maturity upto three months as per court orders	0.00	0.00
019	Payment Security Scheme of MNRE NSM (NTPC)	0.00	0.00
020	Payment Security Scheme of MNRE NSM (NVVN)	0.00	0.00
021	Enforcement Directorate of Solar Plant(NVVN)	0.00	0.00
022	Bank guarantee Fund of MNRE (NVVN)	0.00	0.00
023	Others	0.00	0.00
024	Margin Money	0.00	0.00
025		0.00	0.00
026		0.00	0.00
027		0.00	0.00
031	**Total**	**0.00**	**0.00**
032		0.00	0.00
033	Bank deposits with original maturity of less than three months- other than earmarked	0.00	0.00
034	Bank deposits with original maturity of more than three months but not more than twelve months- other than earmarked	0.00	0.00
035	Earmarked bank balances (current account)	0.00	0.00

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Reason: AOA (Commercial)
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 18 TO THE FS-CA-LOANS

(Amount in ₹)

	As at	31.03.2024	31.03.2023
001	**Current financial assets - Loans**	**0.00**	**0.00**
002	**Loans (current)-including interest accrued**	**0.00**	**0.00**
004	**Related Parties**	**0.00**	**0.00**
005	Secured	0.00	0.00
006	Un-Secured	0.00	0.00
007	With significant increase in Credit Risk	0.00	0.00
008	Credit impaired	0.00	0.00
009		**0.00**	**0.00**
010	**Employees**	**0.00**	**0.00**
011	Secured	44,510,265.72	41,723,301.64
012	Unsecured	93,628,941.66	95,480,483.81
013	With significant increase in Credit Risk	0.00	0.00
014	Credit impaired	0.00	0.00
015	Less : Employee Loans Discounting	0.00	0.00
016	**Loan to State Government in settlement of dues from customers (Unsecured)**	**0.00**	**0.00**
017		0.00	0.00
018	**Others**	**0.00**	**0.00**
019	Secured	0.00	0.00
020	Unsecured	0.00	0.00
021	With significant increase in Credit Risk	0.00	0.00
022	Credit impaired	0.00	0.00
023		**0.00**	**0.00**
024	Less: Allowance for credit impaired loans	0.00	0.00
026		0.00	0.00
027	**Total (Loans)**	**138,139,207.38**	**137,203,785.45**
028		**0.00**	**0.00**
029	**Due from Directors and Officers of the Company**	**0.00**	**0.00**
030	Directors	0.00	0.00
031	Officers	0.00	0.00
032		**0.00**	**0.00**
033	**Loans to related parties include:**	**0.00**	**0.00**
034	i)Key management personel	0.00	0.00
035	ii)Subsidiary companies	0.00	0.00
036	KBUNL	0.00	0.00
037	RGPPL	0.00	0.00
038	NVVN	0.00	0.00
039	iii)Joint Venture companies	0.00	0.00
040	iv)others	0.00	0.00
041		0.00	0.00
060	R&D	0.00	0.00
061	i)Key management personel	0.00	0.00
062	ii)Subsidiary companies	0.00	0.00
063	iii)Joint Venture companies	0.00	0.00
064	iv)Others	0.00	0.00
065		0.00	0.00

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Date: 2024.[illegible] 14:28:15 IST
Reason: ACA[illegible]
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 18 TO THE FS-CA-LOANS

(Amount in ₹)

	As at	31.03.2024	31.03.2023
066	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 19 TO THE FS-CA-OTHER FINANCIAL ASSETS

(Amount in ₹)

	As at	31.03.2024	31.03.2023
001	**Other Financial Assets (current)**	**0.00**	**0.00**
002		0.00	0.00
003	**ADVANCES**	**0.00**	**0.00**
004		**0.00**	**0.00**
005	**Related Parties**	**0.00**	**0.00**
006	Secured	0.00	0.00
007	Un-Secured	-82,379,427.48	-57,713,524.56
008	Considered doubtful	0.00	0.00
009		**0.00**	**0.00**
010	**Employees**	**0.00**	**0.00**
012	Unsecured	4,278,709.05	6,781,197.90
013	Considered Doubtful	0.00	0.00
014		**0.00**	**0.00**
020	**Others**	**0.00**	**0.00**
021	Secured	0.00	0.00
022	Unsecured	0.00	0.00
023	Considered Doubtful	0.00	0.00
024		**0.00**	**0.00**
025	Less: Allowance for bad & doubtful advances	0.00	0.00
026		**0.00**	**0.00**
033	**Total (Advances)**	**-78,100,718.43**	**-50,932,326.66**
044		**0.00**	**0.00**
045	**Claims Recoverable**	**0.00**	**0.00**
046	Secured	0.00	0.00
047	Unsecured, considered good	19,914,315.74	24,907,393.04
048	Considered Doubtful	0.00	375,353.48
049	Less:- Allowance for doubtful claims	375,353.48	375,353.48
050	Others-Claims Recoverable	0.00	0.00
051		**0.00**	**0.00**
052	Contract Asset- Revenue	996,704,334.76	810,744,895.38
053	Hedging cost recoverable from beneficiaries	0.00	0.00
054	Derivative MTM Asset	0.00	0.00
055	Finance Lease Receivable	0.00	0.00
056	Mine Closure Deposit	0.00	0.00
057	Financial Deposit	0.00	0.00
059	**Other Accrued Income**	**0.00**	**0.00**
060	Secured,Considered Good	0.00	0.00
061	Unsecured , considered good	123,227,324.96	23,604,196.04
062	Credit impaired	0.00	0.00
063		0.00	0.00
064	**Sub-Total**	**123,227,324.96**	**23,604,196.04**
065	Less: Allowance for credit impaired receivables	0.00	0.00
066	**Total**	**123,227,324.96**	**23,604,196.04**
067		0.00	0.00
068	Others*	0.00	0.00
070		0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 19 TO THE FS-CA-OTHER FINANCIAL ASSETS

(Amount in ₹)

	As at	31.03.2024	31.03.2023
071	**Total**	**1,061,369,903.15**	**906,324,157.60**
072	* Other include amount recoverable from contractors and other parties towards hire charges, rent/electricity etc.	0.00	0.00
073	**Advances to related parties include:**	**0.00**	**0.00**
074	i)Key management personal	0.00	0.00
075		0.00	0.00
076	iii)Joint Venture companies	0.00	0.00
077		0.00	0.00
078	v)Others	0.00	0.00
079		**0.00**	**0.00**
080	Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies:	0.00	0.00
081	Related Party (Adv)- Employee	0.00	0.00
082	Related Party (Adv)- Subsidiaries	-82,379,427.48	-57,713,524.56
083	Related Party (Adv)- Joint Ventures	0.00	0.00
084		0.00	0.00
085	Related Party (Adv)- Others	0.00	0.00
086		0.00	0.00
099		0.00	0.00
100		0.00	0.00
101	**Total**	**-82,379,427.48**	**-57,713,524.56**

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Date: 2024 IST 14:29 IST
Reason: AOC (Commercial)
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 20 TO THE FS-CA-OTHER CURRENT ASSETS

(Amount in ₹)

	As at	31.03.2024	31.03.2023
001	**OTHER CURRENT ASSETS**	**0.00**	**0.00**
002	Security Deposits (Unsecured)	0.00	0.00
003	Deposit with Customs, port trust & others*	17,077,316.00	16,877,316.00
004	**ADVANCES**	**0.00**	**0.00**
005		**0.00**	**0.00**
006	**Related Parties**	**0.00**	**0.00**
007	Secured	0.00	0.00
008	Un-Secured	0.00	0.00
009	Considered doubtful	0.00	0.00
010		**0.00**	**0.00**
011	**Employees(including imprest)**	**0.00**	**0.00**
012	Secured	0.00	0.00
013	Unsecured	21,142,068.60	20,903,583.00
014	Considered Doubtful	0.00	0.00
015		**0.00**	**0.00**
016	**Contractors & Suppliers**	**0.00**	**0.00**
017	Secured	0.00	0.00
018	Unsecured	1,537,329,562.43	4,995,657,651.45
019	Considered Doubtful	0.00	0.00
020		0.00	0.00
021	**Others****	**0.00**	**0.00**
022	Secured	0.00	0.00
023	Unsecured	30,596.00	4,899,459.03
024	Considered Doubtful	0.00	0.00
025	Less: Allowance for bad & doubtful advances	0.00	0.00
026	Receivable from MCP Escrow A/c	0.00	0.00
027	Deferred Payroll Expenses (Secured)	4,461,407.93	4,783,661.38
028	Deferred Payroll Expenses (Unsecured)	6,934,065.84	5,972,773.90
029	**Sub-total**	**11,395,473.77**	**19,756,335.28**
030	**Interest accrued on :**	**0.00**	**0.00**
031	Advances to contractors	0.00	0.00
032		**0.00**	**0.00**
033	**Claims Recoverable**	**0.00**	**0.00**
034	Secured	0.00	0.00
035	Unsecured, considered good	5,832,949,464.72	4,683,709,943.25
036	Considered Doubtful	375,353.48	0.00
037	Less:- Allowance for doubtful claims	0.00	0.00
038		**0.00**	**0.00**
039	Deferred premium on forward exchange contract/ Option Assets	0.00	0.00
041		0.00	0.00
042	Others	4,089,467.41	548,756.45
043		0.00	0.00
045	**Total (Other Current Assets)**	**7,424,395,292.41**	**9,932,753,044.48**
046	**Include Prepaid Expenses	0.00	
047	*Includes sales tax/Entry tax/VAT deposited under protest with Sales Tax Authorities	0.00	

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Date: 2024.[illegible] 17:14:36 IST
Reason: [illegible]
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 20 TO THE FS-CA-OTHER CURRENT ASSETS

(Amount in ₹)

	As at	31.03.2024	31.03.2023
048	*Includes deposited with courts	0.00	0.00
049	*Includes deposited with LIC for annuity payments	0.00	0.00
050	* Includes deposits with WRD / against BG in r/o finance lease	0.00	0.00
051	Other include amount recoverable from contractors and other parties towards hire charges, rent/electricity etc.	0.00	0.00
053	**Advances to related parties include:**	**0.00**	**0.00**
054	i)Key management personel	0.00	0.00
055	ii)Subsidiary companies	0.00	0.00
056	iii)Joint Venture companies	0.00	0.00
057	Contractors	0.00	0.00
058	Others	0.00	0.00
059		0.00	0.00
060	Advances include amount due from the following Private Companies in which Directors of the Company are also Directors in such Companies	0.00	0.00
061		**0.00**	**0.00**
062		0.00	0.00
063	Related Party (Adv)- Employee	0.00	0.00
064	Related Party (Adv)- Subsidiaries	0.00	0.00
065	Related Party (Adv)- Joint Venture	0.00	0.00
066		0.00	0.00
067		0.00	0.00
068	**Total**	**0.00**	**0.00**
069		0.00	0.00

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Date: 2024 IST 14:29 IST
Reason: AGM Commercial
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 21 TO THE FS-ASSETS HELD FOR SALE

(Amount in ₹)

	As at	31.03.2024	31.03.2023
001	**ASSET HELD FOR SALE**	**0.00**	**0.00**
002		0.00	0.00
003	Assets held for Sale	2,024,419.37	42,471,018.51
004		0.00	0.00
005	**Total**	**2,024,419.37**	**42,471,018.51**
031		0.00	0.00
032	**Assets held for sale includes:-**	**0.00**	**0.00**
033		0.00	0.00
034	Land	1,675,183.50	42,121,782.64
035	Building	0.00	0.00
036	Plant and equipment	338,217.87	338,217.87
037	Other assets	11,018.00	11,018.00
038	**Total**	**2,024,419.37**	**42,471,018.51**
039		0.00	0.00
040		0.00	0.00
041		0.00	0.00
042		0.00	0.00
043		0.00	0.00

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Date: 2024 IST 14:29 IST
Reason: AOC (Commercial)
Location: NTPC Limited

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NATIONAL CAPITAL POWER STATION

NOTE NO. 22 TO THE FS--REGULATORY DEFERRAL ACCOUNT DEBIT BALANCES

[Amount In ₹]

	As at	31.03.2024	31.03.2023
001	On account of Exchange Differences	-170,319,784.72	-53,028,686.33
002	On account of employee benefit exp	0.00	0.00
003	Regulatory deferred account - deferred	0.00	0.00
004	Deferred asset for ash transportation	0.00	0.00
005	Deferred asset for Arbitration Award	0.00	0.00
008		0.00	0.00
009	**Total**	**-170,319,784.72**	**-53,028,686.33**

