

MEGHALAYA POWER LIMITED

Ref: MPL (1 X 8 MW)/LUM/EHS/2023-24/23

Dated: 03/02/2024

To,

The Member Secretary,
Meghalaya State Pollution Control Board
'ARDEN', Lumpyngngad,
Shillong, Meghalaya – 793014

Subject : Submission of Environmental Monitoring Report for the month of January, 2024.

Reference : MPCB/CON-54/2007/2022-2023/85, Dated. Shillong, the 5th December, 2022.

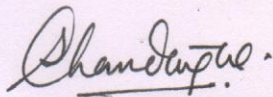
Dear Sir,

This is in reference to above cited subject, we are hereby submitting the monthly Environmental monitoring reports of Ambient Air Quality monitoring including meteorological data, Stack Emission, Fugitive Emission & Water (Ground, Surface, STP & ETP) quality monitoring reports of **Meghalaya Power Limited (8MW)** for the month of **January, 2024**.

This is for your kind information record please.

Thanking You,

Yours truly,
For **Meghalaya Power Limited (8 MW)**



Sharat Chandra Singha
Asst. General Manager Works

Enclosed: As mentioned above

Copy To: The Regional Director, Central Pollution Control Board (CPCB), North Eastern Zonal Office, 'TUMSIR', Lower Motinagar, Shillong, Meghalaya-793 014.



MEGHALAYA POWER LIMITED

Lumshnong, Meghalaya

Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)
01-01-2024	720.1	75.4	19.7	0.0
02-01-2024	717.5	74.2	19.0	0.0
03-01-2024	717.2	75.0	19.9	0.0
04-01-2024	723.4	73.3	19.7	0.0
05-01-2024	720.7	73.1	19.6	0.0
06-01-2024	726.5	74.4	19.0	0.0
07-01-2024	721.1	73.2	20.0	0.0
08-01-2024	723.8	73.0	19.0	0.0
09-01-2024	725.4	73.2	19.5	0.0
10-01-2024	723.1	74.3	19.9	0.0
11-01-2024	721.1	77.5	20.0	0.0
12-01-2024	720.6	76.6	21.7	0.0
13-01-2024	721.0	80.8	19.8	0.0
14-01-2024	723.8	77.9	19.9	0.0
15-01-2024	724.0	78.1	20.8	0.0
16-01-2024	723.4	75.3	20.4	0.0
17-01-2024	721.8	81.6	17.6	0.0
18-01-2024	720.2	80.8	16.2	0.0
19-01-2024	717.8	73.8	17.9	0.0
20-01-2024	723.4	66.8	17.8	0.0
21-01-2024	723.9	69.8	19.3	0.0
22-01-2024	721.6	74.6	19.6	0.0
23-01-2024	723.8	74.1	19.7	0.0
24-01-2024	725.4	72.0	20.9	0.0
25-01-2024	723.8	74.7	19.7	0.0
26-01-2024	718.6	71.4	18.9	0.0
27-01-2024	725.3	74.3	19.4	0.0
28-01-2024	723.1	75.7	19.9	0.0
29-01-2024	721.9	77.8	16.6	0.0
30-01-2024	722.7	76.6	19.0	0.0
31-01-2024	723.1	75.7	19.9	0.0
			Total	0.0

	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 (8MW)/ENV/AAQM/MONTHLY/2023-24/10			Month : January	
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)
02.01.2024	56.11	32.81	16.41	20.12
04.01.2024	58.47	30.78	17.71	21.86
06.01.2024	54.33	35.31	17.09	21.01
09.01.2024	56.20	32.81	19.71	24.00
11.01.2024	55.03	33.99	16.07	21.05
13.01.2024	53.18	29.65	18.11	21.97
16.01.2024	53.85	36.31	16.74	22.80
18.01.2024	52.03	33.81	15.29	21.94
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
	AMBIENT AIR QUALITY MONITORING REPORT		Date of Issue:	24.08.2013
			Revision No.	5
			Date of Rev.	01.12.2020
Reference No.: MPL (8MW)/ENV/AAQM/MONTHLY/2023-24/10			Month : January	
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)
02.01.2024	37.48	27.77	16.31	23.53
04.01.2024	39.48	26.74	17.51	27.03
06.01.2024	40.80	29.07	14.83	19.66
09.01.2024	45.15	30.23	15.45	21.66
11.01.2024	42.77	28.59	16.13	23.53
13.01.2024	40.47	27.05	16.85	21.32
16.01.2024	44.70	24.58	16.13	22.56
18.01.2024	42.99	22.75	15.18	20.57
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
	AMBIENT AIR QUALITY MONITORING REPORT		Date of Issue:	24.08.2013
			Revision No.	5
			Date of Rev.	01.12.2020
Reference No.: MPL (8MW)/ENV/AAQM/MONTHLY/2023-24/10			Month : January	
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)
02.01.2024	58.84	39.25	15.65	22.84
04.01.2024	57.46	33.83	17.19	21.64
06.01.2024	61.10	36.05	16.84	23.63
09.01.2024	62.60	39.73	14.77	22.50
11.01.2024	61.46	36.25	13.84	23.14
13.01.2024	55.81	37.90	14.84	22.10
16.01.2024	56.46	32.90	15.87	23.53
18.01.2024	53.08	31.89	13.19	23.62
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

