

# MEGHALAYA POWER LIMITED

Corporate Office : Satyam Tower, 3 Alipore Road, 1<sup>st</sup> Floor, Unit No. 9B, Kolkata-700027

Ref: MPL (1 X 43 MW)/LUM/ EHS/2022-23/08

Dated: 22/06/2022

To,

The Member Secretary,  
Meghalaya State Pollution Control Board  
'ARDEN', Lumpynggad,  
Shillong, Meghalaya - 793014

**Subject** : Monthly Environment Monitoring Report.

**Reference** : MPCB/CON-64/2011/2021-2022/145, Dated. Shillong, the 22<sup>nd</sup> September, 2021.

Dear Sir,

Please find enclosed herewith the monthly Environmental monitoring reports of Ambient Air Quality including meteorological data, Stack Emission, Fugitive Emission & Waste water (STP & ETP) quality monitoring reports of M/s Meghalaya Power Limited for the month of **May, 2022.**

This is for your kind information record please.

Thanking You,

Yours truly,  
For *Meghalaya Power Limited*

  
Arvind Rai  
Sr. General Manager Works

**Enclosed:** As mentioned above

**Copy To:** 1) The Deputy Director General of Forest (Central), Ministry of Environment Forest & Climate Change, Govt. of India, Regional Office, Shillong, Meghalaya-793021.  
2) The Regional Director, Central Pollution Control Board (CPCB), North Eastern Zonal Office, 'TUMSIR', Lower Motinagar, Shillong, Meghalaya-790314.

<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/2022-23/35		Month: May'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
		Issue No.		1
		Date of Issue:		24.08.2013
<b>AMBIENT AIR QUALITY MONITORING REPORT</b>		Revision No.		5
		Date of Rev.		01.12.2020
Reference No.: MPL (43 MW)/ENV/AAQM/MONTHLY/2022-23/36		Month: May'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> )
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 – 01
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		Date of Issue:		24.08.2013
<b>AMBIENT AIR QUALITY MONITORING REPORT</b>		Revision No.		5
		Date of Rev.		01.12.2020
Reference No.: MPL (43 MW)/ENV/AAQM/MONTHLY/2022-23/37		Month: May'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
		Revision No.	5
STACK EMISSION MONITORING ANALYSIS REPORT		Date of Rev.	01.06.2021
<b>Report No:</b> MPL/ENV/STACK/MONTHLY/2022-23/14 Month: May'22			
<u><b>Analysis Result</b></u>			
<b>A. General Information About Stack</b>			
1	Stack Identification No	<b>43 MW</b>	
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	28.05.2022	
2	Ambient Temp (°C)	26.00	
3	Stack Gas Temp (°C)	55.00	
4	Exit Velocity of Gas (m/sec.)	13.60	
5	Flow Rate (Nm <sup>3</sup> / sec.)	67.98	
6	Quantity of Emission (Nm <sup>3</sup> / Hr)	244722.24	
7	Concentration of PM (mg/Nm <sup>3</sup> )	17.67	
8	Concentration of SO <sub>2</sub> (mg/Nm <sup>3</sup> )	290.35	
9	Concentration of NO <sub>x</sub> (mg/Nm <sup>3</sup> )	320.45	
10	Oxygen (O <sub>2</sub> ) (%)	10.54	
<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)			
 <b>Analysis by</b>		 <b>Checked by</b>	
 <b>Authorized Signatory</b>			

<b>MEGHALAYA POWER LIMITED</b>  Lumshnong, Meghalaya	Document No.	MPL/EHS/Env/F-04
	Date of Issued	01-05-2019
	Revision No.	2
<b>FUGITIVE EMISSION MONITORING REPORT</b>	Revision Date	01-01-2021

Ref: MPL/ENV/FUGITIVE/MONTHLY/2022-23/014

Month - May' 2022

Date	Location	Fugitive Emission Results	Limit
		(in $\mu\text{g}/\text{m}^3$ )	(in $\mu\text{g}/\text{m}^3$ )
07.05.2022	Coal Storage Section	1390	2000



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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. - 02			Date of sample collection: - 20.05.2022	
			Date of Analysis: 20.05.2022 to 23.05.2022	
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	-	7.25	-
2	Colour	Hazen	Colourless	-
3	Odour	-	Odourless	-
4	Chloride	mg/L	60.5	-
5	Total Hardness as CaCO <sub>3</sub>	mg/L	143.8	-
6	Suspended Solids	mg/L	79.5	-
7	Total Dissolve Solids	mg/L	235	-
8	Chemical Oxygen Demand	mg/L	181	-
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	94.0	-
10	Oil & Grease	mg/L	8.5	-
11	Temperature	° C	24.0	-
12	Conductivity	μS/cm	440.0	-



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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. - 02			Date of sample collection: - 20.05.2022 Date of Analysis: 20.05.2022 to 23.05.2022	
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	-	7.50	5.5 to 9.0
2	Colour	Hazen	Colourless	-
3	Odour	-	Odourless	-
4	Chloride	mg/L	49.5	-
5	Total Hardness as CaCO <sub>3</sub>	mg/L	138.6	-
6	Suspended Solids	mg/L	7.8	100
7	Total Dissolve Solids	mg/L	312	-
8	Chemical Oxygen Demand	mg/L	28.6	250
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	4.9	30
10	Oil & Grease	mg/L	< 3.0	10
11	Temperature	° C	24.0	Shall not exceed 5.0°C above the receiving water temperature
12	Conductivity	µS/cm	462	-



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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. - 13

Date of sample collection: - 14.04.2022  
Date of Analysis: 14.05.2022 to 17.05.2022

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	-	7.58	5.5 to 9.0
2	Suspended Solids	mg/L	14.6	100
3	Total Dissolve Solids	mg/L	250	-
4	Chemical Oxygen Demand	mg/L	25.4	250
5	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	5.4	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. -02 Date of sample collection: - 20.05.2022  
Date of Analysis: 20.05.2022 to 23.05.2022

Sr.No.	Parameter	Unit	Nala Up Stream	Nala Down Stream	Standards norms as per IS 2296
1	pH	-	7.45	7.26	6.5 - 8.5
2	Colour	Hazen	Colourless	Colourless	300
3	Odour	-	Unobjectionable	Unobjectionable	Unobjectionable
4	Chloride	mg/L	140.2	143.9	-
5	Total Hardness as CaCO <sub>3</sub>	mg/L	14.6	12.8	300
6	Suspended Solids	mg/L	83.4	80.5	-
7	Total Dissolve Solids	mg/L	85	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	335.40	325.9	-



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