



MTPS/UMPP/ENV/GPCB/6007

Date- Sept. 9 2024

To,
Member Secretary
Gujarat Pollution Control Board
Paryavaran Bhavan, Sector-10-A,
Gandhinagar-382010

Sub: Environmental Statement for the financial year ending 31st March, 2024 for
M/s The Tata Power Company Limited, Mundra UMPP Tunda - Vandh,
Taluka- Mundra, District Kutch.

Dear Sir,

With reference to the above subject, Please find enclosed Environmental Statement
in Form V prescribed under Rule 14 of the Environment (Protection) Rules 1986, for
The Tata Power Company Limited, Mundra for the financial year ending 31st March
2024.

Thank you,

Yours faithfully,
For **The Tata Power Company Limited**

Ashish Anant Bhat
(Chief - Mundra)

Encl: As above.

Copy to:

1. The Director, Integrated Regional Office, Ministry of Environment Forest & Climate Change, Gandhi Nagar, A-Wing-407 & 409 , Aranya Bhawan, Near CH-3 Circle , Sector 10-A, Gandhi Nagar - 382010
2. The Regional Officer, Gujarat Pollution Control Board, 215-216, Kandla Port Trust Administrative Building, Gandhidham, Kutch - Gujarat.

TATA POWER

The Tata Power Company Limited

Mundra Thermal Power Station - Ultra Mega Power Plant, formerly a Unit of Coastal Gujarat Power Limited,

Plant Address: Tunda Vandh Road, Tunda Village, Mundra, Kutch 370435, Telephone: 91 2838 661213

Regd. Office: Mombay House, 24, Homi Mody Street, Mumbai-400 001 (Maharashtra)

Website: www.tatapower.com; Email: tatapower@tatapower.com; CIN: L28920MH1919LC000567

Environmental Statement Report for 2023-24 for The Tata Power
Company Limited, Mundra

ENVIRONMENTAL STATEMENT

FORM V

SUBMITTED BY

M/s THE TATA POWER COMPANY LIMITED

(Formerly Known as Coastal Gujarat Power Limited)



**4150 MW (5X830MW)
ULTRA MEGA POWER PLANT,
MUNDRA, GUJARAT - 370 435**

APR'23 - MAR'24

Environmental Statement Report for 2023-24 for The Tata Power
Company Limited, Mundra

FORM V
(See Rule 14)

Environmental Statement for the Financial Year ending 31st March 2024

PART – A

- (i) Name and address of the Owner/ : Dr. Praveer Sinha
Occupier of the Industry CEO & Managing Director
Operation or Process The Tata Power Company Limited,
Tunda Vandh Road, Tunda Village,
Mundra, Kutch 370-435
- (ii) Industry Category : Primary
Primary (STC Code)
Secondary (STC Code)
- (iii) Production Capacity : 4150 MW
- (iv) Year of Establishment : 2012
- (v) Date of last Environment : 02.09.2023
Statement submitted

**Environmental Statement Report for 2023-24 for The Tata Power
Company Limited, Mundra**

PART – B

Water and Raw Material Consumption

(i) Water Consumption

Water Consumption Cu. Mtr. /Day	Sea Water
Process	30688.22 m ³ /day
Cooling	15340332.84 m ³ /day
Domestic	12.13 m ³ /day

Name of Products	Process Water Consumption per unit of Product Output	
	During the financial year (2022-23)	During the financial year (2023-24)
Electricity	0.65 M3/MWh	0.39 M3/MWh

(ii) Raw Material Consumption

Name of Raw Material	Name of Products	Consumption of Raw Material per Unit of output	
		During the financial year (2022-23)	During the financial year (2023-24)
Coal	Electricity	0.41 MT/MWh	0.42 MT/MWh

PART – C

**Pollutants discharged to Environment/Unit of Output
(Parameters as specified in consent issued)**

Pollutants	Quantity of pollutants discharged (Mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
(a) Water			Nil
(b) Air			
Particulate Matter (mg/Nm ³)		Annexure 1	Nil

**Environmental Statement Report for 2023-24 for The Tata Power
Company Limited, Mundra**

PART – D

Hazardous Wastes

(As specified under Hazardous Wastes Management and Handling Rules 1989)

Hazardous Wastes	Total Quantity	
	During the financial year (2022-23)	During the financial year (2023-24)
(a) From Process	64.818 MT of Used Oil 3.144 MT of Discarded Containers.	25.972 MT of Used Oil. 5.150 MT of Waste Residues Containing Oil.
(b) From Pollution Control facilities	Not Applicable	Not Applicable

