

Petition No :



A Maharatna Company

Faridabad Gas Power Station

431.586 MW

**PETITION FOR DETERMINATION OF TARIFF
FOR THE PERIOD
01.04.2019 TO 31.03.2024**

BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

PETITION NO.....

IN THE MATTER : Petition Under Section 62 and 79 (1) (a) of the
OF Electricity Act, 2003 read with Chapter-V of the
Central Electricity Regulatory Commission (Conduct
of Business) Regulations, 1999 and Chapter-3,
Regulation-9 of Central Electricity Regulatory
Commission (Terms and Conditions of Tariff)
Regulations, 2019 for approval of tariff of Faridabad
Gas Power Station (431.586 MW) for the period from
01.04.2019 to 31.03.2024

INDEX

Sl. No.	Description	Page No.
1	Petition	1 - 6
2	Affidavit	7 - 8
3	Appendix-I	9 - 46
4	Annexure-A	47 - 54
5	Annexure-B	55 - 63
6	Annexure-C	64



BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

PETITION NO.....

**IN THE MATTER
OF**

: Petition Under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-V of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999 and Chapter-3, Regulation-9 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for approval of tariff of **Faridabad Gas Power Station (431.586 MW) for the period from 01.04.2019 to 31.03.2024.**

**AND
IN THE MATTER
OF**

Petitioner:

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

Respondents

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

The Petitioner humbly states that:

- 1) The Petitioner herein NTPC Ltd. (hereinafter referred to as '**Petitioner**' or '**NTPC**'), is a company incorporated under provisions of the Company Act, 1956 and a Government Company as defined under Section 2(45) of the



Companies Act, 2013. Further, NTPC is a 'Generating Company' as defined under Section 2(28) of the Electricity Act, 2003.

- 2) In terms of Section 79(1)(a) of Electricity Act, 2003, the Hon'ble Commission has been vested with the functions to regulate the tariff of NTPC, being a Generating Company owned and controlled by the Central Government. The regulation of the tariff of NTPC is as provided under Section 79(1)(a) read with Section 61, 62 and 64 of the Electricity Act, 2003 and the Regulations notified by the Hon'ble Commission in exercise of powers under Section 178 read with Section 61 of the Electricity Act, 2003.
- 3) The Petitioner is having power stations/ projects at different regions and places in the country. **Faridabad Gas power Station, 431.586 MW (2 GTs x 140.827 MW+ 1 ST x 149.932 MW)** (hereinafter referred to as **Faridabad GPS**) is one such station located in the State of Haryana. The power generated from **Faridabad GPS** is being supplied to the respondent herein above.
- 4) 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 01.04.2019, specifying the terms & conditions and methodology of tariff determination for the period 01.04.2019 to 31.03.2024.
- 5) Regulation 9(2) of Tariff Regulations 2019 provides as follows:
"(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.”

The date of filing of Tariff Petition for the period 2019-24 has subsequently been extended by Hon'ble Commission vide order dated 28.10.2019 in Petition No. 331/MP/2019.

In terms of above, the Petitioner is filing the present petition for determination of tariff for **Faridabad GPS** for the period from 01.04.2019 to 31.03.2024 as per the Tariff Regulations 2019.

- 6) The tariff of the **Faridabad GPS** for the tariff period 1.4.2014 to 31.3.2019 was determined by the Hon'ble Commission vide its order dated 31.05.2016 in Petition No. 286/GT/2014 in accordance with the CERC (Terms & Conditions of Tariff) Regulations, 2014. The petitioner vide affidavit dated 25.10.2019 had filed a separate true up petition for the period 01.04.2014 to 31.03.2019 for revision of tariff in line with the applicable provisions of Tariff Regulations 2014.
- 7) It is submitted that Hon'ble Commission vide order dated 31.05.2016 in Petition no 286/GT/2014 has allowed a capital cost of Rs 978.8191 Cr as on 31.03.2019 based on the admitted projected capital expenditure for the 2014-19 period. However, the actual closing capital cost as on 31.03.2019 has been worked out in the aforesaid true-up petition as Rs 1007.5406 Cr based on the actual expenditure after truing up exercise for the period 2014-19. Accordingly, the Petitioner has adjusted an amount of Rs 28.7215 Cr from the admitted capital cost as on 31.03.2019 and accordingly the opening capital cost as on

01.04.2019 has been considered as Rs 1007.5406 Cr. in the instant petition. The Hon'ble Commission may be pleased to accordingly adopt this adjustment in the admitted capital cost as on 31.3.2019 and determine the tariff in the present petition for the period 2019-24.

- 8) The capital expenditure claimed in the instant petition is based on the opening capital cost as on 01.04.2019 considered as above and estimated projected estimated capital expenditures for the period 2019-24 under Regulation 19 and Regulation 25 and 26 of the Tariff Regulations, 2019.
- 9) The Petitioner further respectfully submits that as per Regulation 35(1)(6) of the Tariff Regulations 2019, the water charges, security expenses and capital spares consumed for thermal generating stations are to be allowed separately. The details in respect of water charges such as type of cooling water system, water consumption, rate of water charges as applicable for 2018-19 have been furnished below.

Description	Remarks
Type of Plant	Gas
Type of cooling water system	Closed Cycle
Consumption of Water	336,00,000 cft
Rate of Water charges	Rs 0.12 per cft/ 0.28 per cft
Total Water Charges	Rs 68.91 Lakh

Based on the rates of water charges applicable as on 01.04.2019 and estimated water consumption for 2019-24 period, water charges for 2019-24 period have been claimed in the instant petition. Accordingly, water charges may be allowed in tariff based on the same for 2019-24 period. In accordance with the

provisions of the Regulations, the petitioner shall be furnishing the details of actual water charges for the relevant years at the time of truing up and the same shall be subject to retrospective adjustment.

- 10) Similarly, the Petitioner is claiming the security expenses based on the estimated expenses for the period 2019-24, the same shall be subject to retrospective adjustment based on actuals at the time of truing up. In respect of capital spares consumption, it is submitted that the same shall be claimed at the time of true-up in terms of the proviso to the Regulation 35 (1)(6) based on actual consumption of spares during the period 2019-24
- 11) It is submitted that the Petitioner has already paid the requisite filing fee vide UTR No. CMS1106438370 on 22.04.2019 for the year 2019-20 and the details of the same have been duly furnished to the Hon'ble Commission vide our letter dtd 25.04.2019. For the subsequent years, it shall be paid as per the provisions of the CERC (Payment of Fees) Regulations, 2012 as amended. Further, Regulation 70 (1) of Tariff Regulations, 2019 provides that the application fee and publication expenses may be allowed to be recovered directly from the beneficiaries at the discretion of the Hon'ble Commission. Accordingly, it is prayed that Hon'ble Commission may be pleased to allow recovery of filing fee and publication expenses directly from the beneficiaries.
- 12) The petitioner has accordingly calculated the tariff for 2019-24 period based on the above and the same is enclosed as **Appendix-I** to this petition.
- 13) It is submitted the Petitioner has served the copy of the Petition on to the Respondent mentioned herein above and has posted the Petition on the company website i.e. www.ntpc.co.in.



- 14) It is submitted that the petitioner is filing this tariff petition subject to the outcome of its various appeals/ petitions pending before different courts. Besides, the petitions filed by NTPC for determination of capital base as on 31.3.2019 through true-up exercise are pending before the Hon'ble Commission and would take some time. The Petitioner, therefore, reserves its right to amend the tariff petition as per the outcome in such appeals/ petitions, if required.

Prayers

In the light of the above submissions, the Petitioner, therefore, prays that the Hon'ble Commission may be pleased to:

- i) Approve tariff of Faridabad GPS for the tariff period 01.04.2019 to 31.03.2024.
- ii) Allow the recovery of filing fees as & when paid to the Hon'ble Commission and publication expenses from the beneficiaries.
- iii) Pass any other order as it may deem fit in the circumstances mentioned above.


27.01.2020
Petitioner

**BEFORE THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

PETITION NO.....

IN THE MATTER OF : Petition Under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-V of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999 and Chapter-3, Regulation-9 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for approval of tariff of Faridabad Gas Power Station (431.586 MW) for the period from 01.04.2019 to 31.03.2024.

AND

IN THE MATTER OF : NTPC Limited,
NTPC Bhawan, SCOPE Complex,
7, Institutional Area, Lodhi Road,
New Delhi – 110 003
..... Petitioner

Versus

1. Haryana Power Purchase Centre
Shakti Bhawan, Sector-IV
Panchkula, Haryana –
.....Respondents



AFFIDAVIT IN SUPPORT

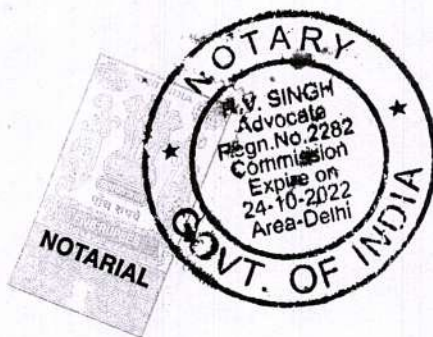
I, Manoj Kumar Sharma, son of Shri Shivswaroop Sharma, aged about 39 years, working in NTPC Ltd having office at Core-6, 6th Floor, Scope Complex, Lodhi road, New Delhi-110003 do solemnly affirm and state as follows:

1. I am working as Deputy General Manager (Commercial) in Petitioner Corporation NTPC Ltd., and am well conversant with the facts of the case and am competent to swear the present affidavit.
2. The statements made in the accompanying Petition being filed for approval of tariff of Faridabad Gas Power Station (431.586 MW) for the period from 01.04.2019 to 31.03.2024 are based on the official records maintained during the ordinary course of business and believed by the deponent to be true.


(DEPONENT)

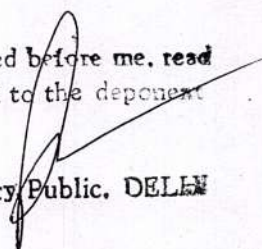
VERIFICATION

I, the deponent above named, do hereby verify that the contents of the above affidavit are true to the best of my knowledge, no part of it is false and nothing material has been concealed there from.




(DEPONENT)

Solemnly affirmed before me, read
over & explained to the deponent


Notary Public, DELHI

8

27 JAN 2020

TARIFF FILING FORMS (THERMAL)

FOR DETERMINATION OF TARIFF

FOR

Faridabad Gas Power Station

(From 01.04.2019 to 31.03.2024)

PART-I

ANNEXURE-I

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- 4	Details of Foreign loans	NA
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	NA
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	NA
FORM- 14	Draw Down Schedule for Calculation of IDC & Financing Charges	NA
FORM- 15	Details of Fuel for Computation of Energy Charges : Natural Gas	✓
FORM- 15A***	Details of Fuel for Computation of Energy Charges : RLNG	✓
FORM- 15B***	Details of Fuel for Computation of Energy Charges : Liquid Fuel	✓
FORM- 15C***	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	***

Provided yearwise for the period 2019-24

** Additional Forms

*** Shall be provided at the time of true up

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-à-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 Woks 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	✓

*** Shall be provided at the time of true up

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. 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	NA
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	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify the formats suitably as per available information to them for submission of required information for tariff purpose.	NA

*** Shall be provided at the time of true up

**PART-I
FORM- 1**

Summary of Tariff

Name of the Petitioner:	NTPC Limited
Name of the Generating Station:	Faridabad Gas Power Station
Place (Region/District/State):	Northern Region/ Faridabad/ Haryana

