



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)
01-09-2022	958.04	80.09	27.78	180.42	1.53	2.6
02-09-2022	957.9	83.89	26.91	209.91	1.32	3.5
03-09-2022	958.14	89.78	25.6	220.21	1.06	60.2
04-09-2022	958.4	95.29	24.08	270.01	0.83	29.4
05-09-2022	958.91	96.41	23.98	308.46	1.01	18.0
06-09-2022	959.78	96.47	23.76	272.12	0.87	65.0
07-09-2022	960.4	97.86	23.6	283.88	0.7	30.0
08-09-2022	962.96	99.11	23.28	152.09	1.24	0.0
09-09-2022	963	99.19	23.34	150.25	0.77	0.0
10-09-2022	961.52	83.42	27.69	158.32	1.33	6.0
11-09-2022	960.52	74.81	29.34	133.39	1.81	14.0
12-09-2022	960.3	76.08	29.4	104.41	2.87	7.0
13-09-2022	961.3	96.91	23.47	317.25	0.77	15.0
14-09-2022	962.52	69.98	30.97	145.46	1.34	30.0
15-09-2022	961.99	61.42	33.5	154.44	0.68	28.0
16-09-2022	961.51	60.25	34.21	82.61	1.71	40.0
17-09-2022	958.24	70.24	29.31	347.05	5.13	0.0
18-09-2022	957.91	71.48	29.9	247.63	1.28	2.1
19-09-2022	959.47	82.07	27.26	249.74	0.71	26.6
20-09-2022	962.91	95.86	23.48	269.57	3.22	30.0
21-09-2022	963.23	96.89	23.71	202.09	1.07	33.0
22-09-2022	962.5	98.37	23.3	130.42	0.72	20.0
23-09-2022	963.22	67.35	32.29	172.25	0.93	6.0
24-09-2022	962.51	50.84	35.06	193.15	1.53	0.0
25-09-2022	961.8	49.95	35.07	178.3	1.91	0.0
26-09-2022	960.64	49.32	36.08	202.26	1.61	0.0
27-09-2022	959.5	48.69	35.68	131.51	1.68	0.0
28-09-2022	958.99	46.2	35.81	148.8	2.06	0.0
29-09-2022	958.89	69.95	30.57	319.17	2.58	0.0
30-09-2022	959.4	74.53	29.55	302.38	3.62	0.0
					Total rain of this month	466.4

	MEGHALAYA POWER LIMITED (43MW) 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 (43 MW)/ENV/AAQM/MONTHLY/2022-23/12			Month: September'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)
01.09.2022	47.38	29.63	8.22	11.24
08.09.2022	49.14	27.60	11.36	13.00
10.09.2022	45.60	32.13	10.13	12.01
12.09.2022	47.47	29.63	9.20	15.00
17.09.2022	46.30	30.81	9.68	11.36
23.09.2022	44.45	26.47	8.16	11.04
26.09.2022	45.12	33.13	9.35	11.04
28.09.2022	43.30	30.63	11.32	14.86
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 (43MW) 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 (43 MW)/ENV/AAQM/MONTHLY/2022-23/13			Month: September'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)
01.09.2022	45.19	26.13	16.33	16.00
08.09.2022	46.28	24.63	15.03	19.50
10.09.2022	45.26	28.13	12.93	17.36
12.09.2022	44.49	25.13	15.03	19.93
17.09.2022	43.80	27.58	15.68	16.86
23.09.2022	41.48	29.53	12.96	18.90
26.09.2022	41.80	30.13	13.68	21.04
28.09.2022	39.49	28.73	16.32	18.04
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 (43MW) 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 (43 MW)/ENV/AAQM/MONTHLY/2022-23/14			Month: September'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)
01.09.2022	48.18	33.13	12.14	14.96
08.09.2022	46.80	27.71	13.68	16.71
10.09.2022	44.49	29.93	13.33	11.71
12.09.2022	46.37	33.61	11.26	14.36
17.09.2022	50.80	30.13	10.33	13.71
23.09.2022	45.15	31.78	11.33	12.36
26.09.2022	45.80	26.78	12.36	17.60
28.09.2022	42.42	25.77	9.68	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 (43 MW) 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(43MW)/ENV/STACK/MONTHLY/2022-23/06		Month: September'22	
<u>Analysis Result</u>			
A.	General Information About Stack		
1	Stack Identification No	43 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)	81.0	
2	Duct diameter at sampling point (meter)	2.75	
3	Sampling height point from ground level (meter)	45.5	
4	Cross sectional area of Duct/Stack (m ²)	5.94	
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	17.09.2022	
2	Ambient Temp (°C)	45.00	
3	Stack Gas Temp (°C)	90.00	
4	Exit Velocity of Gas (m/sec.)	13.19	
5	Flow Rate (Nm ³ / sec.)	60.01	
6	Quantity of Emission (Nm ³ / Hr)	216039.61	
7	Concentration of PM (mg/Nm ³)	20.4	
8	Concentration of SO ₂ (mg/Nm ³)	254.0	
9	Concentration of NO _x (mg/Nm ³)	223.0	
10	Oxygen (O ₂) (%)	10.46	
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
	FUGITIVE EMISSION MONITORING REPORT		Revision No.	2
			Revision Date	01-01-2021
Ref: MPL(43MW)/ENV/FUGITIVE/MONTHLY/2022-23/006				
Month - September 2022				
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline	
			Limit	
		(in $\mu\text{g}/\text{m}^3$)		(in $\mu\text{g}/\text{m}^3$)
02.09.2022	Coal Storage Section	1436	2000	
 Analyzed By  Checked By  Verified By				