PART – E

Solid Waste

Solid Waste	Total Quantity Generated (MT/Annum)	
	During the financial year (2022-23)	During the financial year (2023-24)
From Process (Ash)	422588.77 MT	831586 MT
From Pollution Control facilities	Not Applicable	Not Applicable
1) Quantity recycled or reutilized within the unit	-	-
2) Sold	609059 MT	841356 MT
3) Recycled/ Utilized	-	-

PART - F

Please specify the characterization (in terms of Composition and quantum) of Hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes:

- During the financial year 2023-24, Used Oil of 25.972 MT and 5.150 MT of Waste Residues Containing Oil has been disposed through GPCB authorized recycler has been sent for incineration to GPCB authorized incinerator Agency.
- During the financial year 2023-24, 841356 MT fly ash is utilized as per Fly Ash Notification.

Environmental Statement Report for 2023-24 for The Tata Power
Company Limited, Mundra

PART – G

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

- MTPS is super critical thermal power plant hence plant emits less amount of pollutants into the atmosphere in comparison with sub critical power plant.
- As MTPS is using high GCV and less ash percent imported coal hence net ash generation is very low in comparison with high ash low GCV Indian coal power plant.
- MTPS is using sea water as water source and no fresh water is consumed for plant operation/ process.
- High efficiency ESP has been installed for control of Particulate Matter emissions.
- Low NOx burners have been installed for NOx emission control.
- FGD installation for control of SOx emissions is in progress.
- RWH system is installed in consultation with CGWA.
- ETP & STP has been installed for treatment and reuse of waste water.

During the financial year 2023-24, the total cost incurred on environmental protection measures is enclosed as **Annexure 2**.

PART – H

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

- Hood conveyor belt of 1.3 km has been replaced with Pipe conveyor belt towards vandh village side to arrest the fugitive emission and is being maintained.
- Outfall channel, ash pond and guard pond constructed with impervious HDPE lining to prevent ground water contamination is being maintained
- Entire Treated water from ETP and STP is being used for plantation and green belt development. Additional storage pond has been developed for storage & further utilization of treated effluent water.
- Dust suppression system viz. Dry fog system at junction tower, hood cover on coal conveyer, about 60 Nos. water sprinklers at coal stock yard installed to control fugitive dust emission from coal handling system.
- Bag filters are installed at junction towers to control fugitive emission.
- About 9m high wind barrier constructed with 3 tier plantations along the periphery near the coal stock yard to prevent fugitive emission
- A separate 530 m long wind barrier with height of 19 m has been constructed along the side of the coal stock yard to avoid fugitive emission by blocking the wind velocity.

**Environmental Statement Report for 2023-24 for The Tata Power
Company Limited, Mundra**

- Plantation & Green belt of More than 1/3rd of the plant area has been developed with native species which can survive in this area.
- Regular Environment Monitoring is being done for Ambient Air Quality – Emissions - Effluent and marine Ecology in accordance Environmental Management plan
- Integrated Waste Management system has been developed for collection, storage, transportation, sorting & eco-friendly disposal in a sustainable manner of non-hazardous dry solid waste.
- Composting system has been initiated for treatment of food waste & horticulture waste through bio composting.
- Hazardous waste storage has been developed for storage and further environmental friendly disposal.

PART – I

Any other particulars for improving the quality of environment:

- Rooftop rainwater is harvested at Fire Water Pump House building and further utilized for process.
- MTPS has implemented Integrated Management System and has been certified with ISO 9001, ISO 14001 and ISO 45001, ISO 50001
- 4388 saplings have been planted during this period.

For **The Tata Power Company Limited,**



(Ashish Anant Bhat)
Chief - Mundra

Enclosures -

Annexure 1 - Stack Monitoring Report of FY24

Annexure 2 - Environmental Expenditure Report

Annexure 3 - Month wise Production Details

Annexure 4 - Ambient Air Quality Report of FY24

Annexure 5 - Effluent Quality & Sewage Quality Monitoring Reports.

