



TSM-CPP/SEIAA/TS-01/2024-05/168
November 25, 2024

The Member Secretary

State Level Environmental Impact Assessment Authority,
5RF-2/1, Unit-IX
Bhubaneswar-751022

Subject: Submission of half yearly EC compliance reports for setting up of 2x150 MW coal based TPP at M/s. Tata Steel Limited – TSM-CPP (formerly known as Angul Energy Limited), Odisha for the period from April' 24 to September' 24.

Reference: EC vide letter No. SEIAA/35; dated: 12.12.2009.

Dear Sir,

With reference to the captioned subject and cited reference, we are herewith submitting six monthly compliance reports for the conditions stipulated in the Environmental Clearance for setting up of 2x150 MW coal based thermal power plant at M/s. Tata Steel Limited – TSM-CPP (formerly known as Angul Energy Limited), Odisha for the period from April 2024 to September 2024 along with monitoring reports for your kind perusal.

The soft copies of the aforesaid compliance report are also being sent through mail to roez.bsr-mef@nic.in & seiaaodisha@gmail.com for your kind information and necessary record please. Also copy of EC compliance is being uploaded on MoEF&CC web site on portal <http://environmentalclearance.nic.in>.

Hope, the above are in line with the statutory requirements.

Thanking you

Yours faithfully,

For TSM-CPP

**Rajesh Kumar Agarwal,
(Factory Manager, TSM-CPP)**

Encl: As above

Copy to:

1. The Deputy Director General of Forests (C), MoEF&CC, Integrated Regional Office, Chandrasekharpur, Bhubaneswar – 751023.
2. The Zonal Officer, Central Pollution Control Board, Southern Conclave Block, 502, 5th & 6th Floors, 1582 Rajdanga Main Road, Kolkata – 700107.
3. The Member Secretary, SPCB, Parivesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Odisha, Bhubaneswar-751012
4. The Regional Officer, State Pollution Control Board, Angul, Odisha.

TATA STEEL LIMITED

LIST OF ENCLOSURES

Sl. No.	Enclosure	Details
1.	Annexure - I	Ash Leachability Report
2.	Annexure - II	Water Quality Analysis Report
3.	Annexure - III	Noise Monitoring Report
4.	Annexure – IV	Ambient Air Report



Visiontek Consultancy Services Pvt. Ltd.

(Committed For Better Environment)

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S), ISO/IEC 17025:2017 Certified

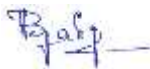

Ref. no: Envlab/24-25/TR-12306

Date: 18.11.2024

ASH ANALYSIS REPORT

- Name of the Indus : M/s TATA Steel Limited Meramandali, Dhenkanal
- Sampling Location : S-1: Fly Ash collected from BFPP-1
: S-2: Bed Ash collected from BFPP-1
: S-3: Fly ash collected from AEL-165
: S-4: Bed ash collected from ASL-165
- Date of Sampling : 11.11.2024
- Date of Analysis : 12.11.2024 to 18.11.2024
- Sample Collected by : VCSPL Representative

Sl. No.	Name of the Parameters	Unit	Govt. of India, MoEF & CC Schedule-II based on leachable concentration limits (TCLP) or Soluble Threshold limit Concentration (STLC), Class A2016	Analysis Results			
				S-1	S-2	S-3	S-4
01	Arsenic as As	mg/l	5.0 mg/l	0.004	0.002	0.003	0.002
02	Barium as Ba	mg/l	100.0 mg/l	BDL	BDL	BDL	BDL
03	Cadmium as cd	mg/l	1.0 mg/l	BDL	BDL	BDL	BDL
04	Chromium as Cr	mg/l	5.0 mg/l	BDL	BDL	BDL	BDL
05	Lead as Pb	mg/l	5.0 mg/l	BDL	BDL	BDL	BDL
06	Mercury as Hg	mg/l	0.2 mg/l	BDL	BDL	BDL	BDL
07	Selenium as Se	mg/l	1.0 mg/l	0.003	0.003	0.003	0.003
08	Iron as Fe	mg/l	--	0.81	0.41	0.69	0.36
09	Nickel as Ni	mg/l	20.0 mg/l	0.22	0.16	0.24	0.17
10	Zinc as Zn	mg/l	250.0 mg/l	0.48	0.35	0.49	0.33
11	Manganese as Mn	mg/l	10.0 mg/l	0.41	0.28	0.50	0.32
12	Cobalt as Co	mg/l	80.0 mg/l	BDL	BDL	BDL	BDL
13	Copper as Cu	mg/l	25.0 mg/l	0.37	0.28	0.39	0.26
14	Vanadium as V	mg/l	24.0 mg/l	BDL	BDL	BDL	BDL
15	Aluminium as Al	mg/l	--	4.7	4.3	5.3	4.8
16	Fluoride as F	mg/l	180.0 mg/l	1.79	1.31	1.89	1.36