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Date: 2024 IST 14:29 IST
Reason: AGM (Commercial)
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

ANNEXURE TO NOTE 9- RPD (LOANS) JOINT VENTURE

(Amount in ₹)

As at	31.03.2024	31.03.2023

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Date: 2024 IST 14:29 IST
Reason: AGM (Commercial)
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 23 TO THE FS-EQUITY-EQUITY SHARE CAPITAL

(Amount in ₹)

	As at	31.03.2024	31.03.2023
001	**SHARE CAPITAL**	**0.00**	**0.00**
002	**Equity Share Capital**	**0.00**	**0.00**
003	**Authorised**	**0.00**	**0.00**
004	16,60,00,00,000 equity shares of Rs.10/- each (Previous year 10,000,000,000 equity shares of Rs.10/- each)	0.00	0.00
005	**Issued,Subscribed and fully Paid-up**	**0.00**	**0.00**
006	9,69,66,66,134 equity shares of Rs.10/- (Pv. Year 9,694,557,280 equity shares of Rs.10/- each)	0.00	0.00
007		**0.00**	**0.00**
008	**Total**	**0.00**	**0.00**
009	During FY 2018-19, the company has issued 1,649,092,880 equity shares of Rs.10/- each as fully paid bonus shares	0.00	0.00
010	The holders of the equity shares are entitled to receive dividends as declared from time to time, and are entitled to one vote per share at meetings of the company.	0.00	0.00
011	Details of shareholders holding more than 5% shares in the company	0.00	0.00
012	- President of India	0.00	0.00
013	No. of Shares	0.00	0.00
014	% of holdeig	0.00	0.00
015	- Life Insurance Corporation of India/ICICI Prudential Mutual Fund	0.00	0.00
016	No. of Shares	0.00	0.00
017	% of holding	0.00	0.00

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Date: 2024 IST 14:29 IST
Reason: AGM (Commercial)
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 24 TO THE FS-EQUITY-OTHER EQUITY

(Amount in ₹)

	As at	31.03.2024	31.03.2023
001	RESERVE AND SURPLUS	0.00	0.00
002		**0.00**	**0.00**
003	**Capital Reserve**	**0.00**	**0.00**
004	As per last financial statements	0.00	0.00
006	Add : Grants received during the year	0.00	0.00
007	Add: Transfer from Surplus	0.00	0.00
008	Less: Write back during the year/period	0.00	0.00
009	Less: Adjustments during the year/period	0.00	0.00
010	**SUB-TOTAL**	**0.00**	**0.00**
011		0.00	0.00
017		0.00	0.00
018	**SECURITIES PREMIUM ACCOUNT**	**0.00**	**0.00**
019	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
020	ADD: ADDITIONS DURING THE YEAR/PERIOD	0.00	0.00
021	LESS: ADJUSTMENTS DURING THE YEAR/PERIOD	0.00	0.00
022	**SUB-TOTAL**	**0.00**	**0.00**
023	**BONDS REDEMPTION RESERVE**	**0.00**	**0.00**
024	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
025	ADD: TRANSFER FROM SURPLUS	0.00	0.00
026	LESS: TRANSFER TO SURPLUS ON REDEMPTION	0.00	0.00
027	LESS: ADJUSTMENTS DURING THE YEAR/ PERIOD	0.00	0.00
028	**SUB-TOTAL**	**0.00**	**0.00**
029	**CAPITAL REDEMPTION RESERVE**	**0.00**	**0.00**
030	As per last financial statements	0.00	0.00
031	Add: Transfer from Surplus	0.00	0.00
032	Less: Transfer to surplus on redemption	0.00	0.00
033	Less: Adjustments during the year/ period	0.00	0.00
034	**Sub-Total**	**0.00**	**0.00**
035	**Share Application money pending Allotment**	**0.00**	**0.00**
036	As per last financial statements	0.00	0.00
037	Add: Addition during the year	0.00	0.00
038	Less: Utilised for allotment during the year	0.00	0.00
039	Less: Adjustments during the year/ period	0.00	0.00
040	**SUB-TOTAL**	**0.00**	**0.00**
046	**FLY-ASH UTILISATION RESERVE FUND**	**0.00**	**0.00**
047	AS PER LAST FINANCIAL STATEMENTS	3,282,168,353.31	3,013,240,763.57
048	TRANSFERRED TO CC	0.00	-885,114,059.14
049	ADD TRANSFER FROM REVENUE FROM OPERATIONS	1,187,076,244.38	1,154,061,648.88
050	ADD TRANSFER FROM OTHER INCOME	0.00	0.00
051	LESS: UTILISED DURING THE YEAR	0.00	0.00
052	TANGIBLE ASSETS	0.00	[illegible]
053	EMPLOYEE BENEFIT EXPENSES	0.00	[illegible]
054	GENERATION,ADMN. AND OTHER EXPENSES	0.00	[illegible]

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Date: 2024.[illegible] 14:26:18 IST
Reason: [illegible]
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 24 TO THE FS-EQUITY-OTHER EQUITY (Amount in ₹)

	As at	31.03.2024	31.03.2023
055	TAX EXPENSES	0.00	0.00
056	**SUB-TOTAL**	**-4,469,264,597.69**	**3,282,188,353.31**
057	Self Insurance Reserve	0.00	0.00
058	As per last financial statements	0.00	0.00
059	Add: Addition during the year	0.00	0.00
060	Less: Utilised for allotment during the year	0.00	0.00
061	Less: Adjustments during the year/ period	0.00	0.00
062	SUB-TOTAL	0.00	0.00
063	**SPECIAL ALLOWANCE RESERVE FUND**	**0.00**	**0.00**
064	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
065	ADD: ADDITION DURING THE YEAR	0.00	0.00
066	LESS: UTLISED FOR ALLOTMENT DURING THE YEAR	0.00	0.00
067	LESS: ADJUSTMENTS DURING THE YEAR/ PERIOD	0.00	0.00
068	**SUB-TOTAL**	**0.00**	**0.00**
069	**CORPORATE SOCIAL RESPONSIBILITY (CSR) RESERVE**	**0.00**	**0.00**
070	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
071	ADD : TRANSFER FROM SURPLUS	0.00	0.00
072	LESS: WRITE BACK DURING THE YEAR	0.00	0.00
073	**SUB-TOTAL**	**0.00**	**0.00**
074	**GENERAL RESERVE**	**0.00**	**0.00**
075	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
076	ADD: TRANSFER FROM SURPLUS	0.00	0.00
077	LESS: TRANSFER TO SURPLUS	0.00	0.00
078	LESS: WRITE BACK DURING THE YEAR /PERIOD	0.00	0.00
079	LESS: ADJUSTMENTS DURING THE YEAR /PERIOD	0.00	0.00
080	**SUB-TOTAL**	**0.00**	**0.00**
081		**0.00**	**0.00**
082	**RETAINED EARNINGS**	**0.00**	**0.00**
083	AS PER LAST FINANCIAL STATEMENTS	139,998,447,005.72	131,436,451,477.61
084	ADD(LESS)-CHANGES IN ACCOUNTING POLICY / PRIOR PERIOD ERRORS	0.00	0.00
085	ADD(LESS)-PROFIT (LOSS) AFTER TAX FOR THE YEAR FROM STATEMENT OF PROFIT & LOSS	7,937,458,234.06	7,561,995,528.11
087	ADD: WRITE BACK FROM BOND REDEMPTION RESERVE	0.00	0.00
088	ADD: WRITE BACK FROM CAPITAL RESERVE	0.00	0.00
089	ADD: WRITE BACK FROM FOREIGN PROJECT RESERVE	0.00	0.00
090	ADD: WRITE BACK FROM CSR RESERVE	0.00	0.00
091	ADD: WRITE BACK FROM GENERAL RESERVE	0.00	0.00
093	LESS: TRANSFER TO BONDS REDEMPTION RESERVE	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 24 TO THE FS-EQUITY-OTHER EQUITY

(Amount in ₹)

	As at	31.03.2024	31.03.2023
094	LESS: TRANSFER TO SPECIAL ALLOWANCE RESERVE FUND	0.00	0.00
095	LESS: TRANSFER TO FOREIGN PROJECT RESERVE	0.00	0.00
096	LESS:TRANSFER TO CAPITAL RESERVE	0.00	0.00
097	LESS:TRANSFER TO CSR RESERVE	0.00	0.00
098	LESS:TRANSFER TO GENERAL RESERVE	0.00	0.00
099	LESS:INTERIM DIVIDEND PAID	0.00	0.00
100	LESS:TAX ON INTERIM DIVIDEND PAID	0.00	0.00
101	LESS:FINAL DIVIDEND PAID	0.00	0.00
102	LESS:TAX ON FINAL DIVIDEND PAID	0.00	0.00
103	LESS: ISSUE OF BONUS DEBENTURE	0.00	0.00
104	LESS: TAX ON ISSUE OF BONUS DEBENTURE	0.00	0.00
105	**SUB-TOTAL**	**146,935,905,239.78**	**139,998,447,005.72**
110		0.00	0.00
111	**REMEASUREMENT OF DEFINED BENEFIT PLANS**	**0.00**	**0.00**
112	AS PER LAST FINANCIAL STATEMENTS	-321,109,183.69	-285,119,740.93
113	ADD/(LESS):- ACTUARIAL GAINS/LOSS THROUGH OCI	11,271,357.32	-35,989,442.76
114	**SUB-TOTAL**	**-309,837,826.37**	**-321,109,183.69**
115		0.00	0.00
116	**FVTOCI Reserve**	**0.00**	**0.00**
117	AS PER LAST FINANCIAL STATEMENTS	0.00	0.00
118	ADD(LESS): NET GAIN/LOSS OF EQUITY INSTRUMENTS THROUGH OCI	0.00	0.00
119	**Sub-Total**	**0.00**	**0.00**
120		**0.00**	**0.00**
121	**Total Other equity**	**151,095,332,011.10**	**141,950,526,175.34**
122		0.00	0.00
123		0.00	0.00
124		0.00	0.00
125		0.00	0.00
126		0.00	0.00
127		0.00	0.00
128	The fly ash utilization reserve fund is controlled at Corporate Centre.	0.00	0.00

Document verified by PARIMAL PITLISH
Digitally signed by PARIMAL PITLISH
Date: 2024 IST 14:29 IST
Reason: AOA Commercial
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 25 TO THE FS-NCL-BORROWINGS

(Amount in ₹)

	As at	31.03.2024	31.03.2023
001	**LONG TERM BORROWINGS**	**0.00**	**0.00**
002	**Bonds**	**0.00**	**0.00**
003	**Secured**	**0.00**	**0.00**
004	7.37 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2035 (Fifty Sixth Issue - Public Issue - Series 3A).	0.00	0.00
005	7.62 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2035 (Fifty Sixth Issue - Public Issue - Series 3 B).	0.00	0.00
006	8.61% Tax free secured non-cumulative non-convertible redeemable bonds of ₹ 10,00,000/- each redeemable at par in full on 4th March 2034 (Fifty First Issue C - Private Placement)	0.00	0.00
007	8.66% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2033 (Fiftieth Issue - Public Issue - Series 3A)	0.00	0.00
008	8.91% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2033 (Fiftieth Issue - Public Issue - Series 3B)	0.00	0.00
009	7.37% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 14th December 2031 (Sixty Sixth Issue - Private Placement)	0.00	0.00
010	7.49% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 7th November 2031 (Sixty Fourth Issue - Private Placement)	0.00	0.00
011	7.28 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2030 (Fifty Sixth Issue - Public Issue - Series	0.00	0.00

NOTE NO. 25 TO THE FS-NCL-BORROWINGS

(Amount in ₹)

	As at	31.03.2024	31.03.2023
	2A)		
012	7.53 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2030 (Fifty Sixth Issue - Public Issue - Series 2 B).	0.00	0.00
013	7.32% Secured non-cumulative non-convertible redeemable taxable bonds of Rs 10,00,000/- each redeemable at par in full on 17 July 2029 (Sixty Ninth Issue - Private Placement)	0.00	0.00
014	8.63% Tax free secured non-cumulative non-convertible redeemable bonds of ₹ 10,00,000/- each redeemable at par in full on 4th March 2029 (Fifty First Issue B - Private Placement)	0.00	0.00
015	8.30% Secured non-cumulative non-convertible redeemable taxable bonds of Rs 10,00,000/- each redeemable at par in full on 15 January 2029 (Sixty Seventh Issue - Private Placement)	0.00	0.00
016	8.48% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2028 (Fiftieth Issue - Public Issue - Series 2A)	0.00	0.00
017	8.73% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2028 (Fiftieth Issue - Public Issue - Series 2B)	0.00	0.00
018	7.47% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 16th September 2026 (Sixty Third Issue - Private Placement)	0.00	0.00
019	7.58% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in	0.00	0.00

