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Stack Emission Report Unit # 1

S No.	Month	Parameter	Units	Oct-22			Nov-22			Dec-22			Jan-23			Feb-23			Mar-23		
				Pass A	Pass B	Avg	Pass A	Pass B	Avg	Pass A	Pass B	Avg	Pass A	Pass B	Avg	Pass A	Pass B	Avg	Pass A	Pass B	Avg
1		Barometric Pressure	mmHg	752	752	752	752	752	752	751	751	751.0	748	748	748.0	743	743	743	750	750	750.0
2		Stack Temperature	(°C)	141	143	142	132	129	130.50	135	137	136.0	134	130	132.0	135	133	134.0	136	137	136.5
3		Exit Velocity of Flue Emission	(m/sec)	17.63	17.40	17.52	17.20	13.94	15.57	16.89	17.26	17.08	17.24	14.03	15.64	16.88	17.01	16.95	17.50	17.27	17.39
4		Particulate Matter (PM)	mg /Nm3	57.46	53.26	55.36	59.84	59.85	59.85	57.35	56.85	57.10	54.38	49.12	51.75	47.05	45.62	46.33	50.70	53.36	52.03
5		PM Corrected to 6% O2	mg /Nm3	58.64	55.89	57.26	61.48	63.22	62.35	59.34	58.02	58.68	55.12	50.48	52.80	49.02	46.88	47.95	51.39	54.84	53.11
6		Sulphur Dioxide (as SO2)	mg /Nm3	683.10	668.52	675.81	584.45	539.00	561.73	590.79	521.64	556.21	597.93	600.48	599.21	562.64	583.30	572.97	542.49	563.00	552.74
7		SO2 Corrected to 6% O2	mg /Nm3	697.14	701.48	699.31	600.57	569.58	585.08	611.30	532.36	571.83	606.07	617.05	611.56	586.24	599.39	592.82	549.87	578.53	564.20
8		Oxides of Nitrogen (as NO2)	mg /Nm3	422.42	414.86	418.64	415.94	421.17	418.55	407.92	420.61	414.26	423.78	446.69	435.24	434.90	429.43	432.16	440.70	439.75	440.23
9		NO2 Corrected to 6% O2	mg /Nm3	431.10	435.31	433.20	427.41	445.06	436.24	422.08	429.25	425.66	429.54	459.02	444.28	453.14	441.27	447.21	446.69	451.89	449.29
10		Carbon monoxide (as CO)	(% v/v)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11		Oxygen	(% v/v)	6.3	6.7	6.5	6.40	6.80	6.60	6.5	6.3	6.40	6.2	6.4	6.30	6.6	6.4	6.50	6.2	6.4	6.30
12		Carbon dioxide	(% v/v)	12.6	12.4	12.5	12.90	14.60	13.75	12.7	12.8	12.75	11.9	13.9	12.90	12.6	12.8	12.70	12.4	12.6	12.50

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Annex-I

Stack Emission Report Unit # 2

S No.	Month	Parameter	Units	Oct-22			Nov-22			Dec-22			Jan-23			Feb-23			Mar-23		
				Pass A	Pass B	Avg	Pass A	Pass B	Avg	Pass A	Pass B	Avg	Pass A	Pass B	Avg	Pass A	Pass B	Avg	Pass A	Pass B	Avg
1		Barometric Pressure	mmHg	752	752	752	752	752	752	751	751	751.0	748	748	748.0	743	743	743	750	750	750.0
2		Stack Temperature	(°C)	145	143	144	149	146	147.50	142	140	141.00	147	145	146.0	144	143	143.5	140	139	139.5
3		Exit Velocity of Flue Emission	(m/sec)	17.71	17.05	17.38	17.89	17.26	17.58	17.06	17.36	17.21	17.94	17.30	17.62	17.05	17.08	17.07	16.60	16.66	16.63
4		Particulate Matter (PM)	mg /Nm3	63.25	62.57	62.91	55.45	53.24	54.35	54.26	53.61	53.93	48.02	51.87	49.95	49.15	52.63	50.89	50.88	51.54	51.21
5		PM Corrected to 6% O2	mg /Nm3	66.37	64.75	65.56	56.58	55.08	55.83	55.76	55.47	55.61	49.69	52.93	51.31	49.82	54.08	51.95	51.57	52.97	52.27
6		Sulphur Dioxide (as SO2)	mg /Nm3	692.97	705.43	699.20	698.07	720.22	709.15	694.48	708.90	701.69	667.55	719.54	693.55	674.24	692.97	683.61	656.82	666.59	661.70
7		SO2 Corrected to 6% O2	mg /Nm3	727.13	729.92	728.53	712.41	745.23	728.82	713.63	733.52	723.58	690.73	734.32	712.53	683.42	712.09	697.75	665.76	684.98	675.37
8		Oxides of Nitrogen (as NO2)	mg /Nm3	436.52	421.60	429.06	426.71	436.69	431.70	427.39	439.66	433.52	452.75	462.39	457.57	456.83	467.39	462.11	460.43	472.55	466.49
9		NO2 Corrected to 6% O2	mg /Nm3	458.04	436.24	447.14	435.48	451.86	443.67	439.18	454.93	447.05	468.47	471.89	470.18	463.04	480.29	471.66	466.69	485.58	476.14
10		Carbon monoxide (as CO)	(% v/v)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11		Oxygen	(% v/v)	6.7	6.5	6.6	6.30	6.50	6.40	6.4	6.5	6.45	6.5	6.3	6.40	6.2	6.4	6.30	6.2	6.4	6.30
12		Carbon dioxide	(% v/v)	12.5	12.8	12.7	12.90	12.60	12.75	12.8	12.6	12.70	11.8	11.6	11.70	12.6	12.4	12.50	12.6	12.8	12.70

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Stack Emission Report Unit # 3																					
S No.	Month	Parameter	Units	Oct-22			Nov-22			Dec-22			Jan-23			Feb-23			Mar-23		
				Pass A	Pass B	Avg	Pass A	Pass B	Avg	Pass A	Pass B	Avg	Pass A	Pass B	Avg	Pass A	Pass B	Avg	Pass A	Pass B	Avg
1		Barometric Pressure	mmHg	752	752	752	752	752	752	751	751	751.0	748	748	748.0	743	743	743	750	750	750.0
2		Stack Temperature	(°C)	144	146	145	147	142	144.50	142	141	141.50	146	140	143.0	143	143	143.0	140	141	140.5
3		Exit Velocity of Flue Emission	(m/sec)	21.53	21.09	21.31	20.68	21.27	20.98	20.53	20.85	20.69	20.78	21.31	21.05	20.65	20.77	20.71	19.93	20.04	19.99
4		Particulate Matter (PM)	mg /Nm3	62.16	63.46	62.81	42.51	45.28	43.90	43.25	44.16	43.71	38.82	41.45	40.14	41.30	35.65	38.48	38.24	43.02	40.63
5		PM Corrected to 6% O2	mg /Nm3	63.87	65.21	64.54	43.98	46.52	45.25	44.76	44.76	44.76	36.84	39.84	38.34	41.87	36.64	39.25	38.24	43.02	40.63
6		Sulphur Dioxide (as SO2)	mg /Nm3	744.19	730.04	737.11	742.97	765.36	754.17	733.71	748.93	741.32	717.56	740.06	728.81	730.44	749.16	739.80	729.48	745.71	737.59
7		SO2 Corrected to 6% O2	mg /Nm3	764.72	750.18	757.45	768.77	786.47	777.62	759.18	759.12	759.15	681.00	711.41	696.21	740.37	769.83	755.10	729.48	745.71	737.59
8		Oxides of Nitrogen (as NO2)	mg /Nm3	431.07	445.06	438.06	438.20	441.98	440.09	435.83	440.10	437.97	447.25	465.72	456.49	467.58	457.01	462.29	448.53	465.84	457.18
9		NO2 Corrected to 6% O2	mg /Nm3	442.96	457.34	450.15	453.41	454.17	453.79	450.97	446.09	448.53	424.46	447.69	436.08	473.94	469.62	471.78	448.53	465.84	457.18
10		Carbon monoxide (as CO)	(% v/v)	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	
11		Oxygen	(% v/v)	6.4	6.4	6.4	6.50	6.40	6.45	6.5	6.2	6.35	5.2	5.4	5.30	6.2	6.4	6.30	6.0	6.0	6.00
12		Carbon dioxide	(% v/v)	13.5	13.5	13.5	13.60	13.80	13.70	13.3	13.4	13.35	12.5	12.8	12.65	13.2	13.0	13.10	13.6	13.4	13.50

Stack Emission Report Unit # 4

Stack Emission Report Unit # 4																				
Month			Oct-22			Nov-22			Dec-22			Jan-23			Feb-23			Mar-23		
S No.	Parameter	Units	Pass A	Pass B	Avg	Pass A	Pass B	Avg	Pass A	Pass B	Avg	Pass A	Pass B	Avg	Pass A	Pass B	Avg	Pass A	Pass B	Avg
1	Barometric Pressure	mmHg	752	752	752	752	752	752	751	751	751.0	ASD	ASD	ASD	743	743	743	750	750	750.0
2	Stack Temperature	(°C)	141	140	141	146	143	144.50	147	140	143.50	ASD	ASD	ASD	145	143	144.0	144	143	143.5
3	Exit Velocity of Flue Emission	(m/sec)	26.84	26.97	26.91	26.95	27.27	27.11	26.89	26.85	26.87	ASD	ASD	ASD	27.97	27.87	27.92	27.69	27.56	27.63
4	Particulate Matter (PM)	mg /Nm3	41.52	42.86	42.19	41.25	42.58	41.92	42.19	42.95	42.57	ASD	ASD	ASD	40.91	41.65	41.28	41.10	39.69	40.39
5	PM Corrected to 6% O2	mg /Nm3	45.16	48.39	46.77	45.50	47.31	46.40	47.27	48.86	48.06	ASD	ASD	ASD	42.63	44.01	43.32	44.70	42.54	43.62
6	Sulphur Dioxide (as SO2)	mg /Nm3	806.18	825.85	816.01	556.26	575.78	566.02	547.31	566.85	557.08	ASD	ASD	ASD	524.41	563.77	544.09	561.15	544.22	552.69
7	SO2 Corrected to 6% O2	mg /Nm3	876.80	932.21	904.50	613.95	640.23	627.09	613.15	644.74	628.95	ASD	ASD	ASD	546.42	595.76	571.09	610.30	583.37	596.84
8	Oxides of Nitrogen (as NO2)	mg /Nm3	439.82	441.82	440.82	442.15	425.78	433.97	443.90	428.46	436.18	ASD	ASD	ASD	420.34	430.13	425.24	482.87	468.82	475.85
9	NO2 Corrected to 6% O2	mg /Nm3	478.34	498.72	488.53	488.01	473.44	480.72	497.30	487.33	492.32	ASD	ASD	ASD	437.98	454.53	446.26	525.17	502.55	513.86
10	Carbon monoxide (as CO)	(% v/v)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	ASD	ASD	ASD	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11	Oxygen	(% v/v)	7.2	7.6	7.4	7.40	7.50	7.45	7.6	7.8	7.70	ASD	ASD	ASD	6.6	6.8	6.70	7.2	7.0	7.10
12	Carbon dioxide	(% v/v)	12.8	12.2	12.5	12.80	12.90	12.85	13.0	12.7	12.85	ASD	ASD	ASD	12.8	12.8	12.80	12.4	12.8	12.60

ASD - Annual Shut Down

Stack Emission Report Unit # 5																				
	Month		Oct-22			Nov-22			Dec-22			Jan-23			Feb-23			Mar-23		
S No.	Parameter	Units	Pass A	Pass B	Avg	Pass A	Pass B	Avg	Pass A	Pass B	Avg	Pass A	Pass B	Avg	Pass A	Pass B	Avg	Pass A	Pass B	Avg
1	Barometric Pressure	mmHg	752	752	752	749	749	749	751	751	751.0	748	748	748.0	743	743	743	756	756	756.0
2	Stack Temperature	(°C)	138	139	139	145	141	143.00	143	142	142.50	145	141	143.0	144	143	143.5	132	134	133.0
3	Exit Velocity of Flue Emission	(m/sec)	25.95	25.71	25.83	26.28	25.98	26.13	26.19	25.91	26.05	26.27	25.92	26.10	27.25	27.14	27.20	25.56	25.44	25.5
4	Particulate Matter (PM)	mg /Nm3	42.76	45.64	44.20	34.52	36.25	35.39	34.52	35.64	35.08	35.56	33.54	34.55	27.45	26.47	26.96	28.82	27.34	28.08
5	PM Corrected to 6% O2	mg /Nm3	46.50	49.64	48.07	36.46	39.12	37.79	36.74	37.66	37.20	38.39	37.58	37.99	29.00	27.97	28.48	30.45	28.89	29.67
6	Sulphur Dioxide (as SO2)	mg /Nm3	766.86	747.19	757.02	597.06	614.45	605.76	595.24	612.59	603.91	617.86	635.24	626.55	635.95	619.26	627.60	628.78	649.41	639.10
7	SO2 Corrected to 6% O2	mg /Nm3	834.03	812.63	823.33	630.94	663.43	647.18	633.50	647.34	640.42	667.11	711.07	689.09	672.03	654.39	663.21	664.45	686.26	675.36
8	Oxides of Nitrogen (as NO2)	mg /Nm3	455.81	472.58	464.19	466.36	475.45	470.90	466.18	477.02	471.60	435.50	436.19	435.85	456.05	469.46	462.75	441.77	466.84	454.31
9	NO2 Corrected to 6% O2	mg /Nm3	495.73	513.98	504.85	492.81	513.34	503.08	496.15	504.09	500.12	470.22	488.66	479.44	481.92	496.10	489.01	448.15	473.57	460.86
10	Carbon monoxide (as CO)	(% v/v)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11	Oxygen	(% v/v)	7.2	7.2	7.2	6.80	7.10	6.95	6.9	6.8	6.85	7.1	7.6	7.35	6.8	6.8	6.80	6.8	6.8	6.80
12	Carbon dioxide	(% v/v)	12.4	12.3	12.4	12.30	12.10	12.20	11.8	12.0	11.90	12.6	13.2	12.90	12.0	12.2	12.10	12.2	12.4	12.30



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Annex-II

[ULR- TC764922000002624F]

[Format No. : SRL / FRM / 17]

TEST REPORT

[Report No. SRL / TPCL(J) / WW- 836-2022 Dated: 21.10.2022]

A. SAMPLE DETAILS:-

Name & Address of the Customer	:	The Tata Power Company Limited Jojobera Power Plant Jamshedpur - 831 016		
Sample Type	:	Waste Water		
Sampling Location	:	ETP Inlet		
Sample Identification No.	:	WW- 836-2022		
Test Requirement	:	Chemical		
Sampling Method	:	APHA 23 rd Edition, 1060B		
Sample Collected By	:	Scientific Research Laboratory		
Sample Preservation	:	Preserved	Environmental Condition	: Clear
Water Sampling Date	:	14.10.2022	Sample Receiving Date	: 14.10.2022
Analysis Started On	:	14.10.2022	Analysis Completed On	: 21.10.2022

B. RESULTS

Sl. No.	Parameters	Unit	Minimum Detection Limit	Results	Test Specification
				WW-836-2022	
1.	Colour	Hazen Units	5	20	APHA 23 rd Edition, 2120 B
2.	pH	-	2	6.84	APHA 23 rd Edition., 4500-H+B
3.	Total Dissolved Solids	mg/L	10	880	APHA 23 rd Edition., 2540 C
4.	Total Suspended Solids	mg/L	2	167	APHA 23 rd Edition., 2540 D
5.	Dissolved Oxygen	mg/L	1	2.8	APHA 23 rd Edition, 4500 O C
6.	Chemical Oxygen Demand	mg/L	8	770	APHA 23 rd Edition, 5220 B
7.	Biochemical Oxygen Demand 3 Days at 27°C	mg/L	2	332	IS 3025 (Part 44) : 1993
8.	Oil & Grease(Hexane Extract)	mg/L	5	<5	APHA 23 rd Edition., 5220 B


Dr. Jyotirmoy Majumdar
(Authorized Signatory)

-----End of Test Report-----
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- The test report shall not be reproduced, except in full, without written approval of the company.
- Results relate only to the parameters tested.
- No Repeat Analysis will be entertained after 15 days from the date of reporting.
- All relevant information of customer regarding testing are treated as confidential.



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[ULR- TC764922000002625F]

[Format No. : SRL / FRM / 17]

TEST REPORT

[Report No. SRL / TPCL(J) / WW- 837-2022 Dated: 21.10.2022]

A. SAMPLE DETAILS:-

Name & Address of the Customer	:	The Tata Power Company Limited Jojobera Power Plant Jamshedpur - 831 016		
Sample Type	:	Waste Water		
Sampling Location	:	ETP Outlet		
Sample Identification No.	:	WW- 837-2022		
Test Requirement	:	Chemical		
Sampling Method	:	APHA 23 rd Edition, 1060B		
Sample Collected By	:	Scientific Research Laboratory		
Sample Preservation	:	Preserved	Environmental Condition	: Clear
Water Sampling Date	:	14.10.2022	Sample Receiving Date	: 14.10.2022
Analysis Started On	:	14.10.2022	Analysis Completed On	: 21.10.2022

B. RESULTS

Sl. No.	Parameters	Unit	Minimum Detection Limit	Results	Test Specification	Standard/ Limit*
				WW-837-2022		
1.	Colour	Hazen Units	5	10	APHA 23 rd Edition, 2120 B	--
2.	pH	--	2	6.7	APHA 23 rd Edition., 4500-H+B	5.5 to 9
3.	Total Dissolved Solids	mg/L	10	610	APHA 23 rd Edition., 2540 C	--
4.	Total Suspended Solids	mg/L	2	28	APHA 23 rd Edition., 2540 D	100
5.	Dissolved Oxygen	mg/L	1	4.2	APHA 23 rd Edition, 4500 O C	--
6.	Chemical Oxygen Demand	mg/L	8	54	APHA 23 rd Edition, 5220 B	250
7.	Biochemical Oxygen Demand 3 Days at 27°C	mg/L	2	12	IS 3025 (Part 44) : 1993	30
8.	Oil & Grease(Hexane Extract)	mg/L	5	<5	APHA 23 rd Edition., 5220 B	10

Note: * EPA Notification [S.O. 844(E), dt 19th Nov; 1996]

Dr. Jyotirmoy Majumdar
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[JLR- TC764922000002883F]

[Format No. : SRL / FRM / 17]

TEST REPORT

[Report No. SRL / TPCL(J) / WW- 889-2022 Dated: 17.11.2022]

A. SAMPLE DETAILS:-

Name & Address of the Customer	:	The Tata Power Company Limited Jojobera Power Plant Jamshedpur - 831 016		
Sample Type	:	Waste Water		
Sampling Location	:	ETP Inlet		
Sample Identification No.	:	WW- 889-2022		
Test Requirement	:	Chemical		
Sampling Method	:	APHA 23 rd Edition, 1060B		
Sample Collected By	:	Scientific Research Laboratory		
Sample Preservation	:	Preserved	Environmental Condition	: Clear
Water Sampling Date	:	04.11.2022	Sample Receiving Date	: 04.11.2022
Analysis Started On	:	04.11.2022	Analysis Completed On	: 17.11.2022

B. RESULTS

Sl. No.	Parameters	Unit	Minimum Detection Limit	Results	Test Specification
				WW-889-2022	
1.	Colour	Hazen Units	5	15	APHA 23 rd Edition, 2120 B
2.	pH	--	2	6.95	APHA 23 rd Edition., 4500-H+B
3.	Total Dissolved Solids	mg/L	10	848	APHA 23 rd Edition., 2540 C
4.	Total Suspended Solids	mg/L	2	206	APHA 23 rd Edition., 2540 D
5.	Dissolved Oxygen	mg/L	1	2.4	APHA 23 rd Edition, 4500 O C
6.	Chemical Oxygen Demand	mg/L	8	871	APHA 23 rd Edition, 5220 B
7.	Biochemical Oxygen Demand 3 Days at 27°C	mg/L	2	410	IS 3025 (Part 44) : 1993
8.	Oil & Grease(Hexane Extract)	mg/L	5	<5	APHA 23 rd Edition., 5220 B

