

STAR CEMENT MEGHALAYA LIMITED

Ref: SCML/EHS/LUM/2025-26/03

Dated: 07/05/2025

To,

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

Subject : Submission of Environmental Monitoring Report for the month of April, 2025.

Reference : MPCB/ONLINE/RCTO(R-I)/EJHD/2021/2024-2025/56, Dtd: Shillong, the 5th 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, Surface water monitoring reports of **Star Cement Meghalaya Limited** (formerly known as *Megha Technical & Engineers Pvt Ltd*) for the month of **April, 2025**.

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

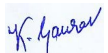
Copy To: The Regional Director, Central Pollution Control Board (CPCB), North Eastern Zonal Office, 'TUMSIR', Lower Motinagar, Shillong, Meghalaya-790314.



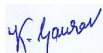
STAR CEMENT MEGHALAYA LIMITED

Lumshnong, Meghalaya

Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)
01-04-2025	959.5	80.5	25.9	8.0
02-04-2025	961.0	85.3	24.9	4.0
03-04-2025	961.6	85.4	24.7	0.0
04-04-2025	960.6	86.3	24.7	0.0
05-04-2025	959.2	75.2	25.3	0.0
06-04-2025	960.2	78.4	23.4	5.0
07-04-2025	961.9	71.0	24.1	2.0
08-04-2025	964.2	73.8	25.4	0.0
09-04-2025	963.8	89.0	23.0	0.0
10-04-2025	957.7	71.7	26.0	0.0
11-04-2025	956.7	79.6	24.5	13.2
12-04-2025	958.1	83.9	23.8	6.2
13-04-2025	959.7	76.8	24.3	0.0
14-04-2025	959.8	67.2	26.8	0.0
15-04-2025	960.4	69.4	26.1	0.0
16-04-2025	960.2	83.7	23.4	27.0
17-04-2025	959.3	83.5	23.3	0.0
18-04-2025	958.7	76.5	24.5	0.0
19-04-2025	957.8	76.8	25.5	20.0
20-04-2025	957.9	84.9	25.0	0.0
21-04-2025	959.7	90.3	24.1	18.0
22-04-2025	959.0	96.3	24.1	77.7
23-04-2025	956.4	96.8	23.2	70.7
24-04-2025	956.7	94.3	23.9	77.2
25-04-2025	957.7	98.0	22.5	58.6
26-04-2025	958.4	90.6	25.1	8.2
27-04-2025	960.5	83.8	24.8	0.0
28-04-2025	960.0	95.5	20.4	59.0
29-04-2025	959.7	87.7	21.0	0.0
30-04-2025	959.8	75.3	25.0	0.0
			Total	454.8

	STAR CEMENT MEGHALAYA LIMITED CEMENT MILL - 1 Lumshnong, Meghalaya		Reference No.	MTEPL/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.: MTEPL/ENV/AAQM/MONTHLY/2025-26/01			Month : April	
Location of Sampling: Near Pump House		GPS Coordinate: 25°10'42"N 92°23'32"E 919 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)
02.04.2025	32.80	19.02	15.69	16.58
07.04.2025	31.62	20.31	16.71	16.91
10.04.2025	33.85	17.01	17.11	15.24
14.04.2025	29.02	19.61	16.56	17.69
17.04.2025	35.17	18.88	15.08	17.25
21.04.2025	Rainfall	Rainfall	Rainfall	Rainfall
24.04.2025	Rainfall	Rainfall	Rainfall	Rainfall
28.04.2025	Rainfall	Rainfall	Rainfall	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 CEMENT MILL - 1 Lumshnong, Meghalaya		Reference No.	MTEPL/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.: MTEPL/ENV/AAQM/MONTHLY/2025-26/01			Month : April	
Location of Sampling: Vishwakarma Colony		GPS Coordinate: 25°10'46"N 92°23'17"E 552 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)
02.04.2025	30.24	18.47	14.29	16.85
07.04.2025	29.57	16.83	15.54	17.24
10.04.2025	30.89	15.89	15.01	16.99
14.04.2025	28.47	16.54	14.21	16.53
17.04.2025	30.58	17.24	15.35	16.58
21.04.2025	Rainfall	Rainfall	Rainfall	Rainfall
24.04.2025	Rainfall	Rainfall	Rainfall	Rainfall
28.04.2025	Rainfall	Rainfall	Rainfall	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 CEMENT MILL - 1 Lumshnong, Meghalaya		Reference No.	MTEPL/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.: MTEPL/ENV/AAQM/MONTHLY/2025-26/01			Month : April	
Location of Sampling: Near Star Club		GPS Coordinate: 25°10'36"N 92°23'16"E 928 m		
Sampling Duration:	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.
Date of Sampling	PM ₁₀ (µg/m³)	PM _{2.5} (µg/m³)	SO ₂ (µg/m³)	NO ₂ (µg/m³)
02.04.2025	29.14	14.59	13.81	15.54
07.04.2025	31.69	16.48	13.87	16.26
10.04.2025	32.14	16.62	13.49	15.45
14.04.2025	29.74	14.60	13.24	14.07
17.04.2025	30.71	13.48	13.05	15.47
21.04.2025	Rainfall	Rainfall	Rainfall	Rainfall
24.04.2025	Rainfall	Rainfall	Rainfall	Rainfall
28.04.2025	Rainfall	Rainfall	Rainfall	Rainfall
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m³)	60 (µg/m³)	80 (µg/m³)	80 (µg/m³)
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 CEMENT MILL - 1 Lumshnong, Meghalaya STACK EMISSION MONITORING ANALYSIS REPORT		Reference No.	SCML CM-1/Env/F-02
			Issue No.	1
			Date of Issue	01.05.2019
			Revision No.	5
			Date of Rev.	01.06.2021
Report No: SCML CM-1/ENV/STACK/MONTHLY/2025-26/01			Month: April	
<u>Analysis Result</u>				
A. General Information About Stack				
1	Stack Identification No	S-1	S-2	
2	Stack Connected to	Cement Mill	Packing Plant	
3	Material of Construction (Stack/Duct)	Mild Steel	Mild Steel	
4	Shape of duct	Circular	Circular	
5	Whether duct is provided with permanent platform & ladder	Yes	Yes	
B. Physical characteristic of stack				
1	Stack Height from ground level (meter)	30.0	31.0	
2	Duct diameter at sampling point (meter)	1.2	0.8	
3	Sampling height point from ground level (meter)	27.8	29.5	
4	Cross sectional area of Duct/Stack (m ²)	1.77	0.95	
C. Pollution Control Device				
1	Details of pollution control device attached to stack	Bag Filter	Bag Filter	
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 NO _x (mg/Nm ³)	-	-	
10	Oxygen (O ₂) (%)	-	-	
E.	Remarks	Not in operation.		
Standard				
PM - 30 mg/Nm ³		SO ₂ - 1000 mg/Nm ³		NO _x - 600 mg/Nm ³
Particulate Matter (PM), Sulphur dioxide (SO ₂), Oxide of Nitrogen (NO _x), Electro Static Precipitator (ESP), Limestone (LS), Additive (Add)				
 Analysed by		 Checked by		 Authorized Signatory