Document verified by PARMAR PIYUSH
Digitally signed by PARMAR PIYUSH
Date: 2024 IST 14:29 IST
Reason: AOC (commercial)
Location: NTPC Limited

(Amount in ₹)

	As at	31.03.2024	31.03.2023
	full on 23rd August 2026 (Sixty Second Issue - Private Placement)		
020	8.05% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 5th May 2026 (Sixtieth Issue - Private Placement)	0.00	0.00
021	8.19% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 15th December 2025 (Fifty Seventh Issue - Private Placement)	0.00	0.00
022	7.11 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2025 (Fifty Sixth Issue - Public Issue - Series 1A).	0.00	0.00
023	7.36 % Tax free secured non-cumulative non-convertible redeemable bonds-2015 of Rs. 1,000/- each redeemable at par in full on 5th October 2025 (Fifty Sixth Issue - Public Issue - Series 1 B).	0.00	0.00
024	7.15% Tax free secured non-cumulative non-convertible redeemable bonds - 2015 of Rs. 10,00,000/- each redeemable at par in full on 21st August 2025 (Fifty Fifth Issue - Private Placement)	0.00	0.00
025	9.17% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 22nd September 2024 (53rd issue - private placement)	0.00	0.00
026	9.34% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 24th March 2024 (Fifty Second Issue - private placement)	0.00	0.00
027	8.19% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 10,00,000/- each redeemable at	0.00	0.00

(Amount in ₹)

	As at	31.03.2024	31.03.2023
	par in full on 4th March 2024 (Fifty First Issue A - Private Placement)		
028	8.41% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2023 (Fiftieth Issue - Public Issue - Series 1A)	0.00	0.00
029	8.66% Tax free secured non-cumulative non-convertible redeemable bonds - 2013 of ₹ 1000/- each redeemable at par in full on 16th December 2023 (Fiftieth Issue - Public Issue - Series 1B)	0.00	0.00
030	9.25% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each with five equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 11th year and in annual installments thereafter upto the end of 15th year respectively commencing from 4th May 2023 and ending on 4th May 2027 (Forty fourth issue - private placement)VII	0.00	0.00
031	8.48% Secured non-cumulative non-nonvertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 1st May 2023 (Seventeenth issue - private placement)I	0.00	0.00
032	8.80% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 4th April 2023 (Forty ninth issue -private placement	0.00	0.00
033	8.49% Secured non-cumulative non-convertible redeemable taxable fully paid up bonus debentures of Rs. 12.50 each redeemable at par in three annual installments of Rs. 2.50, Rs. 5.00 and Rs. 5.00 at the end of 8th year, 9th year and 10th year on 25th March 2023, 25th March 2024 and 25th March 2025 respectively (Fifty Fourth Issue -Bonus Debentures)X - (refer Note 5 (i)	0.00	0.00
034	8.73% Secured non-cumulative	0.00	

(Amount in ₹)

	As at	31.03.2024	31.03.2023
	non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 07th March 2023 (Forty eighth issue - private placement)		
035	9.00% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each with five equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 11th year and in annual installments thereafter upto the end of 15th year respectively commencing from 25th January 2023 and ending on 25th January 2027 (Forty second issue- private placement)III	0.00	0.00
036	8.84% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 4th October 2022 (Forty seventh issue- private placement)VII	0.00	0.00
037	7.93% Secured non-cumulative non-convertible redeemable taxable bonds of ` 10,00,000/- each redeemable at par in full on 03 May 2022 (68th Issue - Private Placement)	0.00	0.00
038	6.72% Secured non-cumulative non-convertible redeemable taxable bonds of Rs. 10,00,000/- each redeemable at par in full on 24th November 2021 (Sixty Fifth Issue - Private Placement)	0.00	0.00
039	8.10% Secured Non-Cumulative Non-Convertible Redeemable Taxable Bonds of Rs. 30,00,000/- each redeemable at par in three equal separately transferable redeemable principal parts (STRPP) at the end of 5th year, 10th year & 15th year on 27th May 2021, 27th May 2026 and 27th May 2031 respectively (Sixty First Issue- Private Placement)	0.00	0.00
040	8.33% Secured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in full on 24th February 2021	0.00	0.00

(Amount in ₹)

	As at	31.03.2024	31.03.2023
	(Fifty Ninth Issue - Private Placement).		
042	8.93% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 19th January 2021 Thirty seventh issue - private placement)III	0.00	0.00
043	8.18% Secured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in full on 31st December 2020 (Fifty Eight Issue - Private Placement).	0.00	0.00
044	8.73 % Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 31st March 2020 (Thirty third issue- private placement)III	0.00	0.00
045	8.78 % Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 9th March 2020 (Thirty first issue- private placement)III	0.00	0.00
046	11.25% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in five equal annual installments commencing from 6th Nov 2019 and ending on 6th Nov 2023 (Twenty seventh issue - private placement)III	0.00	0.00
047	7.89% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 5th May 2019 (Thirtieth issue - private placement)III	0.00	0.00
048	8.65% Secured non-cumulative non-convertible redeemable taxable bonds of ₹10,00,000/- each redeemable at par in full on 4th February 2019 (Twenty ninth issue - private placement)III	0.00	0.00
049	7.50% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full	0.00	0.00

(Amount in ₹)

	As of	31.03.2024	31.03.2023
	on 12th January 2019 (Nineteenth issue - private placement)ii		
050	11% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 21st November 2018 (Twenty eighth issue - private placement)iii	0.00	0.00
051	9.3473% Secured non-cumulative non-convertible redeemable taxable bonds of ₹15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 20th July 2018 and ending on 20th July 2032 (Forty sixth issue - private placement)vii	0.00	0.00
052	9.4376% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 16th May 2018 and ending on 16th May 2032 (Forty fifth issue - private placement)vii	0.00	0.00
053	8.00% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 10th April 2018 (Sixteenth issue -private placement)i	0.00	0.00
054	9.2573% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 2nd March 2018 and ending on 2nd March 2032 (Forty third issue - private placement)iii	0.00	0.00
055	9.6713% Secured non-cumulative non-convertible redeemable taxable bonds	0.00	

(Amount in ₹)

	As at	31.03.2024	31.03.2023
	of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 23rd December 2017 and ending on 23rd December 2031 (Forty first issue - private placement)iii		
066	9.558% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 29th July 2017 and ending on 29th July 2031(Fourtieth issue-private placement)iii	0.00	0.00
067	9.3896% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 9th June 2017 and ending on 9th June 2031(Thirty ninth issue-private placement)iii	0.00	0.00
068	9.17% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 22nd March 2017 and ending on 22nd March 2031(Thirty eighth issue-private placement)iii	0.00	0.00
069	9.8086% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th	0.00	0.00

(Amount in ₹)

	As at	31.03.2024	31.03.2023
	year and in annual installments thereafter upto the end of 20th year respectively commencing from 15th December 2016 and ending on 15th December 2030 (Thirty sixth issue - private placement)III		
060	8.785% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 15th September 2016 and ending on 15th September 2030 (Thirty fifth issue - private placement)III	0.00	0.00
061	8.71% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 10th June 2016 and ending on 10th June 2030 (Thirty fourth issue - private placement)III	0.00	0.00
062	8.8493% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 15,00,000/- each with fifteen equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of 6th year and in annual installments thereafter upto the end of 20th year respectively commencing from 25th March 2016 and ending on 25th March 2030 (Thirty second issue - private placement)III	0.00	0.00
063	9.37% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 70,00,000/- each with fourteen separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 4th June 2012 and ending on 4th December 2018 (Twenty fifth issue -	0.00	0.00

(Amount in ₹)

	As at	31.03.2024	31.03.2023
	private placement)III		
065	9.06% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 70,00,000/- each with fourteen separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 4th June 2012 and ending on 4th December 2018 (Twenty sixth issue - private placement)III	0.00	0.00
066	8.6077% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 9th September 2011 and ending on 9th March 2021 (Twenty fourth issue - private placement)IV	0.00	0.00
067	8.3796% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 5th August 2011 and ending on 5th February 2021 (Twenty third issue - private placement)IV	0.00	0.00
068	8.1771% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 2nd July 2011 and ending on 2nd January 2021 (Twenty second issue - private placement)IV	0.00	0.00
069	7.7125% Secured non-cumulative non-convertible redeemable taxable bonds of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 2nd August 2010 and ending on 2nd February 2020 (Twenty first issue - private placement)IV	0.00	0.00
070	7.552% Secured non-cumulative non-convertible redeemable taxable bonds	0.00	[illegible]

(Amount in ₹)

	As at	31.03.2024	31.03.2023
	of ₹ 20,00,000/- each with twenty equal separately transferable redeemable principal parts (STRPP) redeemable at par semi-annually commencing from 23rd September 2009 and ending on 23rd March 2019 (Twentieth issue - private placement)VI		
071	9.55% Secured non-cumulative non-convertible taxable redeemable bonds of ₹ 10,00,000/- each with ten equal separately transferable redeemable principal parts (STRPP) redeemable at par at the end of the 6th year and in annual installments thereafter upto the end of 15th year respectively from 30th April 2002 (Thirteenth issue - Part B - private placement)VIII	0.00	0.00
072	9.55% Secured non-cumulative non-convertible taxable redeemable bonds of ₹ 10,00,000/- each redeemable at par in ten equal annual installments commencing from the end of 6th year and upto the end of 15th year respectively from 18th April 2002 (Thirteenth issue -Part A - private placement)VIII	0.00	0.00
075		0.00	0.00
076		0.00	0.00
077		0.00	0.00
078		0.00	0.00
079		0.00	0.00
080		0.00	0.00
081		0.00	0.00
082	**Sub Total**	**0.00**	**0.00**
083	**Unsecured**	**0.00**	**0.00**
084	6.55% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 17 April 2023 (Seventieth Issue - Private Placement)	0.00	0.00
085	6.29% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 11 April 2031 (Seventy First Issue - Private Placement)	0.00	0.00
086	5.45% Unsecured non-cumulative non-convertible redeemable taxable bonds	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 25 TO THE FS-NCL-BORROWINGS

(Amount in ₹)

	As at	31.03.2024	31.03.2023
	of ₹ 10,00,000/- each redeemable at par in full on 15 October 2025 (Seventy Second Issue - Private Placement)		
087	6.43% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 27 January 2031 (Seventy Third Issue - Private Placement)	0.00	0.00
088	6.87% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 21 April 2036 (Seventy Fourth Issue - Private Placement)	0.00	0.00
089	6.69% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 13 September 2031 (Seventy Fifth Issue - Private Placement)	0.00	0.00
090	6.74% Unsecured non-cumulative non-convertible redeemable taxable bonds of Rs.10,00,000/- each redeemable at par in full on 14 April 2032 (Seventy Sixth Issue - Private Placement)	0.00	0.00
091	5.78% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 29 April 2024 (Seventy Seventh Issue - Private Placement)	0.00	0.00
092	7.44% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 25 August 2032 (Seventy Eighth Issue - Private Placement)	0.00	0.00
093	7.44% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 10,00,000/- each redeemable at par in full on 15 April 2033 (Seventy Ninth Issue - Private Placement)	0.00	0.00
094	7.35% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 1,00,000/- each redeemable at par in full on 17 April 2026 (Eightieth Issue - Private Placement)	0.00	0.00
095	7.48% Unsecured non-cumulative non-convertible redeemable taxable bonds of ₹ 1,00,000/- each redeemable at par in full on 21 March 2026 (Eighty First Issue - Private Placement)	0.00	0.00
096		0.00	0.00
097		0.00	0.00
098		0.00	0.00
099		0.00	0.00
100	**Sub-total**	**0.00**	**0.00**
101	**Total**	**0.00**	**0.00**

NATIONAL CAPITAL POWER STATION

NOTE NO. 25 TO THE FS-NCL-BORROWINGS

(Amount in ₹)

