

STAR CEMENT MEGHALAYA LIMITED

Ref: SCML-MLA/EHS/LUM/2023-24/34

Dated: 27/12/2023

To,

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

Subject : Submission of Environmental Monitoring Report for the month of November, 2023.

Reference : MPCB/ONLINE/RCTO(R-I)/2021/2023-2024/29, Dtd: Shillong, the 13th September, 2023.

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, Fugitive Emission, Surface water monitoring reports of **Shale Mining Lease (4.67 Ha) of Star Cement Meghalaya Limited** for the month of **November, 2023.**

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.

Regd. Office & Works: P.O. Lumshnong, East Jaintia Hills District, Meghalaya-793210, E-mail: ehslums@starcement.co.in

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AN ISO 9001, ISO 14001 & ISO 45001 CERTIFIED COMPANY

CIN : U63090ML2005PLC008011



STAR CEMENT MEGHALAYA LIMITED

Lumshnong, Meghalaya

Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)
01-11-2023	723.1	80.2	24.7	0.0
02-11-2023	720.5	79.0	24.0	0.0
03-11-2023	720.2	79.8	24.9	0.0
04-11-2023	726.4	78.1	24.7	0.0
05-11-2023	723.7	77.9	24.6	0.0
06-11-2023	729.5	79.2	24.0	0.0
07-11-2023	724.1	78.0	24.1	0.0
08-11-2023	726.8	77.8	24.6	0.0
09-11-2023	728.4	78.0	24.5	0.0
10-11-2023	726.1	79.1	24.9	0.0
11-11-2023	724.1	82.3	25.0	0.0
12-11-2023	723.6	81.4	26.7	0.0
13-11-2023	724.0	85.6	24.8	0.0
14-11-2023	726.8	82.7	24.9	0.0
15-11-2023	727.0	82.9	25.8	0.0
16-11-2023	726.4	80.1	25.4	0.0
17-11-2023	724.8	86.4	22.6	8.0
18-11-2023	723.2	85.6	21.2	2.0
19-11-2023	720.8	78.6	22.9	0.0
20-11-2023	726.4	71.6	22.8	0.0
21-11-2023	726.9	74.6	24.3	0.0
22-11-2023	724.6	79.4	24.6	0.0
23-11-2023	726.8	78.9	24.7	0.0
24-11-2023	728.4	76.8	25.9	0.0
25-11-2023	726.8	79.5	24.7	0.0
26-11-2023	721.6	76.2	23.9	0.0
27-11-2023	728.3	79.1	24.4	0.0
28-11-2023	726.1	80.5	24.9	0.0
29-11-2023	724.9	82.6	21.6	0.0
30-11-2023	725.7	81.4	24.0	0.0
			Total	10.0

	STAR CEMENT MEGHALAYA LIMITED Shale Mining Lease (4.67 ha) Lumshnong, Meghalaya		Reference No.	SCML/Env/F – 01
			Issue No.	1
	AMBIENT AIR QUALITY MONITORING REPORT		Date of Issue:	24.08.2013
			Revision No.	5
			Date of Rev.	01.12.2020
Reference No.: SCML/ENV/AAQM/MONTHLY/2023-24/08			Month : November	
Location of Sampling: Mines Entrance Haul Road		GPS Coordinate: 25°09'55"N 92°24'32"E		
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)
24.11.2023	38.83	26.17	14.44	18.50
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 Shale Mining Lease (4.67 ha) Lumshnong, Meghalaya		Reference No.	SCML/Env/F – 01
			Issue No.	1
	AMBIENT AIR QUALITY MONITORING REPORT		Date of Issue:	24.08.2013
			Revision No.	5
			Date of Rev.	01.12.2020
Reference No.: SCML/ENV/AAQM/MONTHLY/2023-24/08			Month : November	
Location of Sampling: Excavator Point		GPS Coordinate: 25°10'00.6"N 92°24'34"E		
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)
24.11.2023	44.73	29.72	13.70	16.88
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 Lumshnong, Meghalaya		Reference No.	SCML/Env/F – 07 (a)
			Issue No.	1
			Date of Issue:	01.12.2018
	FUGITIVE EMISSION REPORT		Revision No.	2
Date of Rev.			01.12.2020	
Ref: SCML/ENV/FUGITIVE/MONTHLY/2023-24/08				
Shale Minning Lease (4.67 ha)				
Month - November				
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline	
		(in $\mu\text{g}/\text{m}^3$)	Limit	
			(in $\mu\text{g}/\text{m}^3$)	
16.11.2023	Near Shale loading area	1392	5000	
 Analyzed By  Checked By  Verified By				

**STAR CEMENT MEGHALAYA LIMITED**

Lumshnong, Meghalaya

Shale Minning Lease (4.67 ha)

	Reference No.
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SCML/EHS/F-04

Issue No.

1

Date of Issue:

24.08.2013

Revision No.

3

Date of Rev.

01.06.2019

Reference No.: SCML/ENV/WATER/MONTHLY/2023-24/08

Surface Water Analysis Results

Date of sample collection: 22.11.2023

Date of Analysis: 22.11.2023 to 25.11.2023

S.No.	Parameter	Unit	Umtyrngai Nallah		Umutha Nallah		Umso Nalah	Seshympa	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	-	7.8	8.1	7.9	8.3	8.4	7.5	7.7	7.8	7.4	7.8	6.5 - 8.5
2	Colour	Hazen	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	10
3	Odour	-	Unobjectionable										Unobjectionable
4	Chloride	mg/L	23.0	28.4	26.6	26.8	29.2	24.6	31.9	24.6	26.8	24.5	250
5	Total Hardness as CaCO ₃	mg/L	52.0	67.6	75.6	80.0	86.0	48.0	26.0	29.0	28.6	46.8	300
6	Suspended Solids	mg/L	6.0	11.6	9.2	10.0	11.0	2.4	3.0	4.0	2.5	3.0	-
7	Total Dissolve Solids	mg/L	300.2	307.6	257.7	317.0	333.2	126.9	199.1	52.0	61.9	203.9	500
8	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	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	-
10	Temperature	° C	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	-
11	Conductivity	µS/cm	481.9	497.0	421.2	514.5	535.4	206.6	328.7	89.0	102.6	334.3	-
12	Flow	L / Min	5415.3	6318.3	858.5	1453.5	6129.3	185111.1			177.4		-

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Analyzed by

Ravi Singh

Checked by

Math

Verified by