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[ULR- TC76492200002884F]

[Format No. : SRL / FRM / 17]

TEST REPORT

[Report No. SRL / TPCL(J) / WW- 890-2022 Dated: 17.11.2022]

A. SAMPLE DETAILS:-

Name & Address of the Customer	: The Tata Power Company Limited Jojobera Power Plant Jamshedpur - 831 016		
Sample Type	: Waste Water		
Sampling Location	: ETP Outlet		
Sample Identification No.	: WW- 890-2022		
Test Requirement	: Chemical		
Sampling Method	: APHA 23 rd Edition, 1060B		
Sample Collected By	: Scientific Research Laboratory		
Sample Preservation	: Preserved	Environmental Condition	: Clear
Water Sampling Date	: 04.11.2022	Sample Receiving Date	: 04.11.2022
Analysis Started On	: 04.11.2022	Analysis Completed On	: 17.11.2022

B. RESULTS

Sl. No.	Parameters	Unit	Minimum Detection Limit	Results	Test Specification	Standard/Limit*
				WW-890-2022		
1.	Colour	Hazen Units	5	5	APHA 23 rd Edition, 2120 B	-
2.	pH	-	2	7.18	APHA 23 rd Edition., 4500-H+B	5.5 to 9
3.	Total Dissolved Solids	mg/L	10	504	APHA 23 rd Edition., 2540 C	-
4.	Total Suspended Solids	mg/L	2	28	APHA 23 rd Edition., 2540 D	100
5.	Dissolved Oxygen	mg/L	1	3.6	APHA 23 rd Edition, 4500 O C	-
6.	Chemical Oxygen Demand	mg/L	8	69	APHA 23 rd Edition, 5220 B.	250
7.	Biochemical Oxygen Demand 3 Days at 27°C	mg/L	2	15	IS 3025 (Part 44) : 1993	30
8.	Oil & Grease(Hexane Extract)	mg/L	5	<5	APHA 23 rd Edition., 5220 B	10

Note: * EPA Notification [S.O. 844(E), dt 19th Nov; 1996]


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[ULR- TC764922000003200F]

[Format No. : SRL / FRM / 17]

TEST REPORT

[Report No. SRL / TPCL(J) / WW- 986-2022 Dated: 15.12.2022]

A. SAMPLE DETAILS:-

Name & Address of the Customer	: The Tata Power Company Limited Jojobera Power Plant Jamshedpur - 831 016		
Sample Type	: Waste Water		
Sampling Location	: ETP Inlet		
Sample Identification No.	: WW- 986-2022		
Test Requirement	: Chemical		
Sampling Method	: APHA 23 rd Edition, 1060B		
Sample Collected By	: Scientific Research Laboratory		
Sample Preservation	: Preserved	Environmental Condition	: Clear
Water Sampling Date	: 03.12.2022	Sample Receiving Date	: 03.12.2022
Analysis Started On	: 03.12.2022	Analysis Completed On	: 15.12.2022

B. RESULTS

Sl. No.	Parameters	Unit	Minimum Detection Limit	Results	Test Specification
				WW-986-2022	
1.	Colour	Hazen Units	5	20	APHA 23 rd Edition, 2120 B
2.	pH	--	2	8.17	APHA 23 rd Edition., 4500-H+B
3.	Total Dissolved Solids	mg/L	10	910	APHA 23 rd Edition., 2540 C
4.	Total Suspended Solids	mg/L	2	48	APHA 23 rd Edition., 2540 D
5.	Dissolved Oxygen	mg/L	1	3.6	APHA 23 rd Edition, 4500 O C
6.	Chemical Oxygen Demand	mg/L	8	87	APHA 23 rd Edition, 5220 B
7.	Biochemical Oxygen Demand 3 Days at 27°C	mg/L	2	20	IS 3025 (Part 44) : 1993
8.	Oil & Grease(Hexane Extract)	mg/L	5	<5	APHA 23 rd Edition., 5220 B

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[ULR- TC76492200003201F]

[Format No. : SRL / FRM / 17]

TEST REPORT

[Report No. SRL / TPCL(J) / WW- 987-2022 Dated: 15.12.2022]

A. SAMPLE DETAILS:-

Name & Address of the Customer	: The Tata Power Company Limited Jojobera Power Plant Jamshedpur - 831 016		
Sample Type	: Waste Water		
Sampling Location	: ETP Outlet		
Sample Identification No.	: WW- 987-2022		
Test Requirement	: Chemical		
Sampling Method	: APHA 23 rd Edition, 1060B		
Sample Collected By	: Scientific Research Laboratory		
Sample Preservation	: Preserved	Environmental Condition	: Clear
Water Sampling Date	: 03.12.2022	Sample Receiving Date	: 03.12.2022
Analysis Started On	: 03.12.2022	Analysis Completed On	: 15.12.2022

B. RESULTS

Sl. No.	Parameters	Unit	Minimum Detection Limit	Results	Test Specification	Standard/ Limit*
				WW-987-2022		
1.	Colour	Hazen Units	5	<5	APHA 23 rd Edition, 2120 B	--
2.	pH	--	2	7.62	APHA 23 rd Edition., 4500-H+B	5.5 to 9
3.	Total Dissolved Solids	mg/L	10	524	APHA 23 rd Edition., 2540 C	--
4.	Total Suspended Solids	mg/L	2	18	APHA 23 rd Edition., 2540 D	100
5.	Dissolved Oxygen	mg/L	1	4.8	APHA 23 rd Edition, 4500 O C	--
6.	Chemical Oxygen Demand	mg/L	8	45	APHA 23 rd Edition, 5220 B	250
7.	Biochemical Oxygen Demand 3 Days at 27°C	mg/L	2	10	IS 3025 (Part-44) : 1993	30
8.	Oil & Grease(Hexane Extract)	mg/L	5	<5	APHA 23 rd Edition., 5220 B	10

Note: * EPA Notification [S.O. 844(E), dt 19th Nov; 1996]

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[Format No. : SRL / FRM / 17]

TEST REPORT

[Report No. SRL / TPCL(J) / WW- 022-2023 Dated: 06.02.2023]

A. SAMPLE DETAILS:-

Name & Address of the Customer	:	The Tata Power Company Limited Jobbera Power Plant Jamshedpur - 831 016		
Sample Type	:	Waste Water		
Sampling Location	:	ETP Inlet		
Sample Identification No.	:	WW- 022-2023		
Test Requirement	:	Chemical		
Sampling Method	:	APHA 23 rd Edition, 1060B		
Sample Collected By	:	Scientific Research Laboratory		
Sample Preservation	:	Preserved	Environmental Condition	: Clear
Water Sampling Date	:	18.01.2023	Sample Receiving Date	: 18.01.2023
Analysis Started On	:	18.01.2023	Analysis Completed On	: 06.02.2023

B. RESULTS

Sl. No.	Parameters	Unit	Minimum Detection Limit	Results	Test Specification
				WW-022-2023	
1.	Colour	Hazen Units	5	20	APHA 23 rd Edition, 2120 B
2.	pH	--	2	7.34	APHA 23 rd Edition., 4500-H+B
3.	Total Dissolved Solids	mg/L	10	876	APHA 23 rd Edition., 2540 C
4.	Total Suspended Solids	mg/L	2	62	APHA 23 rd Edition., 2540 D
5.	Dissolved Oxygen	mg/L	1	4.2	APHA 23 rd Edition, 4500 O C
6.	Chemical Oxygen Demand	mg/L	8	90	APHA 23 rd Edition, 5220 B
7.	Biochemical Oxygen Demand 3 Days at 27°C	mg/L	2	17	IS 3025 (Part 44) : 1993
8.	Oil & Grease(Hexane Extract)	mg/L	5	<5	APHA 23 rd Edition., 5220 B

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[Format No. : SRL / FRM / 17]

TEST REPORT

[Report No. SRL / TPCL(J) / WW- 023-2023 Dated: 06.02.2023]

A. SAMPLE DETAILS:-

Name & Address of the Customer	:	The Tata Power Company Limited Jojobera Power Plant Jamshedpur – 831 016		
Sample Type	:	Waste Water		
Sampling Location	:	ETP Outlet		
Sample Identification No.	:	WW- 023-2023		
Test Requirement	:	Chemical		
Sampling Method	:	APHA 23 rd Edition, 1060B		
Sample Collected By	:	Scientific Research Laboratory		
Sample Preservation	:	Preserved	Environmental Condition	: Clear
Water Sampling Date	:	18.01.2023	Sample Receiving Date	: 18.01.2023
Analysis Started On	:	18.01.2023	Analysis Completed On	: 06.02.2023

B. RESULTS

Sl. No.	Parameters	Unit	Minimum Detection Limit	Results	Test Specification	Standard/ Limit*
				WW-023-2023		
1.	Colour	Hazen Units	5	10	APHA 23 rd Edition, 2120 B	–
2.	pH	–	2	7.08	APHA 23 rd Edition., 4500-H+B	5.5 to 9
3.	Total Dissolved Solids	mg/L	10	434	APHA 23 rd Edition., 2540 C	–
4.	Total Suspended Solids	mg/L	2	14	APHA 23 rd Edition., 2540 D	100
5.	Dissolved Oxygen	mg/L	1	5.4	APHA 23 rd Edition, 4500 O C	–
6.	Chemical Oxygen Demand	mg/L	8	18	APHA 23 rd Edition, 5220 B	250
7.	Biochemical Oxygen Demand 3 Days at 27°C	mg/L	2	4	IS 3025 (Part 44) : 1993	30
8.	Oil & Grease(Hexane Extract)	mg/L	5	<5	APHA 23 rd Edition., 5220 B	10

Note: * EPA Notification [S.O. 844(E), dt 19th Nov; 1996]

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[ULR- TC764923000000325F]

[Format No. : SRL / FRM / 17]

TEST REPORT

[Report No. SRL / TPCL(J) / WW- 090-2023 Dated: 21.02.2023]

A. SAMPLE DETAILS:-

Name & Address of the Customer	: The Tata Power Company Limited Jojobera Power Plant Jamshedpur - 831 016		
Sample Type	: Waste Water		
Sampling Location	: ETP Inlet		
Sample Identification No.	: WW- 090-2023		
Test Requirement	: Chemical		
Sampling Method	: APHA 23 rd Edition, 1060B		
Sample Collected By	: Scientific Research Laboratory		
Sample Preservation	: Preserved	Environmental Condition	: Clear
Water Sampling Date	: 07.02.2023	Sample Receiving Date	: 07.02.2023
Analysis Started On	: 07.02.2023	Analysis Completed On	: 21.02.2023

B. RESULTS

Sl. No.	Parameters	Unit	Minimum Detection Limit	Results	Test Specification
				WW-090-2023	
1.	Colour	Hazen Units	5	20	APHA 23 rd Edition, 2120 B
2.	pH	--	2	7.49	APHA 23 rd Edition., 4500-H+B
3.	Total Dissolved Solids	mg/L	10	852	APHA 23 rd Edition., 2540 C
4.	Total Suspended Solids	mg/L	2	68	APHA 23 rd Edition., 2540 D
5.	Dissolved Oxygen	mg/L	1	4	APHA 23 rd Edition, 4500 O C
6.	Chemical Oxygen Demand	mg/L	8	110	APHA 23 rd Edition, 5220 B
7.	Biochemical Oxygen Demand 3 Days at 27°C	mg/L	2	23	IS 3025 (Part 44) : 1993
8.	Oil & Grease(Hexane Extract)	mg/L	5	<5	APHA 23 rd Edition., 5220 B

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[ULR- TC764923000000326F]

[Format No. : SRL / FRM / 17]

TEST REPORT

[Report No. SRL / TPCL(J) / WW- 091-2023 Dated: 21.02.2023]


A. SAMPLE DETAILS:-

Name & Address of the Customer	:	The Tata Power Company Limited Jojobera Power Plant Jamshedpur - 831 016		
Sample Type	:	Waste Water		
Sampling Location	:	ETP Outlet		
Sample Identification No.	:	WW- 091-2023		
Test Requirement	:	Chemical		
Sampling Method	:	APHA 23 rd Edition, 1060B		
Sample Collected By	:	Scientific Research Laboratory		
Sample Preservation	:	Preserved	Environmental Condition	: Clear
Water Sampling Date	:	07.02.2023	Sample Receiving Date	: 07.02.2023
Analysis Started On	:	07.02.2023	Analysis Completed On	: 21.02.2023

B. RESULTS

Sl. No.	Parameters	Unit	Minimum Detection Limit	Results	Test Specification	Standard/Limit*
				WW-091-2023		
1.	Colour	Hazen Units	5	10	APHA 23 rd Edition, 2120 B	-
2.	pH	-	2	7.28	APHA 23 rd Edition., 4500-H+B	5.5 to 9
3.	Total Dissolved Solids	mg/L	10	388	APHA 23 rd Edition., 2540 C	-
4.	Total Suspended Solids	mg/L	2	18	APHA 23 rd Edition., 2540 D	100
5.	Dissolved Oxygen	mg/L	1	5.6	APHA 23 rd Edition, 4500 O C	-
6.	Chemical Oxygen Demand	mg/L	8	36	APHA 23 rd Edition, 5220 B	250
7.	Biochemical Oxygen Demand 3 Days at 27°C	mg/L	2	6	IS 3025 (Part 44) : 1993	30
8.	Oil & Grease(Hexane Extract)	mg/L	5	<5	APHA 23 rd Edition., 5220 B	10

Note: * EPA Notification [S.O. 844(E), dt 19th Nov; 1996]


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[ULR- TC76492300000642F]

[Format No. : SRL / FRM / 17]

TEST REPORT

[Report No. SRL / TPCL(J) / WW- 172-2023 Dated: 25.03.2023]

A. SAMPLE DETAILS:-

Name & Address of the Customer	:	The Tata Power Company Limited Jojobera Power Plant Jamshedpur - 831 016		
Sample Type	:	Waste Water		
Sampling Location	:	ETP Inlet		
Sample Identification No.	:	WW- 172-2023		
Test Requirement	:	Chemical		
Sampling Method	:	APHA 23 rd Edition, 1060B		
Sample Collected By	:	Scientific Research Laboratory		
Sample Preservation	:	Preserved	Environmental Condition	: Clear
Water Sampling Date	:	11.03.2023	Sample Receiving Date	: 11.03.2023
Analysis Started On	:	11.03.2023	Analysis Completed On	: 24.03.2023

B. RESULTS

Sl. No.	Parameters	Unit	Minimum Detection Limit	Results	Test Specification
				WW-172-2023	
1.	Colour	Hazen Units	5	15	APHA 23 rd Edition, 2120 B
2.	pH	--	2	7.66	APHA 23 rd Edition., 4500-H+B
3.	Total Dissolved Solids	mg/L	10	1360	APHA 23 rd Edition., 2540 C
4.	Total Suspended Solids	mg/L	2	96	APHA 23 rd Edition., 2540 D
5.	Dissolved Oxygen	mg/L	1	4.8	APHA 23 rd Edition, 4500 O C
6.	Chemical Oxygen Demand	mg/L	8	88	APHA 23 rd Edition, 5220 B
7.	Biochemical Oxygen Demand 3 Days at 27°C	mg/L	2	28	IS 3025 (Part 44) : 1993
8.	Oil & Grease(Hexane Extract)	mg/L	5	<5	APHA 23 rd Edition., 5220 B



 Dr. Jyotirmoy Majumdar
 (Authorized Signatory)

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

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[ULR- TC76492300000643F]

[Format No. : SRL / FRM / 17]

TEST REPORT

[Report No. SRL / TPCL(J) / WW- 173-2023 Dated: 25.03.2023]

A. SAMPLE DETAILS:-

Name & Address of the Customer	:	The Tata Power Company Limited Jojobera Power Plant Jamshedpur - 831 016		
Sample Type	:	Waste Water		
Sampling Location	:	ETP Outlet		
Sample Identification No.	:	WW- 173-2023		
Test Requirement	:	Chemical		
Sampling Method	:	APHA 23 rd Edition, 1060B		
Sample Collected By	:	Scientific Research Laboratory		
Sample Preservation	:	Preserved	Environmental Condition	: Clear
Water Sampling Date	:	11.03.2023	Sample Receiving Date	: 11.03.2023
Analysis Started On	:	11.03.2023	Analysis Completed On	: 24.03.2023

B. RESULTS

Sl. No.	Parameters	Unit	Minimum Detection Limit	Results	Test Specification	Standard/ Limit*
				WW-173-2023		
1.	Colour	Hazen Units	5	5	APHA 23 rd Edition, 2120 B	--
2.	pH	--	2	7.12	APHA 23 rd Edition., 4500-H+B	5.5 to 9
3.	Total Dissolved Solids	mg/L	10	346	APHA 23 rd Edition., 2540 C	--
4.	Total Suspended Solids	mg/L	2	14	APHA 23 rd Edition., 2540 D	100
5.	Dissolved Oxygen	mg/L	1	5.2	APHA 23 rd Edition, 4500 O C	--
6.	Chemical Oxygen Demand	mg/L	8	44	APHA 23 rd Edition, 5220 B	250
7.	Biochemical Oxygen Demand 3 Days at 27°C	mg/L	2	15	IS 3025 (Part 44) : 1993	30
8.	Oil & Grease(Hexane Extract)	mg/L	5	<5	APHA 23 rd Edition., 5220 B	10

Note: * EPA Notification [S.O. 844(E), dt 19th Nov; 1996]

Dr. Jyotirmoy Majumdar
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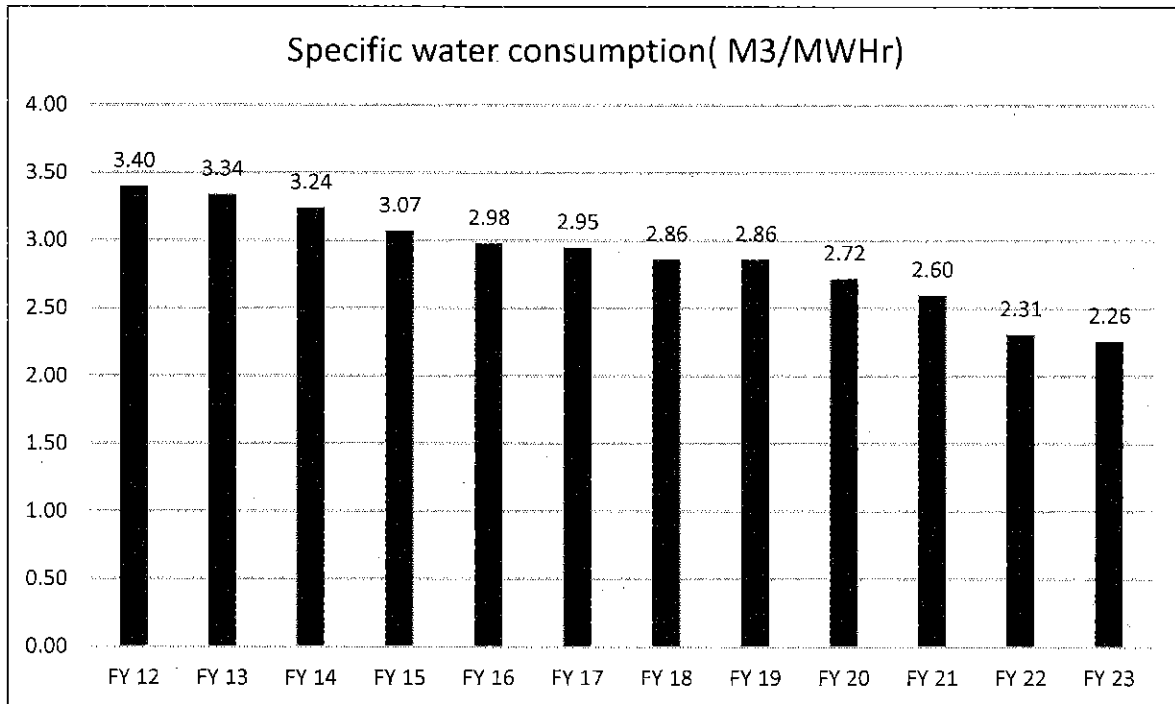
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Road map Compliance for Fly Ash Utilization FY22-23

S.No.	Description	Unit	Total Fly Ash Utilization in FY:22-23
A	Ash Generation (Fly Ash + Bed Ash)	MT	1044334
B	Ash Utilization:	MT	
(i)	Fly ash based products viz. bricks, blocks, tiles, fibre cement sheets, pipes, boards, panels;	MT	3117
(ii)	Cement manufacturing, ready mix concrete;	MT	595411
(iii)	Construction of road and fly over embankment, Ash and Geo-polymer based construction material;	MT	47302
	Construction of dam;	MT	
	Filling up of low lying area;	MT	399110
	Filling of mine voids;	MT	
	Manufacturing of sintered or cold bonded ash aggregate;	MT	
	Agriculture in a controlled manner based on soil testing;	MT	
	Construction of shoreline protection structures in coastal districts;	MT	
	Export of ash to other countries;	MT	
(iv)	Any other eco-friendly purpose as notified from time to time.	MT	
	Total Ash Utilization	MT	1044940
C	Ash Utilization Percentage	%	100.06

Proactive action for Environmental Improvement

- 100 % Fly ash utilization as per Govt. approved guidelines.
- Continuous operation of effluent treatment plant for recycling of wastewater is in place. The treated ETP water is being used in various plant process and ZLD (zero liquid discharge) is maintained.
- 108 no of new saplings planted from the local species in plant area in H2-FY23. Total 384 nos. of new saplings planted from the local species in plant area in FY22-23.
- The construction work for installation of FGD and DE NOx system is in progress for Jojobera. The actual work progress for FGD and DE NOx installation is 63.0% as on 31 March' 2023.
- Sp. raw water consumption recorded 2.26 M3/ MWH in FY 2022-23 against statutory limit 3.5 M3/MWH. The year wise improvement is graphically represented below.