S. No.	Particulars	Unit	Amount in Rs. Lakhs								
			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	2,440.64	2,441.75	2,725.37	3,075.56	3,075.56	3,075.56	3,075.56	3,075.56	
1.2	Interest on Loan	Rs Lakh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1.3	Return on Equity	Rs Lakh	9,453.75	8,987.18	9,075.19	9,162.08	9,162.08	9,162.08	9,162.08	9,162.08	
1.4	Interest on Working Capital	Rs Lakh	3,994.58	3,824.21	3,849.87	3,876.14	3,896.44	3,896.44	3,916.56	3,916.56	
1.5	O&M Expenses	Rs Lakh	9,607.06	8865.74	9173.29	9490.86	9818.51	10160.61	10160.61	10160.61	
	Total	Rs Lakh	25496.03	24118.89	24823.72	25604.64	25952.59	26314.81			
2.1	Landed Fuel Cost (Domestic gas)	Rs/1000SCM			14162.18						
	(%) of Fuel Quantity	(%)			85.97						
2.2	Landed Fuel Cost (RLNG)	Rs/1000SCM			40338.693						
	(%) of Fuel Quantity	(%)			13.98						
2.3	Landed Fuel Cost (Liquid Fuel)	Rs/KI			31383.369						
	(%) of Fuel Quantity	(%)			0.05						
2.4	Secondary fuel oil cost (ex-bus)	Rs/Kwh			NA						
2.5	Energy Charge Rate (Gas) ex-bus-CC	Rs/Kwh			3.136						
2.6	Energy Charge Rate (LNG) ex-bus-CC	Rs/Kwh			8.947						
2.7	Energy Charge Rate(Naptha ex-bus-CC	Rs/Kwh			7.034						
2.8	Weighted Average Energy Charge Rate ex-bus-CC	Rs/Kwh			3.950						


(Petitioner)

**PART-I
FORM- 1(I)**

Name of the Petitioner:	NTPC Limited
Name of the Generating Station:	Faridabad Gas Power Station

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	1,00,754.06	1,00,794.06	1,03,899.06	1,03,899.06	1,03,899.06
2	Add: Addition during the year/period	40.00	3,105.00	-	-	-
3	Less: De-capitalisation during the year/period	-	-	-	-	-
4	Less: Reversal during the year / period	-	-	-	-	-
5	Add: Discharges during the year/ period	-	-	-	-	-
6	Closing Capital Cost	1,00,794.06	1,03,899.06	1,03,899.06	1,03,899.06	1,03,899.06
7	Average Capital Cost	1,00,774.06	1,02,346.56	1,03,899.06	1,03,899.06	1,03,899.06

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	100754.06	100794.06	103844.06	103844.06	103844.06
2	Add: Addition during the year / period	40.00	3,050.00	-	-	-
3	Less: De-capitalisation during the year / period	-	-	-	-	-
4	Less: Reversal during the year / period	-	-	-	-	-
5	Add: Discharges during the year / period	-	-	-	-	-
6	Closing Capital Cost	100794.06	103844.06	103844.06	103844.06	103844.06
7	Average Capital Cost	100774.06	102319.06	103844.06	103844.06	103844.06

**PART-I
FORM- 1(I)**

Name of the Petitioner:	NTPC Limited
Name of the Generating Station:	Faridabad Gas Power Station
Amount in Rs. Lakhs	

**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	-	-	55.00	55.00	55.00
2	Add: Addition during the year / period	-	55.00	-	-	-
3	Less: De-capitalisation during the year / period	-	-	-	-	-
4	Less: Reversal during the year / period	-	-	-	-	-
5	Add: Discharges during the year / period	-	-	-	-	-
6	Closing Capital Cost	-	55.00	55.00	55.00	55.00
7	Average Capital Cost	-	27.50	55.00	55.00	55.00


(Petitioner)

**PART-I
FORM- 1(IIA)**

Name of the Petitioner: **NTPC Limited**
 Name of the Generating Station: **Faridabad Gas Power Station**

Statement showing Return on Equity at Normal Rate

S. No.	Particulars	Amount in Rs. Lakhs				
		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)	47,843.95	47,855.95	48,770.95	48,770.95	48,770.95
2	Less: Adjustment in Opening Equity	-				
3	Adjustment during the year		0.00	0.00	0.00	0.00
4	Net Opening Equity (Normal)	47,843.95	47,855.95	48,770.95	48,770.95	48,770.95
5	Add: Increase in equity due to addition during the year / period	12.00	915.00	-	-	-
7	Less: Decrease due to De-capitalisation during the year / period	-	-	-	-	-
8	Less: Decrease due to reversal during the year / period	-	-	-	-	-
9	Add: Increase due to discharges during the year / period	-	-	-	-	-
10	Net closing Equity (Normal)	47,855.95	48,770.95	48,770.95	48,770.95	48,770.95
11	Average Equity (Normal)	47,849.95	48,313.45	48,770.95	48,770.95	48,770.95
12	Rate of ROE (%)	18.782	18.782	18.782	18.782	18.782
13	Total ROE	8,987.18	9,074.23	9,160.16	9,160.16	9,160.16


 (Petitioner)

Name of the Petitioner:

NTPC Limited

Name of the Generating Station:

Faridabad Gas Power Station

Statement showing Return on Equity at Weighted Average Interest Rate

S. No.	Particulars	Amount in Rs. Lakhs						
		2019-20	2020-21	2021-22	2022-23	2023-24		
1	2	3	4	5	6	7		
	Return on Equity (beyond the original scope of work excluding additional capitalization due to Change in Law)							
1	Gross Opening Equity (Normal)	-	-	16.50	16.50	16.50	16.50	16.50
2	Less: Adjustment in Opening Equity	-	-	-	-	-	-	-
3	Adjustment during the year	-	-	-	-	-	-	-
4	Net Opening Equity (Normal)	-	-	16.50	16.50	16.50	16.50	16.50
5	Add: Increase in equity due to addition during the year / period	-	16.50	-	-	-	-	-
7	Less: Decrease due to De-capitalisation during the year / period	-	-	-	-	-	-	-
8	Less: Decrease due to reversal during the year / period	-	-	-	-	-	-	-
9	Add: Increase due to discharges during the year / period	-	-	-	-	-	-	-
10	Net closing Equity (Normal)	-	16.50	16.50	16.50	16.50	16.50	16.50
11	Average Equity (Normal)	-	8.25	16.50	16.50	16.50	16.50	16.50
12	Rate of ROE (%)	11.609	11.609	11.609	11.609	11.609	11.609	11.609
13	Total ROE	0.00	0.96	1.92	1.92	1.92	1.92	1.92



(Petitioner)

Plant Characteristics

Name of the Petitioner	NTPC Ltd		
Name of the Generating Station	Faridabad Gas Power Station		
Unit(s)/Block(s)/Parameters	GT-1	GT-2	ST-1
Installed Capacity (MW)	140.827	140.827	149.932
Schedule COD as per Investment Approval			
Actual COD	01.01.2001		
Pit Head or Non Pit Head	NA		
Name of the Boiler Manufacture			
Name of Turbine Generator Manufacture			
Main Steams Pressure at Turbine inlet (kg/Cm²) abs	Not Applicable		
Main Steam Temperature at Turbine inlet (°C)			
Reheat Steam Pressure at Turbine inlet (kg/Cm²)			
Reheat Steam Temperature at Turbine inlet (°C)			
Main Steam flow at Turbine inlet under MCR condition (tons /hr)			
Main Steam flow at Turbine inlet under VWO condition (tons /hr)			
Unit Gross electrical output under MCR /Rated condition (MW)			
Unit Gross electrical output under VWO condition (MW)			
Guaranteed Design Gross Turbine Cycle Heat Rate (kCal/kWh)			
Conditions on which design turbine cycle heat rate guaranteed			
% MCR			
% Makeup Water Consumption			
Design Capacity of Make up Water System			
Design Capacity of Inlet Cooling System			
Design Cooling Water Temperature (°C)			
Back Pressure			
Steam flow at super heater outlet under BMCR condition (tons/hr)			
Steam Pressure at super heater outlet under BMCR condition) (kg/Cm²)			
Steam Temperature at super heater outlet under BMCR condition (°C)			
Steam Temperature at Reheater outlet at BMCR condition (°C)			
Design / Guaranteed Boiler Efficiency (%)			
Design Fuel with and without Blending of domestic/imported coal			
Type of Cooling Tower	IDCT		
Type of cooling system	Closed Circuit		
Type of Boiler Feed Pump	Motor Driven		
Fuel Details			
-Primary Fuel	Natural Gas		
-Secondary Fuel	NA		
-Alternate Fuels	Naphtha/ HSD		
Special Features/Site Specific Features			
Special Technological Features			
Environmental Regulation related features			
Any other special features			


Petitioner

Normative parameters considered for tariff computations

**PART-I
FORM- 3**

Name of the Petitioner:		NTPC Limited					
Name of the Generating Station:		Faridabad Gas Power Station					
(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 \$\$	%	15.50	15.50	15.50	15.50	15.50	15.50
Base Rate of Return on Equity on Add. Capitalization** \$\$	%	-	9.580	9.580	9.580	9.580	9.580
Effective Tax Rate	%	21.549	17.472	17.472	17.472	17.472	17.472
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	%	2.50	2.75	2.75	2.75	2.75	2.75
Gross Station Heat Rate	kCal/kWh	1975	1975	1975	1975	1975	1975
Specific Fuel Oil Consumption	ml/kWh	NA	NA	NA	NA	NA	NA
Cost of Coal/Lignite for WC	in Days	NA	NA	NA	NA	NA	NA
Cost of Main Secondary Fuel Oil for WC	in Months	NA	NA	NA	NA	NA	NA
Fuel Cost for WC	in Days	30	30	30	30	30	30
Liquid Fuel Stock for WC	in Days	15	15	15	15	15	15
O&M Expenses	Rs lakh/MW	18.72	17.58	18.20	18.84	19.50	20.19
Maintenance Spares for WC	% of O&M	30.00	30.00	30.00	30.00	30.00	30.00
Receivables for WC	in Days	60	45	45	45	45	45
Storage capacity of Primary fuel	MT	NA					
SBI 1 Year MCLR plus 350 basis point	%	13.50	12.05	12.05	12.05	12.05	12.05
Blending ratio of domestic coal/imported coal		NA					

** Rate of Return on Add - cap beyond original scope and excluding Change in Law

\$\$ Additional RoE due to better ramp rate would be claimed at the time of true-up or as per guidelines to be issued


Petitioner

Part-I
FORM-3A
ADDITIONAL FORM

Calculation of O&M Expenses

Name of the Company :		NTPC Limited							
Name of the Power Station :		Faridabad Gas Power Station							
		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	7587.28	7854.87	8131.08	8415.93	8713.72			
2	O&M expenses under Reg.35(6)								
2a	Water Charges	136.71	136.71	136.71	136.71	136.71			
2b	Security expenses	1141.75	1181.71	1223.07	1265.88	1310.18			
2c	Capital Spares**	-	-	-	-	-			
	Total O&M Expenses	8865.74	9173.29	9490.86	9818.51	10160.61			

** Shall be provided at the time of truing up


Petitioner

**PART 1
FORM- 5**

Abstract of Admitted Capital Cost for the existing Projects

Name of the Company :		NTPC Limited	Date (DD-MM-YYYY)	31-05-2016
Name of the Power Station :		Faridabad Gas Power Station	Petition no.	286/GT/2014
Last date of order of Commission for the project				
Reference of petition no. in which the above order was passed				
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:				2018-19
Capital cost as on 31.03.2019				97881.91
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) as on 01.04.2014				8.23
Gross Normative Debt as on 31.03.2019				50899.60
Cumulative Repayment as on 31.03.2019				50899.60
Net Normative Debt as on 31.03.2019				0
Normative Equity as on 31.03.2019				46982.31
Cumulative Depreciation as on 31.03.2019				66766.40
Freehold land				7588.65
			(Rs. in lakh)	



(Petitioner)

Abstract of Claimed Capital Cost for the existing Projects

Name of the Company :	NTPC Limited
Name of the Power Station :	Faridabad Gas Power Station

Reference of Final True-up Tariff Petition	Affidavit dated	25.10.2019
Capital Cost as on 31.03.2019 as per Hon'ble Commission's Order dated 31.05.2016 in Pet. No. 286/GT/2014	Rs. Lakhs	97,881.91
Adjustment as per Para 7 of this petition		2,872.15

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 31.03.2019		1,00,754.06
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)		43.01
Gross Normative Debt as on 31.03.2019	(Rs. in lakh)*	52,910.10
Cumulative Repayment as on 31.03.2019		52,910.10
Net Normative Debt as on 31.03.2019		0.00
Normative Equity as on 31.03.2019		47,843.95
Cumulative Depreciation as on 31.03.2019		66,475.96
Freehold land		10,660.64