	As at	31.03.2024	31.03.2023
102	**Foreign Currency Notes-Unsecured**	**0.00**	**0.00**
103	4.50% Fixed Rate Notes Due for repayment on 19th March 2028	0.00	0.00
104	2.75% Fixed rate notes due for repayment on 1st February 2027	0.00	0.00
105	4.25 % Fixed rate notes due for repayment on 26th February 2026	0.00	0.00
106	4.375% Fixed Rate Note due for repayment on 26th November 2024	0.00	0.00
107	4.75 % Fixed Rate Notes due for repayment on 3rd Oct 2022	0.00	0.00
108	7.25 % Fixed green global INR denominated bonds due on 3 May 2022	0.00	0.00
109	7.375 % Fixed green global INR denominated bonds due on 10 August 2021	0.00	0.00
110	5.625% Fixed Rate Notes due for repayment on 14th July 2021	0.00	0.00
111	3.75 % Fixed rate notes due for repayment on 03 April 2024	0.00	0.00
112		0.00	0.00
113		0.00	0.00
114		0.00	0.00
115	**Sub Total**	**0.00**	**0.00**
116	**Term Loans**	**0.00**	**0.00**
117	**From Banks**	**0.00**	**0.00**
118	**Secured**	**0.00**	**0.00**
119	Rupee Loans	0.00	0.00
120	**Unsecured**	**0.00**	**0.00**
121	Foreign Currency Loans	0.00	0.00
122	Rupee Loans	0.00	0.00
123	**From Others**	**0.00**	**0.00**
124	**Secured**	**0.00**	**0.00**
125	Rupee Loans	0.00	0.00
126	Foreign Currency loans (guaranteed by GOI)	0.00	0.00
127	**Unsecured**	**0.00**	**0.00**
128	Foreign Currency loans (guaranteed by GOI)	0.00	0.00
129	Other Foreign currency loans	0.00	0.00
131	Rupee Loans	0.00	0.00
132	**Deposits**	**0.00**	**0.00**
133	**Unsecured**	**0.00**	**0.00**
134	Fixed Deposits	0.00	0.00
135	**Others**	**0.00**	**0.00**
136	**Unsecured**	**0.00**	**0.00**
137	Bonds Application Money Pending Allotment	0.00	0.00
138	**Sub-total**	**0.00**	**0.00**
139	**Total**	**0.00**	**0.00**
140	Less:- Interest accrued but not due on secured	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 25 TO THE FS-NCL-BORROWINGS

(Amount in ₹)

	As at	31.03.2024	31.03.2023
	borrowings -		
141	Less:- Interest accrued but not due on unsecured borrowings	0.00	0.00
142	Less:- Current maturities of long term borrowings	0.00	0.00
143	Bonds-Secured	0.00	0.00
144	Fixed Rate Notes	0.00	0.00
146	Foreign currency loans from Banks- unsecured	0.00	0.00
147	Rupee loans from banks- Secured	0.00	0.00
148	Rupee loans from banks- unsecured	0.00	0.00
149	Rupee Term loan from Others - Secured	0.00	0.00
150	Foreign currency loans from others- unsecured (Guaranteed by GOI)	0.00	0.00
151	Other foreign currency loans from others- unsecured	0.00	0.00
152	Rupee loans from others- unsecured	0.00	0.00
153		0.00	0.00
154		0.00	0.00
155		0.00	0.00
156		0.00	0.00
157		0.00	0.00
158		0.00	0.00
159		0.00	0.00
160		0.00	0.00
161		0.00	0.00
201	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 26 TO THE FS-NCL-LEASE LIABILITIES

(Amount in ₹)

	As at	31.03.2024	31.03.2023
001	**Non-current financial liabilities - Lease liabilities**	**0.00**	**0.00**
002	**Lease liabilities**	**0.00**	**0.00**
003	Long term maturities of Finance Lease Liabilities (Secured) IX	0.00	0.00
004	Long term maturities of Finance Lease Liabilites (Unsecured) X	0.00	0.00
005	**Sub-Total**	**0.00**	**0.00**
006	**Less: current maturities of lease liabilities**	**0.00**	**0.00**
007	Finance Lease obligations - secured	0.00	0.00
008	Finance Lease obligations - unsecured	0.00	0.00
009	**Sub-Total**	**0.00**	**0.00**
011	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 27 TO THE FS-NCL-TRADE PAYABLES

(Amount in ₹)

	As at	31.03.2024	31.03.2023
001	**TRADE PAYABLES(NON CURRENT)**	**0.00**	**0.00**
002	**For Goods and Services**	**0.00**	**0.00**
003	- Micro & Small Enterprises	0.00	0.00
004	- Others	0.00	0.00
005		0.00	0.00
007	**Total**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 28 TO THE FS-NCL-OTHER FINANCIAL LIABILITIES

(Amount in ₹)

	As at	31.03.2024	31.03.2023
001	**OTHER FINANCIAL LIABILITIES (NON-CURRENT)**	**0.00**	**0.00**
002	Payable for Capital Expenditure	0.00	0.00
003	- Micro & Small Enterprises	275,825.65	94,861.03
004	- Others	1,932,315.30	5,456,528.97
005	Contractual Obligations	14,468,405.96	9,830,199.81
006	Others	0.00	0.00
007	Deposits from contractors and others	0.00	0.00
008		0.00	0.00
009		0.00	0.00
011	**Total**	**16,676,546.91**	**15,383,589.81**
020		0.00	0.00
021	**Payable for Capital Expenditure - SD/retntion**	**0.00**	**0.00**
022	- Micro & Small Enterprises	246,015.45	94,861.03
023	- Others	1,733,933.43	3,541,218.17
024	**Sub-total**	**1,979,948.88**	**3,636,079.20**
025	**Contractual Obligations**	**0.00**	**0.00**
026	- Micro & Small Enterprises	7,353,243.84	2,244,006.91
027	- Others	7,115,162.12	7,586,192.90
028	**Sub-total**	**14,468,405.96**	**9,830,199.81**
029	**Total (24+28)**	**16,448,354.84**	**13,466,279.01**
030		0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 29 TO THE FS-NCL-PROVISIONS

(Amount in ₹)

	As at	31.03.2024	31.03.2023
001	**LONG TERM PROVISIONS**	**0.00**	**0.00**
002	**Provision for Employee Benefits**	**0.00**	**0.00**
003	Opening Balance	0.00	0.00
004	Additions/ (adjustments) during the year	0.00	0.00
005	**Closing Balance**	**0.00**	**0.00**
006		0.00	0.00
007	**Others**	**0.00**	**0.00**
008	**i) Mine Closure Provision**	**0.00**	**0.00**
009	Opening Balance	0.00	0.00
010	Additions during the year	0.00	0.00
011	Amounts adjusted during the year	0.00	0.00
012	Amounts reversed during the year	0.00	0.00
013	**Closing Balance**	**0.00**	**0.00**
014		0.00	0.00
015	**ii) Stripping Activity Adjustments**	**0.00**	**0.00**
016	Opening Balance	0.00	0.00
017	Additions during the year	0.00	0.00
018	Amounts adjusted during the year	0.00	0.00
019	Amounts reversed during the year	0.00	0.00
020	**Closing Balance**	**0.00**	**0.00**
021		0.00	0.00
024		0.00	0.00
025	**TOTAL**	**0.00**	**0.00**

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NOTE NO. 30 TO THE FS-NCL-DEFERRED TAX LIABILITIES (NET) (Amount in ₹)

	As at	Opening Balance on 01.04.2023	Addition	Closing Balance on 31.03.2024
001	**DEFERRED TAX LIABILITIES (NET)**			
002	Difference of book depreciation and tax depreciation	0.00	0.00	0.00
003	Less: Deferred tax assets			
004	Provisions & Other disallowances for tax purposes	0.00	0.00	0.00
005	Unabsorbed Depreciation	0.00	0.00	0.00
006	Disallowances u/s 43B of the Income Tax Act, 1961	0.00	0.00	0.00
007	Others	0.00	0.00	0.00
008	Opening Balance	0.00	0.00	0.00
009	Additions during the year	0.00	0.00	0.00
010	Amounts adjusted during the year	0.00	0.00	0.00
011	Amounts reversed during the year	0.00	0.00	0.00
012	Closing Balance	0.00	0.00	0.00
013	MAT credit entitlement	0.00	0.00	0.00
014	**Total**	**0.00**	**0.00**	**0.00**
016		0.00	0.00	0.00
017	**Total**	**0.00**	**0.00**	**0.00**
018	Breakup of deferred tax assets	0.00	0.00	0.00
019	Provision	0.00	0.00	0.00
020	Statutory dues	0.00	0.00	0.00
021	Leave encashment	0.00	0.00	0.00
022	Others	0.00	0.00	0.00
023		0.00	0.00	0.00
024		0.00	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 31 TO THE FS-NCL-OTHER NON-CURRENT LIABILITIES (Amount in ₹)

	As at	31.03.2024	31.03.2023
001	Other Non current Liabilities	0.00	0.00
002	Advances from customers and others	0.00	0.00
003	Deposits from contractors and others	0.00	0.00
004	Grants	0.00	0.00
006		0.00	0.00
007	**TOTAL**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 32 TO THE FS-CL-BORROWINGS

(Amount in ₹)

	As at	31.03.2024	31.03.2023
001	**Short Term Borrowings**	**0.00**	**0.00**
002	**Loans repayable on demand**	**0.00**	**0.00**
003	**From Banks**	**0.00**	**0.00**
004	**Secured**	**0.00**	**0.00**
005	Cash Credit	0.00	0.00
006	**Unsecured**	**0.00**	**0.00**
007	Cash Credit	0.00	0.00
008	**Other loans-unsecured**	**0.00**	**0.00**
009	Commercial Papers	0.00	0.00
010	Less: Unamortised discount on Commercial Papers	0.00	0.00
011	**Sub-Total**	**0.00**	**0.00**
012	**Current maturity of long term borrowings**	**0.00**	**0.00**
013	Bonds-Secured	0.00	0.00
014	Foreign Currency Fixed Rate Notes	0.00	0.00
015	**From Banks**	**0.00**	**0.00**
016	**Secured**	**0.00**	**0.00**
017	Rupee Term Loan	0.00	0.00
018	Foreign currency loans	0.00	0.00
019	**Unsecured**	**0.00**	**0.00**
020	Foreign currency loans	0.00	0.00
021	Rupee term loans	0.00	0.00
022	**From Others**	**0.00**	**0.00**
023	**Secured**	**0.00**	**0.00**
024	Rupee Term Loan	0.00	0.00
025	**Unsecured**	**0.00**	**0.00**
026	Foreign currency loans (Guaranteed by Government of India)	0.00	0.00
027	Other foreign currency loans	0.00	0.00
028	Rupee term loans	0.00	0.00
029	Fixed deposits	0.00	0.00
030	Bill discounted	0.00	0.00
031		0.00	0.00
032	Sub Total	0.00	0.00
034		0.00	0.00
035	**TOTAL**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 33 TO THE FS-CL-LEASE LIABILITIES

(Amount in ₹)

	As at	31.03.2024	31.03.2023
001	**Current financial liabilities - Lease liabilities**	**0.00**	**0.00**
002	Current maturity of finance lease obligations (secured)	0.00	0.00
003	Current maturity of finance lease obligations (unsecured)	0.00	0.00
005	**Total**	**0.00**	**0.00**

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Location: NTPC

NATIONAL CAPITAL POWER STATION

NOTE NO. 34 TO THE FS-CL-TRADE PAYABLES

(Amount in ₹)