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Annex-V

[ULR NO: TC76492200000255F]

[FORMAT NO. SRL / FRM / 21]

AMBIENT NOISE MONITORING

Customer Name & Address	: M/s. Tata Power Limited P.O.: Rahargora, Jojobera Jamshedpur - 831016		
Sample Identification No.	: ANQ - 608 - 2022 TO ANQ - 623 - 2022		
Sampling Date	: 11.10.2022	Barometric Pressure	: 742 mm Hg.
Sample Receiving/Analysis Starting On	: 11.10.2022	Analysis Completed on	: 30.10.2022
RESULTS OF AMBIENT NOISE LEVEL MEASUREMENT			
[SRL/TPCL/ ANQ - 608 - 2022 TO ANQ - 623 - 2022 Dated: 30.10.2022]			

SAMPLE .NO.	Monitoring Date	SAMPLING LOCATION	Leq dB(A) [Day Time]	Leq dB(A) [Night Time]
ANQ - 608 - 2022	11.10.2022	E.T.P Area	71.18	65.46
ANQ - 609 - 2022	11.10.2022	SSF Area	73.12	66.39
ANQ - 610 - 2022	11.10.2022	CHP Area	73.58	65.06
ANQ - 611 - 2022	11.10.2022	Ash Plant Area	73.22	66.42
ANQ - 612 - 2022	11.10.2022	Office Building	69.29	64.82
ANQ - 613 - 2022	11.10.2022	Near by Canteen	69.74	64.60
ANQ - 614 - 2022	11.10.2022	Security Gate	72.61	65.46
ANQ - 615 - 2022	11.10.2022	Near DG Room (DM Plant)	70.43	67.31
ANQ - 616 - 2022	11.10.2022	Gadra Collage	73.33	65.22
ANQ - 617 - 2022	11.10.2022	AVN School	73.65	65.01
ANQ - 618 - 2022	11.10.2022	Sharma School	70.98	64.45
ANQ - 619 - 2022	11.10.2022	Panchayat Bhavan	72.15	64.10
ANQ - 620 - 2022	11.10.2022	Govindpur Market	73.81	65.62
ANQ - 621 - 2022	11.10.2022	Basic School	70.92	64.39
ANQ - 622 - 2022	11.10.2022	Subhash Nagar	71.18	64.54
ANQ - 623 - 2022	11.10.2022	Post Office Gadra	73.29	64.63

NOISE : (AMBIENT STANDARDS)

CATEGORY OF AREA	Leq, Noise Levels dB(A)	
	DAY TIME	NIGHT TIME
INDUSTRIAL AREA	75	70
COMMERCIAL AREA	65	55
RESIDENTIAL AREA	55	45
SILENCE ZONE	50	40
NOTE-1	Day time is reckoned in between 6 A.M., AND 10 P.M.,	
NOTE-2	Night time is reckoned in between 10 P.M., AND 6 A.M.	

—End of Test Report—

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[ULR NO: TC76492200002856F]

[FORMAT NO. SRL / FRM / 21]

AMBIENT NOISE MONITORING

Customer Name & Address	: M/s. Tata Power Limited P.O.: Rahargora, Jojobera Jamshedpur - 831016		
Sample Identification No.	: ANQ - 729 - 2022 TO ANQ - 744 - 2022		
Sampling Date	: 01.11.2022	Barometric Pressure	: 752 mm Hg.
Sample Receiving/Analysis Starting On	: 01.11.2022	Analysis Completed on	: 30.11.2022
RESULTS OF AMBIENT NOISE LEVEL MEASUREMENT			
[SRL/TPCL/ ANQ - 729 - 2022 TO ANQ - 744 - 2022 Dated: 30.11.2022]			

SAMPLE NO.	Monitoring Date	SAMPLING LOCATION	Leq dB(A) [Day Time]	Leq dB(A) [Night Time]
ANQ - 729 - 2022	01.11.2022	E.T.P Area	68.73	64.43
ANQ - 730 - 2022	01.11.2022	SSF Area	70.88	67.90
ANQ - 731 - 2022	01.11.2022	CHP Area	71.75	64.28
ANQ - 732 - 2022	01.11.2022	Ash Plant Area	71.72	68.01
ANQ - 733 - 2022	01.11.2022	Office Building	66.98	63.68
ANQ - 734 - 2022	01.11.2022	Near by Canteen	72.94	64.87
ANQ - 735 - 2022	01.11.2022	Security Gate	72.43	63.95
ANQ - 736 - 2022	01.11.2022	Near DG Room (DM Plant)	72.79	66.88
ANQ - 737 - 2022	01.11.2022	Gadra Collage	73.18	66.73
ANQ - 738 - 2022	01.11.2022	AVN School	72.9	61.99
ANQ - 739 - 2022	01.11.2022	Sharma School	73.11	63.34
ANQ - 740 - 2022	01.11.2022	Panchayat Bhavan	71.90	63.19
ANQ - 741 - 2022	01.11.2022	Govindpur Market	73.32	63.17
ANQ - 742 - 2022	01.11.2022	Basic School	72.96	64.19
ANQ - 743 - 2022	01.11.2022	Subhash Nagar	72.52	61.71
ANQ - 744 - 2022	01.11.2022	Post Office Gadra	70.41	61.03

NOISE : (AMBIENT STANDARDS)

CATEGORY OF AREA	Leq, Noise Levels dB(A)	
	DAY TIME	NIGHT TIME
INDUSTRIAL AREA	75	70
COMMERCIAL AREA	65	55
RESIDENTIAL AREA	55	45
SILENCE ZONE	50	40
NOTE-1	Day time is reckoned in between 6 A.M., AND 10 P.M.,	
NOTE-2	Night time is reckoned in between 10 P.M., AND 6 A.M.	

—End of Test Report—

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[ULR NO: TC764922000003216F]

[FORMAT NO. SRL / FRM / 21]

AMBIENT NOISE MONITORING

Customer Name & Address	: M/s. Tata Power Limited P.O.: Rahargora, Jojobera Jamshedpur - 831016		
Sample Identification No.	: ANQ - 811 - 2022 TO ANQ - 826 - 2022		
Sampling Date	: 02.12.2022	Barometric Pressure	: 752 mm Hg.
Sample Receiving/Analysis Starting On	: 02.12.2022	Analysis Completed on	: 14.12.2022
RESULTS OF AMBIENT NOISE LEVEL MEASUREMENT			
[SRL/TPCL/ ANQ - 811 - 2022 TO ANQ - 826 - 2022 Dated: 14.12.2022]			

SAMPLE .NO.	Monitoring Date	SAMPLING LOCATION	Leq dB(A) [Day Time]	Leq dB(A) [Night Time]
ANQ - 811 - 2022	02.12.2022	E.T.P Area	70.20	64.51
ANQ - 812 - 2022	02.12.2022	SSF Area	72.68	64.36
ANQ - 813 - 2022	02.12.2022	CHP Area	73.30	63.99
ANQ - 814 - 2022	02.12.2022	Ash Plant Area	72.33	63.47
ANQ - 815 - 2022	02.12.2022	Office Building	71.78	63.37
ANQ - 816 - 2022	02.12.2022	Near by Canteen	73.59	64.63
ANQ - 817 - 2022	02.12.2022	Security Gate	73.61	64.25
ANQ - 818 - 2022	02.12.2022	Near DG Room (DM Plant)	73.70	65.72
ANQ - 819 - 2022	02.12.2022	Gadra Collage	72.62	65.04
ANQ - 820 - 2022	02.12.2022	AVN School	74.29	63.48
ANQ - 821 - 2022	02.12.2022	Sharma School	71.03	63.91
ANQ - 822 - 2022	02.12.2022	Panchayat Bhavan	73.64	63.43
ANQ - 823 - 2022	02.12.2022	Govindpur Market	72.40	63.93
ANQ - 824 - 2022	02.12.2022	Basic School	74.24	64.20
ANQ - 825 - 2022	02.12.2022	Subhash Nagar	70.90	65.34
ANQ - 826 - 2022	02.12.2022	Post Office Gadra	71.65	65.16

NOISE : (AMBIENT STANDARDS)

CATEGORY OF AREA	Leq, Noise Levels dB(A)	
	DAY TIME	NIGHT TIME
INDUSTRIAL AREA	75	70
COMMERCIAL AREA	65	55
RESIDENTIAL AREA	55	45
SILENCE ZONE	50	40
NOTE-1	Day time is reckoned in between 6 A.M., AND 10 P.M.,	
NOTE-2	Night time is reckoned in between 10 P.M., AND 6 A.M.	

—End of Test Report—

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[ULR NO: TC764923000000168F]

[FORMAT NO. SRL / FRM / 21]

AMBIENT NOISE MONITORING

Customer Name & Address	: M/s. Tata Power Limited P.O.: Rahargora, Jojobera Jamshedpur - 831016		
Sample Identification No.	: ANQ - 032 - 2023 TO ANQ - 047 - 2023		
Sampling Date	: 16.01.2023	Barometric Pressure	: 748 mm Hg.
Sample Receiving/Analysis Starting On	: 16.01.2023	Analysis Completed on	: 30.01.2023
RESULTS OF AMBIENT NOISE LEVEL MEASUREMENT			
[SRL/TPCL/ ANQ - 032 - 2023 TO ANQ - 047 - 2023 Dated: 30.01.2023]			

SAMPLE .NO.	Monitoring Date	SAMPLING LOCATION	Leq dB(A) [Day Time]	Leq dB(A) [Night Time]
ANQ - 032 - 2023	16.01.2023	E.T.P Area	70.48	66.12
ANQ - 033 - 2023	16.01.2023	SSF Area	72.81	68.43
ANQ - 034 - 2023	16.01.2023	CHP Area	74.10	64.22
ANQ - 035 - 2023	16.01.2023	Ash Plant Area	71.86	63.56
ANQ - 036 - 2023	16.01.2023	Office Building	64.22	61.78
ANQ - 037 - 2023	16.01.2023	Near by Canteen	65.14	60.29
ANQ - 038 - 2023	16.01.2023	Security Gate	73.08	64.18
ANQ - 039 - 2023	16.01.2023	Near DG Room (DM Plant)	72.64	69.44
ANQ - 040 - 2023	16.01.2023	Gadra Collage	72.72	66.17
ANQ - 041 - 2023	16.01.2023	AVN School	71.42	63.92
ANQ - 042 - 2023	16.01.2023	Sharma School	71.44	65.30
ANQ - 043 - 2023	16.01.2023	Panchayat Bhavan	73.16	68.74
ANQ - 044 - 2023	16.01.2023	Govindpur Market	74.12	67.28
ANQ - 045 - 2023	16.01.2023	Basic School	71.18	65.24
ANQ - 046 - 2023	16.01.2023	Subhash Nagar	70.86	67.62
ANQ - 047 - 2023	16.01.2023	Post Office Gadra	72.98	65.23

NOISE : (AMBIENT STANDARDS)

CATEGORY OF AREA	Leq, Noise Levels dB(A)	
	DAY TIME	NIGHT TIME
INDUSTRIAL AREA	75	70
COMMERCIAL AREA	65	55
RESIDENTIAL AREA	55	45
SILENCE ZONE	50	40
NOTE-1	Day time is reckoned in between 6 A.M., AND 10 P.M.,	
NOTE-2	Night time is reckoned in between 10 P.M., AND 6 A.M.	

—End of Test Report—

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[ULR NO: TC76492300000384F]

[FORMAT NO. SRL / FRM / 21]

AMBIENT NOISE MONITORING

Customer Name & Address	: M/s. Tata Power Limited P.O.: Rahargora, Jojobera Jamshedpur - 831016		
Sample Identification No.	: ANQ - 153 - 2023 TO ANQ - 168 - 2023		
Sampling Date	: 13.02.2023	Barometric Pressure	: 749 mm Hg.
Sample Receiving/Analysis Starting On	: 13.02.2023	Analysis Completed on	: 20.02.2023
RESULTS OF AMBIENT NOISE LEVEL MEASUREMENT			
[SRL/TPCL/ ANQ - 153 - 2023 TO ANQ - 168 - 2023 Dated: 20.02.2023]			

SAMPLE NO.	Monitoring Date	SAMPLING LOCATION	Leq dB(A) [Day Time]	Leq dB(A) [Night Time]
ANQ - 153 - 2023	13.02.2023	E.T.P Area	70.32	66.42
ANQ - 154 - 2023	13.02.2023	SSF Area	70.74	67.51
ANQ - 155 - 2023	13.02.2023	CHP Area	74.47	67.11
ANQ - 156 - 2023	13.02.2023	Ash Plant Area	70.89	65.60
ANQ - 157 - 2023	13.02.2023	Office Building	65.21	62.63
ANQ - 158 - 2023	13.02.2023	Near by Canteen	65.95	61.17
ANQ - 159 - 2023	13.02.2023	Security Gate	65.69	61.60
ANQ - 160 - 2023	13.02.2023	Near DG Room (DM Plant)	73.00	70.32
ANQ - 161 - 2023	13.02.2023	Gadra Collage	71.04	65.84
ANQ - 162 - 2023	13.02.2023	AVN School	71.19	66.09
ANQ - 163 - 2023	13.02.2023	Sharma School	72.21	64.68
ANQ - 164 - 2023	13.02.2023	Panchayat Bhavan	71.33	67.52
ANQ - 165 - 2023	13.02.2023	Govindpur Market	72.91	67.92
ANQ - 166 - 2023	13.02.2023	Basic School	70.86	65.80
ANQ - 167 - 2023	13.02.2023	Subhash Nagar	71.13	66.77
ANQ - 168 - 2023	13.02.2023	Post Office Gadra	70.75	65.62

NOISE : (AMBIENT STANDARDS)

CATEGORY OF AREA	Leq, Noise Levels dB(A)	
	DAY TIME	NIGHT TIME
INDUSTRIAL AREA	75	70
COMMERCIAL AREA	65	55
RESIDENTIAL AREA	55	45
SILENCE ZONE	50	40
NOTE-1	Day time is reckoned in between 6 A.M., AND 10 P.M.,	
NOTE-2	Night time is reckoned in between 10 P.M., AND 6 A.M.	

—End of Test Report—

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TC-7649

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[ULR NO: TC76492300000679F]

[FORMAT NO. SRL / FRM / 21]

AMBIENT NOISE MONITORING

Customer Name & Address	: M/s. Tata Power Limited P.O.: Rahargora, Jojobera Jamshedpur - 831016		
Sample Identification No.	: ANQ - 233 - 2023 TO ANQ - 236 - 2023, ANQ - 246 - 2023 TO ANQ - 250 - 2023 & ANQ - 258 - 2023 TO ANQ - 264 - 2023		
Sampling Date	: 14.03.2023	Barometric Pressure	: 749 mm Hg.
Sample Receiving/Analysis Starting On	: 14.03.2023	Analysis Completed on	: 20.03.2023
RESULTS OF AMBIENT NOISE LEVEL MEASUREMENT			
[SRL/TPCL/ ANQ - 233 - 2023 TO ANQ - 236 - 2023, ANQ - 246 - 2023 TO ANQ - 250 - 2023 & ANQ - 258 - 2023 TO ANQ - 264 - 2023 Dated: 20.03.2023]			

SAMPLE .NO.	Monitoring Date	SAMPLING LOCATION	Leq dB(A) [Day Time]	Leq dB(A) [Night Time]
ANQ - 233 - 2023	14.03.2023	E.T.P Area	70.53	66.41
ANQ - 234 - 2023	14.03.2023	SSF Area	72.14	67.89
ANQ - 235 - 2023	14.03.2023	CHP Area	74.61	65.02
ANQ - 236 - 2023	14.03.2023	Ash Plant Area	71.42	63.59
ANQ - 246 - 2023	14.03.2023	Office Building	64.33	61.59
ANQ - 247 - 2023	14.03.2023	Near by Canteen	64.93	60.65
ANQ - 248 - 2023	14.03.2023	Security Gate	74.00	64.40
ANQ - 249 - 2023	14.03.2023	Near DG Room (DM Plant)	72.58	69.29
ANQ - 250 - 2023	14.03.2023	Gadra Collage	72.62	66.04
ANQ - 258 - 2023	14.03.2023	AVN School	71.68	63.59
ANQ - 259 - 2023	14.03.2023	Sharma School	71.86	63.07
ANQ - 260 - 2023	14.03.2023	Panchayat Bhavan	73.22	68.18
ANQ - 261 - 2023	14.03.2023	Govindpur Market	74.15	67.40
ANQ - 262 - 2023	14.03.2023	Basic School	71.26	65.45
ANQ - 263 - 2023	14.03.2023	Subhash Nagar	71.57	67.18
ANQ - 264 - 2023	14.03.2023	Post Office Gadra	72.27	65.72

NOISE : (AMBIENT STANDARDS)

CATEGORY OF AREA	Leq, Noise Levels dB(A)	
	DAY TIME	NIGHT TIME
INDUSTRIAL AREA	75	70
COMMERCIAL AREA	65	55
RESIDENTIAL AREA	55	45
SILENCE ZONE	50	40
NOTE-1	Day time is reckoned in between 6 A.M., AND 10 P.M.,	
NOTE-2	Night time is reckoned in between 10 P.M., AND 6 A.M.	

—End of Test Report—

1 of 1

Gautam Chowdhury
(Authorized Signatory)

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- The test report shall not be reproduced, except in full, without written approval of the company.
- Results relate only to the parameters tested.
- No Repeat Analysis will be entertained after 15 days from the date of reporting.
- All relevant information of customers regarding testing are treated as "Confidential".