Reviewed By: 


Approved By: 


S. N	Parameter	Unit	Kishinda Nala		Lingra Nala		Brahamani River	
			U/S	D/S	U/S	D/S	U/S	D/S
14	Fluoride as F-	mg/l	0.22-2.65	0.21-1.8	0.26-0.38	0.19-1.54	0.25-0.41	0.20-0.52
15	Hexa Chromium as Cr +6	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
16	Iron as Fe	mg/l	0.96-4.9	0.17-4.9	0.18-2.0	0.59-1.04	0.17-2.1	2.1-2.24
17	Lead (as Pb)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
18	Manganese (as Mn)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
19	Mercury (as Hg)	mg/l	BDL(DL:0.000 2)	BDL(DL:0.0002)	BDL(DL:0.000 2)	BDL(DL:0.000 2)	BDL(DL:0.000 2)	BDL(DL:0.000 2)
20	Nickel (as Ni)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
21	O&G	mg/l	BDL(DL:1.4)	BDL(DL:1.4)	BDL(DL:1.4)	BDL(DL:1.4)	BDL(DL:1.4)	BDL(DL:1.4)
22	Phenolic Comp	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)
23	Phosphate as P	mg/l	0.11-0.85	0.07-0.84	0.1-0.29	0.1-0.4	0.08-0.35	0.12-0.59
24	RFC	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
25	Selenium (as Se)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
26	TKN	mg/l	BDL(DL:0.3)	BDL(DL:0.3)	BDL(DL:0.3)	BDL(DL:0.3)	BDL(DL:0.3)	BDL(DL:0.3)
27	Zinc (as Zn)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)

Note: BDL: Below Detectable Limit; DL: Detectable Limit, U/S: Upstream D/S: Downstream

Source: Monitoring/ Analysis report of S.K. Mitra Private Limited and Environment Laboratory of TSM.

Summary of Treated Domestic Effluent Analysis

(Period: From April 2024 to September 2024)

S.N.	Location	Parameters in Range		
		pH	Suspended Solid in mg/l	BOD (3 days at 27°C) in mg/l
1.	Colony STP	7.4-7.85	23-36	9.0-10.7
2.	AEL STP	7.04-7.81	18-28	8.7-11.3
3.	BF-1 STP	6.91-7.85	18-32	7.8-9.8

Summary of Effluent Treatment Plant Analysis

(Period: From April 2024 to September 2024)

S.N	Location	Parameters in Range					
		pH	Suspended Solid in mg/l	Chemical Oxygen Demand in mg/l	BOD (3days at 27°C) in mg/l	Oil & Grease	Iron as Fe
1.	ETP-1 (Outlet)	7.18-8.15	13-26	19-45	3.5-7.0	<4.0	0.27-0.72
2.	ETP-2 (Outlet)	6.53-7.88	18-24	18-30	3.3-5.2	<4.0	0.1-0.6
3.	ETP-3 (Outlet)	6.76-8.02	25-41	29-37	3.7-5.2	<4.0	0.29-0.89
4.	CRM (ETP Outlet)	7.16-8.13	18-58	100-160	14.6-24.9	<4.0	0.79-2.8
5.	BF-1 (Thickener Outlet)	6.63-7.86	35-86	33-48	4.5-9.5	<4.0	-
6.	BF-2 (Thickener Outlet)	6.69-7.58	42-76	36-47	4.4-9.5	<4.0	-
7.	BOF (Thickener Outlet)	>10.0	63-78	36-51	4.5-8.0	<4.0	-

S.N.	Location	Parameters in Range						
		pH	Suspended Solid in mg/l	Chemical Oxygen Demand in mg/l	BOD (3days at 27°C) in mg/l	Oil & Grease	TCN	Phenol
8.	Coke Oven-1 (BOD-1 Outlet)	6.8-7.64	28-80	120-210	16.5-28.5	<4.0	0.12-0.18	0.76-0.87
9.	Coke Oven-2 (BOD-2 Outlet)	6.77-7.23	22-41	130-180	20.1-26.8	<4.0	0.11-0.14	0.71-0.81