(Petitioner)

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	Faridabad Gas Power Station			
COD	01-01-2001			
For Financial Year	2019-24 (Summary)			

Sl. No.	Head of Work /Equipment	ACE Claimed (Actual / Projected)					Regulations under which claimed	Justification	Amount in Rs Lakh 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	10
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate									
1	Installation of 'Sewage Treatment Plant' (STP)	40.00	-				- 26 (1) (b)	As per sl no 1 of Form 9A for 2019-20	
2	Installation of Chlorine Di-oxide System		1,050.00				26 (1) (b) & (d)	As per sl no 1 of Form 9A for 2020-21	
3	R&M of C&I Equipments		2,000.00				25 (2) C	As per sl no 2 of Form 9A for 2020-21	
	Total (A)	40.00	3,050.00	-	-				
B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest									
4	Argonite based Fire Fighting System in PCC- 1 & 2		55.00				26(1)(d)	As per sl no 3 of Form 9A for 2020-21	
	Total (B)	-	55.00	-	-				
	Total Add. Cap. Claimed (A+B)	40.00	3,105.00	-	-				


(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited	
Name of the Generating Station	Faridabad Gas Power Station	
COD	01-01-2001	
For Financial Year	2019-20	

Sl. No.	Head of Work /Equipment	ACE Claimed (Actual / Projected)				Regulations under which claimed	Justification	Amount in Rs Lakh Admitted Cost by the Commission, if any
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis included in col. 3	IDC included in col. 3			
1	2	3	4	5=(3-4)	6	7	8	9
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate								
1	Installation of 'Sewage Treatment Plant' (STP)	40.00	-	40.00	-	26 (1) (b)	It is submitted that the capitalization is balance work of scheme of STP claimed in 2018-19. Hon'ble NGT vide its Judgement dated 13th January, 2015 has directed the State of Haryana to ensure units located at or near the banks of the River Yamuna should preferably be no discharge unit. Relevant extract of order dtd 13.01.2015 are enclosed as Annexure-A . Construction of Sewage Treatment Plant at Faridabad GPS has been carried out in terms of Hon'ble NGT order dtd 13.01.2015. Hon'ble Commission may be pleased to allow the capitalization.	-
Total (A)		40.00	-	40.00	-			
B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest								
2	NA	NA	NA	NA	NA	NA	NA	NA
Total (B)		-	-	-	-			
Total Add. Cap. Claimed (A+B)		40.00	-	40.00	-			

24



(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner		NTPC Limited					Amount in Rs Lakh		
Name of the Generating Station		Faridabad Gas Power Station							
COD		01-01-2001							
For Financial Year		2020-21							
Sl. No.	Head of Work /Equipment	Accrual basis as per IGAAP	ACE Claimed (Actual / Projected)	Un-discharged Liability included in col. 3	Cash basis included in col. 3	IDC included in col. 3	Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
1	2	3	4	5=(3-4)	6	7	8	9	
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate									
1	Installation of Chlorine Di-oxide System	1,050.00	-	1,050.00	-	26 (1) (b) & (d)		It is submitted that chlorine gas is being dozed directly at various stages of water treatment to maintain water quality and to inhibit organic growth in the water retaining structures/ equipment such as clarifiers, storage tanks, cooling towers, condenser tubes & piping etc. Chlorine dozing is done from chlorine stored in cylinders/ tonners. Chlorine gas is very hazardous and may prove fatal in case of leakage; handling and storage of same involves risk to the life of public at large. In the interest of public safety, the chlorine dozing system is now being replaced by Chlorine Dioxide (ClO2) system, which is much safer and less hazardous than chlorine. In the proposed scheme, ClO2 shall be produced on site by use of commercial grade HCl and sodium chlorite. As ClO2 is generated at site, avoids handling and storage risk. Further, at Kudgi NTPC project, Department of Factories, Boiler, Industrial Safety and Health, Govt of Karnataka has directed NTPC to replace highly hazardous gas chlorination system with ClO2 system. SPCB, Odisha while issuing consent to establish in case of Darlipalli Station has asked NTPC to explore the possibility of installing ClO2 system instead of Chlorine gas system (Relevant documents attached at Annexure-B). In view of the directions of various statutory authorities in different states of the country and for enhancing the safety of O&M personnels, NTPC is replacing the chlorination system with ClO2 system. Accordingly, Hon'ble Commission may be pleased to allow the same under Reg. 26(2)(b) & 26(2)(d).	9
2	R&M of C&I Equipments	2,000.00	-	2,000.00	-	25 (2) C		It is submitted that Digital Control System in Faridabad is SIEMENS make SPPA T2000. SIEMENS, vide letter dtd 19.02.2015, has informed that this system is out of production and they have stopped spare support since September 2014. Copy of letter dtd 19.02.2015 is attached as Annexure - C . Therefore, it has become necessary to replace existing system with latest one due to obsolescence of technology of existing system. Hon'ble Commission may be pleased to allow the same under Regulation 25(2)(c). Actual decap shall be provided at the time of truing up.	
Total (A)		3,050.00	-	3,050.00	-				

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited	
Name of the Generating Station	Faridabad Gas Power Station	
COD	01-01-2001	
For Financial Year	2020-21	

Sl. No.	Head of Work /Equipment	ACE Claimed (Actual / Projected)				Regulations under which claimed	Justification	Amount in Rs Lakh
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis included in col. 3	IDC included in col. 3			
1	2	3	4	5= (3-4)	6	7	8	9
B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest								
3	Argonite based Fire Fighting System in PCC-1 & 2	55.00		55.00		26(1)(d)	It is submitted that CO2 based fire fighting system was provided in Power Control Centres - I & II. PCC being a confined area, CO2 poses serious health hazard to the O&M personnels. A fire extinguishing system that puts CO2 into a confined space presents a high risk of suffocation to anyone in the vicinity. Keeping in view of the health hazard of CO2 based fire fighting system in confined areas, the CO2 based fire fighting system is being replaced with Argonite based fire fighting system. Hon'ble Commission may be pleased to allow the capitalization.	
Total (B)		55.00	-	55.00	-			
Total Add. Cap. Claimed (A+B)		3,105.00	-	3,105.00	-			


(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited	
Name of the Generating Station	Faridabad Gas Power Station	
COD	01-01-2001	
For Financial Year	2021-22	

Sl. No.	Head of Work /Equipment	ACE Claimed (Actual / Projected)				Regulations under which claimed	Justification	Amount in Rs Lakh
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			
1	2	3	4	5=(3-4)	6	7	8	9
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate								
NA		NA	NA	NA	NA	NA	NA	NA
Total (A)		-	-	-	-			
B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest								
NA		NA	NA	NA	NA	NA	NA	NA
Total (B)		-	-	-	-			
Total Add. Cap. Claimed (A+B)		-	-	-	-			


(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited	
Name of the Generating Station	Faridabad Gas Power Station	
COD	01-01-2001	
For Financial Year	2022-23	

Sl. No.	Head of Work /Equipment	ACE Claimed (Actual / Projected)				Regulations under which claimed	Justification	Amount in Rs Lakh
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			
1	2	3	4	5=(3-4)	6	7	8	9
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate								
	NA	NA	NA	NA	NA	NA	NA	NA
	Total (A)	-	-	-	-	-	-	-
B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest								
	NA	NA	NA	NA	NA	NA	NA	NA
	Total (B)	-	-	-	-	-	-	-
Total Add. Cap. Claimed (A+B)		-	-	-	-	-	-	-

29/00


(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited	
Name of the Generating Station	Faridabad Gas Power Station	
COD	01-01-2001	
For Financial Year	2023-24	

Sl. No.	Head of Work /Equipment	ACE Claimed (Actual / Projected)				Regulations under which claimed	Justification	Amount in Rs Lakh	
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			Admitted Cost by the Commission, if any	
1	2	3	4	5=(3-4)	6	7	8	9	
A.	Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate	NA	NA	NA	NA	NA	NA	NA	NA
	Total (A)	-	-	-	-	-	-	-	-
B.	Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest	NA	NA	NA	NA	NA	NA	NA	NA
	Total (B)	-	-	-	-	-	-	-	-
	Total Add. Cap. Claimed (A+B)	-	-	-	-	-	-	-	-


(Petitioner)

Financing of Additional Capitalisation

Name of the Petitioner NTPC Limited
Name of the Generating Station Faridabad Gas Power Station
Date of Commercial Operation 01-01-2001

Financial Year (Starting from COD)1	Amount in Rs Lakh										
	Actual					Admitted					
	2019-20	2020-21	2021-22	2022-23	2023-24	2019-20	2020-21	2021-22	2022-23	2023-24	
1	3	4	5	6	7	8	9	10	11		

Amount capitalised in Work/ Equipment

Financing Details	2019-20	2020-21	2021-22	2022-23	2023-24
Loan-1					
Loan-2					
Loan-3 and so on					
Total Loan2					
Equity					
Internal Resources					
Others (Pl. specify)					
Total					

Add cap is proposed to be finance in Debt:Equity ratio of 70:30


(Petitioner)

Statement of Depreciation

Name of the Company :

NTPC Limited

Name of the Power Station :

Faridabad Gas Power Station

S. No.	Particulars	Existing 2018-19	(Amount in Rs Lakh)				
			2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
1	Opening Capital Cost	100779.23	1,00,754.06	1,00,794.06	1,03,899.06	1,03,899.06	1,03,899.06
2	Closing Capital Cost	100754.06	1,00,794.06	1,03,899.06	1,03,899.06	1,03,899.06	1,03,899.06
3	Average Capital Cost	100766.64	1,00,774.06	1,02,346.56	1,03,899.06	1,03,899.06	1,03,899.06
1a	Cost of IT Equipments & Software included in (1) above*		-	-	-	-	-
2a	Cost of IT Equipments & Software included in (2) above*		-	-	-	-	-
3a	Average Cost of IT Equipments & Software*		-	-	-	-	-
4	Freehold land	10,660.64	10,660.64	10,660.64	10,660.64	10,660.64	10,660.64
5	Rate of depreciation	NA			NA		
6	Depreciable value	81,095.40	81,102.07	82,517.32	83,914.57	83,914.57	83,914.57
7.	Balance useful life at the beginning of the period	6.99	5.99	4.99	3.99	2.99	1.99
8	Remaining depreciable value	17,060.08	14,626.11	13,599.61	12,271.48	9,195.92	6,120.36
9	Depreciation (for the period)	0.00	2,441.75	2,725.37	3,075.56	3,075.56	3,075.56
10	Depreciation (annualised)	2,440.64	2,441.75	2,725.37	3,075.56	3,075.56	3,075.56
11	Cumulative depreciation at the end of the period		68,917.72	71,643.09	74,718.65	77,794.21	80,869.77
12	Less: Cumulative depreciation adjustment on account of un-discharged liabilities deducted as on 01.04.2009	0.00	-	-	-	-	-
13	Add: Cumulative depreciation adjustment on account of liability Discharge	0.00	-	-	-	-	-
14	Less: Cumulative depreciation adjustment on account of de-capitalisation	86.51	-	-	-	-	-
15	Net Cumulative depreciation at the end of the period after adjustments	66,475.96	68,917.72	71,643.09	74,718.65	77,794.21	80,869.77

* Shall be provided at the time of truing up


(Petitioner)

