

<b>MEGHALAYA POWER LIMITED (43 MW)</b> 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 (43 MW)/ENV/AAQM/MONTHLY/2022-23/36		Month: June'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.	24 Hrs.
Date of Sampling	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	
No Monitoring Due To Heavy Rainfall					
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m <sup>3</sup> )	60 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )	

**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

<b>MEGHALAYA POWER LIMITED (43 MW)</b> Lumshnong, Meghalaya		Reference No.		MPL/Env/F – 01
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AMBIENT AIR QUALITY MONITORING REPORT		Revision No.		5
		Date of Rev.		01.12.2020
Reference No.: MPL (43 MW)/ENV/AAQM/MONTHLY/2022-23/37		Month: June'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 <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
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AMBIENT AIR QUALITY MONITORING REPORT		Revision No.		5
		Date of Rev.		01.12.2020
Reference No.: MPL (43 MW)/ENV/AAQM/MONTHLY/2022-23/38		Month: June'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 <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
No Monitoring Due To Heavy Rainfall				
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m <sup>3</sup> )	60 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )

**Remarks:** All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.

  
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<b>MEGHALAYA POWER LIMITED (43 MW)</b> 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
<b>Report No:</b> MPL/ENV/STACK/MONTHLY/2022-23/15		Month: June'22	
<b><u>Analysis Result</u></b>			
<b>A. General Information About Stack</b>			
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>B. Physical characteristic of stack</b>			
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 <sup>2</sup> )	5.94	
<b>C. Pollution Control Device</b>			
1	Details of pollution control device attached to stack	ESP	
<b>D. Result of Sampling &amp; Analysis of Gaseous Emission</b>			
1	Date of Sampling	09.06.2022	
2	Ambient Temp (°C)	28.00	
3	Stack Gas Temp (°C)	60.00	
4	Exit Velocity of Gas (m/sec.)	13.48	
5	Flow Rate (Nm <sup>3</sup> / sec.)	66.52	
6	Quantity of Emission (Nm <sup>3</sup> / Hr)	239459.25	
7	Concentration of PM (mg/Nm <sup>3</sup> )	20.10	
8	Concentration of SO <sub>2</sub> (mg/Nm <sup>3</sup> )	270.35	
9	Concentration of NO <sub>x</sub> (mg/Nm <sup>3</sup> )	345.28	
10	Oxygen (O <sub>2</sub> ) (%)	10.87	
<b>E. Remarks:</b>			
Standard			
PM - 50 mg/Nm <sup>3</sup>		SO <sub>2</sub> - 600 mg/Nm <sup>3</sup>	
		NO <sub>x</sub> - 300 mg/Nm <sup>3</sup>	
Particulate Matter (PM), Sulphur di-oxide (SO <sub>2</sub> ), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP)			
<div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">   <b>Analysis by</b> </div> <div style="text-align: center;">   <b>Checked by</b> </div> <div style="text-align: center;">   <b>Authorized Signatory</b> </div> </div>			

<b>MEGHALAYA POWER LIMITED</b> 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
<b>Ref: MPL/ENV/FUGITIVE/MONTHLY/2022-23/015</b>			
<b>Month - June 2022</b>			
Location	Fugitive Emission Results	Limit	
	(in $\mu\text{g}/\text{m}^3$ )	(in $\mu\text{g}/\text{m}^3$ )	
Coal Storage Section	Due to Heavy Rain fall	2000	



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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/2021-22/007								Date: 02.06.2022	
Month - June 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	63.8	68.3	66.1	75	60.0	66.7	63.4	70
2	Turbine House 9 Mt.	60.7	70.5	65.6		56.9	65.9	61.4	
3	RO – MCC	64.6	71.0	67.8		60.2	66.0	63.1	
4	Boiler Ground Floor	65.1	70.2	67.7		59.0	64.9	62.0	
5	CHP – MCC	64.6	71.1	67.9		53.2	57.0	55.1	
6	Office Area	58.9	68.1	63.5		50.7	64.2	57.5	

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

Report No. - 03			Date of sample collection: - 14.06.2022 Date of Analysis: 14.06.2022 to 17.06.2022	
Sr.No.	Parameter	Unit	STP Inlet	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	-	7.50	-
2	Colour	Hazen	Colourless	-
3	Odour	-	Odourless	-
4	Chloride	mg/L	61.2	-
5	Total Hardness as CaCO <sub>3</sub>	mg/L	145.0	-
6	Suspended Solids	mg/L	80.0	-
7	Total Dissolve Solids	mg/L	240	-
8	Chemical Oxygen Demand	mg/L	175	-
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	98.0	-
10	Oil & Grease	mg/L	8.0	-
11	Temperature	° C	24.0	-
12	Conductivity	μS/cm	430.0	-



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	Issue No.	1
	Date of Issue:	24.08.2013
	Revision No.	3
<b>WATER TESTING REPORT</b>	Date of Rev.	01.06.2019

Report No. - 03			Date of sample collection: - 14.06.2022 Date of Analysis: 14.06.2022 to 17.06.2022	
Sr.No.	Parameter	Unit	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	-	7.80	5.5 to 9.0
2	Colour	Hazen	Colourless	-
3	Odour	-	Odourless	-
4	Chloride	mg/L	47.5	-
5	Total Hardness as CaCO <sub>3</sub>	mg/L	130.7	-
6	Suspended Solids	mg/L	7.9	100
7	Total Dissolve Solids	mg/L	310	-
8	Chemical Oxygen Demand	mg/L	25.0	250
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	5.2	30
10	Oil & Grease	mg/L	< 3.0	10
11	Temperature	° C	24.5	Shall not exceed 5.0°C above the receiving water temperature
12	Conductivity	µS/cm	490	-



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

Report No. - 14	Date of sample collection: - 13.06.2022 Date of Analysis: 13.06.2022 to 16.06.2022
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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	-	7.6	5.5 to 9.0
2	Suspended Solids	mg/L	14.9	100
3	Total Dissolve Solids	mg/L	244	-
4	Chemical Oxygen Demand	mg/L	29.2	250
5	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	5.8	30
6	Oil & Grease	mg/L	<3	10



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

Report No. -03

Date of sample collection: - 14.06.2022

Date of Analysis: 14.06.2022 to 17.06.2022

Sr.No.	Parameter	Unit	Nala Up Stream	Nala Down Stream	Standards norms as per IS 2296
1	pH	-	7.30	7.45	6.5 - 8.5
2	Colour	Hazen	Colourless	Colourless	300
3	Odour	-	Unobjectionable	Unobjectionable	Unobjectionable
4	Chloride	mg/L	141.0	143.1	-
5	Total Hardness as CaCO <sub>3</sub>	mg/L	15.2	13.1	300
6	Suspended Solids	mg/L	84.1	81.5	-
7	Total Dissolve Solids	mg/L	84	83.1	500
8	Chemical Oxygen Demand	mg/L	ND	ND	-
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	ND	ND	2.0
10	Oil & Grease	mg/L	ND	ND	-
11	Temperature	° C	24.0	24.0	-
12	Conductivity	μS/cm	337.50	326.5	-



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