Ambient Air Quality Report (Oct'22 to Mar'23)												
Location: 1	Clarified water Pump House (Near CLPH U5)											
Parameters	Sox	Nox	PM10	PM2.5	O3	Pb	CO	NH3	C6H6	BAP	As	Ni
Unit	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³
Yearly Limit	50	40	60	40	100	0.5	2	100	5	1	6	20
Daily Limit	80	80	100	60	180	1	4	400				
Date of Monitoring												
26.09.2022 TO 27.09.2022	13.10	26.29	51	22	16.07	0.08	0.468	22.02	1.32	0.28	0.69	7.90
29.09.2022 TO 30.09.2022	12.86	24.45	46	19	16.07	0.07	0.492	24.22	1.30	0.25	0.52	6.92
03.10.2022 TO 04.10.2022	14.66	26.77	36	16	19.64	0.06	0.448	29.73	1.28	0.24	0.48	6.07
06.10.2022 TO 07.10.2022	10.57	26.54	25	11	16.96	0.05	0.458	25.33	1.34	0.20	0.37	5.86
10.10.2022 TO 11.10.2022	12.85	27.14	55	28	16.96	0.09	0.464	27.53	1.36	0.32	0.72	8.17
13.10.2022 TO 14.10.2022	12.69	26.80	79	36	17.85	0.05	0.472	27.53	1.52	0.04	1.07	8.74
17.10.2022 TO 18.10.2022	6.69	27.89	48	23	16.96	0.05	0.458	28.63	1.40	0.02	0.66	7.08
20.10.2022 TO 21.10.2022	13.00	27.98	50	20	20.53	0.06	0.462	26.43	1.38	0.03	0.70	7.53
24.10.2022 TO 25.10.2022	18.62	28.05	56	20	16.07	0.09	0.474	28.63	1.42	0.03	0.79	8.46
27.10.2022 TO 28.10.2022	13.02	24.50	42	29	16.05	0.05	0.484	28.60	1.03	0.18	0.95	5.71
31.10.2022 TO 01.11.2022	16.16	26.87	89	42	20.53	0.19	0.468	28.63	1.68	0.51	1.55	13.18
03.11.2022 TO 04.11.2022	14.08	22.50	46	24	18.86	0.07	0.496	29.91	1.08	0.20	1.02	7.24
07.11.2022 TO 08.11.2022	11.55	26.41	76	36	19.62	0.15	0.482	26.40	1.57	0.43	1.42	12.36
10.11.2022 TO 11.11.2022	13.14	24.75	52	29	19.64	0.09	0.488	29.73	1.15	0.23	1.07	8.49
14.11.2022 TO 15.11.2022	14.58	21.86	70	36	23.35	0.12	0.492	26.59	1.14	0.37	1.36	11.02
17.11.2022 TO 18.11.2022	13.21	25.59	43	25	20.66	0.07	0.476	26.59	1.06	0.19	0.99	6.04
21.11.2022 TO 22.11.2022	12.69	29.80	45	25	21.43	0.08	0.464	28.63	1.09	0.21	1.04	6.53
24.11.2022 TO 25.11.2022	13.85	23.10	52	26	20.66	0.10	0.482	24.37	1.20	0.25	1.12	8.98
28.11.2022 TO 29.11.2022	12.44	23.52	40	27	19.62	0.06	0.464	26.40	1.25	0.21	1.14	6.54
01.12.2022 TO 02.12.2022	14.45	25.83	87	40	21.43	0.19	0.482	29.73	1.92	0.54	1.81	15.33
05.12.2022 TO 06.12.2022	13.34	26.30	46	22	19.76	0.08	0.468	29.91	1.39	0.26	1.22	6.97
08.12.2022 TO 09.12.2022	12.42	25.36	76	35	21.40	0.17	0.484	26.40	1.85	0.45	1.69	13.79
12.12.2022 TO 13.12.2022	14.45	23.75	51	29	23.21	0.09	0.456	29.73	1.46	0.31	1.30	8.48
15.12.2022 TO 16.12.2022	13.60	21.76	71	35	23.35	0.15	0.464	26.59	1.80	0.42	1.66	12.37
19.12.2022 TO 20.12.2022	13.82	24.94	42	24	20.66	0.07	0.472	26.59	1.31	0.25	1.15	6.39
22.12.2022 TO 23.12.2022	11.98	24.94	40	25	21.43	0.06	0.460	28.63	1.28	0.23	1.10	6.11
26.12.2022 TO 27.12.2022	19.84	25.61	63	31	25.92	0.11	0.468	26.87	1.65	0.35	1.48	12.96
29.12.2022 TO 30.12.2022	19.46	26.04	46	27	28.34	0.06	0.572	22.32	1.32	0.22	1.14	5.87
02.01.2023 TO 03.01.2023	20.23	22.62	89	43	25.92	0.13	0.456	26.32	1.79	0.37	1.57	15.04
05.01.2023 TO 06.01.2023	18.86	25.24	49	29	23.49	0.14	0.362	29.04	1.82	0.40	1.64	15.38
09.01.2023 TO 10.01.2023	19.23	25.74	71	49	29.96	0.16	0.480	30.40	1.89	0.23	1.80	12.59
12.01.2023 TO 13.01.2023	16.07	24.20	70	38	27.54	0.15	0.374	24.97	1.85	0.41	1.67	15.69
16.01.2023 TO 17.01.2023	15.43	24.61	49	26	29.15	0.07	0.464	21.05	1.41	0.25	1.23	7.26
19.01.2023 TO 20.01.2023	15.57	24.83	79	40	27.54	0.07	0.372	27.32	1.46	0.27	1.34	11.73
23.01.2023 TO 24.01.2023	15.61	25.81	47	26	27.54	0.06	0.458	29.32	1.38	0.24	1.20	6.28
26.01.2023 TO 27.01.2023	19.52	28.21	66	39	25.50	0.06	0.486	26.43	1.68	0.44	1.38	6.24
30.01.2023 TO 31.01.2023	20.59	30.02	96	55	27.89	0.10	0.480	25.64	1.74	0.40	1.74	7.18
02.02.2023 TO 03.02.2023	19.95	28.33	71	37	25.50	0.09	0.472	26.17	1.72	0.42	1.68	8.34
06.02.2023 TO 07.02.2023	20.20	43.45	86	42	25.50	0.08	0.475	28.02	1.52	0.40	1.52	5.62
09.02.2023 TO 10.02.2023	19.72	28.29	68	37	29.49	0.08	0.480	26.17	1.34	0.38	1.42	5.86
13.02.2023 TO 14.02.2023	20.96	31.56	64	35	27.09	0.07	0.476	25.90	1.36	0.32	1.38	6.04
16.02.2023 TO 17.02.2023	19.38	28.21	92	44	28.69	0.07	0.484	26.57	1.52	0.46	1.64	8.74
20.02.2023 TO 21.02.2023	20.50	30.10	63	35	27.09	0.06	0.482	25.90	1.38	0.38	1.36	5.22
23.02.2023 TO 24.02.2023	19.51	28.90	76	36	28.69	0.05	0.474	27.23	1.24	0.34	1.28	5.34
27.02.2023 TO 28.02.2023	19.94	32.89	62	34	30.21	0.08	0.468	28.77	1.70	0.38	1.48	8.42
02.03.2023 TO 03.03.2023	20.94	30.57	90	47	31.03	0.14	0.472	27.68	1.78	0.41	1.55	10.79
06.03.2023 TO 07.03.2023	22.03	34.11	78	42	28.58	0.10	0.452	29.85	1.64	0.35	1.39	7.59
09.03.2023 TO 10.03.2023	21.36	29.83	85	43	30.21	0.12	0.488	28.50	1.57	0.34	1.34	6.82
13.02.2023 TO 14.02.2023	23.07	26.78	71	34	31.84	0.10	0.474	27.41	1.82	0.42	1.60	10.95
16.03.2023 TO 17.03.2023	21.60	32.53	67	30	31.03	0.09	0.462	28.09	1.74	0.40	1.53	9.88
20.03.2023 TO 21.03.2023	21.82	28.90	43	21	27.70	0.06	0.454	27.68	1.61	0.36	1.37	7.14
23.03.2023 TO 24.03.2023	22.49	35.35	60	31	30.21	0.07	0.468	26.87	1.67	0.37	1.45	7.85
MIN	6.69	21.76	25	11	16.05	0.05	0.36	21.05	1.03	0.02	0.37	5.22
MAX	23.07	43.45	96	55	31.84	0.19	0.57	30.40	1.92	0.54	1.81	15.69
AVG	16.49	27.24	62	32	23.85	0.09	0.47	27.19	1.48	0.31	1.26	8.71

Ambient Air Quality Report (Oct'22 to Mar'23)

Ambient Air Quality Report (Oct'22 to Mar'23)												
Location: 2	Behind Middling Coal Shed											
Parameters	Sox	Nox	PM10	PM2.5	O3	Pb	CO	NH3	C6H6	BAP	As	Ni
Unit	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³
Yearly Limit	50	40	60	40	100	0.5	2	100	5	1	6	20
Daily Limit	80	80	100	60	180	1	4	400				
Date of Monitoring												
26.09.2022 TO 27.09.2022	11.89	26.97	47	20	15.27	0.06	0.452	24.37	1.37	0.27	0.68	6.13
29.09.2022 TO 30.09.2022	11.91	26.13	55	23	17.07	0.07	0.464	26.59	1.40	0.30	0.82	7.05
03.10.2022 TO 04.10.2022	12.51	26.97	41	19	18.86	0.05	0.450	29.91	1.25	0.21	0.50	5.89
06.10.2022 TO 07.10.2022	11.37	25.80	51	17	19.76	0.07	0.462	28.80	1.31	0.25	0.89	6.09
10.10.2022 TO 11.10.2022	12.43	26.80	56	22	16.17	0.08	0.470	28.80	1.46	0.29	0.94	6.50
13.10.2022 TO 14.10.2022	11.99	27.20	63	29	17.96	0.10	0.462	28.80	1.54	0.33	1.02	7.70
17.10.2022 TO 18.10.2022	12.63	25.80	50	22	16.17	0.09	0.474	29.91	1.35	0.28	0.49	6.06
20.10.2022 TO 21.10.2022	13.85	28.05	49	22	17.07	0.07	0.472	28.80	1.39	0.22	0.45	6.21
24.10.2022 TO 25.10.2022	13.40	27.14	47	20	17.07	0.06	0.458	29.91	1.33	0.23	0.42	6.15
27.10.2022 TO 28.10.2022	14.33	26.37	45	24	17.85	0.06	0.464	30.83	0.98	0.19	0.86	6.24
31.10.2022 TO 01.11.2022	16.24	24.18	80	37	19.76	0.16	0.458	28.80	1.59	0.41	1.47	11.83
03.11.2022 TO 04.11.2022	13.23	23.76	47	24	21.56	0.07	0.463	28.80	1.05	0.20	0.97	6.48
07.11.2022 TO 08.11.2022	16.06	24.37	71	37	20.53	0.14	0.475	27.53	1.42	0.34	1.30	10.47
10.11.2022 TO 11.11.2022	11.92	21.77	52	24	21.56	0.10	0.462	27.70	1.13	0.22	1.01	7.09
14.11.2022 TO 15.11.2022	13.58	22.95	48	23	21.56	0.07	0.455	28.80	1.09	0.21	0.96	6.92
17.11.2022 TO 18.11.2022	12.53	26.53	65	36	19.62	0.12	0.448	26.40	1.27	0.26	1.15	8.70
21.11.2022 TO 22.11.2022	16.33	27.94	42	24	20.66	0.05	0.462	27.70	0.92	0.15	0.80	5.59
24.11.2022 TO 25.11.2022	13.01	23.72	53	25	21.56	0.09	0.452	25.48	1.17	0.23	1.04	7.31
28.11.2022 TO 29.11.2022	13.47	26.55	45	23	20.53	0.06	0.452	28.63	1.30	0.27	1.15	7.19
01.12.2022 TO 02.12.2022	15.64	23.95	78	37	22.45	0.17	0.468	28.80	1.88	0.50	1.74	13.42
05.12.2022 TO 06.12.2022	13.55	22.83	46	23	23.35	0.06	0.478	29.91	1.33	0.29	1.19	8.23
08.12.2022 TO 09.12.2022	15.36	22.60	71	36	19.64	0.15	0.484	27.53	1.81	0.45	1.68	11.86
12.12.2022 TO 13.12.2022	12.88	22.54	51	24	21.56	0.08	0.482	27.70	1.41	0.32	1.28	9.95
15.12.2022 TO 16.12.2022	14.62	22.16	50	21	21.56	0.07	0.474	28.80	1.38	0.30	1.21	9.04
19.12.2022 TO 20.12.2022	12.07	25.61	64	35	19.62	0.12	0.464	26.40	1.63	0.39	1.49	8.21
22.12.2022 TO 23.12.2022	15.79	25.61	43	28	20.66	0.06	0.462	27.70	1.23	0.22	1.14	7.95
26.12.2022 TO 27.12.2022	20.83	29.62	64	30	24.35	0.11	0.462	27.41	1.67	0.36	1.49	13.01
29.12.2022 TO 30.12.2022	18.75	35.41	71	39	29.21	0.08	0.372	25.24	1.49	0.30	1.51	8.12
02.01.2023 TO 03.01.2023	19.65	23.86	52	30	24.21	0.15	0.432	26.32	1.93	0.44	1.75	16.78
05.01.2023 TO 06.01.2023	18.29	34.79	64	34	26.78	0.12	0.372	28.32	1.70	0.34	1.47	13.08
09.01.2023 TO 10.01.2023	16.36	24.63	85	42	23.21	0.13	0.452	26.32	1.74	0.38	1.53	13.71
12.01.2023 TO 13.01.2023	14.48	30.45	62	36	27.59	0.10	0.342	27.68	1.63	0.35	1.42	12.55
16.01.2023 TO 17.01.2023	16.55	25.85	45	26	29.59	0.09	0.472	26.60	1.56	0.33	1.37	9.72
19.01.2023 TO 20.01.2023	16.23	27.35	54	31	26.21	0.09	0.560	22.87	1.52	0.31	1.33	9.11
23.01.2023 TO 24.01.2023	16.40	24.69	44	28	28.21	0.05	0.452	26.32	1.26	0.21	1.48	5.45
26.01.2023 TO 27.01.2023	20.44	29.59	67	36	26.30	0.08	0.438	26.70	1.36	0.38	1.18	6.24
30.01.2023 TO 31.01.2023	19.96	32.16	66	31	28.69	0.07	0.464	24.58	1.42	0.41	1.34	5.98
02.02.2023 TO 03.02.2023	20.94	29.63	99	49	28.69	0.08	0.458	25.64	1.38	0.34	1.28	6.48
06.02.2023 TO 07.02.2023	19.77	29.78	70	34	26.30	0.10	0.452	26.96	1.42	0.40	1.36	6.58
09.02.2023 TO 10.02.2023	21.20	29.03	69	37	28.69	0.09	0.438	26.43	1.24	0.32	1.22	6.47
13.02.2023 TO 14.02.2023	19.73	29.46	96	47	27.09	0.07	0.446	26.83	1.22	0.34	1.24	6.92
16.02.2023 TO 17.02.2023	20.01	29.64	64	36	27.09	0.06	0.464	26.83	1.27	0.30	1.18	6.88
20.02.2023 TO 21.02.2023	20.92	31.25	64	35	28.69	0.06	0.452	26.96	1.18	0.32	1.30	5.59
23.02.2023 TO 24.02.2023	19.37	29.65	88	45	27.09	0.06	0.438	27.36	1.24	0.36	1.14	7.31
27.02.2023 TO 28.02.2023	19.56	33.39	70	33	27.20	0.09	0.462	27.14	1.72	0.37	1.50	9.39
02.03.2023 TO 03.03.2023	21.89	32.97	79	42	29.96	0.08	0.482	28.36	1.69	0.36	1.46	8.63
06.03.2023 TO 07.03.2023	23.07	30.88	92	52	29.60	0.11	0.474	27.41	1.85	0.43	1.68	11.06
09.03.2023 TO 10.03.2023	22.76	29.51	84	49	30.77	0.10	0.462	29.17	1.80	0.41	1.57	10.83
13.02.2023 TO 14.02.2023	24.53	35.76	70	38	29.96	0.09	0.458	28.77	1.71	0.37	1.49	9.17
16.03.2023 TO 17.03.2023	20.64	28.67	72	39	29.15	0.07	0.452	27.27	1.65	0.35	1.43	7.97
20.03.2023 TO 21.03.2023	21.16	29.09	45	25	32.39	0.10	0.460	28.77	1.76	0.39	1.54	10.46
23.03.2023 TO 24.03.2023	19.73	32.54	80	42	30.77	0.06	0.464	29.04	1.52	0.31	1.30	6.18
MIN	11.37	21.77	41	17	15.27	0.05	0.34	22.87	0.92	0.15	0.42	5.45
MAX	24.53	35.76	99	52	32.39	0.17	0.56	30.83	1.93	0.50	1.75	16.78
AVG	16.65	27.58	62	32	23.79	0.09	0.46	27.59	1.44	0.32	1.22	8.42

Ambient Air Quality Report (Oct'22 to Mar'23)