Summary of ground water level monitoring report inside plant premises

(Period: From April 2024 to September 2024)

S.N.	Location with description	Sample Code	Depth of Monitoring Bore Well	Longitude	Latitude	Ground Water Level (m)
1	Colony near STP	GW-1	165ft	20°49.045'	85°15.734'	4.1
2	RMHS Near Wagon Tippler	GW-2	300ft	20°47.752'	85°15.993'	2.12
3	Near Blast Furnace-2	GW-3	162ft	20°47.25'	85°15.613'	5.20
4	Near Railway bridge	GW-4	156ft	20°48.920'	85°15.858'	2.50

Ground Water Quality Analysis

S.N.	Parameter	Unit	GW-2	GW-3	GW-4	GW-6	Standard as per IS-10500-2012
1	p H	-	7.55	7.21	7.80	7.76	6.5-8.5
2	Colour	Hazen	Colourless	Colourless	Colourless	Colourless	15
3	Odour	-	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	-
4	T. Hardness (as CaCO ₃)	mg/l	278	310	244	282	300
5	Calcium as Ca	mg/l	67.33	74.54	58.52	68.14	75
6	Magnesium as Mg	mg/l	26.84	30.26	23.91	27.33	30
7	Iron as Fe	mg/l	0.13	0.20	0.16	0.15	0.3
8	Chloride as Cl	mg/l	94.3	114.15	71.96	81.89	250
9	Fluoride as F-	mg/l	0.64	0.49	0.68	0.72	1
10	Dissolved solids	mg/l	344	390	298	366	500
11	Nitrate as NO ₃	mg/l	4.8	6.2	4.2	7.8	45
12	Chromium as Cr+6	mg/l	0.016	0.02	0.024	0.012	0.05
13	Alkalinity as CaCO ₃	mg/l	78	108	66	86	200

Summary of ground water level monitoring report inside plant premises

**Ground Water Level
Period: May 2024**

S.NO	Location	Sample Code	Longitude	Latitude	Water Level from GL (m) BGL
					March'24
1	Kharagprasad	GW-01	20° 49.299'	85° 18.923'	4.0
2	Charadagadia	GW-02	20° 47.768'	85° 17.083'	7.1
3	Sibpur	GW-03	20° 46.941'	85° 14.394'	6.2
4	Kochilamada	GW-04	20° 47.541'	85° 16.802'	5.2
5	Galapada	GW-05	20° 48.142'	85° 18.600'	4.1
6	Motonga	GW-06	20° 48.143'	85° 18.599'	3.8
7	Asanabania	GW-07	20° 47.534'	85° 16.802'	4.6
8	Narendrapur	GW-08	20° 49.483'	85° 15.530'	8.9
9	Khaliberena	GW-09	20° 46.946'	85° 14.396'	4.3
10	Ganthigadia	GW-10	20° 48.501'	85° 15.118'	2.1

S.N.	Parameters	unit	GW-01	GW-02	GW-03	GW-04	GW-05	GW-06	GW-07	GW-08	GW-9	GW-10
20	Selenium as Se	mg/l	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)
21	Sulphate as SO4	mg/l	48.2	30.6	22.4	12.85	60.2	15.24	25.8	24.4	38.6	30.2
22	Total Alkalinity as CaCO3	mg/l	411.6	186.2	490	186.2	431.2	176.4	176.4	176.4	490	196
23	Total Hardness as CaCO3	mg/l	646.4	262.6	444.4	272.7	707	252.5	282.8	262.6	404	282.8
24	Zinc as Zn	mg/l	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	0.35	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)
25	Cadmium as Cd	mg/l	BDL (DL:0.001)	BDL (DL:0.001)	BDL (DL:0.001)	BDL (DL:0.001)	BDL (DL:0.001)	BDL (DL:0.001)	BDL (DL:0.001)	BDL (DL:0.001)	BDL (DL:0.001)	BDL (DL:0.001)
26	Cyanide as CN	mg/l	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)
27	Lead as Pb	mg/l	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)
28	Mercury as Hg	mg/l	BDL (DL:0.0002)	BDL (DL:0.0002)	BDL (DL:0.0002)	BDL (DL:0.0002)	BDL (DL:0.0002)	BDL (DL:0.0002)	BDL (DL:0.0002)	BDL (DL:0.0002)	BDL (DL:0.0002)	BDL (DL:0.0002)
29	Nickel (as Ni)	mg/l	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)
30	Total Arsenic (as As)	mg/l	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.05)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)
31	E. coli	/100ml	Not Detected	Not Detected	Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Detected	Detected