	MEGHALAYA POWER LIMITED (43 MW) Lumshnong, Meghalaya				Document No.		MPL/EHS/Env/F-03		
					Date of Issued		01-05-2019		
					Revision No.		04		
NOISE LEVEL MONITORING REPORT					Revision Date		01-01-2021		
Ref: MPL(43MW)/ENV/NOISE/MONTHLY/2022-23/002							Date: 09.09.2022		
Month - September 2022									
S. No.	Location	Measured Values dB(A) Day time (6:00am to 10:00pm)			Norms In dB(A)	Measured Values dB(A) Night time (10:00pm to 6:00am)			Norms in dB(A)
		Min.	Max.	Avg.		Min.	Max.	Avg.	
A	Plant								
1	Turbine House Ground Floor	65.6	70.1	67.9	75	61.8	68.5	65.2	70
2	Turbine House 9 Mt.	62.5	72.3	67.4		58.7	67.7	63.2	
3	RO – MCC	66.4	72.8	69.6		62.0	67.8	64.9	
4	Boiler Ground Floor	66.9	72.0	69.5		60.8	66.7	63.8	
5	CHP – MCC	66.4	72.9	69.7		55.0	58.8	56.9	
6	Office Area	60.7	69.9	65.3		52.5	66.0	59.3	
 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/2022-23/06					Date of sample collection: - 27.09.2022 Date of Analysis: 27.09.2022 to 30.09.2022
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	-	7.5	5.5 to 9.0	
2	Suspended Solids	mg/L	19	100	
3	Total Dissolve Solids	mg/L	277	-	
4	Chemical Oxygen Demand	mg/L	35.0	250	
5	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	7.8	30	
6	Oil & Grease	mg/L	<3.0	10	
 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/2022-23/06					Date of sample collection: - 27.09.2022	
					Date of Analysis: 27.09.2022 to 30.09.2022	
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	-	7.5	7.9	5.5 to 9.0	
2	Colour	Hazen	Colourless	Colourless	-	
3	Odour	-	Odourless	Odourless	-	
4	Chloride	mg/L	38.0	41.8	-	
5	Total Hardness as CaCO ₃	mg/L	84.0	88.0	-	
6	Suspended Solids	mg/L	65.0	4.5	100	
7	Total Dissolve Solids	mg/L	295	288	-	
8	Chemical Oxygen Demand	mg/L	158	28.0	250	
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	67.0	5.9	30	
10	Oil & Grease	mg/L	7.9	< 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	524.0	517	-	
 Analysis By  Checked By  Verified By						