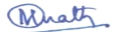
	MEGHALAYA POWER LIMITED (8MW) Lumshnong, Meghalaya		Reference No.	MPL/Env/F – 01
			Issue No.	1
	GROUND LEVEL AMBIENT AIR QUALITY MONITORING REPORT		Date of Issue:	24.08.2013
			Revision No.	5
			Date of Rev.	01.12.2020
Reference No.: MPL (8MW)/ENV/AAQM/MONTHLY/2023-24/10			Month : January	
Location of Sampling: Near ADM Office		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)
03.01.2024	50.51	28.37	13.84	19.18
05.01.2024	52.27	26.34	12.81	18.15
08.01.2024	48.73	30.87	15.14	20.48
10.01.2024	50.60	28.37	16.30	21.64
12.01.2024	49.43	29.55	16.84	20.00
15.01.2024	38.03	20.03	13.12	18.46
17.01.2024	48.25	31.87	14.41	19.19
19.01.2024	46.43	29.37	15.85	19.52
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
	GROUND LEVEL AMBIENT AIR QUALITY MONITORING REPORT		Date of Issue:	24.08.2013
			Revision No.	5
			Date of Rev.	01.12.2020
Reference No.: MPL (8MW)/ENV/AAQM/MONTHLY/2023-24/10			Month : January	
Location of Sampling: Behind DM Plant		GPS Coordinate: 25°10'43"N 92°23'50"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)
03.01.2024	46.27	30.58	16.31	21.26
05.01.2024	46.57	28.55	15.28	20.23
08.01.2024	47.68	33.08	17.61	22.56
10.01.2024	45.73	30.58	18.77	23.72
12.01.2024	44.24	31.76	17.13	22.08
15.01.2024	42.73	27.42	15.59	20.54
17.01.2024	44.25	34.08	11.66	18.07
19.01.2024	41.45	31.58	11.29	16.24
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 (8 MW) Lumshnong, Meghalaya		Reference No.	MPL/Env/F-02
			Issue No.	1
			Date of Issue:	01.05.2019
			Revision No.	5
STACK EMISSION MONITORING ANALYSIS REPORT		Date of Rev.	01.06.2021	
Report No: MPL(8MW)/Env/Stack/Monthly/2023-24/10			Month: January	
<u>Analysis Result</u>				
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	-		
2	Ambient Temp (°C)	-		
3	Stack Gas Temp (°C)	-		
4	Exit Velocity of Gas (m/sec.)	-		
5	Flow Rate (Nm ³ / sec.)	-		
6	Quantity of Emission (Nm ³ / Hr)	-		
7	Concentration of PM (mg/Nm ³)	-		
8	Concentration of SO ₂ (mg/Nm ³)	-		
9	Concentration of NO _x (mg/Nm ³)	-		
10	Oxygen (O ₂) (%)	-		
E.	Remarks: Monitoring of 8MW Boiler stack has not carried out due to shut down.			
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/2023-24/10				
Month - January				
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline	
			Limit	
			(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)
11.01.2024	Coal Storage Section	1409	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/2023-24/10					Date of sample collection: 06.01.2024	
					Date of Analysis: 06.01.2024 to 09.01.2024	
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	-	7.2	7.6	5.5 to 9.0	
2	Colour	Hazen	Yellowish	Colourless	-	
3	Odour	-	Odourless	Odourless	-	
4	Chloride	mg/L	79.9	82.0	-	
5	Total Hardness as CaCO ₃	mg/L	56.0	57.2	-	
6	Suspended Solids	mg/L	80	24.0	100	
7	Total Dissolve Solids	mg/L	318	328	-	
8	Chemical Oxygen Demand	mg/L	264	48	250	
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	87	12.0	30	
10	Oil & Grease	mg/L	2.4	< 3.0	10	
11	Temperature	° C	25	25	Shall not exceed 5.0°C above the receiving water temperature	
12	Conductivity	µS/cm	488	495	-	
 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/2023-24/10					Date of sample collection: 06.01.2024 Date of Analysis: 06.01.2024 to 09.01.2024
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	-	7.6	5.5 to 9.0	
2	Suspended Solids	mg/L	40	100	
3	Total Dissolve Solids	mg/L	325	-	
4	Chemical Oxygen Demand	mg/L	49	250	
5	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	18	30	
6	Oil & Grease	mg/L	<3.0	10	
 Analysis By  Checked By  Verified By					