Location : 3												
Near Unit 5 Cooling Tower												
Parameters	Sox	Nox	PM10	PM2.5	O3	Pb	CO	NH3	C6H6	BAP	As	Ni
Unit	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³	µg/m³	ng/m³	ng/m³	ng/m³
Yearly Limit	50	40	60	40	100	0.5	2	100	5	1	6	20
Daily Limit	80	80	100	60	180	1	4	400				
Date of Monitoring												
26.09.2022 TO 27.09.2022	11.74	24.41	52	23	17.07	0.10	0.438	28.80	1.41	0.33	0.79	6.47
29.09.2022 TO 30.09.2022	12.80	26.60	51	21	17.96	0.11	0.454	27.70	1.38	0.35	0.74	6.11
03.10.2022 TO 04.10.2022	12.87	26.74	46	24	17.96	0.07	0.442	26.59	1.32	0.26	0.47	5.90
06.10.2022 TO 07.10.2022	12.20	25.36	49	19	18.86	0.10	0.436	29.91	1.36	0.30	0.52	6.04
10.10.2022 TO 11.10.2022	12.35	25.68	63	24	17.07	0.12	0.458	29.91	1.49	0.39	1.04	8.27
13.10.2022 TO 14.10.2022	12.30	25.57	76	28	18.86	0.13	0.452	28.80	1.68	0.42	1.17	9.96
17.10.2022 TO 18.10.2022	13.18	26.48	42	19	18.86	0.08	0.444	28.80	1.26	0.25	0.44	5.97
20.10.2022 TO 21.10.2022	10.69	27.30	52	21	17.07	0.10	0.468	26.59	1.35	0.32	0.56	6.23
24.10.2022 TO 25.10.2022	11.85	27.93	44	18	17.96	0.09	0.456	24.37	1.29	0.27	0.46	6.07
27.10.2022 TO 28.10.2022	11.29	26.41	43	23	19.76	0.05	0.452	28.80	0.99	0.16	0.87	5.60
31.10.2022 TO 01.11.2022	14.11	23.71	58	30	21.56	0.13	0.462	29.91	1.36	0.30	1.27	9.17
03.11.2022 TO 04.11.2022	13.66	25.35	44	26	19.62	0.05	0.472	26.40	1.07	0.18	0.96	5.91
07.11.2022 TO 08.11.2022	16.64	25.72	71	37	18.73	0.16	0.466	28.60	1.51	0.39	1.40	11.35
10.11.2022 TO 11.11.2022	14.64	21.72	50	27	17.96	0.09	0.458	28.80	1.24	0.21	1.15	6.96
14.11.2022 TO 15.11.2022	11.83	26.72	65	33	20.51	0.14	0.468	26.40	1.40	0.32	1.31	10.41
17.11.2022 TO 18.11.2022	15.49	24.89	53	26	16.96	0.11	0.476	28.63	1.29	0.23	1.17	7.32
21.11.2022 TO 22.11.2022	16.60	29.50	55	29	21.56	0.11	0.482	26.59	1.33	0.26	1.21	7.78
24.11.2022 TO 25.11.2022	15.67	22.58	45	22	19.62	0.08	0.470	26.40	1.11	0.17	1.03	6.08
28.11.2022 TO 29.11.2022	12.63	26.71	42	22	22.45	0.06	0.452	29.91	1.22	0.20	1.09	7.18
01.12.2022 TO 02.12.2022	13.55	24.21	57	28	23.35	0.11	0.484	29.91	1.58	0.40	1.42	9.82
05.12.2022 TO 06.12.2022	12.88	26.77	42	26	21.40	0.06	0.462	28.60	1.27	0.23	1.11	7.67
08.12.2022 TO 09.12.2022	16.56	24.89	73	38	21.40	0.16	0.480	28.60	1.83	0.47	1.64	10.28
12.12.2022 TO 13.12.2022	13.49	22.04	48	27	23.35	0.08	0.448	28.80	1.37	0.28	1.25	8.20
15.12.2022 TO 16.12.2022	12.63	24.41	64	33	20.51	0.13	0.468	26.40	1.64	0.43	1.50	9.52
19.12.2022 TO 20.12.2022	16.24	23.72	51	26	21.43	0.09	0.436	28.63	1.43	0.32	1.27	8.62
22.12.2022 TO 23.12.2022	15.33	23.72	53	29	21.56	0.10	0.442	26.59	1.50	0.36	1.35	8.12
26.12.2022 TO 27.12.2022	20.70	24.94	58	30	22.86	0.10	0.464	26.32	1.57	0.35	1.38	10.54
29.12.2022 TO 30.12.2022	19.65	26.30	56	25	27.76	0.09	0.482	28.77	1.54	0.32	1.32	9.94
02.01.2023 TO 03.01.2023	20.90	25.54	78	44	31.76	0.18	0.568	26.87	2.03	0.48	1.88	14.11
05.01.2023 TO 06.01.2023	18.94	25.36	61	36	27.76	0.10	0.471	29.32	1.61	0.37	1.40	12.88
09.01.2023 TO 10.01.2023	14.40	25.31	82	46	26.76	0.15	0.363	26.32	1.96	0.45	1.77	15.29
12.01.2023 TO 13.01.2023	15.30	24.40	59	33	22.76	0.10	0.452	22.32	1.59	0.36	1.35	10.31
16.01.2023 TO 17.01.2023	16.75	24.54	43	25	26.94	0.09	0.538	26.32	1.51	0.30	1.28	8.47
19.01.2023 TO 20.01.2023	15.70	24.32	49	26	27.76	0.07	0.454	25.24	1.43	0.25	1.52	7.09
23.01.2023 TO 24.01.2023	16.84	25.59	53	31	26.94	0.09	0.460	24.15	1.49	0.28	1.25	11.76
26.01.2023 TO 27.01.2023	18.69	30.03	62	33	25.50	0.06	0.468	26.17	1.32	0.30	1.18	6.58
30.01.2023 TO 31.01.2023	20.84	28.06	98	46	27.09	0.08	0.454	28.02	1.54	0.34	1.24	6.12
02.02.2023 TO 03.02.2023	19.72	27.81	67	39	24.09	0.06	0.472	26.30	1.48	0.36	1.22	6.55
06.02.2023 TO 07.02.2023	19.49	35.54	73	43	27.09	0.09	0.462	28.70	1.70	0.47	1.62	8.18
09.02.2023 TO 10.02.2023	19.85	27.04	90	45	26.09	0.05	0.452	26.17	1.22	0.34	1.30	5.98
13.02.2023 TO 14.02.2023	22.97	29.58	61	34	27.09	0.06	0.458	26.17	1.46	0.40	1.32	6.28
16.02.2023 TO 17.02.2023	23.11	29.00	74	40	25.30	0.09	0.478	26.96	1.64	0.44	1.52	8.54
20.02.2023 TO 21.02.2023	22.26	32.78	93	47	26.30	0.09	0.468	27.23	1.68	0.46	1.48	8.16
23.02.2023 TO 24.02.2023	21.98	29.51	56	33	26.30	0.06	0.436	26.70	1.46	0.32	1.12	5.64
27.02.2023 TO 28.02.2023	20.26	31.48	75	36	33.94	0.16	0.482	28.09	1.88	0.46	1.65	12.53
02.03.2023 TO 03.03.2023	21.36	29.36	82	42	30.71	0.14	0.478	29.72	1.83	0.44	1.59	11.78
06.03.2023 TO 07.03.2023	21.16	31.40	68	34	31.52	0.10	0.454	28.22	1.73	0.38	1.51	10.05
09.03.2023 TO 10.03.2023	23.23	32.75	75	35	32.33	0.08	0.460	29.17	1.61	0.34	1.38	9.04
13.02.2023 TO 14.02.2023	21.82	29.36	66	28	29.10	0.09	0.456	27.14	1.68	0.36	1.43	9.88
16.03.2023 TO 17.03.2023	22.28	30.15	83	46	30.71	0.06	0.470	29.45	1.48	0.30	1.25	6.56
20.03.2023 TO 21.03.2023	20.89	28.67	44	22	31.52	0.09	0.448	28.77	1.64	0.35	1.41	9.52
23.03.2023 TO 24.03.2023	21.63	30.40	79	41	29.90	0.05	0.450	29.04	1.43	0.26	1.18	5.49
MIN	10.69	21.72	42	18	16.96	0.05	0.36	22.32	0.99	0.16	0.44	5.49
MAX	23.23	35.54	98	47	33.94	0.18	0.57	29.91	2.03	0.48	1.88	15.29
AVG	16.81	26.89	61	31	23.83	0.10	0.46	27.64	1.48	0.33	1.23	8.43

Ambient Air Quality Report (Oct'22 to Mar'23)

Location : 4												
Near Wagon Tippler												
Parameters	Sox	Nox	PM10	PM2.5	O3	Pb	CO	NH3	C6H6	BAP	As	Ni
Unit	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³
Yearly Limit	50	40	60	40	100	0.5	2	100	5	1	6	20
Daily Limit	80	80	100	60	180	1	4	400				
Date of Monitoring												
26.09.2022 TO 27.09.2022	11.96	24.43	48	20	17.84	0.08	0.454	28.60	1.43	0.32	0.62	6.56
29.09.2022 TO 30.09.2022	12.72	25.98	49	21	16.05	0.09	0.446	28.60	1.48	0.36	0.70	5.82
03.10.2022 TO 04.10.2022	13.41	27.39	42	17	17.84	0.05	0.452	24.20	1.36	0.29	0.47	5.61
06.10.2022 TO 07.10.2022	13.37	27.31	46	21	19.62	0.07	0.448	28.60	1.40	0.33	0.58	6.31
10.10.2022 TO 11.10.2022	12.85	26.24	72	30	19.62	0.14	0.438	27.50	1.61	0.41	1.01	9.96
13.10.2022 TO 14.10.2022	13.41	27.38	62	28	19.62	0.13	0.454	29.70	1.55	0.39	0.95	9.02
17.10.2022 TO 18.10.2022	13.31	25.82	48	20	19.62	0.08	0.458	24.20	1.45	0.32	0.64	5.98
20.10.2022 TO 21.10.2022	11.53	23.56	49	22	17.84	0.09	0.470	27.50	1.50	0.35	0.77	6.96
24.10.2022 TO 25.10.2022	11.53	23.55	43	17	16.94	0.06	0.438	26.40	1.38	0.30	0.49	5.54
27.10.2022 TO 28.10.2022	16.56	24.46	47	25	21.56	0.07	0.468	28.80	1.06	0.19	0.91	6.97
31.10.2022 TO 01.11.2022	18.17	26.43	69	36	19.62	0.13	0.472	28.60	1.43	0.35	1.31	10.16
03.11.2022 TO 04.11.2022	15.42	22.42	42	24	20.53	0.06	0.462	28.63	0.90	0.15	0.82	5.63
07.11.2022 TO 08.11.2022	14.76	26.62	80	43	17.85	0.17	0.464	27.53	1.53	0.44	1.45	11.39
10.11.2022 TO 11.11.2022	16.45	23.80	46	26	20.51	0.08	0.458	29.70	1.02	0.18	0.95	6.72
14.11.2022 TO 15.11.2022	14.63	26.85	68	33	21.43	0.14	0.463	28.63	1.38	0.28	1.26	9.38
17.11.2022 TO 18.11.2022	13.61	25.02	50	26	17.84	0.09	0.457	25.30	1.16	0.21	1.07	7.19
21.11.2022 TO 22.11.2022	15.78	29.68	62	30	19.62	0.12	0.456	28.60	1.25	0.23	1.12	8.55
24.11.2022 TO 25.11.2022	13.93	23.24	41	22	23.21	0.05	0.448	28.63	0.94	0.17	0.85	5.48
28.11.2022 TO 29.11.2022	15.77	25.30	47	24	21.56	0.08	0.452	27.70	1.34	0.33	1.19	7.54
01.12.2022 TO 02.12.2022	17.48	25.83	70	35	21.40	0.16	0.478	29.70	1.78	0.43	1.58	10.91
05.12.2022 TO 06.12.2022	15.36	23.98	42	24	20.53	0.06	0.454	28.63	1.18	0.22	1.05	5.82
08.12.2022 TO 09.12.2022	15.36	23.75	78	41	21.43	0.18	0.438	27.53	1.84	0.48	1.71	12.03
12.12.2022 TO 13.12.2022	16.22	24.13	47	24	22.30	0.07	0.464	29.70	1.27	0.24	1.13	7.05
15.12.2022 TO 16.12.2022	14.42	24.84	69	33	21.43	0.14	0.454	28.63	1.67	0.41	1.51	10.42
19.12.2022 TO 20.12.2022	12.61	25.30	48	27	19.62	0.07	0.470	27.50	1.32	0.28	1.17	7.89
22.12.2022 TO 23.12.2022	15.77	25.30	60	28	23.19	0.01	0.446	28.60	1.49	0.37	1.33	9.77
26.12.2022 TO 27.12.2022	21.89	26.75	60	28	23.44	0.10	0.470	26.32	1.62	0.34	1.45	12.51
29.12.2022 TO 30.12.2022	18.77	30.44	70	35	29.10	0.08	0.454	22.32	1.40	0.24	1.18	8.29
02.01.2023 TO 03.01.2023	20.29	24.76	73	38	27.48	0.16	0.364	24.97	1.88	0.42	1.71	17.05
05.01.2023 TO 06.01.2023	17.88	34.24	69	35	27.48	0.14	0.438	28.15	1.80	0.39	1.59	14.10
09.01.2023 TO 10.01.2023	16.20	24.40	48	26	29.10	0.13	0.442	26.05	1.75	0.36	1.53	13.98
12.01.2023 TO 13.01.2023	14.90	25.38	57	31	24.25	0.16	0.358	22.32	1.55	0.33	1.32	9.79
16.01.2023 TO 17.01.2023	18.18	29.55	57	31	27.48	0.10	0.462	26.32	1.58	0.35	1.36	10.08
19.01.2023 TO 20.01.2023	16.68	25.35	50	27	29.10	0.08	0.470	25.32	1.47	0.29	1.24	8.43
23.01.2023 TO 24.01.2023	17.67	24.57	65	33	27.48	0.11	0.462	28.32	1.44	0.27	1.21	8.91
26.01.2023 TO 27.01.2023	20.06	30.21	66	36	24.70	0.06	0.462	26.57	1.34	0.34	1.28	6.42
30.01.2023 TO 31.01.2023	18.85	37.45	94	45	28.69	0.10	0.492	25.77	1.48	0.48	1.56	8.24
02.02.2023 TO 03.02.2023	19.94	27.47	71	34	27.09	0.09	0.474	26.04	1.54	0.24	1.52	7.96
06.02.2023 TO 07.02.2023	18.61	39.25	66	38	27.09	0.07	0.458	26.57	1.36	0.14	1.32	6.22
09.02.2023 TO 10.02.2023	20.14	38.51	59	31	28.69	0.06	0.464	26.43	1.28	0.34	1.22	5.34
13.02.2023 TO 14.02.2023	20.82	27.22	94	47	24.70	0.10	0.482	25.90	1.58	0.44	1.30	8.64
16.02.2023 TO 17.02.2023	20.77	28.12	68	34	27.09	0.08	0.474	26.17	1.40	0.38	1.34	6.42
20.02.2023 TO 21.02.2023	21.29	32.83	70	33	26.30	0.08	0.488	26.70	1.38	0.34	1.42	6.54
23.02.2023 TO 24.02.2023	20.85	28.72	99	45	25.50	0.08	0.468	26.83	1.42	0.32	1.36	6.74
27.02.2023 TO 28.02.2023	20.21	31.89	72	35	29.01	0.13	0.434	26.87	1.75	0.43	1.54	11.01
02.03.2023 TO 03.03.2023	20.27	30.05	79	38	29.60	0.11	0.452	27.14	1.69	0.38	1.47	10.24
06.03.2023 TO 07.03.2023	20.71	30.48	67	31	30.62	0.09	0.438	26.32	1.65	0.35	1.42	9.52
09.03.2023 TO 10.03.2023	21.06	29.31	81	42	31.20	0.08	0.450	27.95	1.59	0.31	1.35	8.77
13.02.2023 TO 14.02.2023	22.31	32.57	62	32	30.40	0.10	0.448	28.90	1.67	0.37	1.44	9.96
16.03.2023 TO 17.03.2023	22.49	29.46	69	36	30.40	0.08	0.446	27.82	1.63	0.33	1.40	8.96
20.03.2023 TO 21.03.2023	20.15	28.23	50	27	31.20	0.12	0.428	28.22	1.72	0.41	1.49	10.59
23.03.2023 TO 24.03.2023	21.13	30.62	86	43	31.20	0.05	0.436	29.17	1.46	0.28	1.21	5.94
MIN	11.53	22.42	41	17	16.05	0.01	0.36	22.32	0.90	0.14	0.47	5.34
MAX	22.49	39.25	99	47	31.20	0.18	0.49	29.70	1.88	0.48	1.71	17.05
AVG	17.09	27.62	62	31	23.98	0.10	0.45	27.25	1.47	0.32	1.21	8.56

Ambient Air Quality Report (Oct'22 to Mar'23)

Ambient Air Quality Report (Oct'22 to Mar'23)												
Location : 5	Near Ash Pond											
Parameters	Sox	Nox	PM10	PM2.5	O3	Pb	CO	NH3	C6H6	BAP	As	NI
Unit	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³
Yearly Limit	50	40	60	40	100	0.5	2	100	5	1	6	20
Daily Limit	80	80	100	60	180	1	4	400				
Date of Monitoring												
27.09.2022 TO 28.09.2022	12.34	26.54	51	21	16.05	0.09	0.48	26.40	1.42	0.31	0.68	6.78
01.10.2022 TO 02.10.2022	12.71	27.30	53	24	16.05	0.11	0.47	28.60	1.52	0.37	0.79	7.22
04.10.2022 TO 05.10.2022	13.19	27.85	46	19	17.84	0.08	0.48	27.50	1.34	0.25	0.57	6.27
08.10.2022 TO 09.10.2022	13.74	29.92	41	17	17.84	0.06	0.47	26.40	1.26	0.20	0.42	5.45
11.10.2022 TO 12.10.2022	13.78	29.09	50	17	16.94	0.10	0.48	27.50	1.40	0.28	0.60	6.67
15.10.2022 TO 16.10.2022	13.19	28.73	52	20	17.84	0.11	0.49	24.20	1.48	0.33	0.72	6.51
18.10.2022 TO 19.10.2022	12.51	27.38	51	21	17.84	0.09	0.49	26.40	1.45	0.30	0.64	6.35
22.10.2022 TO 23.10.2022	11.95	26.75	44	21	16.94	0.07	0.48	25.30	1.29	0.23	0.44	5.62
25.10.2022 TO 26.10.2022	11.35	25.40	47	18	17.84	0.09	0.46	26.40	1.37	0.26	0.54	6.03
29.10.2022 TO 30.10.2022	19.46	26.49	43	21	19.64	0.07	0.46	28.63	1.06	0.20	0.95	7.18
01.11.2022 TO 02.11.2022	20.21	28.89	68	35	17.84	0.12	0.45	28.60	1.31	0.32	1.28	9.68
05.11.2022 TO 06.11.2022	17.71	24.27	48	25	20.53	0.08	0.46	25.33	1.12	0.23	1.08	8.19
08.11.2022 TO 09.11.2022	14.66	25.73	70	34	17.96	0.15	0.47	26.59	1.42	0.38	1.35	10.13
12.11.2022 TO 13.11.2022	15.47	22.76	40	20	21.40	0.07	0.46	27.50	0.97	0.16	0.83	6.24
15.11.2022 TO 16.11.2022	15.62	24.39	69	36	19.62	0.13	0.46	27.50	1.36	0.35	1.31	9.94
19.11.2022 TO 20.11.2022	16.65	25.51	54	25	20.66	0.09	0.47	24.37	1.18	0.27	1.16	8.92
22.11.2022 TO 23.11.2022	16.24	27.63	66	33	21.43	0.11	0.46	27.53	1.27	0.30	1.24	9.55
26.11.2022 TO 27.11.2022	19.22	25.43	43	23	23.21	0.06	0.45	26.43	1.24	0.26	1.08	7.70
29.11.2022 TO 30.11.2022	20.46	27.56	65	33	21.40	0.12	0.48	28.60	1.67	0.48	1.52	13.07
03.12.2022 TO 04.12.2022	17.66	22.99	48	25	23.19	0.07	0.46	28.60	1.36	0.33	1.23	8.51
06.12.2022 TO 07.12.2022	14.29	26.00	69	33	20.53	0.15	0.46	28.63	1.74	0.45	1.61	10.95
10.12.2022 TO 11.12.2022	16.49	25.25	39	21	20.66	0.05	0.44	26.59	1.12	0.20	0.99	5.43
13.12.2022 TO 14.12.2022	16.28	26.73	68	32	21.40	0.14	0.46	27.50	1.71	0.51	1.59	10.19
17.12.2022 TO 18.12.2022	16.28	26.73	52	21	21.40	0.08	0.46	27.50	1.45	0.38	1.32	9.80
20.12.2022 TO 21.12.2022	15.28	23.84	64	34	21.43	0.11	0.47	27.53	1.60	0.46	1.46	9.65
24.12.2022 TO 25.12.2022	16.52	26.42	58	34	21.43	0.09	0.46	27.53	1.53	0.42	1.39	8.44
27.12.2022 TO 28.12.2022	18.79	25.47	43	20	23.20	0.05	0.45	26.87	1.23	0.20	1.04	5.12
31.12.2022 TO 01.01.2023	18.77	28.44	56	29	25.60	0.09	0.36	29.73	1.58	0.32	1.40	9.41
03.01.2023 TO 04.01.2023	18.04	24.45	77	39	23.60	0.10	0.47	26.32	1.62	0.34	1.41	10.02
07.01.2023 TO 08.01.2023	16.10	29.15	63	32	28.80	0.11	0.56	22.32	1.69	0.37	1.50	13.79
10.01.2023 TO 11.01.2023	17.88	25.14	69	35	30.40	0.15	0.47	30.40	1.34	0.41	1.62	16.17
14.01.2023 TO 15.01.2023	17.59	34.45	80	39	26.40	0.10	0.37	26.32	1.65	0.36	1.46	10.64
17.01.2023 TO 18.01.2023	17.73	24.03	52	30	28.00	0.14	0.44	24.97	1.50	0.29	1.32	8.36
21.01.2023 TO 22.01.2023	17.06	26.24	65	34	27.20	0.13	0.56	28.97	1.73	0.38	1.56	14.62
24.01.2023 TO 25.01.2023	16.32	30.49	66	33	28.80	0.14	0.45	26.32	1.77	0.40	1.59	15.38
28.01.2023 TO 29.01.2023	20.09	27.85	62	38	25.50	0.07	0.48	26.17	1.34	0.36	1.28	6.24
31.01.2023 TO 01.02.2023	20.09	26.89	75	35	26.30	0.08	0.47	26.70	1.67	0.48	1.42	9.24
04.02.2023 TO 05.02.2023	20.04	28.74	95	44	27.09	0.09	0.47	25.64	1.70	0.46	1.44	9.10
07.02.2023 TO 08.02.2023	21.26	30.74	59	31	26.30	0.05	0.45	25.64	1.42	0.30	1.34	7.46
11.02.2023 TO 12.02.2023	19.51	34.39	72	41	27.09	0.08	0.47	26.17	1.68	0.42	1.48	8.40
14.02.2023 TO 15.02.2023	21.19	30.39	98	49	25.50	0.06	0.48	25.96	1.64	0.34	1.32	7.62
18.02.2023 TO 19.02.2023	21.81	35.77	58	34	23.91	0.05	0.46	26.17	1.52	0.36	1.30	6.24
21.02.2023 TO 22.02.2023	20.14	28.65	56	29	27.09	0.05	0.46	27.70	1.60	0.34	1.28	6.18
25.02.2023 TO 26.02.2023	22.84	34.40	74	32	29.15	0.12	0.45	27.14	1.77	0.42	1.56	11.38
28.02.2023 TO 01.03.2023	20.24	31.19	80	39	29.96	0.08	0.45	26.87	1.61	0.35	1.35	8.89
04.03.2023 TO 05.03.2023	21.16	30.94	73	36	30.77	0.09	0.44	27.41	1.67	0.38	1.45	9.73
07.03.2023 TO 08.03.2023	20.71	31.67	66	32	28.34	0.10	0.44	28.22	1.70	0.40	1.48	10.72
11.03.2023 TO 12.03.2023	21.75	32.75	80	39	30.77	0.09	0.45	28.09	1.64	0.37	1.39	9.28
14.03.2023 TO 15.03.2023	21.09	31.76	72	41	30.77	0.08	0.45	27.41	1.58	0.34	1.33	8.78
18.03.2023 TO 19.03.2023	22.40	31.04	63	36	31.58	0.11	0.45	28.36	1.74	0.41	1.46	10.62
21.03.2023 TO 22.03.2023	20.89	28.90	55	29	30.77	0.06	0.45	29.04	1.55	0.32	1.28	6.79
MIN	11.35	22.76	39	17	16.05	0.05	0.36	22.32	0.97	0.16	0.42	5.12
MAX	22.84	35.77	98	49	31.58	0.15	0.56	30.40	1.77	0.51	1.62	16.17
AVG	17.58	28.03	61	30	23.57	0.09	0.46	27.03	1.48	0.34	1.21	8.84