	STAR CEMENT MEGHALAYA LIMITED CEMENT MILL - 1 Lumshnong, Meghalaya		Document No.	MTEPL/EHS/Env/F-04
			Date of Issued	01-05-2019
			Revision No.	2
	FUGITIVE EMISSION MONITORING REPORT		Revision Date	01-01-2021
Ref: MTEPL/ENV/FUGITIVE/MONTHLY/2025-26/01				
Month - April				
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline	
			Limit	
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)	
05.04.2025	Cement Packing Plant	1205	5000	
 Analyzed By  Checked by  Verified By				

	STAR CEMENT MEGHALAYA LIMITED CEMENT MILL-1 Lumshnong, Meghalaya				Document No.		SCML CM-1/EHS/Env/F-03		
					Effective Date		01-05-2019		
					Revision No.		04		
	NOISE LEVEL MONITORING REPORT				Revision Date		01-01-2021		
Ref: SCML CM-1/ENV/NOISE/MONTHLY/2025-26/01						Date: 05.04.2025			
Month - April									
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	Cement Mill	68.9	72.8	70.9	75	64.8	68.5	66.7	70
2	Cement Mill WF	68.1	71.5	69.8		64.9	67.9	66.4	
 Analyzed by  Checked By  Verified By									

	STAR CEMENT MEGHALAYA LIMITED CEMENT MILL - 1 Lumshnong, Meghalaya													Reference No.	MTEPL/EHS/F-04
														Issue No.	1
														Date of Issue:	24.08.2013
														Revision No.	3
	WATER TESTING REPORT													Date of Rev.	01.06.2019
Reference No.: MTEPL/ENV/WATER/MONTHLY/2025-26/01															
Surface Water Analysis Results															
Date of sample collection: 01.04.2025															
Date of Analysis: 01.04.2025 to 08.04.2025															
S.No.	Parameter	Unit	Umtyrngai Nallah		Umutha Nallah		Umso Nalah	Seshympa	Lunar	Lukha	Umbadoh	Tongseng	Lumshnong	Wahiajer	Standards norms as per IS 2296
			Up Stream	Down Stream	Up Stream	Down Stream	Down Stream				Seasonal Spring / Seasonal Nallah				
1	pH	-	7.4	7.5	7.5	7.6	7.4	7.2	7.5	7.3	7.4	7.3	7.4	7.3	6.5 - 8.5
2	Colour	Hazen	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	10
3	Odour	-	Unobjectionable												
4	Chloride	mg/L	26.8	30.5	32.6	33.9	34.1	32.9	31.1	28.2	24.8	25.9	30.8	26.4	250
5	Total Hardness as CaCO ₃	mg/L	59.8	64.6	78.4	75.2	80.8	89.2	45.9	62.1	61.8	54.2	56.8	58.4	300
6	Suspended Solids	mg/L	42.9	45.7	46.2	52.9	53.4	47.2	42.9	59.2	46.1	48.2	40.2	41.3	-
7	Total Dissolve Solids	mg/L	295.2	289.4	284.2	334.1	352.7	258.1	239.8	159.3	96.4	151.2	105.4	203.8	500
8	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0
9	Oil & Grease	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
10	Temperature	° C	23.4	24.1	23.9	23.5	24.3	23.8	24.5	24.1	24.3	23.4	23.6	24.0	-
11	Conductivity	µS/cm	208.1	228.4	242.4	332.7	356.1	298.5	248.9	126.7	182.4	196.5	172.5	276.6	-
12	Flow	L / Min	1528.8	2026.5	667.9	821.8	1124.0	9623.6	2240.1	92021.4	812.6	565.2	922.5	889.2	-
 Analyzed by  Checked by  Verified by															