

MEGHALAYA POWER LIMITED (8MW) Lumshnong, Meghalaya		Reference No.		MPL/Env/F – 01	
		Issue No.		1	
		Date of Issue:		24.08.2013	
AMBIENT AIR QUALITY MONITORING REPORT		Revision No.		5	
		Date of Rev.		01.12.2020	
Reference No.: MPL (8 MW)/ENV/AAQM/MONTHLY/2021-22/33		Month: March'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)	
02.03.2022	50.58	32.50	9.54	13.88	
05.03.2022	52.34	30.47	12.68	15.64	
09.03.2022	48.80	35.00	11.45	14.65	
12.03.2022	50.67	32.50	10.52	17.64	
16.03.2022	49.50	33.68	11.00	14.00	
18.03.2022	47.65	29.34	9.48	13.68	
19.03.2022	48.32	36.00	10.67	13.68	
23.03.2022	46.50	33.50	12.64	17.50	
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


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		Date of Rev.		01.12.2020	
Reference No.: MPL (8 MW)/ENV/AAQM/MONTHLY/2021-22/34		Month: March'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)	
02.03.2022	48.39	29.00	17.65	18.64	
05.03.2022	49.48	27.50	16.35	22.14	
09.03.2022	48.46	31.00	14.25	20.00	
12.03.2022	47.69	28.00	16.35	22.57	
16.03.2022	47.00	30.45	17.00	19.50	
18.03.2022	44.68	32.40	14.28	21.54	
19.03.2022	45.00	33.00	15.00	23.68	
23.03.2022	42.69	31.60	17.64	20.68	
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)	

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		Date of Rev.		01.12.2020	
Reference No.: MPL (8 MW)/ENV/AAQM/MONTHLY/2021-22/35		Month: March'22			
Location of Sampling: Near Piezometer		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)	
02.03.2022	51.38	36.00	13.46	17.60	
05.03.2022	50.00	30.58	15.00	19.35	
09.03.2022	47.69	32.80	14.65	14.35	
12.03.2022	49.57	36.48	12.58	17.00	
16.03.2022	54.00	33.00	11.65	16.35	
18.03.2022	48.35	34.65	12.65	15.00	
19.03.2022	49.00	29.65	13.68	20.24	
23.03.2022	45.62	28.64	11.00	14.07	
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.


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MEGHALAYA POWER LIMITED (8MW) Lumshnong, Meghalaya		Reference No.	MPL/Env/F-02
		Issue No.	1
		Date of Issue:	01.05.2019
STACK EMISSION MONITORING ANALYSIS REPORT		Revision No.	5
		Date of Rev.	01.06.2021
Report No: MPL/ENV/STACK/MONTHLY/2021-22/04		Month: March'22	
<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	29.03.2022	
2	Ambient Temp (°C)	26.00	
3	Stack Gas Temp (°C)	105	
4	Exit Velocity of Gas (m/sec.)	13.75	
5	Flow Rate (Nm ³ / sec.)	33.78	
6	Quantity of Emission (Nm ³ / Hr)	121615.34	
7	Concentration of PM (mg/Nm ³)	19.42	
8	Concentration of SO ₂ (mg/Nm ³)	270.25	
9	Concentration of NO _x (mg/Nm ³)	125.36	
10	Oxygen (O ₂) (%)	9.25	
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 (8 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(8MW)/ENV/NOISE/MONTHLY/2021-22/006								Date: 29.03.2022	
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	65.9	70.4	68.2	75	62.3	69.0	65.7	70
2	Turbine House 9 Mt.	62.8	72.6	67.7		59.2	68.2	63.7	
3	RO – MCC	66.7	73.1	69.9		62.5	68.3	65.4	
4	Boiler Ground Floor	67.2	72.3	69.8		61.3	67.2	64.3	
5	CHP – MCC	66.7	73.2	70.0		55.5	59.3	57.4	
6	Office Area	61.0	70.2	65.6		53.0	66.5	59.8	



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Verified By:

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/ENV/FUGITIVE/MONTHLY/2021-22/012

Month - March' 2022

Date	Location	Fugitive Emission Results	Limit
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)
14.03.2022	Coal Storage Section	1670	2000


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MEGHALAYA POWER 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

Report No. - 11

Date of sample collection: - 11.03.2022
Date of Analysis: 11.03.2022 to 14.03.2022

Sr.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	-	7.43	5.5 to 9.0
2	Suspended Solids	mg/L	15.3	100
3	Total Dissolve Solids	mg/L	275	-
4	Chemical Oxygen Demand	mg/L	23.6	250
5	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	5.2	30
6	Oil & Grease	mg/L	<3	10


Analysis By


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