August 2024

S.N.	Parameters	unit	GW-01	GW-02	GW-03	GW-04	GW-05	GW-06	GW-07	GW-08	GW-09	GW-10
1	pH	-	7.98	7.85	8.12	8.06	7.85	8.23	7.9	7.9	7.9	7.93
2	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	Colour	mg/l	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)
4	Turbidity	N.T. U	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
5	Total Dissolved Solids (as TDS)	mg/l	528	814	1865	932	924	544	580	942	652	1012
6	Aluminium as Al	mg/l	0.28	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)
7	Anionic Surface-Active Agents as (MBAS)	mg/l	BDL (DL:0.05)	BDL (DL:0.05)	BDL (DL:0.05)	BDL (DL:0.05)	BDL (DL:0.05)	BDL (DL:0.05)	BDL (DL:0.05)	BDL (DL:0.05)	BDL (DL:0.05)	BDL (DL:0.05)
8	Boron as B	mg/l	BDL (DL:0.25)	BDL (DL:0.25)	BDL (DL:0.25)	BDL (DL:0.25)	BDL (DL:0.25)	BDL (DL:0.25)	BDL (DL:0.25)	BDL (DL:0.25)	BDL (DL:0.25)	BDL (DL:0.25)
9	Calcium as Ca	mg/l	51	51	29	58	47	54	54	54	22.4	86
10	Chloride as Cl	mg/l	67	116	297	68	116	59	12	118	14	164
11	Copper as Cu	mg/l	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)
12	Fluoride as F	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
13	Residual Free Chlorine	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
14	Iron as Fe	mg/l	BDL (DL:0.05)	BDL (DL:0.05)	BDL (DL:0.05)	BDL (DL:0.05)	BDL (DL:0.05)	BDL (DL:0.05)	BDL (DL:0.05)	BDL (DL:0.05)	BDL (DL:0.05)	BDL (DL:0.05)
15	Magnesium as Mg	mg/l	40.9	39.5	25.3	41.5	27.5	34.8	17	37.2	37.4	69.4
16	Manganese as Mn	mg/l	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)
17	Mineral Oil	mg/l	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)
18	Nitrate as NO3	mg/l	31.4	BDL(DL:0.2)	BDL(DL:0.2)	32.6	BDL(DL:0.2)	11.6	8.6	8.9	25.6	12.4
19	Phenolic Compounds as C6H5OH	mg/l	BDL (DL:0.001)	BDL (DL:0.001)	BDL (DL:0.001)	BDL (DL:0.001)	BDL (DL:0.001)	BDL (DL:0.001)	BDL(DL:0.001)	BDL (DL:0.001)	BDL (DL:0.001)	BDL (DL:0.001)
20	Selenium as Se	mg/l	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL(DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)
21	Sulphate as SO4	mg/l	87	65	142	54	59	27	46	97	52	88

S.N.	Parameters	unit	GW-01	GW-02	GW-03	GW-04	GW-05	GW-06	GW-07	GW-08	GW-9	GW-10
22	Total Alkalinity as CaCO ₃	mg/l	270	356	749	272	360	372	447	349	437	312
23	Total Hardness as CaCO ₃	mg/l	298	292	178	318	232	280	206	290	212	504
24	Zinc as Zn	mg/l	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)
25	Cadmium as Cd	mg/l	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)
26	Cyanide as CN	mg/l	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)
27	Lead as Pb	mg/l	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)
28	Mercury as Hg	mg/l	BDL (DL:0.0002)	BDL (DL:0.0002)	BDL (DL:0.0002)	BDL (DL:0.0002)	BDL (DL:0.0002)	BDL (DL:0.0002)	BDL (DL:0.0002)	BDL (DL:0.0002)	BDL (DL:0.0002)	BDL (DL:0.0002)
29	Nickel (as Ni)	mg/l	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)	BDL (DL:0.01)
30	Total Arsenic (as As)	mg/l	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL(DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)	BDL (DL:0.005)
31	E. coli	/100ml	Detected	Detected	Detected	Detected	Detected	Not Detected	Detected	Not Detected	Detected	Detected