Details of Source wise Fuel for Computation of Energy Charges

Name of the Company :		NTPC Limited			
Name of the Power Station :		Faridabad Gas Power Station			
S. No.	Month	Unit	Oct-18	Nov-18	Dec-18
1	Quantity of gas supplied by gas Co.	SCM	17,12,107.45	8,79,573.00	1,13,62,223.65
2	Adjustment (+/-) in quantity supplied/ made by gas company	SCM			
3	gas supplied by gas co. (1+2)	SCM	17,12,107.45	8,79,573.00	1,13,62,223.65
4	Normative transit & handling losses	SCM			
5	Net gas supplied (3-4)	SCM	17,12,107.45	8,79,573.00	1,13,62,223.65
6	Amount charged by the gas co.	(Rs)	2,52,28,863.00	1,25,60,417.00	15,98,28,379.33
7	Adjustment (+/-) in amount charged made by gas co.	(Rs)			
8	Total amount charged (6+7)	(Rs)	2,52,28,863.00	1,25,60,417.00	15,98,28,379.33
9	Transportation charge	(Rs)			
10	Adjustment (+/-) in amount charged by railway co.	(Rs)			
11	Demurrage charge, if any	(Rs)			
12	Cost of diesel in trans. Coal MGR sys	(Rs)			
13	Total Transportation charge(9+10-11+12)	(Rs)	-	-	-
14	Others	(Rs)			
15	Total amount charged for gas supplied including transportation (8+13+14)	(Rs)	2,52,28,863.00	1,25,60,417.00	15,98,28,379.33
16	Weighted average GCV of gas	Kcal/SCM	9,155.06	9,232.44	9,170.11
17	Weighted average PRICE of gas	Rs/1000SCM	14,735.56	14,280.13	14,066.65


(Petitioner)

Details of Source wise Fuel for Computation of Energy Charges

Name of the Company :		NTPC Limited			
Name of the Power Station :		Faridabad Gas Power Station			
S. No.	Month	Unit	Oct-18	Nov-18	Dec-18
1	Quantity of gas supplied by gas Co.	SCM	181946.00	1710.00	23648.35
2	Adjustment (+/-) in quantity supplied/ made by gas company	SCM			
3	gas supplied by gas co. (1+2)	SCM	181946.00	1710.00	23648.35
4	Normative transit & handling loses	SCM			
5	Net gas supplied (3-4)	SCM	181946.00	1710.00	23648.35
6	Amount charged by the gas co.	(Rs)	7385097.00	68155.00	909134.49
7	Adjustment (+/-) in amount charged made by gas co.	(Rs)			
8	Total amount charged (6+7)	(Rs)	7385097.00	68155.00	909134.49
9	Transportation charge	(Rs)			
10	Adjustment (+/-) in amount charged by railway co.	(Rs)			
11	Demurrage charge, if any	(Rs)			
12	Cost of diesel in trans. Coal MGR sys	(Rs)			
13	Total Transportation charge(9+10-11+12)	(Rs)	0.00	0.00	0.00
14	Others	(Rs)			
15	Total amount charged for gas supplied including transportation (8+13+14)	(Rs)	7385097.00	68155.00	909134.49
16	Weighted average GCV of gas	Kcal/SCM	9155.03	9199.59	9162.12
17	Weighted average PRICE of gas	Rs/1000SCM	40589.50	39856.73	38443.89

(Signature)
(Petitioner)

Details of Source wise Fuel for Computation of
Energy Charges (Naphtha + HSD)

Name of the Company :		NTPC Limited			
Name of the Power Station :		Faridabad Gas Power Station			
S. No.	Month	Unit	Oct-18	Nov-18	Dec-18
1	Quantity of HSD supplied by Oil Co.*	(KL)	7739.17	7739.17	7739.17
2	Adjustment (+/-) in quantity supplied made by co.	(KL)			
3	HSD supplied by co. (1+2)	(KL)	7739.17	7739.17	7739.17
4	Normative transit & handling loses	(KL)			
5	Net HSD supplied (3-4)	(KL)	7739.17	7739.17	7739.17
6	Amount charged by the HSD co.	(Rs)	24,28,81,227.14	24,28,81,227.14	24,28,81,227.14
7	Adjustment (+/-) in amount charged made by Co..	(Rs)			
8	Total amount charged (6+7)	(Rs)	24,28,81,227.14	24,28,81,227.14	24,28,81,227.14
9	Transportation charge by rail transport	(Rs)	-	-	-
10	Adjustment (+/-) in amount charged by railway co.	(Rs)	-	-	-
11	Demurrage charge, if any	(Rs)	-	-	-
12	Cost of diesel in trans. Coal MGR sys	(Rs)	-	-	-
13	Total Transportation charge(9+10-11+12)	(Rs)	-	-	-
14	Others(ENTRY TAX)	(Rs)	-	-	-
15	Total amount charged for HSD supplied including transportation (8+13)	(Rs)	24,28,81,227.14	24,28,81,227.14	24,28,81,227.14
16	Weighted average GCV of HSD	Kcal/L	9061.35	9061.35	9061.35
17	Weighted Price of HSD	Rs/KL	31383.37	31383.37	31383.37


(Petitioner)

Details/ Information to be beneficiaries under clause(7) of Regulation 30 of CERC (Terms & Conditions of Tariff) Regulations 2014

Details / Information to be submitted in respect of Fuel for computation of Energy Charges

Name of company : NTPCLTD

Name of the Power Station : FARIDABAD GAS POWER STATION
Month October-2018

S. NO.	PARTICULARS	Unit	NATURAL GAS		RLNG	LIQUID FUEL		TOTAL LIQUID FUEL
			APM/PMT/NON-APM			Naphtha	HSD	
1	Quantity of gas / RLNG / Liquid fuel * supplied by gas company	SCM/KL	1,712,107.45		181,946.00	7,537.014	202.159	7,739.17
2	Adjustment (+/-) in quantity supplied / made by gas company	SCM/KL						
3	Gas / RLNG/Liquid fuel supplied by gas company(1+2)	SCM/KL	1,712,107.45		181,946.00	7,537.014	202.159	7,739.17
4	Normative transit & handling losses	SCM/KL						
5	Net gas / RLNG/Liquid fuel supplied(3-4)	SCM/KL	1,712,107.45		181,946.00	7,537.014	202.159	7,739.17
6	Amount charged by the gas company inclusive of value of opening stock for liquid fuel.	(₹)	25,228,863.00		7,385,097.00	235,699,353.63	7,181,873.51	242,881,227.14
7	Adjustment (+/-) in amount charged made by gas company	(₹)						
8	Total amount charged(6+7)	(₹)	25,228,863.00		7,385,097.00	235,699,353.63	7,181,873.51	242,881,227.14
9	Transportation charge by rail/ship/road transport	(₹)						
10	Adjustment (+/-) in amount charged by railway/transport company	(₹)						
11	Demurrage charge, if any	(₹)						
12	Cost of diesel in trans. Coal MGR sys	(₹)						
13	Total transportation charge(9+10+11+12)	(₹)						
13A	Others	(₹)						
14	Total amount charged for gas / RLNG/ Liquid fuel supplied including transportation.	(₹)	25,228,863.00		7,385,097.00	235,699,353.63	7,181,873.51	242,881,227.14
15	Weighted average GCV of gas / RLNG/ Liquid fuel as received	Kcal/SCM or L	9,155.064		9,155.029			9,061.350
16	Weighted average Price of gas / RLNG/ Naphtha/HSD	(₹)/1000 SCM/KL	14,735.56		40,589.60	31,272.25	35,525.87	31,383.36

35

D.C. Agrawal

डी. सी. अग्रवाल / D. C. AGRAWAL
वरिष्ठ प्रबंधक (वित्त एवं सेवा) / Sr. Manager (F&A)
एन टी सी लिमिटेड / फरिदाबाद गैस पावर स्टेशन
NTPC Ltd. Faridabad / (SSC-Hydro&DBF), Faridabad
फरिदाबाद / Faridabad

 **ब्रिजेश कुमार गर्ग**
BRIJESH KUMAR GARG
General Manager (Finance)
DBF-HO, Hydro-HO & In-charge SSC-Finance
NTPC Limited
(A Government of India Enterprise)
Village : Mujeda, P.O. : Neemka, Faridabad-121004 (HR.)


 NEW DELHI
CHARTERED ACCOUNTANTS

Details/ Information to be beneficiaries under clause(7) of Regulation 30 of CERC (Terms & Conditions of Tariff) Regulations 2014

Details / Information to be submitted in respect of Fuel for computation of Energy Charges

Name of company : NTPC LTD

Name of the Power Station : FARIDABAD GAS POWER STATION

Month November-2018

S. NO.	PARTICULARS	Unit	NATURAL GAS APM/PMT/NON-APM	RLNG	LIQUID FUEL		TOTAL LIQUID FUEL
					Naphtha	HSD	
1	Quantity of gas / RLNG / Liquid fuel * supplied by gas company	SCMIKL	879,573.00	1,710.00	7,537.014	202.159	7,739.17
2	Adjustment (+/-) in quantity supplied / made by gas company	SCMIKL					
3	Gas / RLNG/Liquid fuel supplied by gas company(1+2)	SCMIKL	879,573.00	1,710.00	7,537.014	202.159	7,739.17
4	Normative transit & handling losses	SCMIKL					
5	Net gas / RLNG/Liquid fuel supplied(3-4)	SCMIKL	879,573.00	1,710.00	7,537.014	202.159	7,739.17
6	Amount charged by the gas company inclusive of value of opening stock for liquid fuel	(₹)	12,560,417.00	68,155.00	235,699,353.63	7,181,873.51	242,881,227.14
7	Adjustment (+/-) in amount charged made by gas company	(₹)					
8	Total amount charged(6+7)	(₹)	12,560,417.00	68,155.00	235,699,353.63	7,181,873.51	242,881,227.14
9	Transportation charge by rail/ship/road transport	(₹)					
10	Adjustment (+/-) in amount charged by railway/transport company	(₹)					
11	Demurrage charge, if any	(₹)					
12	Cost of diesel in trans. Coal MGR sys	(₹)					
13	Total transportation charge(9+10+11+12)	(₹)					
13A	Others	(₹)					
14	Total amount charged for gas / RLNG/ Liquid fuel supplied including transportation.	(₹)	12,560,417.00	68,155.00	235,699,353.63	7,181,873.51	242,881,227.14
15	Weighted average GCV of gas / RLNG/ Liquid fuel as received	Kcal/SCM or L	9,232.441	9,199.587			9,061.350
16	Weighted average Price of gas / RLNG/ Naphtha/HSD	(₹)/1000 SCM/KL	14,280.13	39,856.73	31,272.25	35,525.87	31,383.36

36

A.C. Agrawal

डॉ० सी० अग्रवाल / D. C. AGRAWAL
वरिष्ठ प्रबंधक (विद्युत एवं लेखा) / Sr. Manager (F&A)
एन टी सी लिमिटेड / फरिदाबाद गैस पावर स्टेशन
NTPC Ltd. Faridabad / (SSC-Hydro&DBF), Faridabad
परिचालक / Faridabad

BRJ

बृजेश कुमार गर्ग
BRIJESH KUMAR GARG
नियंत्रक (विद्युत)
General Manager (Finance)
DBF-HQ, Hydro-HQ & In-charge SSC-Finance
NTPC Limited
(A Government of India, Enterprise)
Village - Mujedi, P.O. - Beemka, Faridabad-121004 (Hr.)



