



MEGHALAYA POWER LIMITED

Lumshnong, Meghalaya

Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Wind Direction (deg)	Wind Speed- (m/s)	Manual Rain (mm)
01-10-2022	962.5	76.08	23.76	158.32	0.83	0
02-10-2022	963.22	96.91	23.6	133.39	1.01	48
03-10-2022	962.51	69.98	23.28	104.41	0.87	30.5
04-10-2022	961.8	61.42	23.34	317.25	0.7	0
05-10-2022	960.64	60.25	27.69	145.46	1.24	43
06-10-2022	959.5	70.24	29.34	154.44	0.77	0
07-10-2022	958.99	71.48	29.4	82.61	1.33	10
08-10-2022	958.89	82.07	23.47	347.05	1.81	18
09-10-2022	959.4	95.86	30.97	247.63	1.53	16
10-10-2022	958.24	96.89	33.5	249.74	1.91	5
11-10-2022	957.91	98.37	34.21	269.57	1.61	80
12-10-2022	959.47	67.35	29.31	104.41	1.68	38.6
13-10-2022	962.91	50.84	29.9	317.25	1.71	25.2
14-10-2022	963.23	49.95	27.26	145.46	5.13	0
15-10-2022	962.5	49.32	23.48	154.44	1.28	0
16-10-2022	963.22	60.25	23.71	82.61	0.71	0
17-10-2022	958.24	70.24	23.3	347.05	3.22	0
18-10-2022	957.91	71.48	32.29	247.63	1.28	0
19-10-2022	959.47	82.07	35.06	249.74	0.71	0
20-10-2022	962.91	95.86	23.48	269.57	3.22	0
21-10-2022	963.23	96.89	23.71	202.09	1.07	0
22-10-2022	962.5	98.37	23.3	130.42	0.72	0
23-10-2022	963.22	67.35	32.29	172.25	0.93	0
24-10-2022	962.51	50.84	35.06	193.15	1.53	55
25-10-2022	961.8	49.95	35.07	178.3	1.91	63
26-10-2022	960.64	49.32	36.08	202.26	1.61	10
27-10-2022	959.5	48.69	35.68	131.51	1.68	0
28-10-2022	958.99	46.2	35.81	148.8	2.06	0
29-10-2022	958.89	69.95	30.57	319.17	2.58	0
30-10-2022	959.4	74.53	29.55	302.38	3.62	0
31-10-2022	960.64	49.32	36.08	202.26	1.61	0
					Total rain of this month	442.3

	MEGHALAYA POWER LIMITED (8MW) Lumshnong, Meghalaya		Reference No.	MPL/Env/F – 01
			Issue No.	1
			Date of Issue:	24.08.2013
			Revision No.	5
AMBIENT AIR QUALITY MONITORING REPORT			Date of Rev.	01.12.2020
Reference No.: MPL (8 MW)/ENV/AAQM/MONTHLY/2022-23/13			Month: October'22	
Location of Sampling: Near ADM Office (South)			GPS Coordinate: 25°10'34"N 92°23'46"E 907 m	
Sampling Duration:	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.
Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
01.10.2022	48.48	27.26	8.14	11.78
04.10.2022	50.24	25.23	11.28	13.54
06.10.2022	46.70	29.76	10.05	12.55
10.10.2022	48.57	27.26	9.12	15.54
14.10.2022	47.40	28.44	9.60	11.90
15.10.2022	45.55	24.10	8.08	11.58
17.10.2022	46.22	30.76	9.27	11.58
18.10.2022	44.40	28.26	11.24	14.86
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m³)	60 (µg/m³)	80 (µg/m³)	80 (µg/m³)
Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.				
 Analysed by		 Checked by		 Verified By

	MEGHALAYA POWER LIMITED (8MW) Lumshnong, Meghalaya		Reference No.	MPL/Env/F – 01
			Issue No.	1
			Date of Issue:	24.08.2013
			Revision No.	5
AMBIENT AIR QUALITY MONITORING REPORT			Date of Rev.	01.12.2020
Reference No.: MPL (8 MW)/ENV/AAQM/MONTHLY/2022-23/14			Month: October'22	
Location of Sampling: Near STP		GPS Coordinate: 25°10'49"N 92°23'58"E 947 m		
Sampling Duration:	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.
Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
01.10.2022	46.29	23.76	16.25	16.54
04.10.2022	47.38	22.26	14.95	20.04
06.10.2022	46.36	25.76	12.85	17.90
10.10.2022	45.59	22.76	14.95	20.47
14.10.2022	44.90	25.21	15.60	17.40
15.10.2022	42.58	27.16	12.88	19.44
17.10.2022	42.90	27.76	13.60	21.58
18.10.2022	40.59	26.36	16.24	18.04
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)
Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.				
 Analysed by		 Checked by		 Verified By