Annexure 6 - Condensate Cooling Water Quality Report

Annexure 7 - Noise Quality Monitoring Report FY24

Photographs of new initiatives

Environmental Statement Report for 2023-24 for The Tata Power
Company Limited, Mundra

Annexure 1

Stack Emission Monitoring

Unit No.	U#10	U#20	U#30	U#40	U#50
Parameter	PM	PM	PM	PM	PM
UOM	mg/ Nm3	mg/ Nm3	mg/ Nm3	mg/ Nm3	mg/ Nm3
Limits as per CC&A	50	50	50	50	50
April-2023	34.5	26.9	30.7	Unit Shutdown	32.5
May-2023	30.2	31.2	35	Unit Shutdown	34.6
June-2023	30.2	29.1	36.2	Unit Shutdown	34.6
July-2023	31.1	24.6	38.6	Unit Shutdown	33
Aug-2023	30.9	25	28.4	Unit Shutdown	26.4
Sept-2023	28.1	24.7	28	Unit Shutdown	31.1
Oct-2023	29.1	26.2	30.2	Unit Shutdown	34.9
Nov-2023	38.2	30.8	35.6	Unit Shutdown	29.1
Dec-2023	32.2	35.6	37.6	Unit Shutdown	36.2
Jan-2024	34.8	28.5	32.2	Unit Shutdown	33.7
Feb-2024	32.6	30.2	36.8	Unit Shutdown	38.2
March-2024	35.8	33.6	34.5	Unit Shutdown	36.3

**Environmental Statement Report for 2023-24 for The Tata Power
Company Limited, Mundra**

Annexure – 2

Expenditure for Environmental Protection Activities during FY 2023-24

Sr. No	Activity	Expenditure (in lacs)
1	O&M Cost of ESP	76.11
2	O&M Cost of ETP	23.85
3	O&M Cost of CEMS & CAAQMS	102.62
4	O&M Cost of Display Board	1.29
5	Environment Day Celebration Cost	1.00
6	Green Belt Development	50.84
7	Environment Monitoring	29.69
8	GPCB Schedule 1 Audit	9.51
9	Waste Management	45.82
Total		341.00

Environmental Statement Report for 2023-24 for The Tata Power
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Annexure – 3

Month wise Production details for FY 2023-24

Electricity Production details FY24	
Month	Electricity Production (MU)
Apr-23	543.12
May-23	1831.16
Jun-23	1374.68
Jul-23	1532.38
Aug-23	2096.74
Sep-23	1903.58
Oct-23	2109.45
Nov-23	1761.15
Dec-23	1649.22
Jan-24	1767.24
Feb-24	1707.29
Mar-24	1999.40
Total	20275.42

**Environmental Statement Report for 2023-24 for The Tata Power
Company Limited, Mundra**

Annexure – 4

Ambient Air Quality during FY 2023-24

Ambient Air Quality Monitoring												
Location	1 Main Gate											
Month	PM ₁₀	PM _{2.5}	NO _x	SO ₂	O ₃	NH ₃	CO	C ₆ H ₆	BaP	Pb	As	Ni
Standard	100	60	80	80	180	100	4	5	1	1	6	20
UOM	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³					
Apr-23	70.09	25.88	15.94	10.63	2.42	4.53	BDL	BDL	BDL	BDL	BDL	BDL
May-23	65.41	28.78	15.81	10.63	2.43	4.51	BDL	BDL	BDL	BDL	BDL	BDL
Jun-23	65.97	30.59	15.78	10.57	2.65	4.81	BDL	BDL	BDL	BDL	BDL	BDL
Jul-23	46.39	20.63	15.65	10.04	2.45	4.63	BDL	BDL	BDL	BDL	BDL	BDL
Aug-23	50.23	21.63	15.40	10.69	2.69	4.90	BDL	BDL	BDL	BDL	BDL	BDL
Sep-23	47.61	20.09	14.66	10.37	2.55	4.61	BDL	BDL	BDL	BDL	BDL	BDL
Oct-23	59.59	25.59	15.39	10.91	2.61	4.62	BDL	BDL	BDL	BDL	BDL	BDL
Nov-23	73.66	35.92	16.62	10.27	2.55	4.45	BDL	BDL	BDL	BDL	BDL	BDL
Dec-23	73.05	35.72	16.41	10.45	2.56	4.51	BDL	BDL	BDL	BDL	BDL	BDL
Jan-24	76.40	34.35	16.46	10.78	2.45	4.43	BDL	BDL	BDL	BDL	BDL	BDL
Feb-24	77.24	34.50	16.66	10.68	2.43	4.29	BDL	BDL	BDL	BDL	BDL	BDL
Mar-24	67.65	33.03	16.36	10.21	2.47	4.41	BDL	BDL	BDL	BDL	BDL	BDL

