एनटीपीसी
NTPC

मुजफ्फरपुर थर्मल पावर स्टेशन
Muzaffarpur Thermal Power Station

Ref. MTPS/HOP/45309

Date. 01/09/25

To,

The Member Secretary,
Bihar State Pollution Control Board
Parivesh Bhawan, Plot No. NS-B /2
Patliputra Industrial Area,
Patliputra, Patna
Bihar-800010

Subject: - Submission of Environmental Statement for FY: 2024-25 under E (P) Rules, 1992 vide GSR 329 (E) dated 13.03.1992

Dear Sir,

Please find enclosed herewith Environmental Statement of Muzaffarpur Thermal Power Station, NTPC Ltd., Kanti for the period from 1st April 2024 to 31st March 2025 as per prescribed format.

Kindly, acknowledge the receipt.

Your's Faithfully

(Madhu S)
Head of Project

CC:

The Regional Officer Bihar State Pollution Control Board, Regional Office, Bela Industrial Area, R. K. Ashram Chowk, Bela, Muzaffarpur- 842005	**The Regional Officer** Ministry of Environment, Forest & Climate Change 2nd Floor, Headquarter- Jharkhand State Housing Board, Harmu Chowk, Ranchi, Jharkhand- 834002

Scanned with OKEN Scanner

ENVIRONMENTAL STATEMENT FOR Muzaffarpur Thermal Power Station (MTPS)

(*FOR THE YEAR 2024-25*)

FORM-V

(Under Rule -2 of The Environment (Protection) second amendment rules, 1992 VIDE G.S.R. 329 (E) Dated 13.03.1992

Environment Management Group

Muzaffarpur Thermal Power Station

NTPC Limited

(formerly Kanti Bijlee Utpadan Nigam Limited)

PO: Kanti Thermal, Dist: Muzaffarpur

PIN: 843130

(Under Rule -2 of The Environment (Protection) second amendment rules, 1992 VIDE G.S.R. 329 (E) Dated 13.03.1992)

PART-A

1	Name & address of the Owner / occupier of the industry operation as process.	:	Mr. Madhu S Head of Project Muzaffarpur Thermal Power Station, NTPC Limited (formerly Kanti Bijlee Utpadan Nigam Limited) PO- Kanti Thermal Dist-Muzaffarpur-843130 (Bihar)
2	Industry Category Primary (STC Code)	:	Thermal
3	Production Capacity (MW)	:	St-II (195 MW X 2) = 390 MW (St-I Permanently closed w.e.f 08.09.2021)
4	Year of Establishment	:	March 2016 (2 X 195 MW)
5	Date of Last Environmental Statement Submitted	:	25.09.2024

PART-B

(Water and Raw Material Consumption)

1. Water Consumption:

Sl. No.	**Water Consumption**		**(M^3/MU)**	**(M^3/day)**
1.	Process	**:**	709.27	5444.91
2.	Cooling	:	2202.08	16904.91
3.	Domestic	:	73.52	564.41
	Total	:	2984.87	22914.23

	Water consumption per product output (Liters / kWh)			
	Name of Products		**During the previous fin. Year (2023-24)**	**During the current fin. Year (2024-25)**
	ELECTRICITY	:	3.05	3.01

2. Raw Material Consumption:

Sl. No.	Name of Raw Materials	Name of Product	Unit of Measure	Consumption of raw material per unit of output	
				During the Prev. fin. Year 2023-24	During the current fin. Year 2024-25
1	Coal	Electricity	Kg/kWh	0.685	0.640
2	Oil		ml/kWh	0.35	0.43

PART-C

POLLUTION GENERATED

(Parameters as specified in the Consent issued)

Pollutants	Quantity of Pollutants/ Discharged (Ton/day)	Concentration of Pollutants in Discharges (mg/Nm³)	% of variation from prescribed standard with reasons.
Water	NIL	NIL	NIL
Air/Flue Gas	SPM: 0.94 SOx: 23.54 NOx: 7.86 Hg: 0.0002	39.40 971.68* 321.78 0.01**	NIL 61.94* NIL NIL

* MOEF &CC has extended the SOx Norms compliance date for St-II units up to 31.12.2028

** Concentration of Mercury found below quantification limit (BQL=0.01 mg/Nm3). However, for calculation purpose, BQL quantity 0.01 mg/Nm3 has been taken.