Ambient Air Quality Report (Oct'22 to Mar'23)

Location : 6	Govindpur											
Parameters	Sox	Nox	PM10	PM2.5	O3	Pb	CO	NH3	C6H6	BAP	As	Ni
Unit	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³
Yearly Limit	50	40	60	40	100	0.5	2	100	5	1	6	20
Daily Limit	80	80	100	60	180	1	4	400				
Date of Monitoring												
27.09.2022 TO 28.09.2022	13.22	25.31	49	19	17.85	0.10	0.47	28.63	1.37	0.29	0.72	5.81
01.10.2022 TO 02.10.2022	13.35	25.56	51	21	17.85	0.12	0.46	27.53	1.44	0.36	0.81	6.41
04.10.2022 TO 05.10.2022	14.01	26.52	50	20	18.75	0.11	0.46	26.43	1.41	0.34	0.76	6.20
08.10.2022 TO 09.10.2022	11.61	26.26	49	19	18.75	0.10	0.47	28.63	1.38	0.27	0.70	5.93
11.10.2022 TO 12.10.2022	13.15	25.59	47	18	17.85	0.08	0.47	26.43	1.35	0.30	0.66	5.72
15.10.2022 TO 16.10.2022	14.23	26.07	47	20	16.96	0.08	0.46	28.63	1.32	0.28	0.60	5.67
18.10.2022 TO 19.10.2022	13.25	27.54	48	19	19.64	0.09	0.47	26.43	1.34	0.32	0.55	5.44
22.10.2022 TO 23.10.2022	12.48	27.38	50	17	17.85	0.09	0.48	26.43	1.40	0.31	0.73	5.87
25.10.2022 TO 26.10.2022	11.78	25.83	46	18	16.96	0.07	0.48	24.22	1.33	0.26	0.51	5.31
29.10.2022 TO 30.10.2022	18.29	25.22	46	23	21.40	0.08	0.48	26.40	1.09	0.22	1.03	7.67
01.11.2022 TO 02.11.2022	19.13	26.47	71	37	18.75	0.16	0.48	30.83	1.48	0.40	1.45	10.88
05.11.2022 TO 06.11.2022	17.18	26.08	44	22	21.56	0.07	0.46	26.59	1.02	0.24	0.98	7.26
08.11.2022 TO 09.11.2022	17.72	23.33	70	34	19.76	0.14	0.48	28.80	1.39	0.33	1.37	10.07
12.11.2022 TO 13.11.2022	17.30	23.71	42	22	20.53	0.06	0.48	28.63	1.05	0.19	0.87	6.89
15.11.2022 TO 16.11.2022	13.59	24.52	67	34	19.64	0.12	0.47	26.43	1.34	0.31	1.30	9.55
19.11.2022 TO 20.11.2022	15.54	26.14	43	23	23.19	0.07	0.48	26.40	1.07	0.21	0.92	7.03
22.11.2022 TO 23.11.2022	15.32	27.14	57	30	23.19	0.10	0.48	27.50	1.22	0.28	1.13	9.04
26.11.2022 TO 27.11.2022	17.54	22.84	44	23	21.40	0.06	0.46	27.50	1.29	0.26	1.16	7.30
29.11.2022 TO 30.11.2022	19.11	25.28	71	37	20.53	0.16	0.46	29.73	1.79	0.48	1.67	14.58
03.12.2022 TO 04.12.2022	18.13	25.13	43	24	22.32	0.06	0.47	30.83	1.26	0.23	1.12	6.71
06.12.2022 TO 07.12.2022	17.62	22.94	67	34	21.56	0.13	0.44	26.59	1.70	1.44	1.56	10.33
10.12.2022 TO 11.12.2022	16.29	22.92	40	23	21.56	0.05	0.46	28.80	1.20	0.21	1.03	5.96
13.12.2022 TO 14.12.2022	12.29	24.87	62	32	20.53	0.10	0.46	28.63	1.57	0.41	1.43	9.16
17.12.2022 TO 18.12.2022	12.29	24.87	48	24	20.53	0.07	0.47	26.43	1.35	0.31	1.24	7.92
20.12.2022 TO 21.12.2022	14.40	28.26	55	28	23.19	0.08	0.46	27.50	1.48	0.37	1.31	9.41
24.12.2022 TO 25.12.2022	15.60	24.59	39	23	23.19	0.05	0.46	27.50	1.15	0.20	0.97	5.22
27.12.2022 TO 28.12.2022	19.79	26.49	51	26	22.56	0.07	0.46	27.68	1.43	0.25	1.25	7.98
31.12.2022 TO 01.01.2023	19.45	32.04	62	30	27.40	0.08	0.34	26.87	1.48	0.27	1.30	8.20
03.01.2023 TO 04.01.2023	19.38	25.95	84	46	27.40	0.11	0.46	26.32	1.76	0.36	1.58	14.04
07.01.2023 TO 08.01.2023	15.85	27.27	65	34	26.59	0.12	0.46	24.70	1.79	0.41	1.65	15.06
10.01.2023 TO 11.01.2023	17.08	25.02	47	22	27.40	0.12	0.56	26.32	1.78	0.39	1.63	14.27
14.01.2023 TO 15.01.2023	16.15	30.95	84	41	29.40	0.11	0.46	26.32	1.67	0.38	1.44	13.95
17.01.2023 TO 18.01.2023	16.22	30.06	58	33	27.40	0.10	0.66	25.24	1.70	0.40	1.51	10.27
21.01.2023 TO 22.01.2023	16.09	24.93	47	26	29.01	0.14	0.45	25.24	1.82	0.43	1.67	15.26
24.01.2023 TO 25.01.2023	15.62	22.91	59	33	25.78	0.10	0.46	26.32	1.72	0.37	1.53	10.68
28.01.2023 TO 29.01.2023	19.27	29.50	61	32	24.70	0.07	0.48	28.02	1.37	0.34	1.18	5.68
31.01.2023 TO 01.02.2023	20.23	27.08	98	47	25.50	0.08	0.48	26.43	1.44	0.48	1.34	8.92
04.02.2023 TO 05.02.2023	20.68	29.17	72	37	26.30	0.08	0.47	26.17	1.42	0.46	1.30	8.64
07.02.2023 TO 08.02.2023	22.46	35.65	62	33	27.09	0.06	0.47	25.90	1.32	0.36	1.28	6.24
11.02.2023 TO 12.02.2023	18.25	29.90	95	46	27.89	0.06	0.49	28.83	1.34	0.30	1.30	6.10
14.02.2023 TO 15.02.2023	23.15	39.96	72	33	25.50	0.08	0.49	26.70	1.46	0.44	1.38	9.04
18.02.2023 TO 19.02.2023	22.04	29.51	60	34	27.09	0.06	0.47	27.17	1.34	0.32	1.16	6.88
21.02.2023 TO 22.02.2023	22.04	32.02	88	42	25.50	0.05	0.47	26.96	1.18	0.34	1.28	5.24
25.02.2023 TO 26.02.2023	19.38	34.53	75	41	28.40	0.16	0.46	28.50	1.84	0.48	1.66	12.08
28.02.2023 TO 01.03.2023	21.06	32.19	81	39	30.77	0.09	0.46	27.14	1.66	0.39	1.43	9.58
04.03.2023 TO 05.03.2023	22.76	33.52	67	34	30.84	0.12	0.45	26.82	1.70	0.42	1.47	10.41
07.03.2023 TO 08.03.2023	21.36	30.30	79	34	29.96	0.14	0.44	27.68	1.79	0.45	1.62	11.62
11.03.2023 TO 12.03.2023	20.47	29.64	80	39	30.03	0.06	0.46	29.04	0.15	0.33	1.31	7.02
14.03.2023 TO 15.03.2023	21.80	33.59	67	31	31.65	0.06	0.46	27.68	1.51	0.30	1.26	6.33
18.03.2023 TO 19.03.2023	21.57	32.48	75	36	30.03	0.10	0.45	29.45	1.68	0.40	1.44	9.83
21.03.2023 TO 22.03.2023	21.24	30.53	52	29	32.46	0.07	0.46	28.09	1.59	0.35	1.35	7.74
MIN	11.61	22.84	39	17	16.96	0.05	0.34	24.22	0.15	0.19	0.51	5.22
MAX	23.15	39.96	98	47	32.46	0.16	0.66	30.83	1.84	1.44	1.67	15.26
AVG	17.41	27.76	60	30	23.96	0.09	0.47	27.33	1.43	0.36	1.21	8.60



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Annex-VII

[Format No. : SRL / FRM / 17]

TEST REPORT

[Report No. SRL / TPCL#1-5(J) / GW-009-2023 Dated: 06.02.2023]

A. SAMPLE DETAILS:-

Name & Address of the Customer	: The Tata Power Company Limited Jojobera Power Plant, Jamshedpur - 831 016		
Sample Type	: Ground Water		
Sampling Location	: JEMCO ASH POND 1		
Sample Identification No.	: GW- 009-2023		
Test Requirement	: Chemical		
Sampling Method	: APHA 23 rd Edition, 1060B		
Sample Collected By	: Scientific Research Laboratory		
Sample Preservation	: Preserved	Environmental Condition	: Clear
Water Sampling Date	: 17.01.2023	Sample Receiving Date	: 17.01.2023
Analysis Started On	: 17.01.2023	Analysis Completed On	: 06.02.2023

B. RESULTS

Sl. No.	Characteristic	Minimum Detection Limit	*Requirement (Acceptable Limit)	*Permissible Limits in the Absence of Alternate Source	Results	Test Method Specification
					GW-009-2023	
Organoleptic and Physical Parameters (Foreword and Clause 4)						
i)	Colour, Hazen Units, Max.	5	5	15	<5.0	APHA 23 rd Edition, 2120 B
ii)	Odour	-	Agreeable	Agreeable	Agreeable	IS: 3025 (Part 5) - 1983
iii)	pH Value	2	6.5 to 8.5	No Relaxation	7.55	APHA 23 rd Edition, 4500-H*B
iv)	Turbidity, NTU, Max.	1	1	5	<1.0	APHA 23 rd Edition, 2130B
v)	Total Dissolved Solids, mg/L, Max.	10	500	2000	158	APHA 23 rd Edition, 2540 C
General Parameters Concerning Substances Undesirable in Excessive Amounts (Foreword and Clause 4)						
i)	Aluminium (as Al), mg/L, Max	0.01	0.03	0.2	<0.01	APHA 23 rd Edition, 3500 -Al B
ii)	Anionic Detergents (as MBAS), mg/l, Max.	0.1	0.2	1.0	<0.1	APHA 23 rd Edition, 5540 C
iii)	Boron (as B), mg/L, Max	1	0.5	1	<1.0	APHA 23 rd Edition, 4500-B C
iv)	Calcium (as Ca), mg/L, Max	2	75	200	34	APHA 23 rd Edition, 3500-Ca B
v)	Chloride (as Cl), mg/L, Max.	2	250	1000	30	APHA 23 rd Edition, 4500 -Cl -B
vi)	Copper (as Cu), mg/L, Max.	0.05	0.05	1.5	<0.05	APHA 23 rd Edition, 3111 B
vii)	Fluoride (as F), mg/L, Max	0.05	1.0	1.5	0.41	APHA 23 rd Edition, 4500 -F -D
viii)	Free Residual Chlorine, mg/L, Min	0.1	0.2	1	<0.1	IS 3025 (Part 26)-1986
ix)	Iron (as Fe), mg/L, Max.	0.1	0.3	No Relaxation	0.21	APHA 23 rd Edition, 3500-Fe B
x)	Manganese (as Mn), mg/L, Max.	0.05	0.1	0.3	<0.05	APHA 23 rd Edition, 3111 B
xi)	Nitrate (as NO ₃), mg/L, Max.	0.5	45	No Relaxation	0.60	APHA 23 rd Edition, 4500-NO ₃ -B

Dr. Jyotirmoy Majumdar
(Authorized Signatory)

- The test report shall not be reproduced, except in full, without written approval of the company.
- Results relate only to the parameters tested.
- No Repeat Analysis will be entertained after 15 days from the date of reporting.
- All relevant information of customers regarding testing are treated as "Confidential".



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TEST REPORT

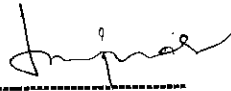
[Report No. SRL / TPCL#1-5(J) / GW-009-2023 Dated: 06.02.2023]

A. SAMPLE DETAILS:-

Name & Address of the Customer	:	The Tata Power Company Limited Jojobera Power Plant, Jamshedpur - 831 016		
Sample Type	:	Ground Water		
Sampling Location	:	JEMCO ASH POND 1		
Sample Identification No.	:	GW- 009-2023		
Test Requirement	:	Chemical		
Sampling Method	:	APHA 23 rd Edition, 1060B		
Sample Collected By	:	Scientific Research Laboratory		
Sample Preservation	:	Preserved	Environmental Condition	: Clear
Water Sampling Date	:	17.01.2023	Sample Receiving Date	: 17.01.2023
Analysis Started On	:	17.01.2023	Analysis Completed On	: 06.02.2023

B. RESULTS

Sl. No.	Characteristic	Minimum Detection Limit	*Requirement (Acceptable Limit)	*Permissible Limits in the Absence of Alternate Source	Results	Test Method Specification
					GW-009-2023	
General Parameters Concerning Substances Undesirable in Excessive Amounts (Foreword and Clause 4)						
xii)	Phenolic Compounds (as C ₆ H ₅ OH), mg/L, Max	0.002	0.001	0.002	<0.002	APHA 23 rd Edition, 5530 C
xiii)	Selenium (as Se), mg/L, Max.	0.005	0.01	No Relaxation	<0.005	APHA 23 rd Edition, 3114 C
xiv)	Silver (as Ag), mg/l	0.1	0.1	No Relaxation	<0.1	APHA 23 rd Edition, 3111 B
xv)	Sulphate (as SO ₄), mg/L, Max.	2.5	200	400	27.8	APHA 23 rd Edition, 4500-SO ₄ ²⁻ E
xvi)	Sulphide (as S), mg/l	0.5	0.05	No Relaxation	<0.5	APHA 23 rd Edition, 4500 S ²⁻ F
xvii)	Total Alkalinity, as Calcium Carbonate, mg/L, Max	5	200	600	115	APHA 23 rd Edition, 2320 B
xviii)	Total Hardness (as CaCO ₃), mg/L, Max.	5	200	600	128	APHA 23 rd Edition, 2340 C
Xix)	Zinc (as Zn), mg/L, Max	0.01	5.0	15	0.038	APHA 23 rd Edition, 3111 B
Parameters Concerning Toxic Substances (Foreword and Clause 4)						
i)	Cadmium (as Cd), mg/L, Max	0.02	0.003	No Relaxation	<0.02	APHA 23 rd Edition, 3111 B
ii)	Cyanide (as CN), mg/L, Max	0.02	0.05	No Relaxation	<0.02	APHA 23 rd Edition, 4500-CN-E
iii)	Lead (as Pb), mg/L, Max	0.1	0.01	No Relaxation	<0.1	APHA 23 rd Edition, 3111 B
iv)	Mercury (as Hg), mg/L, Max	0.001	0.001	No Relaxation	<0.001	APHA 23 rd Edition, 3112 B
v)	Nickel (as Ni), mg/L, Max.	0.05	0.02	No Relaxation	<0.05	APHA 23 rd Edition, 3111 B
vi)	Total Arsenic (as As), mg/L, Max	0.01	0.01	0.05	<0.01	APHA 23 rd Edition, 3114 C
vii)	Total Chromium (as Cr), mg/L, Max	0.05	0.05	No Relaxation	<0.05	APHA 23 rd Edition, 3111 B


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Certificate No.: TC-7649
NABL Accredited Laboratory

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[Format No. : SRL / FRM / 17]

TEST REPORT

[Report No. SRL / TPCL#1-5(J) / GW-008-2023 Dated: 06.02.2023]

A. SAMPLE DETAILS:-

Name & Address of the Customer	: The Tata Power Company Limited Jojobera Power Plant, Jamshedpur - 831 016		
Sample Type	: Ground Water		
Sampling Location	: MATERIAL GATE		
Sample Identification No.	: GW- 008-2023		
Test Requirement	: Chemical		
Sampling Method	: APHA 23 rd Edition, 1060B		
Sample Collected By	: Scientific Research Laboratory		
Sample Preservation	: Preserved	Environmental Condition	: Clear
Water Sampling Date	: 17.01.2023	Sample Receiving Date	: 17.01.2023
Analysis Started On	: 17.01.2023	Analysis Completed On	: 06.02.2023

B. RESULTS

Sl. No.	Characteristic	Minimum Detection Limit	*Requirement (Acceptable Limit)	*Permissible Limits in the Absence of Alternate Source	Results	Test Method Specification
					GW-008-2023	
Organoleptic and Physical Parameters (Foreword and Clause 4)						
i)	Colour, Hazen Units, Max.	5	5	15	<5.0	APHA 23 rd Edition, 2120 B
ii)	Odour	-	Agreeable	Agreeable	Agreeable	IS: 3025 (Part 5) - 1983
iii)	pH Value	2	6.5 to 8.5	No Relaxation	7.28	APHA 23 rd Edition, 4500-H+B
iv)	Turbidity, NTU, Max.	1	1	5	<1.0	APHA 23 rd Edition, 2130B
v)	Total Dissolved Solids, mg/L, Max.	10	500	2000	148	APHA 23 rd Edition, 2540 C
General Parameters Concerning Substances Undesirable in Excessive Amounts (Foreword and Clause 4)						
i)	Aluminium (as Al), mg/L, Max	0.01	0.03	0.2	<0.01	APHA 23 rd Edition, 3500 -Al B
ii)	Anionic Detergents (as MBAS), mg/l, Max.	0.1	0.2	1.0	<0.1	APHA 23 rd Edition, 5540 C
iii)	Boron (as B), mg/L, Max	1	0.5	1	<1.0	APHA 23 rd Edition, 4500-B C
iv)	Calcium (as Ca), mg/L, Max	2	75	200	32	APHA 23 rd Edition, 3500-Ca B
v)	Chloride (as Cl), mg/L, Max.	2	250	1000	27	APHA 23 rd Edition, 4500 -Cl -B
vi)	Copper (as Cu), mg/L, Max.	0.05	0.05	1.5	<0.05	APHA 23 rd Edition, 3111 B
vii)	Fluoride (as F), mg/L, Max	0.05	1.0	1.5	0.27	APHA 23 rd Edition, 4500 -F-D
viii)	Free Residual Chlorine ,mg/L, Min	0.1	0.2	1	<0.1	IS 3025 (Part 26)-1986
ix)	Iron (as Fe), mg/L, Max.	0.1	0.3	No Relaxation	0.15	APHA 23 rd Edition, 3500-Fe B
x)	Manganese (as Mn), mg/L, Max.	0.05	0.1	0.3	<0.05	APHA 23 rd Edition, 3111 B
xi)	Nitrate (as NO ₃), mg/L, Max.	0.5	45	No Relaxation	0.62	APHA 23 rd Edition, 4500-NO ₃ -B