Ambient Air Quality Monitoring												
Location	2 Field Hostel											
Month	PM ₁₀	PM _{2.5}	NO _x	SO ₂	O ₃	NH ₃	CO	C ₆ H ₆	BaP	Pb	As	Ni
Standard	100	60	80	80	180	100	4	5	1	1	6	20
UOM	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³					
Apr-23	63.73	23.48	15.80	9.94	2.49	4.49	BDL	BDL	BDL	BDL	BDL	BDL
May-23	50.52	22.21	15.81	10.26	2.46	4.41	BDL	BDL	BDL	BDL	BDL	BDL
Jun-23	57.69	28.35	16.87	10.94	2.69	4.75	BDL	BDL	BDL	BDL	BDL	BDL
Jul-23	41.65	18.25	16.42	10.41	2.55	4.31	BDL	BDL	BDL	BDL	BDL	BDL
Aug-23	52.31	22.63	16.47	10.68	2.81	4.90	BDL	BDL	BDL	BDL	BDL	BDL
Sep-23	49.97	21.72	14.89	10.99	2.56	4.62	BDL	BDL	BDL	BDL	BDL	BDL
Oct-23	55.89	24.76	15.97	11.13	2.76	4.81	BDL	BDL	BDL	BDL	BDL	BDL
Nov-23	69.79	39.52	15.86	10.47	2.43	4.68	BDL	BDL	BDL	BDL	BDL	BDL
Dec-23	71.08	40.24	15.24	10.86	2.52	4.76	BDL	BDL	BDL	BDL	BDL	BDL
Jan-24	73.93	39.71	15.47	10.01	2.54	4.61	BDL	BDL	BDL	BDL	BDL	BDL
Feb-24	76.04	38.99	15.69	10.20	2.52	4.42	BDL	BDL	BDL	BDL	BDL	BDL

**Environmental Statement Report for 2023-24 for The Tata Power
Company Limited, Mundra**

Mar-24	56.59	32.87	15.51	9.67	2.55	4.54	BDL	BDL	BDL	BDL	BDL	BDL
Location	3	Labour Colony										
Month	PM₁₀	PM_{2.5}	NO_x	SO₂	O₃	NH₃	CO	C₆H₆	BaP	Pb	As	Ni
Standard	100	60	80	80	180	100	4	5	1	1	6	20
UOM	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³	ng/m³	µg/m³	ng/m³	ng/m³
Apr-23	56.83	20.60	15.69	10.51	2.34	4.61	BDL	BDL	BDL	BDL	BDL	BDL
May-23	49.66	22.39	15.81	10.89	2.33	4.63	BDL	BDL	BDL	BDL	BDL	BDL
Jun-23	49.62	22.32	16.21	10.48	2.50	4.91	BDL	BDL	BDL	BDL	BDL	BDL
Jul-23	43.03	18.72	16.01	10.27	2.45	4.57	BDL	BDL	BDL	BDL	BDL	BDL
Aug-23	43.26	18.86	16.17	10.26	2.43	4.59	BDL	BDL	BDL	BDL	BDL	BDL
Sep-23	48.03	20.47	15.31	10.26	2.37	4.58	BDL	BDL	BDL	BDL	BDL	BDL
Oct-23	51.65	22.00	16.16	10.33	2.56	4.76	BDL	BDL	BDL	BDL	BDL	BDL
Nov-23	71.33	35.92	16.15	10.27	2.55	4.45	BDL	BDL	BDL	BDL	BDL	BDL
Dec-23	72.28	36.25	16.55	10.55	2.59	4.49	BDL	BDL	BDL	BDL	BDL	BDL
Jan-24	73.94	35.72	15.72	9.81	2.59	4.48	BDL	BDL	BDL	BDL	BDL	BDL
Feb-24	76.21	35.84	15.46	9.51	2.48	4.31	BDL	BDL	BDL	BDL	BDL	BDL
Mar-24	52.23	29.46	14.84	9.54	2.59	4.46	BDL	BDL	BDL	BDL	BDL	BDL

