

STAR CEMENT MEGHALAYA LIMITED

Ref: SCML/EHS/LUM/2024-25/31

Dated: 04/09/2024

To,

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

Subject : Submission of Environmental Monitoring Report for the month of August, 2024.

Reference : MPCB/CON-54/2007/2024-2025/89, Dtd: Shillong, the 19th June, 2024.

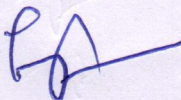
Dear Sir,

This is in reference to above cited subject, we are hereby submitting the monthly Environmental monitoring reports of Ambient Air Quality monitoring including meteorological data, Stack Emission, Fugitive Emission & Water (Ground, Surface, STP & ETP) quality monitoring reports of **Star Cement Meghalaya Limited** (formerly known as *Meghalaya Power Limited - 8 MW*) for the month of **August, 2024**.

This is for your kind information, record and kindly acknowledge receipt of the same.

Thanking You,

Yours truly,
For **STAR CEMENT MEGHALAYA LIMITED**



Laxmaiah Munjala
Unit Head

Enclosed: a/a

Copy To: The Regional Director, Central Pollution Control Board (CPCB), North Eastern Zonal Office, 'TUMSIR', Lower Motinagar, Shillong, Meghalaya-790314.



STAR CEMENT MEGHALAYA LIMITED
(Thermal Power Plant)
Lumshnong, Meghalaya

Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)
01-08-2024	719.0	72.4	19.2	11.8
02-08-2024	716.4	71.2	18.5	13.2
03-08-2024	716.1	72.0	19.4	0.0
04-08-2024	722.3	70.3	19.2	0.0
05-08-2024	719.6	70.1	19.1	0.0
06-08-2024	725.4	71.4	18.5	12.0
07-08-2024	720.0	70.2	20.0	27.0
08-08-2024	722.7	70.0	19.0	16.9
09-08-2024	724.3	70.2	19.0	10.6
10-08-2024	722.0	71.3	19.4	22.3
11-08-2024	720.0	74.5	19.5	37.0
12-08-2024	719.5	73.6	21.2	55.0
13-08-2024	719.9	77.8	19.3	6.2
14-08-2024	722.7	74.9	19.4	0.0
15-08-2024	722.9	75.1	20.3	5.4
16-08-2024	722.3	72.3	19.9	0.0
17-08-2024	720.7	78.6	17.1	6.2
18-08-2024	719.1	77.8	15.7	13.0
19-08-2024	716.7	70.8	17.4	8.0
20-08-2024	722.3	63.8	17.3	38.6
21-08-2024	722.8	66.8	18.8	20.0
22-08-2024	720.5	71.6	19.1	5.0
23-08-2024	722.7	71.1	19.2	10.0
24-08-2024	724.3	69.0	20.4	24.8
25-08-2024	722.7	71.7	19.2	0.0
26-08-2024	717.5	68.4	18.4	0.0
27-08-2024	724.2	71.3	18.9	0.0
28-08-2024	722.0	72.7	19.4	0.0
29-08-2024	720.8	74.8	16.1	0.0
30-08-2024	720.8	74.8	16.1	0.0
31-08-2024	722.7	71.7	19.2	7.8
			Total	350.8

	STAR CEMENT MEGHALAYA LIMITED THERMAL POWER PLANT (8MW) Lumshnong, Meghalaya		Reference No.	MPL/Env/F – 01
			Issue No.	1
			Date of Issue:	24.08.2013
			Revision No.	5
AMBIENT AIR QUALITY MONITORING REPORT			Date of Rev.	01.12.2020
Reference No.: MPL (8MW)/ENV/AAQM/MONTHLY/2024-25/17			Month : August	
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)
03.08.2024	60.46	36.61	16.10	18.34
14.08.2024	62.82	34.58	17.40	20.08
26.08.2024	58.68	39.11	16.78	19.23
Heavy Rainfall				
Heavy Rainfall	Rainfall Data Attached			
Heavy Rainfall				
Heavy Rainfall				
Heavy 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

