

# MEGHALAYA POWER LIMITED

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Ph: +91 33 2448 4169 / 4170 / 4693, Fax: +91 332448 4168, e-mail: [kolkata@starcement.co.in](mailto:kolkata@starcement.co.in)

Ref: MPL (1 X 8 MW)/LUM/EHS/2022-23/06

Dated: 22/06/2022

To,

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

**Subject** : Monthly Environment Monitoring Report.

**Reference** : MPCB/CON-54/2007/2019-2020/80, Dated. Shillong, the 1<sup>st</sup> November, 2019.

Dear Sir,

This is in reference to above cited subject, 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-793 014.
- 3) The Member Secretary, State Environment Impact Assessment Authority (SEIAA), 'Silviculture Building' Lower Lachumiere, Shillong – 793001, Meghalaya

<b>MEGHALAYA POWER LIMITED (8MW)</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 (8 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.
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 (8MW)</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 (8 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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		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 (8 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</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
Report No: MPL/Env/Stack/Monthly/2022-23/06		Month: May'22	
<b><u>Analysis Result</u></b>			
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 <sup>2</sup> )	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 <sup>3</sup> / sec.)	-	
6	Quantity of Emission (Nm <sup>3</sup> / Hr)	-	
7	Concentration of PM (mg/Nm <sup>3</sup> )	-	
8	Concentration of SO <sub>2</sub> (mg/Nm <sup>3</sup> )	-	
9	Concentration of NO <sub>x</sub> (mg/Nm <sup>3</sup> )	-	
10	Oxygen (O <sub>2</sub> ) (%)	-	
E.	Remarks: Monitoring of 8MW Boiler stack has not carried out due to shut down.		
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;">   Analysis by </div> <div style="text-align: center;">   Checked by </div> <div style="text-align: center;">   Authorized Signatory </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

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
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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	-	7.58	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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