Location	4	Motakandagra										
Month	PM₁₀	PM_{2.5}	NO_x	SO₂	O₃	NH₃	CO	C₆H₆	BaP	Pb	As	Ni
Standard	100	60	80	80	180	100	4	5	1	1	6	20
UOM	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³	ng/m³	µg/m³	ng/m³	ng/m³
Apr-23	56.21	26.64	15.04	10.97	2.36	4.22	BDL	BDL	BDL	BDL	BDL	BDL
May-23	59.87	27.34	15.96	11.34	2.56	4.24	BDL	BDL	BDL	BDL	BDL	BDL
Jun-23	58.54	28.13	14.91	10.52	2.48	4.43	BDL	BDL	BDL	BDL	BDL	BDL
Jul-23	44.13	19.79	14.36	9.93	2.51	4.41	BDL	BDL	BDL	BDL	BDL	BDL
Aug-23	51.22	20.52	15.67	10.81	2.48	4.54	BDL	BDL	BDL	BDL	BDL	BDL
Sep-23	54.71	21.41	15.96	10.70	2.49	4.28	BDL	BDL	BDL	BDL	BDL	BDL
Oct-23	59.02	25.14	16.56	10.34	2.68	4.54	BDL	BDL	BDL	BDL	BDL	BDL
Nov-23	72.24	37.66	13.76	7.16	2.48	4.56	BDL	BDL	BDL	BDL	BDL	BDL
Dec-23	76.36	38.21	13.80	7.72	2.53	4.69	BDL	BDL	BDL	BDL	BDL	BDL
Jan-24	75.64	34.71	15.04	7.78	2.62	4.68	BDL	BDL	BDL	BDL	BDL	BDL
Feb-24	75.57	35.68	15.43	7.69	2.61	4.49	BDL	BDL	BDL	BDL	BDL	BDL
Mar-24	60.81	32.63	15.54	7.48	2.51	4.59	BDL	BDL	BDL	BDL	BDL	BDL

**Environmental Statement Report for 2023-24 for The Tata Power
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Location	5 Moti khakkar											
Month	PM ₁₀	PM _{2.5}	NO _x	SO ₂	O ₃	NH ₃	CO	C ₆ H ₆	BaP	Pb	As	Ni
Standard	100	60	80	80	180	100	4	5	1	1	6	20
UOM	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³					
Apr-23	61.29	29.63	15.56	11.30	2.33	4.26	BDL	BDL	BDL	BDL	BDL	BDL
May-23	59.98	26.31	16.06	11.41	2.56	4.68	BDL	BDL	BDL	BDL	BDL	BDL
Jun-23	52.28	20.80	15.94	10.66	2.58	4.60	BDL	BDL	BDL	BDL	BDL	BDL
Jul-23	52.08	22.73	14.65	9.50	2.51	4.64	BDL	BDL	BDL	BDL	BDL	BDL
Aug-23	49.24	21.48	16.14	10.90	2.63	4.72	BDL	BDL	BDL	BDL	BDL	BDL
Sep-23	51.07	20.83	15.54	10.84	2.50	4.32	BDL	BDL	BDL	BDL	BDL	BDL
Oct-23	63.94	27.10	15.90	10.84	2.81	4.70	BDL	BDL	BDL	BDL	BDL	BDL
Nov-23	73.26	42.38	16.14	10.96	2.46	4.58	BDL	BDL	BDL	BDL	BDL	BDL
Dec-23	75.07	40.20	15.63	11.57	2.54	4.53	BDL	BDL	BDL	BDL	BDL	BDL
Jan-24	74.59	40.27	16.12	10.48	2.47	4.60	BDL	BDL	BDL	BDL	BDL	BDL
Feb-24	76.08	35.76	15.30	7.50	2.56	4.53	BDL	BDL	BDL	BDL	BDL	BDL
Mar-24	68.58	34.44	14.68	7.20	2.51	4.59	BDL	BDL	BDL	BDL	BDL	BDL

Location	6 Nanabhadia											
Month	PM ₁₀	PM _{2.5}	NO _x	SO ₂	O ₃	NH ₃	CO	C ₆ H ₆	BaP	Pb	As	Ni
Standard	100	60	80	80	180	100	4	5	1	1	6	20
UOM	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³					
Apr-23	49.40	24.17	16.09	10.48	2.40	4.38	BDL	BDL	BDL	BDL	BDL	BDL
May-23	48.77	22.82	16.02	10.58	2.34	4.60	BDL	BDL	BDL	BDL	BDL	BDL
Jun-23	63.98	27.83	14.04	10.02	2.24	4.47	BDL	BDL	BDL	BDL	BDL	BDL
Jul-23	50.44	22.34	13.78	9.84	2.21	4.41	BDL	BDL	BDL	BDL	BDL	BDL
Aug-23	55.74	23.22	16.31	9.99	2.47	4.69	BDL	BDL	BDL	BDL	BDL	BDL
Sep-23	56.43	23.01	15.39	10.49	2.44	4.62	BDL	BDL	BDL	BDL	BDL	BDL
Oct-23	58.62	25.20	15.82	10.24	2.48	4.56	BDL	BDL	BDL	BDL	BDL	BDL
Nov-23	73.10	36.66	15.96	11.90	2.42	4.52	BDL	BDL	BDL	BDL	BDL	BDL
Dec-23	75.64	35.87	16.46	11.72	2.46	4.74	BDL	BDL	BDL	BDL	BDL	BDL
Jan-24	73.51	34.73	15.40	11.78	2.50	4.59	BDL	BDL	BDL	BDL	BDL	BDL
Feb-24	72.50	34.83	15.57	11.49	2.49	4.40	BDL	BDL	BDL	BDL	BDL	BDL
Mar-24	53.81	25.61	13.61	9.97	2.48	4.38	BDL	BDL	BDL	BDL	BDL	BDL