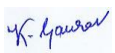
	STAR CEMENT MEGHALAYA LIMITED THERMAL POWER PLANT (8MW) Lumshnong, Meghalaya		Reference No.	MPL/Env/F – 01
			Issue No.	1
			Date of Issue:	24.08.2013
			Revision No.	5
AMBIENT AIR QUALITY MONITORING REPORT		Date of Rev.	01.12.2020	
Reference No.: MPL (8MW)/ENV/AAQM/MONTHLY/2024-25/17			Month : August	
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)
03.08.2024	41.83	31.57	16.00	21.75
14.08.2024	43.83	30.54	17.20	25.25
26.08.2024	45.15	32.87	14.52	17.88
Heavy Rainfall				
Heavy Rainfall	Rainfall Data Attached			
Heavy Rainfall				
Heavy Rainfall				
Heavy Rainfall				
Heavy 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

	STAR CEMENT MEGHALAYA LIMITED THERMAL POWER PLANT (8MW) Lumshnong, Meghalaya		Reference No.	MPL/Env/F – 01
			Issue No.	1
			Date of Issue:	24.08.2013
			Revision No.	5
AMBIENT AIR QUALITY MONITORING REPORT		Date of Rev.	01.12.2020	
Reference No.: MPL (8MW)/ENV/AAQM/MONTHLY/2024-25/17			Month : August	
Location of Sampling: Near Piezometer Well		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)
03.08.2024	63.19	43.05	15.34	21.06
14.08.2024	61.81	37.63	16.88	19.86
26.08.2024	65.45	39.85	16.53	21.85
Heavy Rainfall				
Heavy Rainfall	Rainfall Data Attached			
Heavy Rainfall				
Heavy Rainfall				
Heavy Rainfall				
Heavy 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

	STAR CEMENT MEGHALAYA LIMITED THERMAL POWER PLANT (8MW) Lumshnong, Meghalaya		Reference No.	MPL/Env/F – 01
			Issue No.	1
			Date of Issue:	24.08.2013
			Revision No.	5
GROUND LEVEL AMBIENT AIR QUALITY MONITORING REPORT			Date of Rev.	01.12.2020
Reference No.: MPL (8MW)/ENV/AAQM/MONTHLY/2024-25/17			Month : August	
Location of Sampling: Near ADM Office		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)
05.08.2024	54.86	32.17	13.53	17.40
16.08.2024	56.62	30.14	12.50	16.37
27.08.2024	53.08	34.67	14.83	18.70
Heavy Rainfall	Rainfall Data Attached			
Heavy Rainfall				
Heavy Rainfall				
Heavy Rainfall				
Heavy 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

	STAR CEMENT MEGHALAYA LIMITED THERMAL POWER PLANT (8MW) Lumshnong, Meghalaya		Reference No.	MPL/Env/F – 01
			Issue No.	1
			Date of Issue:	24.08.2013
			Revision No.	5
GROUND LEVEL AMBIENT AIR QUALITY MONITORING REPORT		Date of Rev.	01.12.2020	
Reference No.: MPL (8MW)/ENV/AAQM/MONTHLY/2024-25/17			Month : August	
Location of Sampling: Behind DM Plant		GPS Coordinate: 25°10'43"N 92°23'50"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)
05.08.2024	50.62	34.38	16.00	19.48
16.08.2024	50.92	32.35	14.97	18.45
27.08.2024	52.03	36.88	17.30	20.78
Heavy Rainfall	Rainfall Data Attached			
Heavy Rainfall				
Heavy Rainfall				
Heavy Rainfall				
Heavy 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