Handwritten signature and date: 11/11/18

Details/ Information to be beneficiaries under clause(7) of Regulation 30 of CERC (Terms & Conditions of Tariff) Regulations 2014

Details / Information to be submitted in respect of Fuel for computation of Energy Charges

Name of company : NTPC LTD

Name of the Power Station : FARIDABAD GAS POWER STATION

Month : December-2018

Revised

S. NO.	PARTICULARS	Unit	NATURAL GAS		RLNG	LIQUID FUEL		TOTAL LIQUID FUEL
			APM/PMT/NON-APM			Naphtha	HSD	
1	Quantity of gas / RLNG / Liquid fuel * supplied by gas company	SCM/KL	11,362,223.65		23,648.35	7,537.014	202.159	7,739.17
2	Adjustment (+/-) in quantity supplied / made by gas company	SCM/KL						
3	Gas / RLNG/Liquid fuel supplied by gas company(1+2)	SCM/KL	11,362,223.65		23,648.35	7,537.014	202.159	7,739.17
4	Normative transit & handling losses	SCM/KL						
5	Net gas / RLNG/Liquid fuel supplied(3-4)	SCM/KL	11,362,223.65		23,648.35	7,537.014	202.159	7,739.17
6	Amount charged by the gas company inclusive of value of opening stock for liquid fuel	(₹)	159,828,379.33		909,134.49	235,699,353.63	7,181,873.51	242,881,227.14
7	Adjustment (+/-) in amount charged made by gas company	(₹)						
8	Total amount charged(6+7)	(₹)	159,828,379.33		909,134.49	235,699,353.63	7,181,873.51	242,881,227.14
9	Transportation charge by rail/ship/road transport	(₹)						
10	Adjustment (+/-) in amount charged by railway/transport company	(₹)						
11	Demurrage charge, if any	(₹)						
12	Cost of diesel in trans. Coal MGR sys	(₹)						
13	Total transportation charge(9+10+11+12)	(₹)						
13A	Others	(₹)						
14	Total amount charged for gas / RLNG/ Liquid fuel supplied including transportation.	(₹)	159,828,379.33		909,134.49	235,699,353.63	7,181,873.51	242,881,227.14
15	Weighted average GCV of gas / RLNG/ Liquid fuel as received	Kcal/SCM or L	9,170.110		9,162.117			9,061.350
16	Weighted average Price of gas / RLNG/ Naphtha/HSD	(₹)/1000 SCM/KL	14,066.65		38,443.89	31,272.25	35,525.87	31,383.36

D.C. Agrawal

डी० सी० अग्रवाल / D. C. AGRAWAL
 वरिष्ठ प्रबंधक (वित्त एवं लेखा) / Sr. Manager (F&A)
 एन टी सी लिमिटेड / फरिदाबाद गैस पावर स्टेशन
 NTPC Ltd, Faridabad / (SSC-Hydro&DBF), Faridabad
 फरिदाबाद / Faridabad

BRG

 ब्रिजेश कुमार गार्ग
 BRIJESH KUMAR GARG
 महाप्रबंधक (वित्त)
 General Manager Finance
 DBF-HC, Hydro-HQ & In-charge SSC-Finance
 NTPC Limited
 (A Government of India Enterprise)
 Village : Mujedi, P.O.: Neemika, Faridabad-121004 (HR.)

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Computation of Energy Charges

Name of the Company : **NTPC Limited**
Name of the Power Station : **Faridabad Gas Power Station**

SI No	Description	Unit		Domestic Gas	RLNG	Liquid
		Gas/RLNG	HSD			
1	Normative Heat Rate (For CC Operation)	(Kcal/kwh)	(Kcal/kwh)		1975	
2	Normative Heat Rate (For OC Operation)	(Kcal/kwh)	(Kcal/kwh)		2900	
3	Capacity	MW	MW		431.59	
4	Normative Availability Factor	%	%		85.00%	
5	APC for CC operation	%	%		2.75%	
6	APC for OC operation	%	%		1.00%	
7	Weighted Average Rate of Fuel	Rs/1000SCM	Rs/Kg	14,162.18	40,338.69	31,383.37
8	Weighted Average GCV of Fuel	Kcal/SCM	Kcal/Kg	9,172.19	9,156.21	9,061.35
9	Rate of Energy- Ex Bus-CC	(Paise/kwh)	(Paise/kwh)	313.600	894.700	703.400
10	Rate of Energy- Ex Bus-OC	(Paise/kwh)	(Paise/kwh)	452.293	1290.533	1014.541
11	Mode of Operation on Fuel during 2018-19 (% of Schedule Generation)	%	%	85.97%	13.98%	0.05%
12	Weighted Average Energy Charge Rate as per above	(Paise/kwh)	(Paise/kwh)	395.033		

WC Calculation at CC Operation

Year	Rs. Lakh		
	2019-20	2020-21	2021-22
13			
14	No. Of days	366	365
15	ESO in a year (in MUs)	3133.78	3125.22
16	Fuel cost for 30 days	10147.09	10147.09
17	Cost of Liquid stock for 15 days	4.52	4.52
			2023-24
			366
			3133.78
			10147.09
			4.52

PETITIONER

Statement of Capital cost

PART 1
FORM- L

Name of the Petitioner	NTPC Ltd
Name of the Generating Station	Faridabad Gas Power Station

(Amount in Rs. Lakh)

S. No.	Particulars	2019-20		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening Gross Block Amount as per books	120984.82	155.63	120829.19
	b) Amount of IDC in A(a) above			
	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 Gross Block Amount during the period (Direct purchases)			
	b) Amount of IDC in B(a) above			
	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) Addition in Gross Block Amount during the period (Transferred from CWIP)			
	b) Amount of IDC in C(a) above			
	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 Gross Block Amount 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 Gross Block Amount as per books			
	b) Amount of IDC in E(a) above			
	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			

Shall be provided at the time of truing up


 (Petitioner)

Statement of Capital Woks in Progress

PART 1
FORM- M

Name of the Petitioner	NTPC Ltd
Name of the Generating Station	Faridabad Gas Power Station

(Amount in Rs. Lakh)

S. No.	Particulars	2019-20		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening CWIP as per books	5.28	0	5.28
	b) Amount of IDC in A(a) above			
	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			
	b) Amount of IDC in B(a) above			
	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			
	b) Amount of IDC in C(a) above			
	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			
	b) Amount of IDC in E(a) above			
	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			

Shall be provided at the time of truing up


(Petitioner)

**PART-J
FORM- N**

Calculation of Interest on Normative Loan

Name of the Company :		NTPC Limited							
Name of the Power Station :		Faridabad Gas Power Station							
S. No.	Particulars	Existing	2019-20	2020-21	2021-22	2022-23	2023-24	(Amount in Rs Lakh)	
		2018-19	4	5	6	7	8		
1	2	3							
1	Gross Normative loan – Opening	52,927.72	52,910.10	52,938.10	55,111.60	55,111.60	55,111.60		
2	Cumulative repayment of Normative loan up to previous year	52,927.72	52,910.10	52,938.10	55,111.60	55,111.60	55,111.60		
2A	Adj. in repmt. due to decap	88.06							
3	Net Normative loan – Opening	0.00	0.00	0.00	0.00	0.00	0.00		0.00
4	Add: Increase due to addition during the year / period	48.10	28.00	2,173.50	-	-	-		-
5	Less: Decrease due to de-capitalisation during the year / period	-88.06	0.00	0.00	0.00	0.00	0.00		0.00
6	Less: Decrease due to reversal during the year / period								
7	Add: Increase due to discharges during the year / period	22.34	0.00	0.00	0.00	0.00	0.00		0.00
8	Less: Repayment of Loan	70.44	28.00	2,173.50	-	-	-		-
9	Net Normative loan - Closing	0.00	0.00	0.00	0.00	0.00	0.00		0.00
10	Average Normative loan	0.00	0.00	0.00	0.00	0.00	0.00		0.00
11	Weighted average rate of interest	9.5800	9.5800	9.5800	9.5800	9.5800	9.5800		9.5800
12	Interest on Loan	0.00	0.00	0.00	0.00	0.00	0.00		0.00


(Petitioner)

Calculation of Interest on Working Capital

Name of the Company :		NTPC Limited							
Name of the Power Station :		Faridabad Gas Power Station							
		(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								
2	Cost of Main Secondary Fuel Oil								
3	Fuel Cost	7152.91	10147.09	10147.09	10147.09	10147.09	10147.09	10147.09	10147.09
4	Liquid Fuel Stock	0	4.52	4.52	4.52	4.52	4.52	4.52	4.52
5	O & M Expenses	800.59	738.81	764.44	790.90	818.21	846.72	846.72	846.72
6	Maintenance Spares	2,882.12	2659.72	2751.99	2847.26	2945.55	3048.18	3048.18	3048.18
7	Receivables	18,753.84	18186.07	18281.09	18377.37	18420.27	18456.06	18456.06	18456.06
8	Total Working Capital	29589.46	31736.21	31949.12	32167.13	32335.63	32502.57	32502.57	32502.57
9	Rate of Interest	13.5000	12.0500	12.0500	12.0500	12.0500	12.0500	12.0500	12.0500
10	Interest on Working Capital	3994.58	3824.21	3849.87	3876.14	3896.44	3916.56	3916.56	3916.56



Petitioner

Statement of Liabilities as on 31.03.2019

Name of the Petitioner		NTPC Ltd				
Name of the Generating Station		Faridabad Gas Power Station				
Sr. No.	Name of the Party	Name of the work	Year of creation of liability	Remarks	Amount in Rs.	
					Undischarged liabilities as on 31.03.2019	
1	2	3	4	5	6	
a) For assets eligible for normal RoE						
Items allowed/ claimed						
1	PYROTECH ELECTRONICS PVT. LTD./ ENERGY EFFICIENCY SERVICES LTD/ JAIN INDUSTRIAL LIGHTING/ SHARIKA LIGHTEC PVT LTD	Replacement of Energy efficient LED Lighting in plant & township	2016-17	claimed		1,65,772
2	V S CONSTRUCTIONS	Storage shed for chlorine gas cylinder	2017-18	claimed		51,569
3	SREE SOMA SEKHAR INDUSTRIES	De-staging of Boiler Feed Pump(BFP)	2017-18	Claimed		33,000
4	SS ENGINEERING CORPORATION	Design, Supply , Erection & commissioning of a sewage treatment plant at FGPS	2018-19	claimed		40,50,300
Total Liabilities of Allowed/ claimed items						43,00,641
Items disallowed/ not claimed						
5	Minimax GMBH & Co	Supply+Inst of Inert gas fire extinguishing system	2013-14	Disallowed		33,055
6	RICOH INDIA LTD	PC: CORE-I.5,19" TFT,4GB RAM WITH WINDOWS	2014-15	Disallowed		3,27,502
7	ST JOANS EDUCATIONAL SOCIETY	Dep value Sachdeva schl bldg-comm recom 8200167695	2015-16	Not Claimed		29,642
8	ENERGY TRADING ELEKTRIK	V94.2 VER-3:REAR HOLLOW SHAF/P-4000135513	2015-16	Disallowed		2,89,000
9	SIEMENS LTD	ACB:3 P 2500A G3 TYPE DRAWOUT SIEMNS/p-4-154850	2015-16	Disallowed		28,281
10	MAYA FAN AIR ENGINEERING PVT LTD	PCT HP-4.8:FAN BLADE COMP ASSY /p-4000155681	2015-16	Disallowed		90,000
11	CCS COMPUTERS PVT LTD	DESKTOP PC: CORE-I5, WINDOW OS, TFT, 16GB_4600036299	2015-16	Disallowed		1,31,600
12	ACME VISUAL SYSTEMS	MULTIMEDIA LCD PROJECTOR	2016-17	Not Claimed		23,380
13	INTERACTIVE DATA SYSTEMS LIMITED	BIOMERIC C COMPUTERISED ATTANDANCE SYSTEM	2016-17	Not Claimed		10,800
14	RICOH INDIA LTD	PHOTO COPIER MACHINE	2016-17	Not Claimed		57,116