**Environmental Statement Report for 2023-24 for The Tata Power
Company Limited, Mundra**

Location	7 Siracha											
Month	PM ₁₀	PM _{2.5}	NO _x	SO ₂	O ₃	NH ₃	CO	C ₆ H ₆	BaP	Pb	As	Ni
Standard	100	60	80	80	180	100	4	5	1	1	6	20
UOM	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³					
Apr-23	69.97	32.86	14.34	8.96	2.16	4.12	BDL	BDL	BDL	BDL	BDL	BDL
May-23	69.54	34.80	16.97	10.63	2.54	4.83	BDL	BDL	BDL	BDL	BDL	BDL
Jun-23	46.29	24.17	14.47	10.63	2.30	4.66	BDL	BDL	BDL	BDL	BDL	BDL
Jul-23	48.25	21.33	14.78	9.85	2.35	4.35	BDL	BDL	BDL	BDL	BDL	BDL
Aug-23	56.74	23.14	15.27	10.34	2.53	4.76	BDL	BDL	BDL	BDL	BDL	BDL
Sep-23	58.04	23.80	14.97	10.40	2.53	4.57	BDL	BDL	BDL	BDL	BDL	BDL
Oct-23	61.40	26.97	15.59	10.70	2.62	4.38	BDL	BDL	BDL	BDL	BDL	BDL
Nov-23	72.32	28.66	17.40	8.16	2.66	4.56	BDL	BDL	BDL	BDL	BDL	BDL
Dec-23	72.30	28.93	17.00	8.18	2.59	4.58	BDL	BDL	BDL	BDL	BDL	BDL
Jan-24	74.73	28.46	17.09	7.84	2.61	4.70	BDL	BDL	BDL	BDL	BDL	BDL
Feb-24	74.91	28.69	17.19	7.62	2.53	4.53	BDL	BDL	BDL	BDL	BDL	BDL
Mar-24	74.04	28.39	17.00	7.60	2.64	4.64	BDL	BDL	BDL	BDL	BDL	BDL

Location	8 Tragadi Village											
Month	PM ₁₀	PM _{2.5}	NO _x	SO ₂	O ₃	NH ₃	CO	C ₆ H ₆	BaP	Pb	As	Ni
Standard	100	60	80	80	180	100	4	5	1	1	6	20
UOM	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³					
Apr-23	45.23	23.50	16.11	10.13	2.33	4.40	BDL	BDL	BDL	BDL	BDL	BDL
May-23	48.77	22.82	16.53	10.76	2.41	4.53	BDL	BDL	BDL	BDL	BDL	BDL
Jun-23	53.61	26.04	15.89	10.53	2.43	4.47	BDL	BDL	BDL	BDL	BDL	BDL
Jul-23	45.61	19.89	15.65	9.85	2.41	4.38	BDL	BDL	BDL	BDL	BDL	BDL
Aug-23	46.74	19.51	15.52	11.06	2.44	4.64	BDL	BDL	BDL	BDL	BDL	BDL
Sep-23	48.08	20.67	15.50	10.94	2.48	4.52	BDL	BDL	BDL	BDL	BDL	BDL
Oct-23	59.69	25.36	16.74	11.08	2.64	4.42	BDL	BDL	BDL	BDL	BDL	BDL
Nov-23	72.32	28.66	17.40	8.16	2.66	4.56	BDL	BDL	BDL	BDL	BDL	BDL
Dec-23	72.30	28.93	17.00	8.18	2.59	4.58	BDL	BDL	BDL	BDL	BDL	BDL
Jan-24	74.73	28.46	17.09	7.84	2.61	4.70	BDL	BDL	BDL	BDL	BDL	BDL
Feb-24	74.91	28.69	17.19	7.62	2.53	4.53	BDL	BDL	BDL	BDL	BDL	BDL
Mar-24	74.04	28.39	17.00	7.60	2.64	4.64	BDL	BDL	BDL	BDL	BDL	BDL