----- End of Report -----

Environment Laboratory
TATA Steel Meramandali, Odisha

Ref.No.EMD/LAB/2024/0002

			April-24	May-24	June-24	July-24	August-24	September-24
S. N	Name of the unit	Location	Leq					
1	RMPP	Near CSB-1 I D Fan	81.7	SD	83	82.5	SD	83.5
		Near CSB-2 I D Fan	SD	85.1	84.1	85.1	SD	84.9
		Near BB plant site office	78.5	80.3	79.3	78.6	77.9	80.2
		Near P.C.S building	80	81.5	78.4	80.9	SD	81.1
		Near T.C.S building	79.6	81.7	80	81.6	SD	82.3
		Near S.C.S building	79.8	82	79.9	81.4	SD	80.7
		Control Room Office	58.7	56	58.4	58.1	60.7	58.5
		Near Pumphouse Area	80.4	80.5	83.4	81.2	80.6	81.1
		Near O.P.S building	81.8	81.4	82.6	81.5	80.1	80.6
		Near O.S.C building	82.5	82.4	82	81.7	79.6	80.4
		Near O.T.C building	83	82.6	81.5	82.3	83.5	83.6
2	110 MW Compressor House AEL	Near Entrance Point	84.1	82.1	83.8	84.2	84.5	83.5
		Near Compressor	90.2	92.3	90.7	91.5	92.3	92.8
		Inside Operator office	79.7	80.3	75.1	80	75.9	80.3
	150 MW Ash Conveying Compressor House AEL	Near Entrance Point	85.1	84.4	84.5	85.8	85.2	85.1
		Near Compressor	91.7	90.4	91	92	90.3	93.6
		Inside Operator office	81.4	80.6	76.3	79.9	76.5	81.4
3	165 MW Compressor House AEL	Near Entrance Point	81.7	82.5	79.3	81.5	85.1	80.5
		Near Compressor	92	90.3	92	91.7	91.9	92.8
		Inside Operator office	78.6	77.5	69.2	80.2	80.1	80.4
4	300 MW Power Plant AEL	CFBC Boiler-1						
		Near ID Fan-1	SD	SD	SD	SD	SD	SD
		Near ID Fan-2	SD	SD	SD	SD	SD	SD
		Near S A Fan	SD	SD	SD	SD	SD	SD
		Near P.A. Fan	SD	SD	SD	SD	SD	SD
		Near Boiler -1 Area	SD	SD	SD	SD	SD	SD
		CFBC- Boiler-2						
		Near ID Fan-1	SD	85.4	85.9	SD	SD	85.9
		Near ID Fan-2	SD	85.8	86	SD	SD	85.7
		Near S A Fan	SD	91	95.5	SD	SD	91.3
		Near P.A. Fan	SD	91.1	96	SD	SD	91.5
		Near Boiler -2 Area	SD	84.5	84.9	SD	SD	85.8
		CFBC- Boiler-3						
		Near ID Fan-1	85.8	84.9	86.8	85.1	SD	85.2
		Near ID Fan-2	86.1	85.1	86.2	85.4	SD	85.9
		Near S A Fan	90.7	90.4	94.5	94.1	SD	91.8
		Near P.A. Fan	90.9	91.6	94.3	94.7	SD	91.2
		Near Boiler -3 Area	85.6	85.1	84.8	84.1	SD	85
		CFBC- Boiler-4						
		Near ID Fan-1	85.4	SD	84.1	84.4	SD	85.1
Near ID Fan-2	86	SD	83.6	84	SD	85.4		
Near S A Fan	90.5	SD	94.3	93.7	SD	92		
Near P.A. Fan	91	SD	93.7	94.2	SD	91.3		
Near Boiler -4	85.2	SD	83.9	84.6	SD	85.8		

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			April-24	May-24	June-24	July-24	August-24	September-24
S. N	Name of the unit	Location	Leq					
5	185 MW Power Plant AEL	CFBC- Boiler-5						
		Near ID Fan-1	78.2	80	83.1	80.4	80.3	SD
		Near ID Fan-2	79.3	80.3	82.6	80.5	80.5	SD
		Near S A Fan	92.1	91.7	87.1	91.5	91.7	SD
		Near P.A. Fan	91.3	91.5	88.8	91.1	91.5	SD
		Near Boiler -5	85.4	85.8	84.7	85.1	85.1	SD
		CFBC- Boiler-6						
		Near ID Fan-1	80	80.8	SD	80.1	81.6	SD
		Near ID Fan-2	80.2	81.6	SD	80.4	80.7	SD
		Near S A Fan	91.5	91	SD	90.5	91.6	SD
		Near P.A. Fan	90.8	91.6	SD	91.4	91.4	SD
		Near Boiler -6	86	85.4	SD	85.3	83.9	SD
		Near Silo Area	84.8	84.3	84.5	83.5	83.7	82.5
		Near 150 MW TG	91.1	90.4	89.8	90.1	90	90.1
		Near 165 MW TG	91.5	90.2	90.6	90	89.6	90.5
		Control Room Office	59.3	61.5	61.8	61.8	59.3	60.8