43

Statement of Liabilities as on 31.03.2019

Name of the Petitioner		NTPC Ltd					
Name of the Generating Station		Faridabad Gas Power Station					
Sr. No.	Name of the Party	Name of the work	Year of creation of liability	Remarks	Undischarged liabilities as on 31.03.2019	Amount in Rs.	
1	2	3	4	5	6		
15	TRANSTEK INFOWAYS PVT LTD	LAPTOP: I-5,2.1-3GHZ, RAM:4GB, TFT-14"/15"	2016-17	Not Claimed	8,200		
16	TECHNOWARE SYSTEMS INDIA (P) LTD	COMMUNICATION SYSTEM SWITCHING DEVICES	2016-17	Not Claimed	2,20,050		
17	MAPNA INTERNATIONAL FZE	V94.2 VER-3:MIXING CHAMBERT	2016-17	Not Claimed	36,17,375		
18	HITACHI SYSTEMS MICRO CLINIC	SERVER - INTEL XEON,DUAL CPU,WITH OS	2016-17	Not Claimed	19,650		
19	PAN COMMUNICATIONS PVT LTD	INFO:DISPLAY SYSTEM MONITOR 40"-46"	2017-18	Not Claimed	34,000		
20	SUNRISE SERVICES	PHOTO COPIER MACHINE	2017-18	Not Claimed	48,450		
21	TECHNOWARE SYSTEMS INDIA (P) LTD	NAS BASED STORAGE DEVICE - SAS - 48 TB	2017-18	Not Claimed	2,51,250		
22	SIEMENS LTD	RELY NUMERIC GRP GENERATOR PROT 220VDC5A	2017-18	Not Claimed	11,57,458		
23	BHARAT HEAVY ELECTRICALS LTD	PROCSR MODULE 70PR05.659PO5BA/659PO5AA	2017-18	Not Claimed	2,98,450		
24	TECHNOWARE SYSTEMS INDIA (P) LTD	IP CAMERA WITH PTZ: >30X,RESLN:1920X1080	2017-18	Not Claimed	49,300		
25	TECHNOWARE SYSTEMS INDIA (P) LTD	POINT TO POINT OUTDOOR WIRELESS SYSTEM	2017-18	Not Claimed	18,700		
26	TECHNOWARE SYSTEMS INDIA (P) LTD	Wi-Fi Solution for internet access at NTP	2017-18	Not Claimed	2,72,981		
27	HANS INTERIORS INDIA PVT. LTD.	CENTRE TABLE: 36"X18"X18", 8MM GLASS TOP_46/55374	2018-19	Not Claimed	16,500		
28	SUDESH & ASSOCIATES	TABLE:GODREJ-CENTRE TABLE-TETRA:STD_4600054819	2018-19	Not Claimed	5,46,497		
29	INTERACTIVE DATA SYSTEMS LIMITED	SUPPLY OF BIOMETRIC MACHINE,4600050018	2018-19	Not Claimed	86,800		
30	GODREJ & BOYCE MFG. CO. LTD.	REFRIGERATOR(FREEZE) CAP:300-350 LTR_4600055272_LC	2018-19	Not Claimed	1,52,999		

44

Statement of Liabilities as on 31.03.2019

Name of the Petitioner		NTPC Ltd							
Name of the Generating Station		Farridabad Gas Power Station							
Sr. No.	Name of the Party	Name of the work	Year of creation of liability	Remarks	Undischarged liabilities as on 31.03.2019	Amount in Rs.			
1	2	3	4	5	6				
31	MILLIAN PRECISION TOOLS	KWU:FOLLOW UP PISTON HYD AMPLIF ASSY_M4936017504N	2018-19	Not Claimed	99,360				
32	SIEMENS LTD	RELY NUMERIC GRP GENERATOR PROT 220VDC5A-400163837	2018-19	Not Claimed	13,73,800				
33	TRIDENT EQUIPMENTS PVT LTD	SUPPLY OF SILICA ANALYSER	2018-19	Not Claimed	1,28,634				
34	GEMINI POWER HYDRAULICS PVT LTD	SELF PROPELLED ART. BOOMLIFT	2018-19	Not Claimed	9,65,708				
35	TECHNOWARE SYSTEMS INDIA (P) LTD	LAN SWITCH WITH Fx PORTS AND GBIC PORTS	2018-19	Not Claimed	43,633				
36	AGMATEL INDIA PVT.LTD	DESKTOP PC: CORE-I5, ALL IN ONE, 8GB	2018-19	Not Claimed	2,49,625				
37	AVOSYS TECHNOLOGY PRIVATE LIMITED	INTERACTIVE VOICE RESPONSE SYSTEM	2018-19	Not Claimed	92,856				
38	OMSAN SMART TECHNOLOGIES LLP	SUPPLY OF HIGH POWER AUDIO SYSTEM	2018-19	Not Claimed	1,37,985				
39	RESPO PRODUCTS	NATURAL GAS/NAPHTHA DETECTION SYSTEM	2018-19	Not Claimed	3,51,600				
Total Liabilities of dis-allowed / not claimed items					1,12,62,237				
Total					1,55,62,878				
b) For assets eligible for RoE at weightage average rate of interest on loan									
Nil									

[Handwritten Signature]
Petitioner

**PART 1
FORM-T**

Summary of issue involved in the petition

Name of the Company : NTPC Limited

Name of the Power Station : Faridabad Gas Power Station

1 Petitioner: NTPC Limited

2 Subject: Determination of tariff of Faridabad Gas power station for the period from 01.04.2019 to 31.03.2024

Prayer:
 i) Approve tariff of Faridabad GPS for the tariff period 01.04.2019 to 31.03.2024.
 ii) Allow the recovery of filing fees as & when paid to the Hon'ble Commission and publication expenses from the beneficiaries.
 iii) Pass any other order as it may deem fit in the circumstances mentioned above.

4 Name of Respondents
 Haryana Power Purchase Centre (HPPC)

Project Scope : Faridabad Gas power station

Cost: Approved Capital Cost Rs 97881.91 Lakh as on 31.03.2019

Commissioning : Station COD on 01.01.2001

Claim

	2019-20	2020-21	2021-22	2022-23	2023-24
AFC (in Rs Lakh)	24,118.89	24,823.72	25,604.64	25,952.59	26,314.81
Capital cost (in Rs Lakh)	1,00,774.06	1,02,346.56	1,03,899.06	1,03,899.06	1,03,899.06
Initial spare (in Rs Lakh)			NA		
NAPAF (Gen) (in %)			85		

5

Capital cost (in Rs Lakh)

Initial spare (in Rs Lakh)

NAPAF (Gen) (in %)

Any Specific

Petitioner

**BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH
NEW DELHI**

.....

Original Application No. 6 of 2012

And

M.A. Nos. 967/2013 & 275/2014

In the matter of :

1. Manoj Misra
178-F, Pocket, Mayur Vihar,
Phase-1,
Delhi - 110091.



..... Applicant

Versus

1. Union of India
Through the Secretary
Ministry of Environment and Forests
Paryavaran Bhawan, CGO Complex
Lodhi Road, New Delhi - 110003
2. National Capital Territory of Delhi
Through the Chief Secretary,
Delhi Secretariat, I.P. Estate,
New Delhi - 110002
3. Delhi Development Authority
Union Ministry of Urban Development
Through its Vice Chairman,
Vikas Sadan,
New Delhi - 110023
4. Delhi Pollution Control Committee
Through its Member Secretary
4th Floor, ISBT Building, Kashmere Gate
New Delhi - 110006
5. Yamuna River Development Authority
Through its Chairman,
Hon'ble Lt. Governor of Delhi,
Raj Niwas, GNCT,
New Delhi - 110054
6. Irrigation Department of Uttar Pradesh
Government of Uttar Pradesh

Through its Principal Secretary
Lucknow, Uttar Pradesh

7. State of Uttar Pradesh
Through the Chief Secretary
Government of UP
Lal Bahadur Shastri Bhavan
UP Secretariat
Lucknow - 226001
8. Municipal Corporation of Delhi
Through the Deputy Commissioner
Shahdara South Zone
Near Karkardooma Court
Shahdara, Delhi - 110032
9. State of Haryana
Through the Chief Secretary
4th Floor, Haryana Civil Secretariat
Sector-1, Chandigarh

.....Respondents

AND

Original Application No. 300 of 2013

And

M. A. Nos. 877/2013, 49/2014, 88/2014 & 570/2014

In the matter of :

1. Manoj Misra
Convener, Yamuna Jiye Abhiyaan
178-F, Pocket,
Mayur Vihar Phase-1,
Delhi - 110091.
2. Mrs. Madhu Bhaduri
A-12, IFS Apartment
Mayur Vihar Phase-I
Delhi - 110091

..... Applicants

Versus

Tribunal particularly its Expert Members. Certain queries in relation to the second report were specifically raised by the Tribunal and as recorded vide its order which had been duly explained by the Members of the Expert Committee and it was only after serious deliberation scrutiny and examining its various facets including practical aspects, the reports have been accepted by this Tribunal as well.

94. We are not oblivious of the herculean task which will be required in carrying out the '*Maily Se Nirmal Yamuna*' Revitalization Project, 2017, but we are of the firm view that any further deferment in taking stern and serious steps for preventing and controlling pollution of River Yamuna, is bound to expose Delhi and its residents to grave environmental disasters. Implementation of provocative action plan postulated by the Expert Committees and as described in this judgment is inevitable to protect public health, public interest and the environment. This is the only solution to bring down the highest contribution of pollutants (76% of the total Yamuna's Pollution level) to a negligible and preferably to zero percent, in the interest of ecology, environment and to provide clean water to the residents of Delhi.

To ensure complete and effective implementation of the recommendations made by the Expert Committees in their reports dated 19th April, 2014 and 13th October, 2014 respectively, as well as, to identify the authorities responsible for compliance for timely preparation and execution of action plans, prepared in terms of this

judgment, we hereby issue the following directions in the larger environmental and public interest:

- i. The Tribunal hereby accepts both the reports filed by the Expert Committees: first report dated 19th April, 2014, read with the gist of recommendations submitted by the Principal Committee on 2nd August, 2014, on the aspects of preservation, restoration and beautification of the banks of River Yamuna and the second report dated 13th October, 2014, read with its annexure, in relation to drainage system in Delhi, together with the Action Plan prepared by the DJB for revitalization of River Yamuna. Both these reports shall form integral part of this judgment. All the concerned authorities of NCT of Delhi, State of UP and State of Haryana shall implement the same without demur and default, expeditiously. The entire project contemplated under these reports and this judgment of the Tribunal shall be completed by 31st March, 2017.
- ii. **This project shall be called '*Maily Se Nirmal Yamuna*' Revitalization Project, 2017.**
- iii. Implementation of both these reports and the components of the project shall be simultaneously executed by the concerned agencies, who shall prepare their respective Action Plans in terms of the reports as well as this judgment and submit it to the Principal Committee constituted hereinafter, in not later than four weeks from the date of pronouncement of this judgment.

- iv. (a) Presently, under the jurisdiction of the DJB, there are 23 STPs in existence or planned to be made operational by 2015. Out of them, the oxidation pond at Timarpur is proposed to be closed, as it was commissioned in the year 1947. The STPs at Okhla and Kondli are lying closed due to inadequate sewerage and majority of the STPs are not operating to their optimum capacity. Thus, we direct that the DJB and other concerned Corporations under whose jurisdiction the existing STPs fall, shall, within two months from today, ensure that all these STPs, including the one proposed to be commissioned at Delhi Cantt., should be made fully operational, should operate to their optimum capacity and operate effectively 24x7, without compromising the quality of treated water released from such STPs.
- (b) It is further directed that the Action Plan in regard to installation of STPs on 32 major and minor drains shall be prepared, in accordance with the recommendations in the Expert Committee Report afore-referred and action taken in furtherance thereto, within three months from the date of passing of this order.
- (c) All the newly proposed 32 STPs should be constructed and installed with the requisite capacity varying from 0.6 mgd to 10 mgd, at the sites specified in the report of the Expert Committee within the time frame indicated in this judgment. Once, the total of 55 STPs would operate effectively and to their optimum capacity, the water released from them shall be

recycled and utilised for agriculture, horticulture and industrial purposes and least of this recycled water would be discharged into the River Yamuna.

(d) Action Plan to be prepared to utilize the treated water from the existing 23 STPs as well as from the 32 proposed STPs. It will be ensured that the release of water from these existing STPs should be strictly in accordance with the prescribed parameters and free of any odour and it should meet the faecal coliforms standards.

(e) Wherever necessary, the technology of the existing STP's should be upgraded to ensure proper performance and adherence to the prescribed standards of effluent discharge.

(f) The concerned authorities shall construct and install 26 pump stations at the locations and of the capacity as indicated in the Action Plan placed before the Tribunal. The process thereof should begin within three months from the date of passing of this judgment.

(g) Further, all the STPs shall be provided with a power backup to ensure that they operate effectively 24x7. It shall be ensured that the functional data of all STPs is online and is connected to the Delhi Pollution Control Committee as well as the Central Pollution Control Board, particularly in respect of COD, TDS, TSS and pH and it shall be ensured that the STP's are operational even during power failures.

(h) All the industrial clusters in Delhi shall be provided with Common Effluent Treatment Plants (CETPs). These CETPs

shall be effluent-specific and capacity-specific, with reference to the particular industrial cluster. The installation cost of the CETP shall be borne preferably by the authority that owns and maintains that industrial cluster. In the event of shortage of finances the authority concerned can require the persons running the industrial activity/unit in that cluster to share the cost on 'Polluter Pays Principle' in the ratio 2/3 and 1/3 respectively.