	MEGHALAYA POWER LIMITED (8MW) Lumshnong, Meghalaya		Reference No.	MPL/Env/F – 01
			Issue No.	1
			Date of Issue:	24.08.2013
			Revision No.	5
AMBIENT AIR QUALITY MONITORING REPORT			Date of Rev.	01.12.2020
Reference No.: MPL (8 MW)/ENV/AAQM/MONTHLY/2022-23/15			Month: October'22	
Location of Sampling: Near Piezometer Well		GPS Coordinate: 25°10'35"N 92°23'53"E 348 m		
Sampling Duration:	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.
Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
01.10.2022	49.28	30.76	12.06	15.50
04.10.2022	47.90	25.34	13.60	17.25
06.10.2022	45.59	27.56	13.25	12.25
10.10.2022	47.47	31.24	11.18	14.90
14.10.2022	51.90	27.76	10.25	14.25
15.10.2022	46.25	29.41	11.25	12.90
17.10.2022	46.90	24.41	12.28	18.14
18.10.2022	43.52	23.40	9.60	11.43
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)
Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.				
 Analysed by		 Checked by		 Verified By



MEGHALAYA POWER LIMITED (8MW)
Lumshnong, Meghalaya

Reference No.	MPL/Env/F-02
Issue No.	1
Date of Issue:	01.05.2019
Revision No.	5
Date of Rev.	01.06.2021

STACK EMISSION MONITORING ANALYSIS REPORT

Report No: MPL(8MW)/ENV/STACK/MONTHLY/2022-23/07

Month: October'22

Analysis Result

A. General Information About Stack		
1	Stack Identification No	8 MW
2	Stack Connected to	Boiler
3	Material of Construction (Stack/Duct)	Mild Steel
4	Shape of duct	Circular
5	Whether duct is provided with permanent platform & ladder	Yes
B. Physical characteristic of stack		
1	Stack Height from ground level (meter)	45
2	Duct diameter at sampling point (meter)	2.08
3	Sampling height point from ground level (meter)	11
4	Cross sectional area of Duct/Stack (m ²)	3.4
C. Pollution Control Device		
1	Details of pollution control device attached to stack	ESP
D. Result of Sampling & Analysis of Gaseous Emission		
1	Date of Sampling	19.10.2022
2	Ambient Temp (°C)	40.00
3	Stack Gas Temp (°C)	105
4	Exit Velocity of Gas (m/sec.)	12.85
5	Flow Rate (Nm ³ / sec.)	31.88
6	Quantity of Emission (Nm ³ / Hr)	114758.63
7	Concentration of PM (mg/Nm ³)	20.2
8	Concentration of SO ₂ (mg/Nm ³)	312.5
9	Concentration of NO _x (mg/Nm ³)	210.9
10	Oxygen (O ₂) (%)	10.4
E. Remarks:		
Standard		
PM - 50 mg/Nm ³		SO ₂ - 600 mg/Nm ³
		NO _x - 300 mg/Nm ³
Particulate Matter (PM), Sulphur di-oxide (SO ₂), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP)		
		
Analysis by	Checked by	Authorized Signatory

	MEGHALAYA POWER LIMITED Lumshnong, Meghalaya		Document No.	MPL/EHS/Env/F-04
			Date of Issued	01-05-2019
			Revision No.	2
	FUGITIVE EMISSION MONITORING REPORT		Revision Date	01-01-2021
Ref: MPL(8MW)/ENV/FUGITIVE/MONTHLY/2022-23/007				
Month - October 2022				
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline	
			Limit	
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)	
27.10.2022	Coal Storage Section	1455	2000	
 Analyzed By  Checked By  Verified By				

	MEGHALAYA POWER LIMITED Lumshnong, Meghalaya				Reference No.	MPL/EHS/F-04
					Issue No.	1
	WATER TESTING REPORT				Date of Issue:	24.08.2013
					Revision No.	3
				Date of Rev.	01.06.2019	

Reference No.: MPL/ENV/WATER/MONTHLY/2022-23/07

Date of sample collection: - 10.10.2022
Date of Analysis: 10.10.2022 to 13.10.2022