**Environmental Statement Report for 2023-24 for The Tata Power
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Location	9											
Month	PM ₁₀	PM _{2.5}	NO _x	SO ₂	O ₃	NH ₃	CO	C ₆ H ₆	BaP	Pb	As	Ni
Standard	100	60	80	80	180	100	4	5	1	1	6	20
UOM	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³					
Apr-23	58.22	28.43	15.93	9.78	2.40	4.12	BDL	BDL	BDL	BDL	BDL	BDL
May-23	62.94	29.19	16.53	10.16	2.47	4.26	BDL	BDL	BDL	BDL	BDL	BDL
Jun-23	53.91	27.38	14.84	10.10	2.36	4.00	BDL	BDL	BDL	BDL	BDL	BDL
Jul-23	45.79	20.41	15.56	10.54	2.39	4.25	BDL	BDL	BDL	BDL	BDL	BDL
Aug-23	17.39	15.20	10.69	2.48	4.52	4.64	BDL	BDL	BDL	BDL	BDL	BDL
Sep-23	40.54	17.04	15.57	10.14	2.53	4.54	BDL	BDL	BDL	BDL	BDL	BDL
Oct-23	63.44	27.28	16.10	10.53	2.59	4.30	BDL	BDL	BDL	BDL	BDL	BDL
Nov-23	74.64	28.66	16.70	8.16	2.46	4.76	BDL	BDL	BDL	BDL	BDL	BDL
Dec-23	75.06	29.71	15.70	7.92	2.49	4.81	BDL	BDL	BDL	BDL	BDL	BDL
Jan-24	76.01	30.46	16.91	7.91	2.48	4.76	BDL	BDL	BDL	BDL	BDL	BDL
Feb-24	74.59	29.66	16.78	7.51	2.56	4.69	BDL	BDL	BDL	BDL	BDL	BDL
Mar-24	65.78	30.69	16.36	7.35	2.50	4.70	BDL	BDL	BDL	BDL	BDL	BDL

Location	10											
Month	PM ₁₀	PM _{2.5}	NO _x	SO ₂	O ₃	NH ₃	CO	C ₆ H ₆	BaP	Pb	As	Ni
Standard	100	60	80	80	180	100	4	5	1	1	6	20
UOM	µg/m ³	mg/m ³	µg/m ³	ng/m ³	µg/m ³	ng/m ³	ng/m ³					
Apr-23	62.39	34.61	15.70	10.42	2.29	4.33	BDL	BDL	BDL	BDL	BDL	BDL
May-23	67.64	30.20	16.10	10.72	2.39	4.37	BDL	BDL	BDL	BDL	BDL	BDL
Jun-23	45.60	24.59	15.87	10.42	2.32	4.49	BDL	BDL	BDL	BDL	BDL	BDL
Jul-23	48.85	21.90	16.18	9.55	2.38	4.49	BDL	BDL	BDL	BDL	BDL	BDL
Aug-23	51.11	20.21	15.27	10.10	2.49	4.63	BDL	BDL	BDL	BDL	BDL	BDL
Sep-23	51.59	19.91	14.94	10.59	2.54	4.46	BDL	BDL	BDL	BDL	BDL	BDL
Oct-23	73.38	31.69	16.01	10.36	2.60	4.73	BDL	BDL	BDL	BDL	BDL	BDL
Nov-23	74.92	29.38	17.16	9.06	2.52	4.40	BDL	BDL	BDL	BDL	BDL	BDL
Dec-23	75.17	30.58	17.01	9.23	2.54	4.54	BDL	BDL	BDL	BDL	BDL	BDL
Jan-24	76.29	28.56	17.03	8.74	2.60	4.67	BDL	BDL	BDL	BDL	BDL	BDL
Feb-24	74.70	28.58	16.71	8.69	2.53	4.48	BDL	BDL	BDL	BDL	BDL	BDL
Mar-24	67.31	28.91	16.40	9.08	2.66	4.49	BDL	BDL	BDL	BDL	BDL	BDL

Note -

Parameters	BDL limit	UOM
Carbon monoxide (CO)	<0.1	µg/m ³
Benzene	<0.1	µg/m ³
BenzoPyrene(BaP)	<1	µg/m ³
Lead (Pb)	<1	µg/m ³
Arsenic (As)	<5	ng/l
Nickel (Ni)	<1	ng/l

**Environmental Statement Report for 2023-24 for The Tata Power
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Annexure – 5