(i) We direct the State of Haryana to ensure that all the industries/industrial clusters that are located near or at the banks of River Yamuna, should preferably be no discharge units. If that is not possible, then such industrial clusters should be directed to install CETPs of the requisite size and standards, so as to ensure that the effluent discharged by them is strictly in accordance with the prescribed norms.

- v. (a) Having given our considered view to the various reports placed on record, submissions made by the Learned Counsel appearing for the parties and the Experts, we are of the opinion that presently the flood plain should be identified for the flood of once in 25 years in the interest of ecology, bio-diversity and the river flow. Thus, we direct accordingly and also direct that the DDA shall prepare a map in this regard and would physically demarcate the entire flood plain.

Above interim prescription of the flood plain is not rigid, but is subject to change, in the event any of the public authorities, including the MoEF, moves the Tribunal, based

technical guidance provided, by the Members of the Principal Committee constituted by the Tribunal particularly the Expert Members, namely, Professor C.R. Babu, Professor A.K. Gosain, Professor Brij Gopal and Professor A.A. Kazmi.

xxviii. We grant liberty to all the parties, the applicants or even the public, to approach the Tribunal for any clarification or modification or for removal of any of the difficulties felt by them in implementation of the directions contained in this judgment and/or of the project reports.

95. In view of the above discussion, Original Application Nos. 6 of 2012 and 300 of 2013 and M. A. Nos. 877/2013, 49/2014, 88/2014 & 570/2014 in Original Application No. 300/2013 and M.A. Nos. 967/2013 & 275/2014 in Original Application No. 6/2012 stand disposed of in terms of this judgment and particularly, the directions stated in paragraph no. 94 of the judgment. The parties are left to bear their own costs.

**Justice Swatanter Kumar
Chairperson**

**Justice M.S. Nambiar
Judicial Member**

**Dr. D.K. Agrawal
Expert Member**

**Prof. A.R. Yousuf
Expert Member**

New Delhi
13th January, 2015

Annexure - B



BY REGD. POST

STATE POLLUTION CONTROL BOARD, ODISHA

(Department of Forest & Environment, Govt. of Odisha)
Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII
Bhubaneswar - 751012

No. 2755 /

Ind-II-NOC-5592

Date 28-02-14

OFFICE MEMORANDUM

In consideration of the application for obtaining Consent to Establish for **Derlipali Super Thermal Power Project of M/s. NTPC Ltd.**, the State Pollution Control Board has been pleased to convey its Consent to Establish under section 25 of Water (Prevention & Control of Pollution) Act, 1974 and section 21 of Air (Prevention & Control of Pollution) Act, 1981 to set up of **Thermal Power Plant of capacity 1600 MW (2x800 MW, stage-I), At/Po-Derlipali (Plot No. & Khata No. as mentioned in application form) in the district of Sundargarh** with the following conditions.

GENERAL CONDITIONS.

1. This Consent to establish is valid for the raw materials, product, manufacturing process and capacity mentioned in the application form. This order is valid for five years, which means the proponent shall commence construction of the project within a period of five years from the date of issue of this order. If the proponent fails to do substantial physical progress of the project within five years then a renewal of this consent to establish shall be sought by the proponent.
2. Adequate effluent treatment facilities are to be provided such that the quality of sewage and trade effluent satisfies the standards as prescribed under Environment Protection Rule, 1986 or as prescribed by the Central Pollution Control Board and/or State Pollution Control Board or otherwise stipulated in the special conditions.
3. All emission from the industry as well as the ambient air quality and noise shall conform to the standards as laid down under Environment (Protection) Act, 1986 or as prescribed by Central Pollution Control Board/State Pollution Control Board or otherwise stipulated in the special conditions.
4. Appropriate method of disposal of solid waste is to be adopted to avoid environmental pollution.
5. The industry shall comply to the provisions of Environment Protection Act, 1986 and the rules made there under with their amendments from time to time such as the Hazardous Waste Management, Handling and Transboundary Movement Rules 2008 and amendment thereof, Hazardous Chemical Rules, /Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 etc. and amendments there under. The industry shall also comply to the provisions of Public Liability Insurance Act, 1991, if applicable.
6. The industry shall apply for grant of Consent to operate under section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 & Air (Prevention & Control of Pollution) Act, 1981 at least 3 (three) months before the commercial production and obtain Consent to Operate from this Board. ✓
7. This consent to establish is subject to statutory and other clearances from Govt. of Odisha and/or Govt. of India, as and when applicable. ✓

[1]

SPECIAL CONDITIONS :-

1. The proponent shall obtain environmental clearance for the proposal as per EIA notification, 2006 and the construction activity for the proposal shall commence after obtaining environmental clearance. ✓
2. The proponent shall carry out the construction activity as per the approved lay out map. Any deviation in approved layout map during construction activity shall be treated as violation of consent condition and appropriate action (including revocation of consent to establish) shall be taken as per law. If the proponent desires to change the approved plant layout map, they can submit a modified plant layout map surrendering the previous one before going for physical construction. ✓
3. The unit shall not use 390 acres land ear-marked for green belt development for other purpose. ✓
4. The industry shall set up its own fly ash brick manufacturing unit along with establishment of unit-I so that fly ash generated from the unit-I can be utilized for fly ash brick making and which will be used for civil construction of unit-II. } ← ?
5. The industry has proposed to use 30% imported high GCV coal. They shall keep adequate space for installation of flue gas de-sulphurization unit in case substantial increase in GLC concentration of SO₂ is observed.
6. The industry shall construct ash pond over 400 acres of area as earmarked in the revised land use break-up. Under no circumstance land earmarked for ash pond shall be used for any other purpose. Consent to operate for power plant shall only be considered when ash pond will be ready for ash disposal
2. The unit shall suitably divert all the public roads passing through the proposed project. ✓
3. The unit shall develop thick green belt with high boundary wall along the boundary of the project as human habitations are close to the proposed site. ✓
4. The unit shall include rain water harvesting proposal during execution of the project. ✓
5. The unit shall submit year wise along with percentage wise fly ash utilisation plan to the Board in the end of the year. ✓
6. The unit shall be based on zero discharge concepts and in no case any effluents shall be discharge to any water body. ✓
7. The unit shall obtain necessary clearances such as forest clearance, wild life clearance, clearance from water resources department etc. from the appropriate authorities as applicable. ✓
8. The unit shall adopt adequate safety measures in construction of ash dyke and detail constructional feature shall be submitted to the Board within one month from the date of issue of consent to establish. ✓
9. The height of each stack of power plant boiler shall not be less than 275 meters from the ground. The power plant shall have two stacks for flue gas emission. ✓
10. The unit shall install ESP in the stack attached to power plant boiler such that particulate matter emission shall not exceed 50 mg/Nm³. They should make provision for one spare field during the design of ESP. If more than one field of ESP fails, the plant should trip automatically through an interlocking system. ✓

11. The unit shall provide port hole and platform at suitable location with safe approach to conduct emission monitoring at the stack.
12. The unit shall provide dust extraction system at crusher-house, boiler bunker to control dust emission. CHP shall be installed in a shed and coal carrying conveyor belts shall be covered.
13. Separate energy meter shall be installed for all the pollution control equipments and the records shall be maintained for verification of the Board from time to time.
14. Necessary preventive measures shall be taken during construction phase so that the ambient air quality including noise shall conform to National Ambient Air Quality standards and standards for noise in industrial area as per Annexure-I. The unit shall install adequate dust extraction as well as dust suppression system at all potential dust generating points to control fugitive dust emission and the ambient air quality inside the factory premises shall conform to the standard with reference to National Ambient Air Quality Standard prescribed by MoEF, Govt. of India dtd.16.11.2009 enclosed as Annexure - II.
15. The construction material which has potential to be air borne, shall be transported in covered trucks.
16. The roads inside the plant premises shall be black topped. Permanent high pressure water sprinkling system shall be installed for regular spraying of water on roads to minimize fugitive dust emission.
17. The unit shall take adequate measures for controlling of fugitive dust emission during transportation of fly ash for utilisation. Good housekeeping practices shall be followed to improve the work environment. All roads and shop floors shall be cleaned regularly.
18. At least 6 continuous ambient air quality monitoring stations around the industry shall be set up to monitor PM-10, PM-2.5, SO₂, NO_x, CO and other important parameters as given in as per Annexure - II above within at least to the distance in down wind direction and where maximum ground level concentration is anticipated. The exact location of the monitoring stations shall be finalized in consultation with the State Pollution Control Board. The proponent shall install continuous online ambient air quality monitoring and stack monitoring system with display facility at the gate. A detail proposal to this effect shall be submitted.
19. Pneumatic conveyor system shall be provided as dust collection system for ESP dust. Silos shall be provided for collection of bottom ash and fly ash. Conveyor belt shall be closed and bag filter shall be provided at transfer points of conveyor system to control fugitive emission.
20. Air pollution Control devices shall be maintained properly. Fabric bags and cages in bag house shall be checked regularly and replaced whenever required. Adequate availability of spares shall be ensured for immediate replacement.
21. All the wastewater generated shall be discharged to a common monitoring basin before it is reused in the plant for various process.
22. The Blow down shall meet the following standards before it is discharged to the common basin.

Boiler Blow Down :

Suspended solids	-	100.0mg/l (max)	?
Oil & Grease	-	20.0 mg/l (max)	
Copper (Total)	-	1.0 mg/l (max)	
Iron (total)	-	1.0mg/l (max)	

[3]

Cooling Tower Blow Down

Free available Chlorine	-	0.5 mg/l (Max)
Zinc	-	1.0 mg/l (Max)
Chromium (total)	-	2.0 mg/l (Max)
Phosphate	-	0.2 mg/l (Max)

23. The wastewater generated from leakages, blow downs and DM plant shall be treated individually to meet the prescribed standard of effluent discharge to inland surface water and stored in a common basin (i.e. guard pond) for utilization for plantation, dust suppression ash handling and green belt purpose inside the factory premises. Lining shall be provided in guard pond to prevent any seepage into ground to avoid ground water contamination. The proponent shall submit detail drawing with specification of ETP within 6 months.
24. The proponent shall provide garland drains around coal storage area followed by series of settling tanks to retain the solids, if any, in order to reduce the load on common monitoring basin.
25. The unit shall furnish details of the control measures at coal loading and unloading points.
26. The acidic water generated during boiler cleaning shall be properly neutralized so that the pH of cleaning water remains within the range of 6.0 – 9.0. After neutralization this water can be discharged to the common monitoring basin.
27. Oil catch pits shall be provided in oil handling area of power plant for collection of spillage
28. The unit shall provide treatment system such as Reverse osmosis plant to treat the waste water generated from cooling tower blow down and reuse the same in the process.
29. The storm water drains shall be maintained separately without being mixed up with the industrial effluent or sewage effluent. The domestic effluent from the industry as well as the colony shall be treated in proper sewage treatment plant to meet the prescribed BIS standard (SS – 30mg/l, BOD – 20mg/l) before being discharged or utilized for green belt development.
30. The industry shall adopt High Concentration Slurry Disposal (HCSD) method for ash disposal. A detail design of the ash disposal area, the dykes, run off and seepage collection system etc shall be made and submitted within 3 months from the date of issue of this consent to establish. ✓
31. A comprehensive ash utilization plan shall be prepared within the frame work of Fly Ash Notification, 2009 and its amendment thereof. The plan should explore all possible means of utilization with realistic timelines and utilization options. The ash utilization plan submitted by the proponent is not adequate. A detailed ash utilization plan is to be submitted keeping in view of less ash at the time of consent to operate application. ✓
32. The proponent shall take precautionary measures to prevent surface run off from ash disposal area during torrential rain. A detailed proposal to this effect is to be submitted within 3 months. ?
33. Rain water harvesting structure shall be developed inside the plant premises as per concept and practices made by CPCB and maximum efforts shall be made to reuse harvested rain water, with a definite plan and programme to reduce the drawal of fresh water from water bodies.
34. The unit shall explore the possibility of disposal of fly ash in abandoned mine pit for complete utilization of fly ash. ?
35. The unit shall submit details of hazardous chemicals and storage facility and risk assessment to the Board.
36. The industry shall comply with all the conditions stipulated under Charter on Corporate Responsibility for Environmental Protection (CREP) guidelines in a time bound manner as envisaged there in.