	As at	31.03.2024	31.03.2023
001	**TRADE PAYABLES**	**0.00**	**0.00**
002	For Goods and Services	0.00	0.00
003	- Micro & Small Enterprises	233,394,365.95	50,913,186.01
004	- Others	3,869,248,126.44	7,182,551,316.27
005		0.00	0.00
007	**Total**	**4,102,642,492.39**	**7,233,464,502.28**
008		0.00	0.00
172	**Trade payable**	**0.00**	**0.00**
173	**MSME**	**0.00**	**0.00**
174	Unbilled	128,760,849.30	36,603,642.01
175	Not due	0.00	0.00
176	**Due**	**104,633,516.65**	**14,309,544.00**
177	Disputed	0.00	0.00
178	Undisputed	104,633,516.65	14,309,544.00
179		0.00	0.00
180	**Sub-total (A)**	**233,394,365.95**	**50,913,186.01**
181		0.00	0.00
182	**Others**	**0.00**	**0.00**
183	Unbilled	1,092,438,668.31	1,701,370,931.44
184	Not due	0.00	0.00
185	**Due**	**2,776,809,458.13**	**5,481,180,384.83**
186	Disputed	0.00	0.00
187	Undisputed	2,776,809,458.13	5,481,180,384.83
188		0.00	0.00
189	**Sub-total (B)**	**3,869,248,126.44**	**7,182,551,316.27**
190		0.00	0.00
191	**Total**	**4,102,642,492.39**	**7,233,464,502.28**
192		0.00	0.00
193	**Ageing**	**0.00**	**0.00**
194	**MSME**	**0.00**	**0.00**
195	**Disputed**	**0.00**	**0.00**
196	Less than 1 year	0.00	0.00
197	1-2 years	0.00	0.00
198	2-3 years	0.00	0.00
199	More than 3 years	0.00	0.00
200	**Sub Total (i)**	**0.00**	**0.00**
201		0.00	0.00
202	**Undisputed**	**0.00**	**0.00**
203	Less than 1 year	104,633,516.65	14,309,544.00
204	1-2 years	0.00	0.00
205	2-3 years	0.00	0.00
206	More than 3 years	0.00	0.00
207	**Sub Total (ii)**	**104,633,516.65**	**14,309,544.00**
208		0.00	0.00
209	**Total MSME (iii)**	**104,633,516.65**	**[illegible]**
210		0.00	[illegible]

NATIONAL CAPITAL POWER STATION

NOTE NO. 34 TO THE FS-CL-TRADE PAYABLES

(Amount in ₹)

	As at	31.03.2024	31.03.2023
211	**Others**	**0.00**	**0.00**
212	**Disputed**	**0.00**	**0.00**
213	Less than 1 year	0.00	0.00
214	1-2 years	0.00	0.00
215	2-3 years	0.00	0.00
216	More than 3 years	0.00	0.00
217	**Sub Total (IV)**	**0.00**	**0.00**
218		0.00	0.00
219	**Undisputed**	**0.00**	**0.00**
220	Less than 1 year	2,102,198,817.00	4,498,108,338.54
221	1-2 years	428,880,232.79	961,892,773.90
222	2-3 years	187,553,548.80	8,581,044.78
223	More than 3 years	58,175,859.39	12,598,227.61
224	**Sub Total (V)**	**2,776,809,457.89**	**5,481,180,384.83**
225		0.00	0.00
226	**Total Others (VI)**	**2,776,809,457.89**	**5,481,180,384.83**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 35 TO THE FS-CL-OTHER FINANCIAL LIABILITIES

[Amount in ₹]

	As at	31.03.2024	31.03.2023
001	**OTHER FINANCIAL LIABILITIES (CURRENT)**	**0.00**	**0.00**
020	Interest accrued but not due on Unsecured Short Term Borrowing	0.00	0.00
021	Interest accrued but not due on secured borrowings	0.00	0.00
022	Interest accrued but not due on unsecured borrowings	0.00	0.00
023	Unpaid Dividends*	0.00	0.00
024	Unpaid matured deposits and interest accrued thereon*	0.00	0.00
025	Unpaid matured bonds and interest accrued thereon*	0.00	0.00
026	Unpaid bond refund money-Tax free bonds *	0.00	0.00
027	Book Overdraft	0.00	0.00
028	Payable to Customers	0.00	0.00
029	Liability under forward exchange contact	0.00	0.00
030	Hedging cost payable to beneficiaries	0.00	0.00
031	Derivative MTM Liability	0.00	0.00
032	**Payable for Capital Expenditure**	**0.00**	**0.00**
033	- Micro & Small Enterprises	45,337,119.79	48,582,838.75
034	- Others	1,125,273,709.68	1,956,603,159.14
035	Contractual Obligations	1,601,506,734.51	3,413,103,680.12
036	**Others Payables**	**0.00**	**0.00**
037	Deposits from contractors and others	158,387,297.60	151,404,460.55
038	Gratuity Obligations	0.00	0.00
039	Payable to employees	44,088,589.50	26,739,532.10
040	Payable to holding company	0.00	0.00
041	Retention on A/c BG encashment (Solar)	0.00	0.00
042	Payable to Solar Payment Security Account	0.00	0.00
043	Others **	154,106,387.14	233,531,818.82
044	Unspent CSR balance on ongoing Approved CSR projects	0.00	0.00
046		0.00	0.00
047		0.00	0.00
048	**Total**	**3,468,679,838.22**	**5,827,965,489.43**
049	* Represents the amounts which have not been claimed by the investor/holders of the bonds/fixed deposits. Out of the above, no amount is due for payment to Investor Education and Protection Fund.	0.00	0.00
050	** Include Payable to Hospital and other payable.	0.00	0.00
051	**Payable for Capital Expenditure - SD/retntion**	**0.00**	**0.00**
052	- Micro & Small Enterprises	27,379,435.59	17,010,269.60
053	- Others	274,963,307.49	216,418,895.57
054	**Sub-total**	**302,342,742.49**	**233,429,164.57**
055	**Contractual Obligations**	**0.00**	**0.00**
056	- Micro & Small Enterprises	74,665,604.53	[illegible]
057	- Others	1,859,835,929.58	[illegible]

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Reason: [illegible]

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NATIONAL CAPITAL POWER STATION

NOTE NO. 35 TO THE FS-CL-OTHER FINANCIAL LIABILITIES

[Amount in ₹]

	As at	31.03.2024	31.03.2023
058	**Sub-total**	**1,931,506,734.51**	**3,413,193,695.12**
059	**Total**	**2,233,849,477.00**	**3,646,532,841.99**
060		0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 36 TO THE FS-CL-OTHER CURRENT LIABILITIES (Amount in ₹)

	As at	31.03.2024	31.03.2023
001	**OTHER CURRENT LIABILITIES**	**0.00**	**0.00**
002	Advances from customers and others	300,401,139.00	233,392,873.97
003	Deferred discount on forward exchange contact	0.00	0.00
004	Tax deducted at source and other statutory dues	168,327,665.71	134,446,589.02
005	Deposits from contractors and others	0.00	0.00
006	Government grants	0.00	0.00
007	Others	0.00	0.00
009		0.00	0.00
010		0.00	0.00
011	**Total**	**468,728,804.77**	**367,839,462.99**

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 37 TO THE FS-CL-PROVISIONS

(Amount in ₹)

	As at	31.03.2024	31.03.2023
001	**SHORT TERM PROVISIONS**	**0.00**	**0.00**
002	***Provision for Employee Benefits***	**0.00**	**0.00**
003	Opening balance	0.00	0.00
004	Additions/ (adjustments) during the year	0.00	0.00
005	**Closing Balance**	**0.00**	**0.00**
028	**Provisions for Obligations Incidental to Land Acquisition**	**0.00**	**0.00**
029	Opening balance	0.00	0.00
030	Additions during the year	0.00	0.00
031	Amounts paid during the year	0.00	0.00
032	Amounts reversed during the year	0.00	0.00
033	**Closing Balance**	**0.00**	**0.00**
035	**Provision for Tariff Adjustment**	**0.00**	**0.00**
036	Opening balance	0.00	0.00
037	Additions during the year	0.00	0.00
038	Amounts adjusted during the year	0.00	0.00
039	Amounts reversed during the year	0.00	0.00
040	**Closing Balance**	**0.00**	**0.00**
042	**Provision for shortage in Fixed Assets Pending Investigation & Others**	**0.00**	**0.00**
043	Opening balance	6,310,836.31	0.00
044	Additions during the year	0.00	6,310,836.31
045	Amounts adjusted during the year	1,071,463.17	0.00
046	Amounts reversed during the year	4,549,042.06	0.00
047	**Closing Balance**	**690,331.08**	**6,310,836.31**
048	**Provision for Arbitration**	**0.00**	**0.00**
049	Opening balance	50,479,147.78	37,030,944.78
050	Additions during the year	-26,912,706.72	13,448,203.00
051	Amounts used during the year	0.00	0.00
052	Amounts reversed during the year	0.00	0.00
053	**Closing Balance**	**23,566,441.06**	**50,479,147.78**
054	**Others**	**0.00**	**0.00**
055	Opening balance	0.00	0.00
056	Additions during the year	0.00	0.00
057	Amounts used during the year	0.00	0.00
058	Amounts reversed during the year	0.00	0.00
059	**Closing Balance**	**0.00**	**0.00**
102		0.00	0.00
104	**Total**	**24,456,772.14**	**56,789,984.09**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 38 TO THE FS-CL-CURRENT TAX LIABILITIES (NET)

(Amount in ₹)

	As at	31.03.2024	31.03.2023
001	**Current liabilities - current tax liabilities (net)**	**0.00**	**0.00**
002	Opening balance	0.00	0.00
003	Additions during the year	0.00	0.00
004	Amounts adjusted during the year	0.00	0.00
005	Less: Set off against taxes paid	0.00	0.00
007		0.00	0.00
008	**Closing Balance**	**0.00**	**0.00**

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 39 TO THE FS--DEFERRED REVENUE (Amount in ₹)

	As at	31.03.2024	31.03.2023
001	**Deferred Revenue**	**0.00**	**0.00**
002	On account of advance against depreciation	0.00	0.00
003	On account of income from foreign currency fluctuation	85,880,000.00	91,930,000.00
004	Government grants	0.00	0.00
007		0.00	0.00
008		0.00	0.00
009	**TOTAL**	**85,880,000.00**	**91,930,000.00**

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 39A TO THE FS--REGULATORY DEFERRAL ACCOUNT CREDIT BALANCES

[Amount in ₹]

	As at	31.03.2024	31.03.2023
001	Regulatory deferral account credit balances	0.00	0.00
002	Exchange Differences	0.00	0.00
003		0.00	0.00
005	**Total**	**0.00**	**0.00**

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Reason: AOA Commercial

Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 40 TO THE FS--REVENUE FROM OPERATIONS

(Amount in ₹)

	For the Year ended	31.03.2024	31.03.2023
001	**REVENUE FROM OPERATIONS**	**0.00**	**0.00**
002	**Sales**	**0.00**	**0.00**
003	Energy Sales (including Electricity Duty)	61,103,709,675.38	66,576,778,923.59
004	Less : Advance against depreciation deferred (net)	0.00	0.00
005	Add: Revenue recognized out of advance against depreciation	0.00	0.00
006	Add : Exchange fluctuation receivable from customers	0.00	0.00
007	Sale of energy through trading	0.00	0.00
008	Commission (NVVN)	0.00	0.00
009	**Sub total**	**61,103,709,675.38**	**66,576,778,923.59**
010	Less: Rebate to customers	814,891,307.00	915,723,122.46
011	**Energy Sales (Total)**	**60,288,818,368.38**	**65,661,055,801.13**
012	Consultancy, project management and supervision fees	0.00	0.00
013	Lease rentals on assets on Operating lease	0.00	0.00
014	Sale of Captive Coal	0.00	0.00
015	Intra Company Elimination	0.00	0.00
017	**Sub-total**	**0.00**	**0.00**
018	**Total - Sales**	**60,288,818,368.38**	**65,661,055,801.13**
019	Sale of fly ash/ash products	1,187,076,244.38	1,154,061,648.88
020	Less: Transferred to fly ash utilisation reserve fund	-1,187,076,244.38	-1,154,061,648.88
021	**Sub-total**	**0.00**	**0.00**
022	**Other Operating Income**	**0.00**	**0.00**
023	Interest from customers	796,770,698.00	249,104,452.00
024	Energy Internally Consumed *	77,196,022.00	89,594,340.00
025	Interest Income on Assets under finance lease	0.00	0.00
026	Recognized from deferred revenue - government grant	0.00	0.00
027	Provision written back- Tariff Adjustment	0.00	0.00
028	Income form Trading of ESCerts	17,974,725.99	15,914,354.01
029	Income from E-Mobility Business & others	0.00	0.00
030	Others	0.00	0.00
032		0.00	0.00
033		0.00	0.00
034	**Total**	**61,180,759,814.37**	**66,015,668,987.14**
040	* Valued at variable cost of generation and corresponding amount included in power charges (Note No. 42)	0.00	0.00
041	Excise duty on sale of flyash,cenospere & ash products	0.00	0.00
042	Energy sales of principal nature (NVVN)	0.00	0.00
043	Energy sales of agency nature (NVVN)	0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 41 TO THE FS-OTHER INCOME [Amount in ₹]

