

MEGHALAYA POWER LIMITED

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

Ref: MPL (1 X 43 MW)/LUM/ EHS/2022-23/05

Dated: 21/05/2022

To,

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

Subject : Monthly Environment Monitoring Report.

Reference : MPCB/CON-64/2011/2021-2022/145, Dated. Shillong, the 22nd 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 **April, 2022.**

This is for your kind information record please.

Thanking You,

Yours truly,

For *Meghalaya Power Limited*

For, Chandruphe.

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.

MEGHALAYA POWER LIMITED (43 MW) 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/2022-23/34		Month: April'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)
No monitoring due to Rainfall				
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 (43 MW) 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: April'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)
No monitoring due to Rainfall				
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

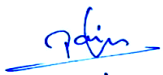


MEGHALAYA POWER LIMITED (43 MW) Lumshnong, Meghalaya		Reference No.		MPL/Env/F – 01
		Issue No.		1
		Date of Issue:		24.08.2013
AMBIENT AIR QUALITY MONITORING REPORT		Revision No.		5
		Date of Rev.		01.12.2020
Reference No.: MPL (43 MW)/ENV/AAQM/MONTHLY/2022-23/36			Month: April'22	
Location of Sampling: 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)
No monitoring due to Rainfall				
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 (43 MW) Lumshnong, Meghalaya		Reference No.	MPL/Env/F-02
		Issue No.	1
STACK EMISSION MONITORING ANALYSIS REPORT		Date of Issue:	01.05.2019
		Revision No.	5
		Date of Rev.	01.06.2021
Report No: MPL/ENV/STACK/MONTHLY/2022-23/13		Month: April'22	
<u>Analysis Result</u>			
A.	General Information About Stack		
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.	Physical characteristic of stack		
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 ²)	5.94	
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	20.04.2022	
2	Ambient Temp (°C)	24.00	
3	Stack Gas Temp (°C)	50.00	
4	Exit Velocity of Gas (m/sec.)	13.15	
5	Flow Rate (Nm ³ / sec.)	66.59	
6	Quantity of Emission (Nm ³ / Hr)	239706.75	
7	Concentration of PM (mg/Nm ³)	19.06	
8	Concentration of SO ₂ (mg/Nm ³)	430.25	
9	Concentration of NO _x (mg/Nm ³)	220.65	
10	Oxygen (O ₂) (%)	10.35	
E.	Remarks:		
Standard			
PM - 50 mg/Nm ³		SO ₂ - 600 mg/Nm ³	NO _x - 300 mg/Nm ³
<i>Particulate Matter (PM), Sulphur di-oxide (SO₂), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP)</i>			
 Analysis by		 Checked by	
 Authorized Signatory			

MEGHALAYA POWER LIMITED Lumshnong, Meghalaya	Document No.	MPL/EHS/Env/F-04
	Date of Issued	5/1/2019
	Revision No.	2
FUGITIVE EMISSION MONITORING REPORT	Revision Date	1/1/2021

Ref: MPL/ENV/FUGITIVE/MONTHLY/2022-23/013

Month - April' 2022

Date	Location	Fugitive Emission Results	Limit
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)
07.04.2022	Coal Storage Section	1385	2000


Analyzed By


Checked By


Verified By

MEGHALAYA POWER LIMITED Lumshnong, Meghalaya	Reference No.	SCML/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. - 01			Date of sample collection: - 13.04.2022 Date of Analysis: 13.04.2022 to 16.04.2022	
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	-	7.10	-
2	Colour	Hazen	Colourless	-
3	Odour	-	Odourless	-
4	Chloride	mg/L	63.5	-
5	Total Hardness as CaCO ₃	mg/L	142.7	-
6	Suspended Solids	mg/L	78.9	-
7	Total Dissolve Solids	mg/L	230	-
8	Chemical Oxygen Demand	mg/L	176	-
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	90.0	-
10	Oil & Grease	mg/L	7.5	-
11	Temperature	° C	24.0	-
12	Conductivity	μS/cm	455.0	-


Analysis By


Checked BY


Verified By

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

Report No. - 01			Date of sample collection: - 13.04.2022 Date of Analysis: 13.04.2022 to 16.04.2022	
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 ₃	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	-


Analysis By


Checked BY


Verified By

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. - 12

Date of sample collection: - 18.04.2022
Date of Analysis: 18.04.2022 to 21.04.2022

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


Checked By


Verified By

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

Report No. -01

Date of sample collection: - 05.04.2022

Date of Analysis: 05.04.2022 to 08.04.2022

Sr.No.	Parameter	Unit	Nala Up Stream	Nala Down Stream	Standards norms as per IS 2296
1	pH	-	7.40	7.30	6.5 - 8.5
2	Colour	Hazen	Colourless	Colourless	300
3	Odour	-	Unobjectionable	Unobjectionable	Unobjectionable
4	Chloride	mg/L	141.5	144.5	-
5	Total Hardness as CaCO ₃	mg/L	15.7	12.6	300
6	Suspended Solids	mg/L	82.0	80.9	-
7	Total Dissolve Solids	mg/L	86	82.4	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	25.0	25.0	-
12	Conductivity	µS/cm	332.05	322.6	-


Analysis By


Checked BY


Verified By