37. A toe drain shall be provided around the ash mound. The seepage water collected in the toe drain shall be monitored every month with respect to pH, SS, O&G and fluoride and shall meet the following standards
- pH-6.5 to 8.5
 - SS-100mg/l
 - O&G-20mg/l and
 - Flouride-2.0mg/l
- and the monitoring report shall be submitted to the Board quarterly.
38. Regular monitoring of runoff water from the disposal area and excess ash water shall be carried out with respect to pH, SS, O&G and fluoride content and monitoring report shall be submitted to the Board every quarter.
39. Ash pond shall be lined with HDPE or any other suitable impermeable lining such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.
40. The Project Proponent shall carry out detail hydrogeological study of the ash pond site incorporating soil analysis, ground water quality (fluoride & heavy metals), surface water quality (fluoride & heavy metals) and drainage network of the area and the change in hydrological status shall be monitored annually.
41. Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (F, Cd, Hg, Cr, As, Pb) and records shall be maintained and submitted to the Board. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.
42. The entire upstream face of the dyke shall be provided with stone pitching or brick lining or precast tile lining to prevent erosion of the slope by wave action during heavy wind.
43. The entire area of the ash dyke shall be provided with fencing and unauthorized entry within this ash pond area shall be strictly prohibited. Security guards shall be posted for vigilance of the ash dyke area round the clock. This is very important as there are chances of sabotage. The entire dyke perimeter shall have accessible roads. The entire dyke area shall be provided with street lights or flood lights for inspection during night time. A site office shall be constructed with a full time engineer responsible for inspection and monitoring of the ash dyke.
44. The industry shall construct a Sewage Treatment Plant (STP) for treatment of wastewater to be generated from domestic source and the treated sewage shall be discharged to the common monitoring basin.
45. The unit shall explore the possibility to use chlorine di-oxide for treatment of water instead of chlorine gas.
46. Plantation activity shall be planned in such a way so that trees will have better growth by the time the unit starts operation.
47. The proponent shall deploy vehicles which conform to the latest BIS emission specification. The proponent shall also to give a detail proposal to control noise pollution during construction phase. The proponent shall prepare pollution prevention and environment management plan for construction phase and operation phase separately and should submit to the Board three months prior to commencement of construction and operation respectively.
48. The rising temperature during summer in the area is a major concern. The unit shall conduct a detailed study on contribution of thermal heat to atmosphere due to the proposed project and its impact on ambient temperature during different season. The study should also investigate the heat island effect due to the project.

49. The industry shall provide screen at the water intake system of Hirakud reservoir for protection of aquatic life.
50. The industry shall set up a full-fledged environment monitoring laboratory and an environment management cell with qualified personnel for monitoring of pollutants and effective remedial measures in case of necessity. Head of the environmental management cell shall report to the unit head.
51. The civil construction shall be carried out with the fly ash bricks. If the fly ash bricks are not available locally the civil construction may be carried out with other bricks with prior intimation to the concerned Regional Office of SPC Board. A statement indicating use of fly ash bricks during construction period shall be submitted to the Board every year for record.
52. The land on which the unit is proposed to be established the power plant shall be converted to industrial use Kism by the competent authority. The copy of said land conversion document shall be submitted to the Board along with consent to operate application.
53. A green belt of adequate width and density preferably with local species along the periphery of the power plant shall be raised so as to provide protection against particulates and noise. It must be ensured that at least 33% of the total land area shall be under permanent green cover, in such a manner that, atleast plantation shall be taken up at least in 20% of the total green belt area and progressively achieve 100% in a span of five years.
54. No production activity shall commence prior to installation of the pollution control devices. In case, it is found that the plant is operating without installation of appropriate pollution control equipment(s) and without permission for trial operation from the Board, a direction of closure shall be issued u/s 31-A of Air (PCP) Act, 1981 and /or u/s 33-A of Water (PCP) Act, 1974 without any further notice in this regard.
55. The Board may impose further conditions or modify the conditions stipulated in this order during installation and /or at the time of obtaining consent to operate and may revoke this clearance in case the stipulated conditions are not implemented and /or any information suppressed in the application form.

Encl: Approved layout Map & Annexures


MEMBER SECRETARY

To

✓ Shri S. K. Reddy, General Manager,
Deripali Super Thermal Power Project (DSTPP) of
M/s. NTPC Ltd.,
3rd & 4th Floor, Amba Tower, Hospital Road,
Sundargarh-770001.

Memo No. _____ /Dt. _____ /

Copy forwarded to:

1. District Magistrate & Collector, Sundargarh.
2. District Industries Centre, Sundargarh.
3. Director, Factories & Boiler, Bhubaneswar
4. Regional Officer, SPC Board, Rourkela.
5. Sr. Env. Engineer (Consent), SPC Board, Bhubaneswar.
6. DFO, Sundargarh.
7. Hazardous Waste Management Cell, SPC Board, Bhubaneswar.
8. Copy to Guard file.

SR. ENV. ENGINEER (N)

[6]

GOVERNMENT OF KARNATAKA
DEPARTMENT OF FACTORIES, BOILERS, INDUSTRIAL SAFETY & HEALTH

CSMC/TFC/CR-13/2013-14

Phone No 080-26531200
Fax No 080-26531202

Directorate of Factories, Boilers, Industrial Safety & Health, "Karmika Bhavana" 2nd floor, Near Bengaluru Dairy, I.T.I. compound, Bannerghatta road, Bengaluru-29 Dated 23.09.2013

To,
General Manager,
M/s NTPC Limited,
Kudgi Super Thermal Power Project,
Plot No. 9, Mallikarjun Nagar,
Mangaluru Road, Bijapur-586 109

Sir,

Subject: **Site Clearance for setting up of super thermal power project**

- Reference: 1. Your letter dated 03.05.2013
2. Proceedings of Task force committee meeting held on 12.09.2013
3. Your reply mail dated 19.09.2013.

* * *

We are pleased to inform you that the Task Force Committee in its meeting held on 12.09.2013 has reviewed the presentation, documents, details of the safety systems adopted, etc and has concurred in principle to issue the Site Clearance for the initial clearance for the establishment of super thermal power project for generating electrical power of 3 X 800 MW at Near Kudugi village, Basavana bagewadi Taluk, Bijapur District.

The site clearance is issued subject to the following conditions:

1. The replacing of highly hazardous chlorine with available less hazardous alternative chemicals like chlorine dioxide, sodium hypo chlorite shall be considered.
2. The mobile hydrogen cylinder bank with manifold system shall be adopted in place of loose Hydrogen Cylinders
3. The safety check shall be prepared in storing, handling and usage of Hydrazine and its holding capacity shall be limited to a minimum required quantity
4. The exclusive safety, health and environment (SHE) department shall be formed under the direct control & supervision of the occupier. This department shall be supported by the senior level qualified and competent executives with adequate field-staff.
5. The effective online monitoring system shall be adopted to ensure the safe and healthy work environment with special trust to fugitive emission of radiation, noise level etc.
6. No building or structure shall be constructed without obtaining a prior approval of plans by Director, Department of Factories, Boilers, Industrial Safety and Health.
7. The pre and periodical medical examination shall be carried out to all the category of employees including contract and casual. The medical surveillance shall be carried out by creating a base line health data and shall have the provision for up-dating the same on continuous basis.

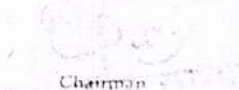
8. The mitigation measures as submitted in the presentation and as suggested by committee shall be incorporated in the on-site emergency plan. The same shall be submitted for scrutiny and approval.
9. The provisions of rule 51 to 251 of Building and Other Construction Workers (Regulation of Employment and condition of service) (Karnataka) Rules 2006 shall be complied to ensure occupational safety and health of the construction workers involved project. The compliance shall be furnished regularly to jurisdiction officers of our department and to the Director of Factories, Boilers, Industrial Safety and Health.

Suggestions:

1. The industry shall adopt the rain - harvesting system to harvest at least 30% of the rain water.
2. The industry shall adopt solar energy system at least catering to street lighting and in other suitable areas like water heating in the canteen, etc.

All the above conditions and suggestions shall be complied and a report shall be submitted. The department reserves all the rights to modify or withdraw clearance issued at any point of time.

Your's Faithfully,


Chairman
Task Force Committee
and Director of Factories, Boilers,
Industrial Safety and Health, Bangalore.

Govt Of Karnataka
Department Of Factories, Boilers, Industrial Security And Health

Office of the Director
Karmika Bhawana, II floor, Bannerghatta Road,
Bengaluru-29, Date: 13.04.2016

Proceedings of the Department of Factories, Boilers, Industrial Security and Health

Read with: Sec 6(1) of Factories Act 1948 and Rule 3 of Karnataka Factories Rules, 1969

Sub: Approval of factory drawings in respect of M/s. Kudgi Super Thermal Power Project (NTPC Limited) as per Factories Act 1948 -Reg.

- Ref: 1) Application Form I dated 27.01.2016
2) Site Inspection dated 05.02.2016
3) Final Scrutiny dated 07.04.2016

The maps of M/s NTPC Limited, Kudgi Super Thermal Power Project, Vijayapura have been scrutinized as per the Factories Act 1948 and the Rules framed and conceived there under and the blue prints of the factory's buildings and machinery layouts have been approved subject to the conformity of all provisions conceived as per Factories Act 1948 concerned and clause 3(4) of Karnataka Factories Rules, 1969 and also conformity of following conditions:

1. To modify the use of hazardous chlorine chemical to minimum hazardous chlorine chemical and to strictly comply with all the conditions laid down in the letter as per the condition of this office letter no. CSMC/TFC/CR-13/2013-14 Date 23.09.2013.
2. To get those buildings and machinery layout maps approved which are not approved earlier or the maps involving modifications. Such maps should be submitted for approval.
3. Before starting use of all the buildings and structures of the factory, authentication certification should be separately obtained as per Form 1A from authorized Civil Engineers and submitted to the Field Officer. Then only these should be used.

Ninety nine maps as approved are sent enclosed herewith. Kindly acknowledge.

Director of Factories &
Boilers,
Bengaluru

To,
The Occupier,
M/s. Kudgi Super Thermal Power Project
NTPC Limited
Kudgi, Taluka: Basavana Bagewadi, Dist.: Vijayapura

for kind information please.

45/11/16
29/4/16

29/4/2016

नेहरू मण्डल

29/4/16

SIEMENS

Power & Gas

To

NTPC Ltd,
KIND ATTN.: - Mr. T Dayal,
AGM (C & I)
Faridabad Gas Power Plant,
Village Mujedi, PO Nimka,
Faridabad 121004
Haryana

Name	Shivank Pandita
Department	PG IE
Telephone	+91 124 3837361
Mobile	+91 9958307878
E-mail	shivank.pandita@siemens.com
Your reference	
Our reference	EFIE /FGPS/BUD_230611/SVK/P2
Date	19.02.2015

SUBJECT: PHASEOUT ANNOUNCEMENT OF SIEMENS MAKE SPPA T2000 DCS SYSTEM

Dear Sir,

This is to inform you that the SPPA T2000 (Teleperm XP) system commissioned at your site is out of normal production. The spare support for the same was available till September 2014. As of now, the spare support is available purely on the basis of availability of the spares in our stocks. As such in order to avoid any inconvenience and disruption in plant operation we suggest the upgradation of the SPPA T2000 (Teleperm XP) system of our latest and state of art SPPA T3000 system.

Yours faithfully,

Siemens Ltd.

Anurag Tiwari
Anurag Tiwari
Senior Manager (Sales)
Service & IT

Siemens Ltd.
Management: Sunil Mathur
Power & Gas Division Management: Dominik Hofmann

Plot 6A, Sector 18
Maruti Industrial Area, HUDA
Gurgaon 122 015

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Sales Office: Ahmedabad, Bangalore, Chandigarh, Chennai, Coimbatore, Hyderabad, Kharghar, Kolkata, Mumbai, Nagpur, New Delhi, Pune, Vadodara.