	For the Year ended	31.03.2024	31.03.2023
001	**OTHER INCOME**	**0.00**	**0.00**
002	**Interest from**	**0.00**	**0.00**
004	**Financial assets at amortised cost**	**0.00**	**0.00**
005	Government Securities (8.5% Tax Free Bonds issued by the State Governments)	0.00	0.00
006	Other Bonds	0.00	0.00
007	Non current Trade Receivable	0.00	0.00
008	Interest from Government of India Securities-Non-Trade	0.00	0.00
009	Less: Amortisation of premium	0.00	0.00
010	**Sub Total**	**0.00**	**0.00**
011	Interest from others	0.00	0.00
012	Loan to State Government in settlement of dues from customers	0.00	0.00
013	Loan to Subsidiary Companies	0.00	0.00
014	Loan to Employees	29,396,165.77	27,486,400.01
015	Deposit with banks	0.00	0.00
016	Foreign Banks	0.00	0.00
017	Interest from Contractors	0.00	13,411,733.00
018	Interest from Income Tax Refunds	0.00	0.00
019	Less : Refundable to Customers	0.00	0.00
020	**Sub Total**	**0.00**	**0.00**
021	Deposits with banks-flyash utilisation reserve fund	0.00	0.00
022	Less: transferred to flyash utilisation reserve fund	0.00	0.00
023	**Sub Total**	**0.00**	**0.00**
024	Deposits with banks- DDUGJY funds	0.00	0.00
025	Interest from Contractors- DDUGJY funds	0.00	0.00
026	Transfer to DDUGJY-Advance from customers	0.00	0.00
027	Sub-total	0.00	0.00
030	Others	38,768.04	-2,867,336.00
031	Other investments in Joint venture companies	0.00	0.00
032	**Dividend from**	**0.00**	**0.00**
033	**Longterm investments in**	**0.00**	**0.00**
034	Subsidiaries	0.00	0.00
035	Joint Ventures	0.00	0.00
036	Equity Instruments	0.00	0.00
037	**Current Investments in**	**0.00**	**0.00**
038	Mutual Funds measured at fairvalue through profit or loss	0.00	0.00
039	Current investments in mutual funds-flyash utilisation reserve fund	0.00	0.00
040		0.00	0.00
041	Less: transferred to flyash utilisation reserve fund	0.00	0.00
042	Lease Rent # Ash Brick Plant	0.00	0.00
043	Less: transferred to flyash utilisation reserve fund	0.00	0.00
044	Other non-operating income	190.00	[illegible]
045	Profit on disposal of PPE	111,041,205.16	[illegible]

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 41 TO THE FS- OTHER INCOME (Amount in ₹)

	For the Year ended	31.03.2024	31.03.2023
046	Profit on redemption of GOI securities	0.00	0.00
047	Net gain on sale of investments	0.00	0.00
048	Surcharge received from customers	6,744,422.00	43,301,453.00
049	Hire charges for equipment	0.00	0.00
050	Gain on option contract / Discount on F.ExchContract	0.00	0.00
051	Lease rent from investment property	0.00	0.00
052	Provision written back-others	33,054,984.78	4,782,386.66
053	Fair value gains/(losses) on investments in mutual funds at fair value through profit or loss	0.00	0.00
054	Interest from Solar payment security account	0.00	0.00
055	Less : Transferred to SPSA fund	0.00	0.00
056	Interest on "Retention on A/c BG encashment (Solar)"	0.00	0.00
057	Less : Transferred to "Retention on A/c BG encashment (Solar)"	0.00	0.00
058		0.00	0.00
059		0.00	0.00
060		0.00	0.00
061	Miscellaneous Income	294,203,412.16	245,346,294.28
062	**Total**	**475,079,147.91**	**331,468,837.79**
063	Less:Transferred to Development of Coal Mines-Note 47A	0.00	0.00
064	Less:Transferred to Expenditure during Construction period (net)- Note 47	0.00	19,812.00
065	Less: Others	0.00	0.00
066	Less:Transferred to payable to Govt. of Jharkhand	0.00	0.00
068		0.00	0.00
069		0.00	0.00
070	**Total**	**475,079,147.91**	**331,468,825.79**
071		0.00	0.00
101	**Details of Miscellaneous Income**	**0.00**	**0.00**
102	Vehicle Hire Charges.	112,000.00	135,599.60
103	Sale of by products & residuals	0.00	0.00
104	Township recoveries(ext. Hospital Recoveries).	98,642,013.14	215,620,350.73
105	Depreciation written back	0.00	0.00
106	Sale of Scrap.	126,166,947.44	99,543,580.24
107	Receipt under loss of profit policy.	0.00	0.00
108	Receipts under MBD/Fire Policy.	-1,275,557.00	1,275,557.00
109	Management development programme.	433,300.00	396,200.00
110	Management Fee - Misc (NVVN)	0.00	0.00
111	Others	100,134,708.58	-71,821,953.29
112		0.00	0.00
113		0.00	0.00
114	**Total (Miscellaneous Income)**	**294,203,412.16**	**245,346,294.28**
115		0.00	
131	**Details of Provision written back others**	**0.00**	**0.00**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 41 TO THE FS--OTHER INCOME [Amount in ₹]

	For the Year ended	31.03.2024	31.03.2023
132	Doubtful debts	0.00	0.00
133	Doubtful Loans, Advances and Claims	0.00	0.00
134	Doubtful Construction Advances	0.00	0.00
135	Shortage in Construction Stores	0.00	0.00
136	Shortage in Stores	316,159.00	3,446,784.00
137	Obsolescence in Stores	1,040.00	1,333,602.66
138	Unserviceable capital works	0.00	0.00
139	Other Obligation including Arbitration	28,388,743.72	0.00
140	Shortage in Fixed Assets	4,349,842.06	0.00
141	Diminution in value of investment	0.00	0.00
142		0.00	0.00
143		0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 42 TO THE FS-FUEL COST (Amount in ₹)

	For the Year ended	31.03.2024	31.03.2023
001	**FUEL COST**	**0.00**	**0.00**
002	Coal	0.00	0.00
003	Captive	0.00	0.00
004	Other than captive	43,960,865,878.63	49,712,301,666.05
005	Gas	0.00	0.00
006	Naptha	0.00	0.00
007	Oil	431,596,487.19	542,310,189.65
008	Biomass Pellets & Others	1,201,579,242.98	460,717,230.46
009		0.00	0.00
010		0.00	0.00
011	**Total**	**45,614,041,608.80**	**50,515,329,086.16**
012		0.00	0.00

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 43 TO THE FS-EMPLOYEE BENEFITS EXPENSE (Amount in ₹)

	For the Year ended	31.03.2024	31.03.2023
001	**EMPLOYEE BENEFITS EXPENSE**	**0.00**	**0.00**
002	Salaries and wages	2,373,191,542.84	2,159,930,461.30
003	Contribution to provident and other funds	387,656,233.58	298,176,218.29
004	Unwinding of deferred payroll expense	16,481,615.29	16,838,580.47
005	Staff welfare expenses	383,421,886.14	326,602,754.71
006	Less : Expenses transferred to Consultancy group	0.00	0.00
007		0.00	0.00
008	**Sub Total**	**3,160,751,277.85**	**2,801,348,114.79**
009	Less: Employee benefits expense allocated to fuel inventory	146,909,773.57	131,331,367.66
010	Less: Transferred/Allocated to development of coal mines - Note 47A	0.00	0.00
011	Less: Others	0.00	0.00
012	Less: Transferred to fly ash utilisation reserve fund	0.00	0.00
013	Less: Transferred to CSR Expenses	0.00	0.00
014	Reimbursements for employees on secondment	19,314.00	0.00
015	Less: Transferred to expenditure during construction period (net)- Note 47	45,721,029.28	55,596,727.67
016	Less: Transfer to Govt of Jharkhand A/c as recoverable	0.00	0.00
018		0.00	0.00
019	**TOTAL**	**2,968,101,161.02**	**2,614,519,079.46**
020	**Managerial Remuneration paid/ payable to Directors included above (except for Directors fee which is included in Note 42)**	**0.00**	**0.00**
021	Salaries and wages	0.00	0.00
022	Contribution to provident and other funds	0.00	0.00
023	Staff welfare expenses	0.00	0.00
024	Directors fee	0.00	0.00
025		0.00	0.00

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NATIONAL CAPITAL POWER STATION

NOTE NO. 44 TO THE FS--FINANCE COSTS [Amount in ₹]

	For the Year ended	31.03.2024	31.03.2023
001	**FINANCE COSTS**	**0.00**	**0.00**
002	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
003	Bonds	437,310,687.94	518,382,242.00
004	Government of India Loans	0.00	0.00
005	Foreign currency term loans	15,371,665.54	13,203,175.33
006	Rupee term loans	252,432,935.00	231,754,051.00
007	Public deposits	0.00	0.00
008	Foreign currency bonds/notes	0.00	0.00
009	Cash Credit	0.00	0.00
010	Unwinding of discount on account of vendor liabilities	3,248,358.29	1,953,893.81
011	Commercial Papers	0.00	0.00
012	**Sub Total**	**708,364,646.77**	**763,273,362.14**
013	Interest on non financial items	5,677.00	-617.08
014	**Other Borrowing Costs**	**0.00**	**0.00**
015	Bonds servicing & public deposit exp.	584,684.81	636,162.03
016	Guarantee fee	0.00	0.00
017	Management fee	0.00	0.00
018	Committ charges/exposure premium	0.00	-87,157.68
019	Bond issue expenses	0.00	0.00
020	Legal exp on foreign currency loans	0.00	0.00
021	Foreign currency bonds/notes exp.	0.00	0.00
022	Up-front fee	0.00	0.00
023	Insurance premium on foreign currency loans	0.00	0.00
024		0.00	0.00
025	Others	0.00	0.00
026	**Sub Total (Other Borrowing cost)**	**590,361.81**	**548,387.27**
027		0.00	0.00
028	**Exchange differences regarded as an adjustment to borrowing costs**	**317,156.28**	**2,623,963.63**
029	**Sub Total**	**709,272,164.86**	**766,445,713.04**
030	Less: Transferred to Expenditure during construction period (net) - Note 47	16,712,780.73	56,347,038.61
031	Less: Transferred to development of coal mines- Note 47A	0.00	0.00
032		0.00	0.00
034	**Total**	**692,559,384.13**	**708,098,674.43**

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NATIONAL CAPITAL POWER STATION

NOTE NO. 45 TO THE FS--DEPRECIATION, AMORTIZATION AND IMPAIRMENT EXPENSES (Amount in ₹)

	For the Year ended	31.03.2024	31.03.2023
001	**Depreciation, amortization and impairment expenses**	**0.00**	**0.00**
002	On property, plant and equipment- Note 2	1,960,501,563.84	2,433,633,118.71
003	On investment property- Note 2A	0.00	0.00
004	On intangible assets- Note 4	100,125,131.37	100,520,604.51
005		0.00	0.00
006	Sub-total	2,060,626,695.21	2,534,153,723.22
007	Less:	0.00	0.00
008	Allocated to fuel inventory	121,645,349.86	137,067,057.17
009	Transferred to Expenditure during Construction Period (net)- Note 47	0.00	0.00
010		0.00	0.00
011	Transferred/Allocated to development of coal mines - Note 47A	0.00	0.00
012	Adjustment with deferred revenue from deferred foreign currency fluctuation	6,050,000.00	19,329,000.00
013		0.00	0.00
015	**Total**	**1,932,931,345.35**	**2,377,757,666.05**

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 46 TO THE FS-OTHER EXPENSE

(Amount in ₹)