	STAR CEMENT MEGHALAYA LIMITED THERMAL POWER PLANT (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
Report No: MPL(8MW)/Env/Stack/Monthly/2024-25/17			Date of Rev.	01.06.2021
Month: August				
<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	-		
2	Ambient Temp (°C)	-		
3	Stack Gas Temp (°C)	-		
4	Exit Velocity of Gas (m/sec.)	-		
5	Flow Rate (Nm ³ / sec.)	-		
6	Quantity of Emission (Nm ³ / Hr)	-		
7	Concentration of PM (mg/Nm ³)	-		
8	Concentration of SO ₂ (mg/Nm ³)	-		
9	Concentration of NOx (mg/Nm ³)	-		
10	Oxygen (O ₂) (%)	-		
E.	Remarks: Monitoring of 8MW Boiler stack has not carried out due to shut down.			
Standard				
PM - 50 mg/Nm ³		SO ₂ - 600 mg/Nm ³		NOx - 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				

	STAR CEMENT MEGHALAYA LIMITED THERMAL POWER PLANT (8MW) 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(8MW)/ENV/FUGITIVE/MONTHLY/2024-25/17				
Month - August				
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline	
			Limit	
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)	
26.08.2024	Coal Storage Section	1409	2000	
 Analyzed By  Checked By  Verified By				

	STAR CEMENT MEGHALAYA LIMITED THERMAL POWER PLANT (8MW) 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/2024-25/017					Date:		16.08.2024		
Month - August									
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	61.2	65.7	63.5	75	57.4	61.3	59.4	70
2	Turbine House 9 Mt.	58.1	67.9	63.0		54.3	63.3	58.8	
3	RO – MCC	62.0	68.4	65.2		57.6	62.4	60.0	
4	Boiler Ground Floor	62.5	67.6	65.1		56.4	62.3	59.4	
5	CHP – MCC	62.0	68.5	65.3		50.6	54.4	52.5	
6	Office Area	56.3	65.5	60.9		48.1	61.6	54.9	
 Analyzed by  Checked By  Verified By									

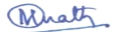
	MEGHALAYA POWER LIMITED Lumshnong, Meghalaya			Reference No.	MPL/EHS/F-04
				Issue No.	1
	WATER TESTING REPORT			Date of Issue:	24.08.2013
				Revision No.	3
			Date of Rev.	01.06.2019	

Reference No.: MPL/ENV/WATER/MONTHLY/2023-24/12				Date of sample collection: 18.03.2024	
				Date of Analysis: 18.03.2024 to 21.03.2024	

Sl.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	48	100
3	Total Dissolve Solids	mg/L	368	-
4	Chemical Oxygen Demand	mg/L	46	250
5	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	20	30
6	Oil & Grease	mg/L	<3.0	10


 Analysis By


 Checked By


 Verified By

	MEGHALAYA POWER LIMITED Lumshnong, Meghalaya				Reference No.	MPL/EHS/F-04
					Issue No.	1
	WATER TESTING REPORT				Date of Issue:	24.08.2013
					Revision No.	3
				Date of Rev.	01.06.2019	
Reference No.: MPL/ENV/WATER/MONTHLY/2023-24/12					Date of sample collection: 18.03.2024	
					Date of Analysis: 18.03.2024 to 21.03.2024	
Sl.No.	Parameter	Unit	STP Inlet	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	-	7.5	7.8	5.5 to 9.0	
2	Colour	Hazen	Yellowish	Colourless	-	
3	Odour	-	Odourless	Odourless	-	
4	Chloride	mg/L	86.0	87.5	-	
5	Total Hardness as CaCO ₃	mg/L	58.7	59.9	-	
6	Suspended Solids	mg/L	91	30.0	100	
7	Total Dissolve Solids	mg/L	327	340	-	
8	Chemical Oxygen Demand	mg/L	234	37	250	
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	93	8.4	30	
10	Oil & Grease	mg/L	4.9	< 3.0	10	
11	Temperature	° C	25	25	Shall not exceed 5.0°C above the receiving water temperature	
12	Conductivity	µS/cm	523	544	-	
 Analysis By  Checked By  Verified By						