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[Format No. : SRL / FRM / 17]

TEST REPORT

[Report No. SRL / TPCL#1-5(J) / GW-008-2023 Dated: 06.02.2023]

A. SAMPLE DETAILS:-

Name & Address of the Customer	The Tata Power Company Limited Jojobera Power Plant, Jamshedpur - 831 016		
Sample Type	Ground Water		
Sampling Location	MATERIAL GATE		
Sample Identification No.	GW- 008-2023		
Test Requirement	Chemical		
Sampling Method	APHA 23 rd Edition, 1060B		
Sample Collected By	Scientific Research Laboratory		
Sample Preservation	Preserved	Environmental Condition	Clear
Water Sampling Date	17.01.2023	Sample Receiving Date	17.01.2023
Analysis Started On	17.01.2023	Analysis Completed On	06.02.2023

B. RESULTS

Sl. No.	Characteristic	Minimum Detection Limit	*Requirement (Acceptable Limit)	*Permissible Limits in the Absence of Alternate Source	Results	Test Method Specification
					GW-008-2023	
General Parameters Concerning Substances Undesirable in Excessive Amounts (Foreword and Clause 4)						
xii)	Phenolic Compounds (as C ₆ H ₅ OH), mg/L, Max	0.002	0.001	0.002	<0.002	APHA 23 rd Edition, 5530 C
xiii)	Selenium (as Se), mg/L, Max.	0.005	0.01	No Relaxation	<0.005	APHA 23 rd Edition, 3114 C
xiv)	Silver (as Ag), mg/l	0.1	0.1	No Relaxation	<0.1	APHA 23 rd Edition, 3111 B
xv)	Sulphate (as SO ₄), mg/L, Max.	2.5	200	400	24.5	APHA 23 rd Edition, 4500-SO ₄ ²⁻ E
xvi)	Sulphide (as S), mg/l	0.5	0.05	No Relaxation	<0.5	APHA 23 rd Edition, 4500 S ²⁻ F
xvii)	Total Alkalinity, as Calcium Carbonate, mg/L, Max	5	200	600	122	APHA 23 rd Edition, 2320 B
xviii)	Total Hardness (as CaCO ₃), mg/L, Max.	5	200	600	116	APHA 23 rd Edition, 2340 C
Xix)	Zinc (as Zn), mg/L, Max	0.01	5.0	15	0.042	APHA 23 rd Edition, 3111 B.
Parameters Concerning Toxic Substances (Foreword and Clause 4)						
i)	Cadmium (as Cd), mg/L, Max	0.02	0.003	No Relaxation	<0.02	APHA 23 rd Edition, 3111 B
ii)	Cyanide (as CN), mg/L, Max	0.02	0.05	No Relaxation	<0.02	APHA 23 rd Edition, 4500 -CN- E
iii)	Lead (as Pb), mg/L, Max	0.1	0.01	No Relaxation	<0.1	APHA 23 rd Edition, 3111 B
iv)	Mercury (as Hg), mg/L, Max	0.001	0.001	No Relaxation	<0.001	APHA 23 rd Edition, 3112 B
v)	Nickel (as Ni), mg/L, Max.	0.05	0.02	No Relaxation	<0.05	APHA 23 rd Edition, 3111 B
vi)	Total Arsenic (as As), mg/L, Max	0.01	0.01	0.05	<0.01	APHA 23 rd Edition, 3114 C
vii)	Total Chromium (as Cr), mg/L, Max	0.05	0.05	No Relaxation	<0.05	APHA 23 rd Edition, 3111 B

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STATUS REPORT ON AFFORSTATION PLAN

1. Trees planted : 24000 between June'2001 to Oct'2001
Planted trees maintained up to March 2003
2. Planted 6521 trees between January 2003 to March 2003
3. Planted 1120 trees between April'2003 to September 2003
4. Planted 200 trees between April'2005 to September 2005
5. Planted 100 trees between October 2005 to March 2006 in phased manner
6. Planted 500 trees between April 2006 and September 2006.
7. Planted 500 trees between October 2006 to March 2007.
8. Planted 300 trees between April 2007 to September 2007
9. Planted 800 trees between October 2007 to March 2008
10. Planted 300 trees between April 2008 to September 2008
11. Planted 300 trees between Oct 2008 to March'2009
12. Planted 300 trees between April 2009 to Sept'2009
13. Planted 2000 trees between October 2009 to March 2010
14. Planted 3993 trees between April 2010 to September 2010
15. Planted 1007 trees between October 2010 to April 2011
16. Planted 400 trees between April 2011 to September 2011
17. Planted 400 trees between October 2011 to March 2012
18. Planted 400 trees between April 2012 to September 2012
19. Planted 50 trees between October 2012 to March 2013
20. Planted 250 trees between April 2013 to March 2014
21. Planted 350 trees between April 2014 to September 2014
22. Planted 300 trees between October 2014 to March 2015
23. Planted 1591 trees between April 2015 to March 2016
24. Planted 651 trees between April 2016 to September 2016
25. Planted 827 trees between October'2016 to March 2017
26. Planted 500 trees between April'17 to March'18.
27. Planted 560 trees between April'18 to March'19.
28. Planted 1150 trees between April'19 to March '20.
29. Planted 424 trees between April 20 to March 21
30. Planted 491 trees between April 21 to Mar 22
31. Planted 384 trees between April 22 to Mar 23

Total No. of sapling planted 50669 nos. till March 23.

Green Belt: 47.44 Acres

*Green coverage: 33.17 %

*TREE DENSITY = Approx. 1511 per Hectare

*Source: Third Party Tree Census of Jojobera Power Plant in 2017.

Species of plants taken up for forestation- Refer next page.

S. No.	Scientific Name	Common Name
Shrubs		
1	<i>Lagascea mollis</i>	American soft head
2	<i>Cassia tora</i>	Pot cassia
3	<i>Hibiscus rosasinensis</i>	Shoe flower
4	<i>Lantana camera</i>	Lantana
Trees		
5	<i>Shorea robusta</i>	Sal
6	<i>Tectona grandis</i>	Teak
7	<i>Butea monosperma</i>	Flame of the forest
8	<i>Dendrocalamus strictus</i>	Bans
9	<i>Polyalthia longifolia</i>	Mast tree
10	<i>Acacia nilotica</i>	Babul
11	<i>Dalbergia sisoo</i>	Sisoo
12	<i>Terminalia cremulata</i>	Senha
13	<i>Lagerstroemia parviflora</i>	Lendya
14	<i>Bauhinia variegata</i>	Kachnar
15	<i>Ficus Bengalensis</i>	Vad
16	<i>Ficus religiosa</i>	Peepal
17	<i>Feucana leucocephala</i>	Subabul
18	<i>Terminalia catappa</i>	Jungli Badam
19	<i>Anogeissus latifolia</i>	Dhaura
20	<i>Maduca indica</i>	Mohwa
21	<i>Albizia lebbeck</i>	Black sirish
22	<i>Emblica officinalis</i>	Amla
23	<i>Terminalia arjuna</i>	Arjuna

Operational Expenditure for Environment during FY 2022-23 (Jojobera Station)			
Sl. No	Activity/Category	Condition reference	FY 2022-23 (In Rs.)
1	Environment Monitoring jobs	EC unit 5 (iv)(v)(vii)(xvi)(xvii) ,CTO Unit 5 A (xi)	2617880
2	Green Belt Development & Maintenance	EC unit 5 (xviii),CTO Unit 5 A (ix)	1818380
3	O & M of ETP & STP	EC unit 5 (IX &X),CTO Unit 5 A (x)	4122920
4	ETP Water treatment chemical cost		791780
5	O & M of CAAQMS	CTO unit 5 (i)	1752414
6	Mobile water sprinkler	EC unit 5 (xvii),CTO Unit 5 B (viii)	2410311
7	Ground water level monitoring		98535
8	Misc. Environment Consultancy services		2407200
9	Analysis of Flue gas		89680
10	Radioactivity test of Coal and Ash		64192
11	Ash compliance audit		407282
12	Biodegradable Waste converter System		422204
13	Tree Inventory & Carbon Sequestration job		322140
Total Expenditure			17324919



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E-mail : nirajksingh2003@yahoo.co.in

DETAILS OF ASH SAMPLE [Format No. : SRL / FRM / 51]

Name & Address of the Customer : The Tata Power Company Limited
Jojobera Power Plant
Jamshedpur - 831 016
Sampling Location/Mark : COMPOSITE BOTTOM ASH
Sample Identification No. : MISC. ASH-031-2023
Sample Collected By : Scientific Research Laboratory
Environmental Condition : Dry
Sample Receiving/Analysis Starting On : 19.01.2023 Analysis Completed On : 06.02.2023

TEST REPORT OF BOTTOM ASH SAMPLE [HEAVY METAL] [SRL/ TPCL (J) / MISC. ASH-031-2023 Dated: 06.02.2023]

Sl. No.	PARAMETERS	Unit	Results
			MISC. ASH-031-2023
1.	Total Arsenic (as As)	mg/kg	0.057
2.	Cadmium (as Cd)	mg/kg	<0.5
3.	Mercury (as Hg)	mg/kg	<0.1
4.	Copper (as Cu)	mg/kg	27.6
5.	Lead (as Pb)	mg/kg	10.8
6.	Nickel (as Ni)	mg/kg	13.2
7.	Zinc (as Zn)	mg/kg	68.3
8.	Chromium (as Cr)	mg/kg	50.6
9.	Manganese (as Mn)	mg/kg	78.3
10.	Silver (as Ag)	mg/kg	<1
11.	Iron (as Fe)	mg/kg	4.5
12.	Cobalt (as Co)	mg/kg	2.75


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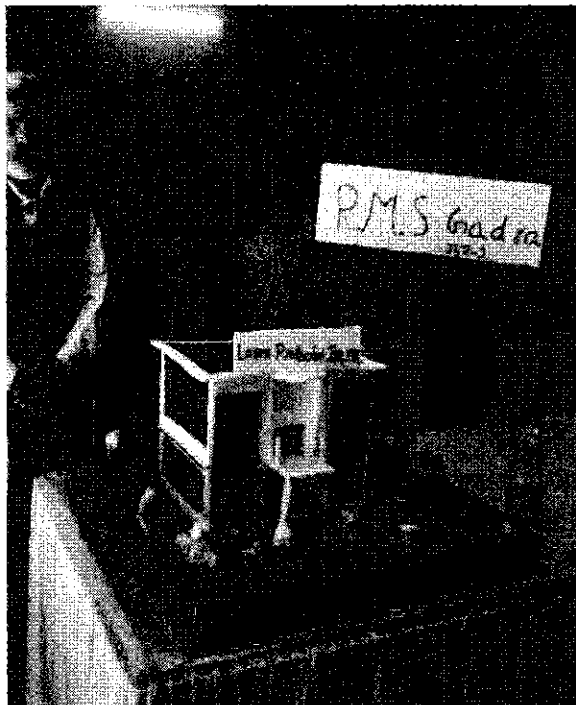
CSR Highlights for FY- 23 (Apr'22 to Mar'23)

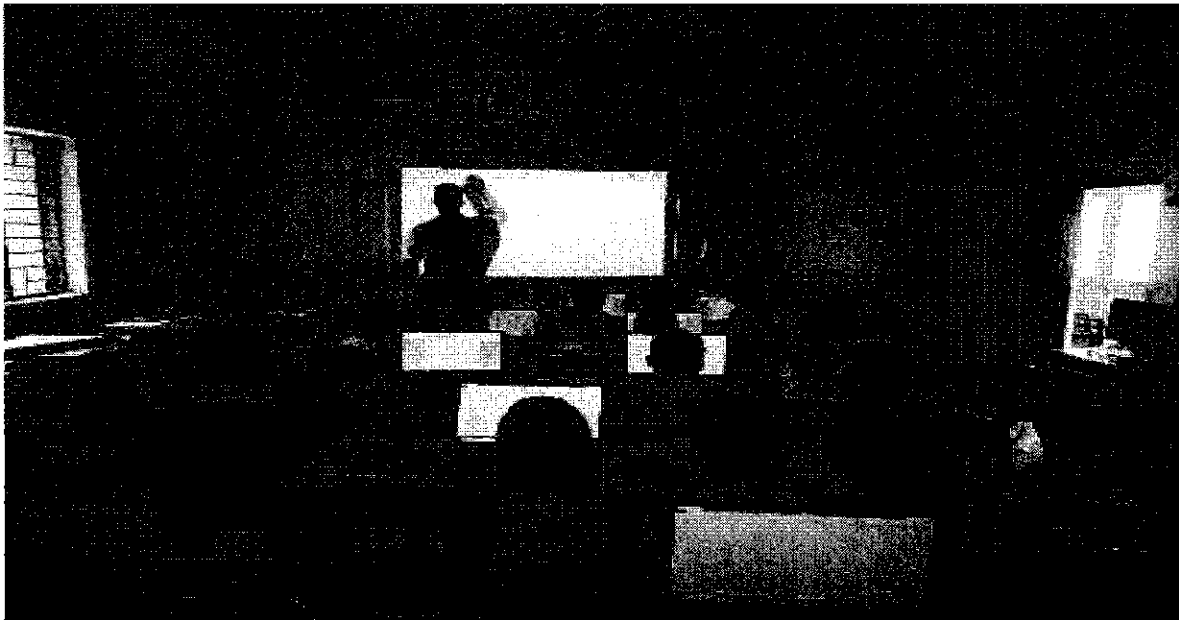
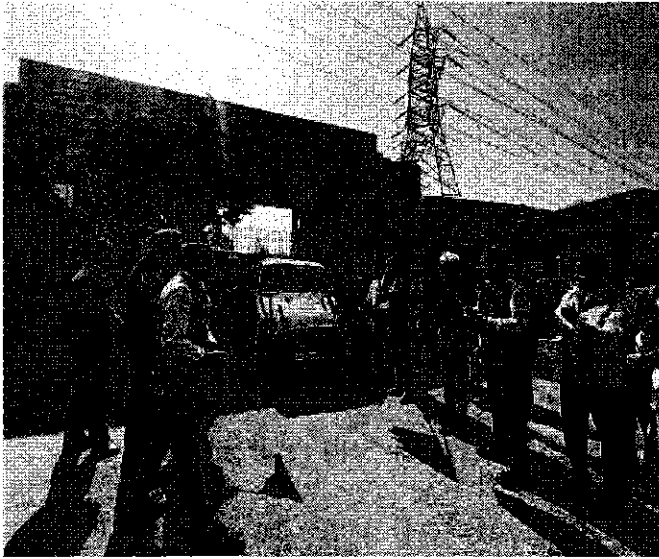
A. Education Program:

1. English learning improvement – Total no. of 2025 students from class I to VIII benefited by this program. Tata power has supported Six government Schools nearby Jojobera power plant.
 - Adult Literacy: No. of Beneficiaries-265, No. of Centers- 56, which is run by 56 students who are ambassador for spreading functional literacy and digital numeracy.
 - Eco Club: No. of participants- 855.
 - Digital Literacy: 635 Students used tablets for exploring internet, google search, learning rhymes, word meaning, story, cartoons videos and basic knowledge of computer through Digital Mobile Van and BUJUS classes.
 - Diva's Club: 532 Adolescent Girls participated and watched documentary video on various issues related to girls like early Marriage, girls education, health etc..
 - Library Club: 700 Students participated and discussed about National Book Day.
2. Lab on Bike-To Increase in awareness, curiosity, confidence and science knowledge we have implemented Lab on bike projects for 11 Government School near Jojobera.
 - Science Lab is set up on a bike with a teacher who is covering schools as per schedule.
 - Students learn science by doing experiments
 - Participation on Science fair, Urja Mela etc.

Resource Mobilization and Partnership:

1. **BYJU's App Support:** Partnership with Byjus's to reinforce the learning of students. The apps were installed on the parent's mobile. Whatever the students learn in schools can explore more on these topics via Byjus's app and our teachers monitor and even assign task to make students practically understand the topic.
2. **Katha:** Partnership with Katha online story telling platform, Delhi where children are learning by watching the cartoon, rhymes and stories.
3. **Jangla (UK):** Jangla has provided free Wi-Fi setup box for schools, through this students and teacher are able to learn online, explore internet
4. **National Minority Finance Development Corporation (NMFDC):** from NMFDC has provided the Digital van which is moving to government school and community for digital learning among students, WSHG group and community member.

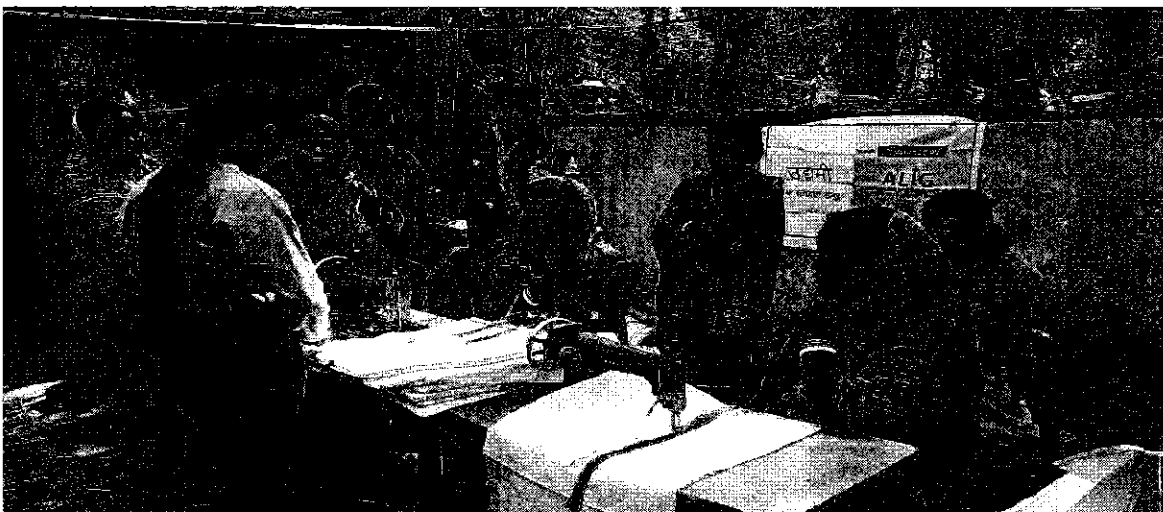




B. Entrepreneurship/ Livelihood

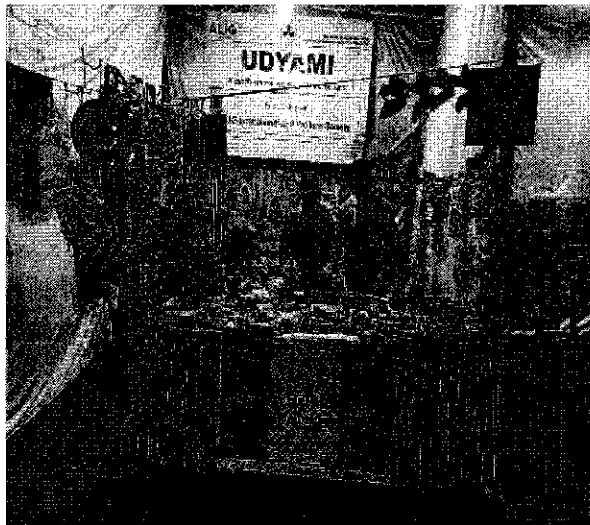
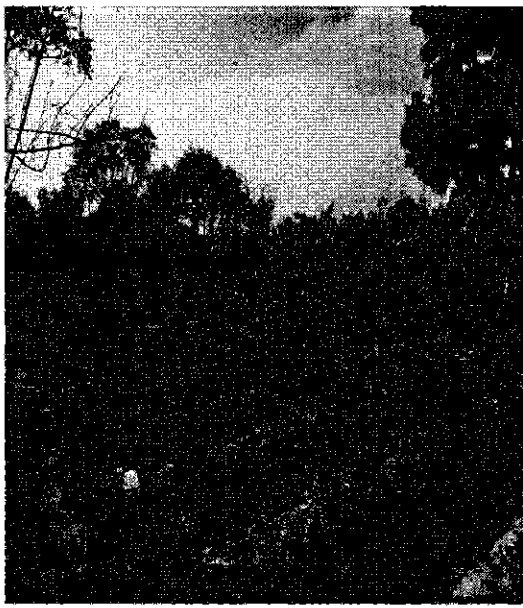
- **Anokha Dhaga Project:** Under livelihood Project through Dhaaga 500 women trained under the project in different activities as bellow
 - i. Stitching activities
 - ii. Embroidery- Chikankari
 - iii. Screen Printing
 - iv. Jute Handicrafts
 - v. Papier Mache (Waste Paper)
 - vi. Macramé work
 - vii. Tie & Dye work
 - viii. Upskilling for old and new beneficiaries

- Total **25534 products** produced/stitched during the project period, and the revenue was of **Rs. 22.26 lakhs** during the project period, orders from corporates, individuals, exhibitions, local partners, etc.
- This year we have trained 100 beneficiaries for soft toy making under Anokha dhaaga program.
- Under livelihood Project through **Dhaaga**, SHG member's (60) per month average income was **INR 5000.00** including their own initiatives.
- Training of SHG members for producing Katran product via waste cloths.
- Under **Resource Mobilization/partnerships** **Rs. 13.40 lakhs** were mobilized through partnering for livelihood program under Dhaaga from StoneSoup, Himalaya, Jangala-UK, Eco Femme, Kalamandir and others
- During this year we have formed 4 new SHGs, one SHG is Domjuri Area and successfully involved in sack bags making activity
- More than 30 types of products produced this year
- Participated in more than 10 exhibitions by SHGs
- All old SHGs under Anokha Dhaaga registered under Jharkhand State Livelihood Missions and received a grant of INR 10000.00
- All 60 SHG members registered for labour cards
- A parent SHG converted into Private Limited Company for creating work orders and marketing of products in the name of **"Just Right Hands Pvt. Comp. Ltd"** with a investment of 3 lacks by philanthropy donation.