	For the Year ended	31.03.2024	31.03.2023
001	**OTHER EXPENSES**	**0.00**	**0.00**
002	Power charges	115,820,590.89	79,643,618.54
003	Less: Recovered from contractors & employees	17,738,781.78	17,318,876.79
004	**Sub-Total(Power Charges)**	**98,081,809.11**	**62,324,741.75**
005	Water charges	28,006,407.40	34,641,905.13
006	Stores consumed	52,556,267.63	33,497,513.21
007	Rent	0.00	0.00
008	Less Recoveries	0.00	0.00
009	**Sub-Total (Rent)**	**0.00**	**0.00**
010	Cost of captive coal produced	0.00	373,886.58
011	**Repairs & maintenance**	**0.00**	**0.00**
012	Buildings	69,136,917.63	57,343,840.92
013	Plant & machinery	0.00	0.00
014	Power stations	1,424,034,071.73	1,473,268,150.14
015	Construction equipment	0.00	0.00
016	Others	232,823,776.51	102,832,986.16
017	**Sub-total (Repairs & maintenance)**	**1,725,993,765.87**	**1,633,445,977.22**
019	Load Dispatch Center Charges	21,462,829.00	8,015,656.00
021	Insurance	100,491,370.68	103,543,116.40
022	Interest to beneficiaries	0.00	152,353,639.00
023	Rates and taxes	6,515,357.67	5,936,869.36
024	Water cess & environment protection cess	0.00	0.00
025	Training & recruitment expenses	14,191,124.56	8,171,483.21
026	Less: Receipts	0.00	0.00
027	**Sub-total (Training and recruitment expenses)**	**14,191,124.56**	**8,171,483.21**
028	Communication expenses	27,265,075.71	21,428,549.99
029	Inland Travel	85,919,461.11	87,390,371.66
030	Foreign Travel	696,970.34	237,842.94
031	Tender expenses	0.00	0.00
032	Less: Receipt from sale of tenders	0.00	9,000.00
033	**Sub-total (Tender expenses)**	**0.00**	**-9,000.00**
034	Payment to auditors	0.00	0.00
035	Audit fee	0.00	0.00
036	Tax audit fee	0.00	0.00
037	Other services	0.00	0.00
038	Reimbursement of expenses	0.00	3,914.00
039	**Sub-total (Payment to Auditors)**	**0.00**	**3,914.00**
040	Advertisement and publicity	3,904,069.59	619,819.48
041	Electricity duty	0.00	0.00
042	Security expenses	322,825,005.47	306,956,221.29
043	Entertainment expenses	25,862,877.70	23,521,571.22
044	Expenses for guest house	18,661,228.35	18,875,101.23
045	Less Recoveries	2,434,909.70	3,623,703.30
046	**Sub-Total (Guest house expenses)**	**16,226,318.65**	**15,151,397.93**
047	Education expenses	23,361,703.40	[illegible]
049	Donations	0.00	[illegible]

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NATIONAL CAPITAL POWER STATION

NOTE NO. 46 TO THE FS-OTHER EXPENSE [Amount in ₹]

	For the Year ended	31.03.2024	31.03.2023
050	Ash utilisation & marketing expenses	11,065,863.32	37,865,471.45
051	Directors sitting fee	0.00	0.00
053	Professional charges and consultancy fees	5,297,865.98	2,400,584.38
054	Legal expenses	13,326,308.97	11,181,391.52
055	EDP hire and other charges	23,672,985.11	28,582,411.43
056	Printing and stationery	1,941,733.24	1,986,275.93
057	Oil & gas exploration expenses	0.00	0.00
059	Hiring of vehicles	18,878,336.06	16,583,882.71
061	Reimbursement of L.C.charges on sales realisation	0.00	0.00
062	LOSS ON FAIR VALUATION OF NON- CURRENT TRADE RECEIVABLE AT AMORTISED COST	0.00	0.00
063	Cost of Hedging	0.00	0.00
064	Derivatives MTM loss/gain (Net)	1,749,249.00	0.00
065	Net loss/(gain) in foreign currency transactions & translations	-96,770,758.57	50,572,361.22
066	Transport Vehicle running expenses	16,530,719.07	15,618,664.97
067	Horticulture Expenses	17,367,300.25	15,916,135.98
068	Hire charges- helicopter/aircraft	0.00	0.00
069	Hire charges of construction equipment	0.00	0.00
070	Demurrage Charges	0.00	0.00
072		0.00	0.00
073	Miscellaneous expenses	85,199,676.91	18,572,641.42
074	Loss on disposal/write-off of PPE	27,451,064.00	39,232,419.90
075	**Sub-Total**	**2,681,100,406.83**	**2,791,148,180.18**
076	Less: Other expenses allocated to fuel inventory	259,603,179.84	254,835,327.02
077	Less: Transferred/Allocated to development of coal mines - Note 47A	0.00	0.00
078	Less: Transferred to fly ash utilisation reserve fund	11,077,626.90	37,865,471.45
079	Less: Hedging cost Net recoverable/payable from/to beneficiaries	1,749,249.00	0.00
080	Less: Others	0.00	0.00
081	Less: Transferred to CSR Expenses	2,009,595.00	0.00
082	Less:Transferred to Expenditure during Construction period(net)-Note 47	546,877.03	1,995,602.70
083	Less: Transfer to Govt of Jharkhand A/c as recoverable	0.00	0.00
084	**Net (Generation, Administration and Other expenses)**	**2,406,213,879.36**	**2,496,453,779.01**
085	Corporate Social Responsibility Expenses	36,083,138.94	63,542,662.29
086	Less: Grants-in-aid	0.00	0.00
087	**Sub-total (Corporate Social Responsibility Expenses)**	**36,083,138.94**	**63,542,662.29**
088	**Provisions**	**0.00**	**0.00**
089	Doubtful Debts	0.00	0.00
090	Doubtful loans, advances and claims	0.00	0.00
091	Doubtful Construction Advances	0.00	0.00
092	Shortage in stores	37,546.42	

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Date: 2024.
Reason: Approved
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 46 TO THE FS-OTHER EXPENSE (Amount in ₹)

	For the Year ended	31.03.2024	31.03.2023
093	Obsolete/Dimunition in the value of surplus stores	1,742,086.75	5,293,028.01
094	Shortage in construction stores	0.00	0.00
095	Dimunition in value of long term investments	0.00	0.00
096	Shortage in Fixed assets	0.00	6,310,836.31
097	Unfinished minimum work progress from oil & gas exploration	0.00	0.00
098	Unserviceable capital works	0.00	0.00
099	Tariff Adjustment	-47,814,000.00	-73,497,751.00
100	Others :	0.00	0.00
101	(i) Provision for arbitration cases	1,476,037.00	13,446,203.00
102	(ii) Other provisions	0.00	0.00
103	**Total (Provisions)**	**-44,358,329.83**	**-46,857,080.93**
104		0.00	0.00
106	**Total**	**2,397,938,688.47**	**2,513,139,380.36**
107		0.00	0.00
108	**Breakup of miscellaneous expenses.**	**0.00**	**0.00**
110	Hire charges of office equipment	0.00	1,260.00
112	Operating expenses of construction equipment	0.00	0.00
113	Operating expenses of D.G. sets	0.00	562,707.98
114	Furnishing expenses	3,616,043.24	372,283.42
115	Subscription to trade and other associations.	0.00	0.00
117	Visa and entry permit charges	0.00	0.00
118	Tree plantation exp. NTPC Land	3,279,620.72	0.00
119	Research & development expenses	4,394.00	0.00
120	Less : Grants received for Research & develoment expenses.	0.00	0.00
121	Sub-total (Research & developement expenses)	4,394.00	0.00
122	Bank charges	3,974.98	162,096.28
123	Business Development Expenditure	0.00	0.00
124	Surcharge (NVVN)	0.00	0.00
125	Power Trading Expenses	21,387,206.00	317,462.00
126	Brokerage & commission	8,706,329.98	4,002,599.16
130	Books and periodicals	54,383.47	38,247.51
131	Claims/advances written off	0.00	0.00
132	Stores written off	0.00	0.00
133	Survey &Investigation expenses written off	3,672,974.81	2,324,296.03
134	Others	44,474,739.71	10,791,589.04
135	**Total**	**85,198,676.91**	**18,572,641.42**
136		0.00	0.00
137		0.00	0.00
138		0.00	0.00

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Reason: AGM (Commercial)
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 47 TO THE FS-EXPENDITURE DURING CONSTRUCTION PERIOD (NET) (Amount in ₹)

	For the Year ended	31.03.2024	31.03.2023
001	**EXPENDITURE DURING CONSTRUCTION PERIOD (NET)**	**0.00**	**0.00**
002	A. Employee benefits expense	0.00	0.00
003	Salaries and wages	22,098,174.00	42,209,878.56
004	Contribution to provident and other funds	2,451,283.00	3,696,102.97
005	Unwinding of deferred payroll expenses	0.00	0.00
006	Staff welfare expenses	21,171,562.26	9,598,746.14
007	**Total (A)**	**45,721,029.26**	**55,506,727.67**
008	**B. Finance Costs**	**0.00**	**0.00**
009	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
010	Bonds	7,828,707.99	27,564,760.24
011	Foreign currency term loans	1,323,778.93	7,013,546.41
012	Rupee term loans	7,597,173.30	22,565,734.34
013	Foreign currency bonds/notes	0.00	0.00
014	Unwinding of discount on account of vendor liabilities	0.00	0.00
015	Others	0.00	0.00
016		0.00	0.00
017	Other Borrowings Costs	0.00	0.00
018	Guarantee Commission	0.00	0.00
019	Management Fees/Arrangers Fees	0.00	0.00
020	Commitment charges/Exposure Premium	0.00	47,[illegible]03.00
021	Legal Expenses on foreign currency loans	0.00	0.00
022	Foreign currency bonds/notes expenses	0.00	0.00
023	Foreign Credit Insurance Premium	0.00	0.00
024	Upfront Fee	0.00	0.00
025	Exchange Differences	0.00	0.00
026	Others	137,968.51	7[illegible]46.58
027	Exchange differences regarded as adjustment to interest cost	-174,748.00	[illegible]584.54
028	**Total (B)**	**16,712,780.73**	**58,347,038.61**
029		0.00	0.00
030	C. Depreciation and amortisation	0.00	0.00
031	**D. Generation , administration and other expenses**	**0.00**	**0.00**
032	Power charges	0.00	0.00
033	Less: Recovered from contractors & employees	0.00	24,685.00
034	**Sub-total(Net power charges)**	**0.00**	**-24,685.00**
035	Water charges	0.00	0.00
036	Rent	0.00	0.00
037	Repairs & maintenance	0.00	0.00
038	Buildings	-450,267.78	0.00
039	Construction equipment	0.00	0.00
040	Others	450,267.78	[illegible]
041		0.00	[illegible]
042	Insurance	0.00	[illegible]

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Reason: [illegible]
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 47 TO THE FS-EXPENDITURE DURING CONSTRUCTION PERIOD (NET) (Amount in ₹)

	For the Year ended	31.03.2024	31.03.2023
043	Rates and taxes	0.00	0.00
044	Communication expenses	123,713.10	383,187.20
045	Travelling expenses	399,625.50	1,236,737.55
046	Tender expenses	0.00	0.00
047	Less: Income from sale of tenders	0.00	0.00
048	**Sub-total (Net tender expenses)**	**0.00**	**0.00**
049	Advertisement and publicity	0.00	0.00
050	Security expenses	0.00	0.00
051	Entertainment expenses	23,638.33	120,257.90
052	Guest house expenses	0.00	0.00
053	Less: Receipt from guest house	0.00	0.00
054	**Sub-total (Net Guest House Expenses)**	**0.00**	**0.00**
055	Education expenses	0.00	0.00
056	Brokerage & Commission	0.00	0.00
057	Books and periodicals	0.00	0.00
058	Community development expenses	0.00	0.00
059	Professional charges and consultancy fee	0.00	0.00
060	Legal expenses	0.00	0.00
061	EDP Hire and other charges	0.00	169,680.96
062	Printing and stationery	0.00	0.00
063	Miscellaneous expenses	0.00	108,424.09
064	**Total (D)**	**546,877.03**	**1,995,602.70**
065	**Total (A+B+C+D)**	**62,980,687.02**	**115,549,368.99**
066	**E. Less: Other Income**	**0.00**	**0.00**
067	Interest from	0.00	0.00
068	Indian banks	0.00	0.00
069	Foreign banks	0.00	0.00
070	Others	0.00	0.00
071	Contractors	0.00	0.00
072	Hire charges	0.00	0.00
073	Sale of scrap	0.00	0.00
074	Exchange Differences	0.00	0.00
075	Miscellaneous Income	0.00	19,812.00
076	**TOTAL (E)**	**0.00**	**19,812.00**
077	F. Net actuarial gain/loss OCI	0.00	-71,479.68
078		0.00	0.00
079	**GRAND TOTAL (A+B+C+D-E+F)**	**62,980,687.02**	**115,758,077.30**
080		0.00	0.00
081	*** Balance carried to Capital Work-in-progress - (Note 3)**	**62,980,687.02**	**115,758,077.30**

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Reason: AGM Commercial
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 47A TO THE FS–EDC- COAL MINING

(Amount in ₹)