Sl.No.	Parameter	Unit	STP Inlet	STP Outlet	Standard Norms For Discharge of Environment Pollution (Notification Date: - 19th May 1993) & Consent To Operate vide letter no. MPCB/TB-900 (Pt-II)/2014- 2015/34 - dated Shillong, the 3rd Sep,2014
1	pH	-	7.6	7.8	5.5 to 9.0
2	Colour	Hazen	Colourless	Colourless	-
3	Odour	-	Odourless	Odourless	-
4	Chloride	mg/L	39.7	42.1	-
5	Total Hardness as CaCO ₃	mg/L	82.1	85.5	-
6	Suspended Solids	mg/L	68.0	5.0	100
7	Total Dissolve Solids	mg/L	243	285	-
8	Chemical Oxygen Demand	mg/L	143	27.0	250
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	65.0	3.5	30
10	Oil & Grease	mg/L	9.7	< 3.0	10
11	Temperature	° C	25.0	25.0	Shall not exceed 5.0°C above the receiving water temperature
12	Conductivity	µS/cm	451.0	530	-


 Analysis By


 Checked By


 Verified By

	MEGHALAYA POWER LIMITED Lumshnong, Meghalaya			Reference No.	MPL/EHS/F-04
				Issue No.	1
	WATER TESTING REPORT			Date of Issue:	24.08.2013
				Revision No.	3
			Date of Rev.	01.06.2019	
Reference No.: MPL/ENV/WATER/MONTHLY/2022-23/07			Date of sample collection: - 10.10.2022 Date of Analysis: 10.10.2022 to 13.10.2022		
Sl.No.	Parameter	Unit	ETP Outlet	Standard Norms For Discharge of Environment Pollution (Notification Date:- 19th May 1993) & Consent To Operate vide letter no. MPCB/TB-900 (Pt-II)/2014-2015/34 – dated Shillong, the 3rd SEP, 2014.	
1	pH	-	7.4	5.5 to 9.0	
2	Suspended Solids	mg/L	18	100	
3	Total Dissolve Solids	mg/L	276	-	
4	Chemical Oxygen Demand	mg/L	38	250	
5	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	9.5	30	
6	Oil & Grease	mg/L	<3.0	10	
 Analysis By  Checked By  Verified By					

	STAR CEMENT LIMITED Lumshnong, Meghalaya										Reference No.	SCL/EHS/F-04		
											Issue No.	1		
											Date of Issue:	24.08.2013		
											Revision No.	3		
	WATER TESTING REPORT										Date of Rev.	01.06.2019		
Reference No.: SCL/ENV/WATER/MONTHLY/2022-23/07										Surface Water Analysis Results				Date of sample collection: - 14.10.2022
Month: October-2022										Date of Analysis: 14.10.2022 to 17.10.2022				
S.No.	Parameter	Unit	Umtyrngai Nallah		Umutha Nallah		Umso Nalah	Seshysmpa	Lumshnong	Umbadoh	Tongseng	Wahiajer	Standards norms as per IS 2296	
			Up Stream	Down Stream	Up Stream	Down Stream	Down Stream		Seasonal Spring / Seasonal Nallah					
1	pH	-	7.80	7.45	7.60	7.80	7.50	6.9	7.6	8.0	7.4	7.6	6.5 - 8.5	
2	Colour	Hazen	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	10	
3	Odour	-	Unobjectionable										Unobjectionable	
4	Chloride	mg/L	43.1	45.2	34.6	35.9	51.4	25.4	22.0	18.4	27.4	25.8	250	
5	Total Hardness as CaCO ₃	mg/L	69.8	76.0	73.5	78.5	80.0	40.3	28.2	75.6	37.4	50.1	300	
6	Suspended Solids	mg/L	14.0	20.0	17.5	19.0	20.0	7.0	4.0	5.9	2.0	6.5	-	
7	Total Dissolve Solids	mg/L	229	235	173	189	198	92.0	52.0	171.0	72.0	138.0	500	
8	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0	
9	Oil & Grease	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	
10	Temperature	° C	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	-	
11	Conductivity	μS/cm	382.0	391.0	295.0	310.0	325.0	170.0	95.8	345.0	124.0	327.0	-	
12	Flow	L / Min	6683.50	8537.10	1505.20	3920.30	61703.82	705864.30	2173.77	-	-	-	-	
   Analyzed by Checked by Verified by														