2: **Anokha Dhaga SHGs-** To augment income level of underprivileged, handholding support was provided to 200 (comprising 2,510 women members) Self-help Groups (SHGs) at Jojobera.

- Tribal Art & Painting-majority of tribal community is involved in this activity to make tribal people aware of their culture and to generate income out of this activity. By providing proper training to 30 members to build up their skill this training has been taken place. They are skilled up and later participants are linked with exhibitions for being motivated to go further.
- Training & handholding on Artificial jewellery & paper craft -This jewellery making (Earrings, Moti Mala, Mangalsutra, Designer sets, Necklace etc course helped the 30 participants in improving constantly on their sensitivity, understanding and manual abilities to become a successful jewellery designer.
- More than 500 beneficiaries were facilitated for Government schemes through which 56.37 lakh resources were mobilized.
- Income generated from different trades Rs 80.19 Lac.
- In FY23, 10 new SHGs (comprising 127 women) were formed along with bank linkages.
- More than 300 SHG members were provided training on Financial / Digital literacy.
- SHGs were introduced to Paddy and Milky Mushroom cultivation. 35 SHGs are engaged in mushroom cultivation through ~ 1297 beds. The income raised from cultivation would amount to ~ 2.96 lakh. Mushroom byproduct training like Mushroom Badi, Pickle, Cookies, Soup, Powder etc has been given to more than 100 women of different SHGs.
- Kitchen Gardening/Backyard farming: Women are encouraged to undertake kitchen gardening/ backyard farming. At present, ~ 1000 members are involved in kitchen gardening/ Backyard Farming in total 22 acre of land. Total net income generated from kitchen gardening/backyard farming is ₹8.81 lakh. Floriculture & Banana Plantation Training & Handholding provided to 50 beneficiaries.
- Training & Handholding on Production of Bio degradable Leaf/paper plates & Cups to 20 beneficiaries.
- Book Keeping Training & Capacity Building of SHG leaders (No of Beneficiaries-127)-orientation for capacity building of SHG members have been taken place and for record maintaining.
- Strengthening, Consolidation & Handholding of 110 old SHGs & 10 V.Os
- Publications: 2 women from SHGs viz. Mrs. Jatri Bhumij and Mrs. Sukhmati Soy from Shiv Shankar and Ishita Urja Mahila Samuh respectively their case study has been published at newspaper for practicing income generation activities like Nutritional Gardening and Mushroom Cultivation to support their families financially.

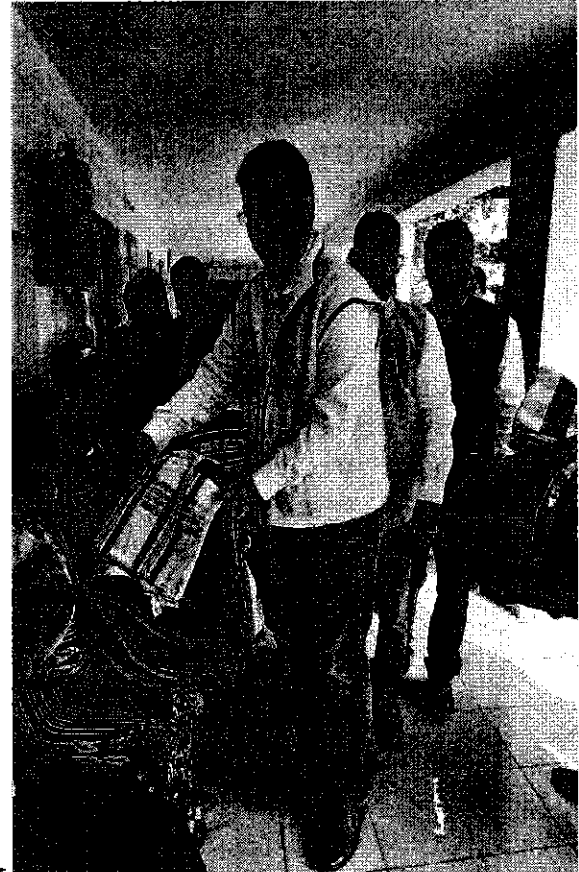


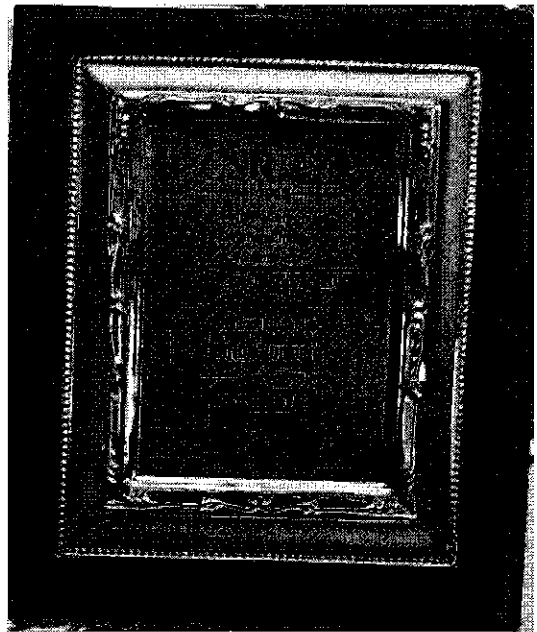
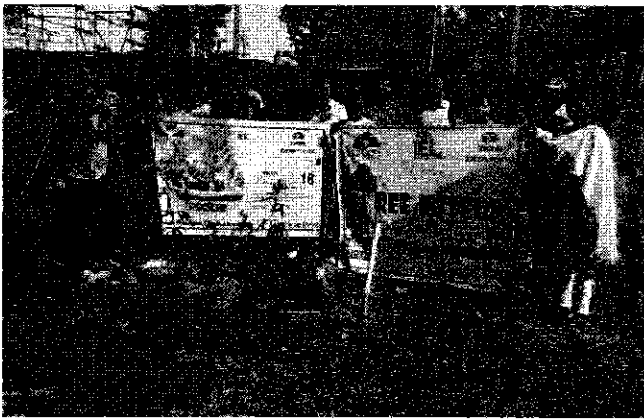


Others:

1. Under Stakeholder engagement, cleaning and spraying of bleaching powder was undertaken and Lightning, Sports was organized for betterment of community in the surrounding area.
2. Documentary by District horticulture department of successful entrepreneurs of WSHGs in which our team facilitated.
3. Supported to 50 disable person at R. P Patel Cheshire Home at Patel Bagan. Which includes health camp during the Health check-up 13 people were examined and medicines were prescribed after that plantation of 20 saplings was done and also Blankets & Bed sheets were provided to each of them and refreshments provided.
4. 137 Unit of blood donated during Blood donation camp at Jojobera.
5. Celebrations of International Women's Day in the surrounding area i.e. Gadra, Sarjamda, Haludbani at Jojobera in which altogether 250 members participated.
6. Employee volunteering has been undertaken on various issues like No Tobacco, Cyber Security, woman empowerment etc, under which more than 100 SHGs members participated.
7. Tree Mitra/ Plantation- 4500+ Plant sample has been planted. The purpose of tree plantation is to save the endangered environment and to beautify our life. Trees are valuable gifts of nature. As we know that trees are the foremost source for producing oxygen in the environment, they help to reduce the level of CO2. Saplings were sown to strengthen them economically and socially.
8. The Tata Power Company Limited Jojobera Power Plant's E Vidya awarded with "**Best Education Excellence Initiatives of the Year 2022-23**" by Indian Social Impact Awards on 27th August 2022.

9. The Tata Power Company Limited Jojobera Power won *CSR Times Gold Award for Women Empowerment* on 8th December 2022.
10. Mr. Randhir Kumar, Group Head - CSR & Liaison won *"Excellence in CSR Initiatives"* awarded by Barandsglobal Media Award in year 2022-23 .





Jojobera Power Plant, Tata Power, Jamshedpur

Fly Ash Generation & Utilisation (Station)

Description	Reports Unit # 1 to 4																			
	Oct-22				Nov-22				Dec-22				Station (Oct-22 to Dec-22)							
	UNIT# 1	UNIT# 2	UNIT# 3	UNIT# 4	TOTAL	UNIT# 1	UNIT# 2	UNIT# 3	UNIT# 4	TOTAL	UNIT# 1	UNIT# 2	UNIT# 3	UNIT# 4	TOTAL	UNIT# 1	UNIT# 2	UNIT# 3	UNIT# 4	TOTAL
Middling(as fired) -MT	13923	3545	6743	32737	56948	10693	5125	2116	32964	50898	0	0	0	32559	32559	24616	8670	8859	98260	140405
lb Valley & others (as fired) -MT	14532	43354	37770	146646	110302	17557	41837	28874	13093	101361	9006	41880	44197	14076	109159	41095	127071	110842	41815	320822
TOTAL COAL -MT	28455	46899	44513	47383	167250	28250	46962	30990	46057	152259	9006	41880	44197	46635	141718	65711	135741	119700	140075	461227
TOTAL ASH GEN-MT	10712	17366	18080	21168	67326	10864	18034	12223	19648	60768	3088	17070	18095	19251	57504	24663	52469	48398	60067	185598
Total ASH UTILISATION -MT	10935	17728	18458	21610	68731	15337	25459	17256	27738	85790	4392	24275	25793	27377	81778	30664	67463	61447	76725	236298
% TOTAL ASH UTILISATION	102.09	102.09	102.09	102.09	102.09	141.18	141.17	141.18	141.17	141.17	142.21	142.21	142.21	142.21	142.21	124.33	128.58	126.96	127.73	127.32

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Description	Reports Unit # 1 to 4																			
	Jan '23				Feb '23				Mar '23				Station (Jan'23 to Mar'23)							
	UNIT# 1	UNIT# 2	UNIT# 3	UNIT# 4	TOTAL	UNIT# 1	UNIT# 2	UNIT# 3	UNIT# 4	TOTAL	UNIT# 1	UNIT# 2	UNIT# 3	UNIT# 4	TOTAL	UNIT# 1	UNIT# 2	UNIT# 3	UNIT# 4	TOTAL
(Middle/As fired) -MT	5994	5938	20127	1505	33564	15015	11236	24934	29087	81272	12129	17698	20008	35090	82924	34138	34872	65069	63682	197761
lb Valley & others (as fired) -MT	26688	44463	35731	1048	107990	10141	28469	24966	4672	68248	18027	30644	35246	18981	102899	54856	103576	95943	24701	279076
TOTAL COAL -MT	32682	50401	55858	2553	141494	26156	39705	49900	33759	149520	30156	48341	55254	52071	185823	88994	138448	161012	88383	476857
TOTAL ASH GEN-MT	11766	20048	23853	1037	56704	9359	14805	21546	13796	59506	10655	20386	23449	20410	74900	31780	55238	68848	35244	191110
Total ASH UTILISATION -MT	16064	27370	32565	1416	77415	12729	20136	29306	18765	80956	13475	25781	29655	25812	94723	42268	73287	91525	45993	253074
% TOTAL ASH UTILISATION	137	137	137	137	137	136	136	136	136	136	126	126	126	126	126	133	133	133	130	132

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Jojobera Power Plant, Tata Power, Jamshedpur
Fly Ash Generation & Utilisation (Station)

UNIT# 5				
	Oct-22	Nov-22	Dec-22	Oct-22 to Dec-22
Description	UNIT# 5	UNIT# 5	UNIT# 5	TOTAL
Middling(as fired) -MT	49360	46314	50711	146385
lb Valley & others (as fired) -MT	0	0	0	0
TOTAL COAL -MT	49360	46314	50711	146385
TOTAL ASH GEN-MT	21014	19848	21564	62426
Total ASH UTILISATION -MT	21452	28020	30667	80139
% TOTAL ASH UTILISATION	102.09	141.17	142.21	128.38

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Jojobera Power Plant, Tata Power, Jamshedpur

Fly Ash Generation & Utilisation (Station)

UNIT# 5				Jan'23 to Mar'23
	Jan'23	Feb'23	Mar'23	
Description	UNIT# 5	UNIT# 5	UNIT# 5	TOTAL
Middling(as fired) -MT	53884	23682	10562	88128
Ib Valley & others (as fired) -MT	0	0	0	0
TOTAL COAL -MT	53884	23682	10562	88128
TOTAL ASH GEN-MT	22951	10216	4574	37742
Total ASH UTILISATION -MT	31334	13895	5785	51014
% TOTAL ASH UTILISATION	137	136	126	135

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Compliance status for Office Memorandum - Amendment in Environment Clearance for change in coal source by MOEF & CC dated 11.11.2020

S No	Conditions	Compliance Status
a)	Details regarding change in source (location of the source, proposed quantity, distance from the power plant and mode of transportation), quality (Ash, Sulphur, Moisture content and Calorific value) shall be informed to the Ministry and its concerned Regional Office. The quantity of coal transported from each source along with the mode of transportation shall be submitted as part of EC Compliance Report	We have not changed the source of coal in Oct'22 to Mar'23.
b)	The applicable flue gas emissions standards for Particulate Matter, Sulphur Dioxide, Oxides of Nitrogen and Mercury shall be complied in line with Ministry's Notification vide S.O. 3305(E) dated 7.12.2015 and subsequent emissions. A progress of implementation and its compliance shall be submitted as part of Compliance Report	We have already placed the work order for installation of FGD (Flue gas desulfurization) system and approx. 63% work has been completed. The status of compliance for emission norms in line with Ministry's Notification vide S.O. 3305(E) dated 7.12.2015 and subsequent amendments is being attached as Annex XIV.
c)	Ash content in the Coal and Coal transportation is governed by the Ministry's Notification vide S.O. 1561 (E) dated 21.5.2020. As far as possible, Coal transportation shall be done by rail/ conveyer or or other eco-friendly modes. However, road transportation is allowed with tarpaulin covered trucks till the railway/ conveyor belt infrastructure is made available. A progress (Physical and financial) of rail connectivity from nearest railway siding or conveyor connectivity to the power plant shall be submitted in the EC compliance report.	We are transporting most of the coal by rail network and only a small quantity (0.67% in Oct'22 to Mar'23) is transported by tarpaulin covered trucks.
d)	Additional ash pond is not allowed due to increase in ash content in the raw coal as against the ash pond permitted in the Environmental Clearance. The 100% flyash utilisation is to be achieved within 4 years in line with Flyash Notifications dated 14.9.1999, 27.8.2003, 3.11.2009 & 25.1.2016 and amended time to time or extant regulations on Fly ash Utilisation.	The Fly ash utilization is 100 % for the year 2022-23.
e)	In case of exceptional circumstances, project proponents may approach the Ministry for seeking permission to use an emergency ash pond with cogent reasons, if any.	Not Applicable
f)	The details regarding monthly generation, utilisation and disposal of flyash (including bottom ash) shall be submitted to the Ministry and its Regional Office.	The details regarding monthly generation, utilisation and disposal of fly ash (including bottom ash) are attached as Annex XII.

STATEMENT FOR COAL RECEIPT OF H2 FY 22-23 For Jojobera Power Plant , Tata Power Co. Ltd . Jamshedpur

Month	Oct-22			Nov-22			Dec-22			Jan-23			Feb-23			Mar-23			Total Source Wise		
	By Rail Network	By RCR Network	By Road Network	By Rail Network	By RCR Network	By Road Network	By Rail Network	By RCR Network	By Road Network	By Rail Network	By RCR Network	By Road Network	By Rail Network	By RCR Network	By Road Network	By Rail Network	By RCR Network	By Road Network	Total Rail Network	By RCR Network	Total Road Network
CCL	11887	72896	0	12249	84618	0	31095	56866	0	9469	16386	0	0	16080	0	0	88759	0	64701	335606	0
MIDD	47160	0	0	81604	0	0	54527	0	0	11971	0	0	27638	0	0	51187	0	0	274087	0	0
ECL	15853	0	0	23588	0	0	11639	0	0	23478	0	0	34809	0	0	11357	0	0	120724	0	0
MCL	8230	0	0	15255	3654	0	22988	0	0	15418	0	0	11449	0	0	14692	4075	0	88031	7729	0
NCL	0	0	0	0	0	0	0	0	0	0	0	0	3956	0	0	4007	0	0	7962	0	0
JDWS /2P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TAILING	0	0	2486	0	0	2500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4986
WB REJECT	0	0	848	0	0	2027	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2874
PRIVATE COAL	0	0	0	15430	0	0	15145	0	0	0	0	0	0	0	0	0	0	0	30575	0	0
Biomass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	23
IEL(UNIT#S)	51674	0	0	45469	0	0	50882	0	0	71002	0	0	0	0	0	19836	0	0	238862	0	0
Total Qty	134804	72896	3333	193595	88272	4527	186276	56866	0	131339	16386	0	77851	16080	0	101078	92834	23	824943	343335	7883

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Emission Norms as per New Emission rules SO 3305 (E) dated 07.12.2015 and subsequent Amendments								
Sl No	Parameter	Unit	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	
1	PM	mg/NM3	100	100	100	50	50	
2	SOx	mg/NM3	600	600	600	600	600	
3	NOx	mg/NM3	600	600	600	450	450	
4	Hg	mg/NM3	Not Applicable	Not Applicable	Not Applicable	0.03	0.03	
5	Specific water consumption	M3/MWHR	3.5					

Compliance Status of New Emission rules SO 3305 (E) dated 07.12.2015 and subsequent Amendments								
Sl No	Parameter	Unit	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	
1	PM	mg/NM3	Complying	Complying	Complying	Complying	Complying	
2	SOx	mg/NM3	Not Complying	Not Complying	Not Complying	Not Complying	Not Complying	
3	NOx	mg/NM3	Complying	Complying	Complying	Not Complying	Not Complying	
4	Hg	mg/NM3	Not Applicable	Not Applicable	Not Applicable	Complying	Complying	
5	Specific water consumption	M3/MWHR	Complying					

- Note : 1. Work for FGD Installation under Progress.
2. Work for DeNOx installation Unit 4 & 5 under Progress.