	For the Year ended	31.03.2024	31.03.2023
001	**EDC- Coal Mining**	**0.00**	**0.00**
002	A. Employee benefits expense	0.00	0.00
003	Salaries and wages	0.00	0.00
004	Contribution to provident and other funds	0.00	0.00
005	Unwinding of deffered payroll expenses	0.00	0.00
006	Staff welfare expenses	0.00	0.00
007	**Total (A)**	**0.00**	**0.00**
008	**B. Finance Costs**	**0.00**	**0.00**
009	Finance charges on financial liabilities measured at amortised cost	0.00	0.00
010	Bonds	0.00	0.00
011	Foreign currency term loans	0.00	0.00
012	Rupee term loans	0.00	0.00
013	Foreign currency bonds/notes	0.00	0.00
014	Unwinding of discount on account of vendor liabilities	0.00	0.00
015	Others	0.00	0.00
016		0.00	0.00
017	Other Borrowings Costs	0.00	0.00
018	Guarantee Commission	0.00	0.00
019	Management Fees/Arrangers Fees	0.00	0.00
020	Commitment charges/Exposure Premium	0.00	0.00
021	Legal Expenses on foreign currency loans	0.00	0.00
022	Foreign currency bonds/notes expenses	0.00	0.00
023	Foreign Credit Insurance Premium	0.00	0.00
024	Upfront Fee	0.00	0.00
025	Exchange Differences	0.00	0.00
026	Others	0.00	0.00
027	Exchange differences regarded as adjustment to interest cost	0.00	0.00
028	**Total (B)**	**0.00**	**0.00**
029		0.00	0.00
030	C. Depreciation and amortisation	0.00	0.00
031	**D. Generation , administration and other expenses**	**0.00**	**0.00**
032	Power charges	0.00	0.00
033	Less: Recovered from contractors & employees	0.00	0.00
034	**Sub-total(Net power charges)**	**0.00**	**0.00**
035	Water charges	0.00	0.00
036	Rent	0.00	0.00
037	Repairs & maintenance	0.00	0.00
038	Buildings	0.00	0.00
039	Construction equipment	0.00	0.00
040	Others	0.00	0.00
041	Cost of Captive Coal	0.00	0.00
042	Insurance	0.00	0.00
043	Rates and taxes	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 47A TO THE FS--EDC- COAL MINING

(Amount in ₹)

	For the Year ended	31.03.2024	31.03.2023
044	Communication expenses	0.00	0.00
045	Travelling expenses	0.00	0.00
046	Tender expenses	0.00	0.00
047	Less: Income from sale of tenders	0.00	0.00
048	**Sub-total (Net tender expenses)**	**0.00**	**0.00**
049	Advertisement and publicity	0.00	0.00
050	Security expenses	0.00	0.00
051	Entertainment expenses	0.00	0.00
052	Guest house expenses	0.00	0.00
053	Less: Receipt from guest house	0.00	0.00
054	**Sub-total (Net Guest House Expenses)**	**0.00**	**0.00**
055	Education expenses	0.00	0.00
056	Brokerage & Commission	0.00	0.00
057	Books and periodicals	0.00	0.00
058	Community development expenses	0.00	0.00
059	Professional charges and consultancy fee	0.00	0.00
060	Legal expenses	0.00	0.00
061	EDP Hire and other charges	0.00	0.00
062	Printing and stationery	0.00	0.00
063	Miscellaneous expenses	0.00	0.00
064	**Total (D)**	**0.00**	**0.00**
065	**Total (A+B+C+D)**	**0.00**	**0.00**
066	**E. Less: Other Income**	**0.00**	**0.00**
067	Interest from	0.00	0.00
068	Indian banks	0.00	0.00
069	Foreign banks	0.00	0.00
070	Others	0.00	0.00
071	Contractors	0.00	0.00
072	Hire charges	0.00	0.00
073	Sale of scrap	0.00	0.00
074	Exchange Differences	0.00	0.00
075	Miscellaneous income	0.00	0.00
076	**TOTAL (E)**	**0.00**	**0.00**
077	F. Net actuarial gain/loss OCI	0.00	0.00
078		0.00	0.00
079	**GRAND TOTAL (A+B+C+D-E+F)**	**0.00**	**0.00**
080		0.00	0.00
081	*** Balance carried to Capital Work-in-progress - (Note 3)**	**0.00**	**0.00**

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Date: 2024 IST 14:29 IST
Reason: AGM (Commercial)
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 48A TO THE FINANCIAL STATEMENTS (Amount in ₹)

	As at	31.03.2024	31.03.2023
001	Balance sheet	0.00	0.00
002	Freehold land for which conveyancing of the title is awaiting completion of legal formalities	0.00	0.00
003	(a) area (in acres)	0.00	0.00
004	(b) value (in rs)	0.00	0.00
005	Right-of-use land for which execution of lease deed is awaiting completion of legal formalities	0.00	0.00
006	(a) area (in acres)	0.00	0.00
007	(b) value (in rs)	0.00	0.00
008	Right-of-use land acquired on perpetual lease and accordingly not amortised	0.00	0.00
009	(a) area (in acres)	0.00	0.00
010	(b) value (in rs.)	0.00	0.00
011	Land in physical possession of the company which has not been shown in the books pending settlement of price (in acres)	0.00	0.00
012	Deposit with government authorities towards land in possession of the company included in cost of land which is subject to adjus	0.00	0.00
013	**Land not in possession of the company**	**0.00**	**0.00**
014	(a) area (in acres)	0.00	0.00
015	-Freehold	0.71	0.71
016	-Right of Use	0.00	0.00
017	(b) value (in rs)	0.00	0.00
018	-Freehold	1,458,014.90	1,458,014.90
019	-Right of Use	0.00	0.00
020	Right-of-use buildings pending completion of legal formalities - value (in rs.)	0.00	0.00
021	Estimated amount of contracts remaining to be executed on capital account and not provided for	0.00	0.00
022	Property, plant & equipment	1,404,611,453.00	1,650,748,085.00
023	Intangible assets	0.00	0.00
024	Details of precommissioning expenditure	0.00	0.00
025	(a) precommissioning expenses	0.00	0.00
026	(b) precommissioning income	0.00	0.00
027	(c) net precommissioning expenditure	0.00	0.00
028		0.00	0.00
029		0.00	0.00
030		0.00	0.00
031	Exchange rate variation taken to revenue during the year (with -ve sign, if favourable)	31,250,674.55	50,572,301.22
045	Exchange rate variation capitalised during the year (with -ve sign, if favourable)	-174,748.00	333,504.54
064	Short Term Leases	0.00	0.00
065	A) Rent	0.00	0.00
066	Company lease accomodation - executives	0.00	0.00
067	Company lease accomodation - directors	0.00	0.00
068	Others	0.00	0.00

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Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 48A TO THE FINANCIAL STATEMENTS

(Amount in ₹)

	As at	31.03.2024	31.03.2023
069	**Total**	**0.00**	**0.00**
101	Borrowing cost capitalised during the year	16,712,790.73	58,347,038.81
102	Revenue grants recognized during the year	0.00	0.00
103	Revenue expenditure on research and development	94,826,306.89	48,838,286.37
104	Capital expenditure on research and development	17,890,306.00	6,723,446.00
105	Expenditure on sustainibility development - capital	0.00	0.00
106	Expenditure on csr- capital	0.00	0.00
107	Opening balance - CSR Liability	0.00	0.00
108	Paid/Adjusted during the Year out of Opening above	0.00	0.00
109	Amount yet to be paid against Cr Year CSR Exp	2,237,944.00	10,156,310.00
110	Closing Balance CSR- Liability (110)	0.00	10,156,310.00
111		0.00	0.00
112		0.00	0.00
113	**Disclosure under msmed act 2006**	**0.00**	**0.00**
114	Long-term	0.00	0.00
115	Short-term	-233,394,365.95	0.00
116	**(i) (a) the principal amount remaining unpaid as at year end**	**-233,394,365.95**	**0.00**
117	(i) (b) interest due there on remaining unpaid as at Year end	0.00	0.00
118	(ii) the amount of interest paid by the buyer in terms of section 16, along with the amounts of the payment made to the supplier	0.00	0.00
119	(iii) the amount of interest due and payable for the period of delay in making payment(which has been paid but beyond the appoin	0.00	0.00
120	(iv) the amount of interest accrued and remaining unpaid at the end of the year; and	0.00	0.00
121	(v) the amount of further interest remaining due and payable even in the succeeding years, until such date when the interest due	0.00	0.00
122	Amount of inventories recognized as an expense (including fuel)	45,577,373,590.19	50,738,359,778.29
123	Amount of inventories capitalised as overhauling assets out of 122 above	176,727,615.57	96,602,593.37
124	Amount capitalised as edc out of 122 above	0.00	0.00
133	Value of Imported Material Consumed during the Year	0.00	0.00
134		0.00	0.00
135	Contingent liabilities	0.00	0.00
136	A. Claims against the company not acknowledged as debts in respect of :	0.00	0.00
137	(i)Capital works	4,011,403,231.75	3,603,486,243.00
138	(ii)Land compensation cases	107,270,787.10	104,821,836.10
139	(iii)Others by state authorities towards:-	0.00	0.00
140	(a) Water royalty / water charges / nala tax	0.00	0.00
141	(b) Diversion of land / building permission fees	0.00	0.00

NATIONAL CAPITAL POWER STATION

NOTE NO. 48A TO THE FINANCIAL STATEMENTS

(Amount in ₹)

	As at	31.03.2024	31.03.2023
142	(c) Other demands by state authorities	0.00	0.00
143	(iv) Others by fuel companies	0.00	0.00
144	(a) Disputes related to grade slippage-third party sampling	747,688,853.67	595,732,986.80
145	(b) Surface transportation charges on coal	15,365,368.00	15,365,368.00
146	(c.) Take or pay claim - Gas stations	0.00	0.00
147	(d) Other claims by fuel companies not acknowledged as debt	175,936,517.00	175,936,517.00
149	B.Disputed tax demands	0.00	0.00
150	(i) Income tax	0.00	0.00
151	(ii) Excise duty	0.00	0.00
152	(iii) Sales tax	150,325,266.00	146,334,586.00
153	(iv) Service tax/GST	38,464,198.59	29,186,503.55
154	(v) Entry tax	41,242,051.00	39,062,569.00
155	C. Others	83,065,201.54	20,435,756.38
156	**Total**	**5,370,705,474.65**	**4,724,182,379.93**
157	D. Possible reimbursement on account of contingent liabilities	0.00	0.00
158	(i) Capital works	0.00	0.00
159	(ii)Land compensation cases	0.00	0.00
160	(iii)Others (by state authorities)	0.00	0.00
161		0.00	0.00
162	(iv) Others by fuel companies	938,990,738.67	787,034,871.80
163	(v) Disputed income tax demand	0.00	0.00
164	(vi) Disputed tax demands -others	31,981,192.59	15,428,226.00
165	(vii) Others	7,299,187.00	7,299,187.00
167	**Total**	**978,271,118.26**	**809,762,284.80**
168	E.AMOUNT PAID UNDER PROTEST/ADJUSTED BY AUTHORITIES - TAX CASES	0.00	0.00
169	F.CONTINGENT ASSETS	0.00	0.00
170	Intangible under development : less than 1 year	0.00	0.00
171	Intangible under development #. 1-2 year	0.00	0.00
227	Intangible under development #. 2-3 year	0.00	0.00
277	Intangible under development #. More than 3 years	0.00	0.00
278	**Capital-Work-in Progress (CWIP)**	**0.00**	**0.00**
279	Projects in progress	1,483,532,038.91	2,266,457,185.49
280	Projects temporarily suspended	0.00	0.00
281		0.00	0.00
282		0.00	0.00
283	**Projects in progress**	**0.00**	**0.00**
284	Less than 1 year	529,437,963.81	312,861,701.08
285	1-2 years	150,579,070.34	641,696,743.42
286	2-3 years	181,502,800.01	422,012,214.95
287	More than 3 years	622,012,214.95	[illegible]
288	**Sub Total (I)**	**1,483,532,038.91**	**[illegible]**
289		0.00	

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Reason: [illegible]
Location: NTPC Limited

NATIONAL CAPITAL POWER STATION

NOTE NO. 48A TO THE FINANCIAL STATEMENTS

(Amount in ?)

	As at	31.03.2024	31.03.2023
290	**Projects temporarily suspended**	**0.00**	**0.00**
291	Less than 1 year	0.00	0.00
292	1-2 years	0.00	0.00
293	2-3 years	0.00	0.00
294	More than 3 years	0.00	0.00
295	**Sub Total (II)**	**0.00**	**0.00**
296		0.00	0.00
380	Previous year figures have been regrouped/rearranged wherever necessary.	0.00	0.00

Document verified by PARIMAL PITLISH
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Location: NTPC Limited