Effluent Quality during FY 2023-24

Effluent Quality Monitoring (ETP)					
Standard Limit	Parameters				
	pH	TSS	Total Cu	Total Fe	Oil & Grease
	6.5-8.5	100	1	1	10
UOM		mg/l	mg/l	mg/l	mg/l
Apr-23	8	25	BDL	BDL	0.62
May-23	8.1	24	BDL	BDL	0.66
Jun-23	7.8	24	BDL	BDL	0.66
Jul-23	7.9	23	BDL	BDL	0.69
Aug-23	7.8	23	BDL	BDL	0.69
Sep-23	7.8	21	BDL	BDL	0.7
Oct-23	7.7	22	BDL	BDL	0.73
Nov-23	7.5	27	BDL	BDL	0.67
Dec-23	7.6	30	BDL	BDL	0.68
Jan-24	7.7	29	BDL	BDL	0.65
Feb-24	7.8	30	BDL	BDL	0.6
Mar-24	7.3	29	BDL	BDL	0.59

Sewage Quality Monitoring (STP)				
Standard Limit	Parameters			
	pH	BOD	TSS	Fecal coliform
	6.5-9.0	30	100	<1000
UOM		mg/l	mg/l	VPN/100ml
Apr-23	8	11	24	27
May-23	8	11	23	240
Jun-23	8	10	22	140
Jul-23	8	10	22	33
Aug-23	8	11	26	540
Sep-23	7.8	12	22	34
Oct-23	8.1	11	21	39
Nov-23	7.3	9	10	Absent
Dec-23	7.3	9.3	13	Absent
Jan-24	7.4	8.4	15	Absent
Feb-24	7.8	8.4	18	Absent
Mar-24	7.4	8.7	15	Absent

Note-

BDL limit of Cu - 0.03 mg/l

BDL limit of Fe - 0.05 mg/l

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Annexure – 6

Condensate Cooling Water Quality during FY 2023-24

Condensate Cooling Water Quality			
Month	pH Outfall	Delta Temp.	Free Available Chlorine
UOM		°C	mg/L
Standard	6.5-8.5	7	0.5
Apr-23	8.18	0.70	BDL
May-23	8.19	4.80	BDL
Jun-23	8.18	2.98	BDL
Jul-23	8.14	4.23	BDL
Aug-23	8.23	3.64	BDL
Sep-23	8.23	3.41	BDL
Oct-23	8.25	4.33	BDL
Nov-23	8.16	4.44	BDL
Dec-23	8.19	4.25	BDL
Jan-24	8.25	4.29	BDL
Feb-24	8.23	4.41	BDL
Mar-24	8.26	3.77	BDL

Note - BDL limit of Free Available Chlorine - 0.1 mg/l

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Annexure – 7

Noise Level during FY 2023-24

Noise Monitoring dB(A)						
Month		Standard Limit	Location			
			Main Gate	Intake Channel	labour Hostel	Near STP
Apr-23	Day	75	52.30	61.20	52.30	61.30
	Night	70	50.20	58.30	49.30	60.30
May-23	Day	75	52.30	61.20	52.30	61.30
	Night	70	50.20	58.30	49.30	60.30
Jun-23	Day	75	53.20	62.40	52.60	62.40
	Night	70	51.40	59.20	48.10	61.20
Jul-23	Day	75	52.10	61.00	52.20	61.20
	Night	70	50.10	58.10	48.20	60.10
Aug-23	Day	75	52.30	61.50	53.10	62.40
	Night	70	51.20	58.60	49.10	61.20
Sep-23	Day	75	53.40	62.40	52.40	63.40
	Night	70	51.70	59.70	48.20	62.80
Oct-23	Day	75	51.30	62.40	56.20	60.40
	Night	70	50.70	59.20	48.00	60.20
Nov-23	Day	75	56.80	64.20	55.20	69.50
	Night	70	54.20	58.60	48.70	61.20
Dec-23	Day	75	55.80	65.20	56.20	68.50
	Night	70	53.20	59.60	47.70	62.20
Jan-24	Day	75	55.40	64.10	54.80	64.20
	Night	70	51.90	61.00	51.30	62.30
Feb-24	Day	75	57.30	65.40	53.50	65.20
	Night	70	50.20	60.00	52.30	63.30
Mar-24	Day	75	56.50	66.30	55.50	53.20
	Night	70	49.20	58.00	50.30	40.20

Environmental Statement Report for 2023-24 for The Tata Power Company Limited, Mundra

Photographs

ETP Treated Water Storage Pond utilized for Green belt development



Roof Top Rain Water Harvesting System