**SUMMARY OF AMBIENT AIR QUALITY
MONTHLY AVERAGE VALUES**

Month	Locations of Monitoring	Monthly Average				
		Unit in $\mu\text{g}/\text{m}^3$				Unit in mg/m^3
	Pollutant	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO
	Standard	100	60	80	80	2
Apr'24	CAAQMS-1	102.28	62.32	10.93	18.19	0.65
	CAAQMS-2	175.93	65.91	21.66	11.29	0.73
	CAAQMS-3	190.14	57.82	6.32	17.72	0.74
	CAAQMS-4	188.94	92.00	6.74	15.49	0.25
	CAAQMS-5	242.45	103.72	14.83	10.14	0.26
	CAAQMS-6	187.03	42.24	9.46	21.26	0.60
	CAAQMS-7	171.23	56.78	47.08	22.41	0.75
May'24	CAAQMS-1	96.68	42.29	10.96	18.44	0.65
	CAAQMS-2	197.94	49.97	21.52	10.88	0.73
	CAAQMS-3	188.34	46.43	2.46	17.04	0.73
	CAAQMS-4	180.35	64.39	5.92	8.59	0.25
	CAAQMS-5	212.01	79.43	12.89	8.09	0.96
	CAAQMS-6	119.63	54.33	8.74	26.53	1.00
	CAAQMS-7	88.12	30.45	42.26	15.57	0.74
June'24	CAAQMS-1	69.79	33.19	10.94	18.23	0.65
	CAAQMS-2	133.17	44.09	22.35	10.14	0.73
	CAAQMS-3	140.52	38.25	2.47	17.10	0.74
	CAAQMS-4	129.88	46.72	5.63	7.52	0.25
	CAAQMS-5	172.83	66.47	14.20	8.11	0.29
	CAAQMS-6	111.10	43.96	9.98	25.51	0.61
	CAAQMS-7	81.98	31.77	42.92	14.76	0.74
July'24	CAAQMS-1	60.65	23.87	11.18	18.23	0.65
	CAAQMS-2	69.64	26.84	23.40	10.92	0.73
	CAAQMS-3	130.47	40.19	2.88	18.68	0.73
	CAAQMS-4	64.11	26.06	6.57	7.56	0.25
	CAAQMS-5	70.88	23.19	12.56	7.37	0.26
	CAAQMS-6	93.72	32.33	14.15	22.00	1.00
	CAAQMS-7	79.19	31.86	42.77	15.56	0.74

Aug'24	CAAQMS-1	39.77	13.36	10.94	18.17	0.66
	CAAQMS-2	70.70	26.51	22.80	10.40	0.73
	CAAQMS-3	116.34	44.98	2.42	18.57	0.73
	CAAQMS-4	41.51	14.87	5.50	7.25	0.25
	CAAQMS-5	64.21	22.33	17.89	8.22	0.96
	CAAQMS-6	103.24	34.32	17.38	22.77	1.00
	CAAQMS-7	81.22	32.12	44.71	16.96	0.74
Sept'24	CAAQMS-1	53.36	14.71	12.02	19.18	0.65
	CAAQMS-2	117.33	33.27	22.93	12.45	0.73
	CAAQMS-3	109.91	35.40	2.13	18.83	0.74
	CAAQMS-4	41.72	16.18	5.62	7.97	0.24
	CAAQMS-5	69.92	23.59	16.41	14.66	0.26
	CAAQMS-6	85.08	35.78	15.30	21.52	1.00
	CAAQMS-7	82.82	36.70	46.91	15.00	0.74

All values are in $\mu\text{g}/\text{m}^3$ except CO values are in mg/m^3 . All Values are derived from 24 hourly average data except CO values which are derived from 8 hourly average data.

CAAQMS 1: Near Township; CAAQMS 2: Near Utility Department; CAAQMS 3: Near CRM; CAAQMS 4: Near Water Complex; CAAQMS 5: Near Coke Oven 2; CAAQMS 6: Near Wagon Tippler; CAAQMS 7: Near Material Gate, UM: Under Maintenance.