PART-D

HAZARDOUS WASTES

(As specified under Hazardous Waste (Management and Handling) Rules, 1989)

HAZARDOUS WASTE		TOTAL QUANTITY During the previous fin. Year 2023-24	During the current fin. Year 2024-25
(a)	**From Process (Used & Dirty Oil)**	10.99 KL	13 KL
(b)	**From Pollution Control facilities**	NIL	NIL

PART-E

SOLID WASTES

SOLID WASTE		TOTAL QUANTITY	
		During the previous fin. Year 2023-24	During the current fin. Year 2024-25
1.	FROM PROCESS Mill rejects (in MT)	9956	8973
2.	FROM POLLUTION CONTROL FACILITY	NIL	NIL
3.	QUANTITY RECYCLED OR RE-UTILISED WITHIN THE UNIT	9956	8973
4.	Sold	NIL	NIL
5.	Disposed	NIL	NIL

PART-F

Please specify the characterizations (in terms of composition of quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes

HAZARDOUS WASTE STATUS

Sl. No.	Types of hazardous wastes	Disposal Practice
1	Used Oil	Used oil packed in MS drum is being sold to authorized recycler

PART-G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

- Regular monitoring of ambient air quality, stack emissions and effluent quality is done through recognized laboratory to evaluate the efficiency of the pollution control systems and control measures on the overall emissions from stack and ambient air.
- Installation of process waste water reuse system and Effluent treatment plant to recycle the process effluent. This has resulted in the conservation of natural resources (fresh water).

- Installation of Ash water recirculation system to re-circulate ash water in slurry preparation is resulting in the conservation of natural resources (fresh water).
- Depreciation cost of pollution control devices & cost of Operation & Maintenance of these devices has direct impact on cost of production.
- Afforestation as an additional measure for better environment management has added to natural green cover of plant, township, ash dyke and surrounding area.
- 125 KWp Rooftop Solar PV plant has been installed at various buildings of Plant area.
- Pond Ash is being provided to NHAI for use in the Road projects and accordingly transportation charge has been borne by MTPS.
- NOx reduction system has been installed to comply with latest NOx compliance.

PART-H

Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution.

1. Movable Water sprinkling system has been deployed for water spraying to control fugitive emission and Rs. 18 Lakh (approx.) has been incurred for the same.
2. The Expenditure of Rs. 11 Lakh (approx.) has been done on third party monitoring of ambient air quality, drinking water, effluent & stack parameters etc.
3. The expenditure of Rs. 1.5 Lakh (approx.) has been done on plantation activities as a part of Environmental protection.
4. Online system for monitoring of ambient Air Quality, Effluent quality and stack have been installed and total cost of Rs. 84 Lakh (approx.) has been incurred for meeting various requirement of system.
5. The Work of solid waste management is being done at plant and township and Rs. 17 Lakh (approx.) has been incurred for the same.
6. Bio-medical waste is being disposed off as per norms through authorized agency.
7. The expenditure of amount of Rs. 9 Crore (approx.) has been done as a transportation cost of pond ash for utilization in NHAI road projects.
8. Ash utilization has been taken as thrust area irrespective of cost implication and accordingly MTPS has achieved 123.88 % ash utilization during FY 2024-25.

PART-I

Any other particulars for improving the quality of the environment

1. Monitoring of various Environmental Parameters is being carried out on regular basis and all necessary steps are being taken to maintain the same within the prescribed limit.
2. Curtains are being provided at ash dyke for mitigation of fugitive emission.

3. Separate identified group is working for environment monitoring and management at station, supported by groups at Regional & Corporate level.
4. The generated waste water is being treated at ETP & STP and treated effluent is being re-cycled for use in process for minimizing use of fresh water.
5. Various environment awareness campaigns have been taken-up on world environment day, Water Day, Independence Day, Republic Day, Earth Day etc.
6. Cleanliness drives have been carried out in colony and nearby area to spread awareness in public regarding keeping clean and green environment.
7. Special tree plantation drive have been carried out on various occasion like world environment day, World Water Day etc.
8. Rainwater harvesting is being done to recharge the ground water and to store rainwater.
9. Good housekeeping is being maintained in Plant and Township area.
10. Jute bags have been distributed among employees to promote the eco-friendly carry bags and to stop use of polythene.
11. Single use plastic free campaign has been organized on regular basis to keep colony free from plastic.