

STAR CEMENT MEGHALAYA LIMITED

Ref: SCML-MLA/EHS/LUM/2023-24/22

Dated: 14/09/2023

To,

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

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

Reference : MPCB/ONLINE/CTO(R-I)/2021/2021-2022/12, Dtd: Shillong, the 28th April, 2022.

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 **August, 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.



STAR CEMENT MEGHALAYA LIMITED

Lumshnong, Meghalaya

Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)
01-08-2023	764.9	68.7	30.4	0.0
02-08-2023	762.5	75.9	28.6	3.0
03-08-2023	763.4	76.0	23.0	14.5
04-08-2023	761.8	85.2	22.0	78.8
05-08-2023	763.7	83.1	27.3	23.0
06-08-2023	760.2	89.0	22.0	98.0
07-08-2023	762.8	85.0	22.5	45.0
08-08-2023	763.8	84.0	22.0	62.0
09-08-2023	761.7	80.4	22.4	59.5
10-08-2023	761.4	87.6	22.0	101.9
11-08-2023	762.0	90.1	21.0	192.7
12-08-2023	763.8	89.7	21.0	153.0
13-08-2023	761.7	75.6	26.4	18.8
14-08-2023	760.0	70.9	26.7	19.8
15-08-2023	761.4	62.7	27.9	1.1
16-08-2023	763.5	60.4	28.4	4.2
17-08-2023	760.2	59.0	28.6	9.6
18-08-2023	762.9	60.0	29.0	0.0
19-08-2023	761.0	76.9	27.8	36.2
20-08-2023	762.0	67.8	28.4	4.6
21-08-2023	765.0	78.6	27.9	32.2
22-08-2023	761.0	75.1	28.4	23.2
23-08-2023	763.4	79.6	27.1	42.2
24-08-2023	761.0	78.0	27.6	44.2
25-08-2023	762.8	72.6	26.4	28.2
26-08-2023	761.4	90.0	25.6	125.8
27-08-2023	761.6	85.7	25.0	114.4
28-08-2023	762.9	79.5	26.7	77.8
29-08-2023	763.5	68.0	27.6	0.0
30-08-2023	761.4	62.0	29.7	0.0
31-08-2023	762.8	63.7	29.7	0.0
			Total	1413.7

	STAR CEMENT MEGHALAYA LIMITED Shale Mining Lease (4.67 ha) Lumshnong, Meghalaya		Reference No.	SCML/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.: SCML/ENV/AAQM/MONTHLY/2023-24/05			Month: August	
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)
31.08.2023	35.41	23.89	12.80	15.53
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/2023-24/05			Month: August	
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)
31.08.2023	41.31	27.44	12.06	13.91
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/2023-24/05				
Shale Minning Lease (4.67 ha)				
Month - August				
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline	
		(in $\mu\text{g}/\text{m}^3$)	Limit	(in $\mu\text{g}/\text{m}^3$)
29.08.2023	Near Shale loading area	1547	5000	
 Analyzed By  Checked By  Verified By				

	STAR CEMENT MEGHALAYA LIMITED Lumshnong, Meghalaya											Reference No.	SCML/EHS/F-04		
												Issue No.	1		
												Date of Issue:	24.08.2013		
	Shale Minning Lease (4.67 ha)											Revision No.	3		
												Date of Rev.	01.06.2019		
Reference No.: SCML/ENV/WATER/MONTHLY/2023-24/05 Surface Water Analysis Results Date of sample collection: 11.08.2023 Date of Analysis: 11.08.2023 to 14.08.2023															
S.No.	Parameter	Unit	Umtyrngai Nallah		Umutha Nallah		Umso Nalah	Lunar	Lukha	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	-	7.4	7.6	7.3	8.0	8.0	7.0	6.9	7.3	8.0	7.4	7.0	7.4	6.5 - 8.5
2	Colour	Hazen	Colourless	Colourless	Colourless	Colourless	Colourless	Slightly Yellowish	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	10
3	Odour	-	Unobjectionable												Unobjectionable
4	Chloride	mg/L	17.7	21.3	19.5	19.9	23.0	42.0	14.7	20.2	28.4	19.3	21.3	21.6	250
5	Total Hardness as CaCO ₃	mg/L	40.0	62.0	70.0	76.0	78.0	103.0	20.0	40.0	14.0	16.0	24.0	38.0	300
6	Suspended Solids	mg/L	4.1	15.2	10.9	42.0	48.1	62.4	7.0	10.0	6.0	6.0	8.6	8.3	-
7	Total Dissolve Solids	mg/L	268.4	275.8	225.9	285.0	301.0	215.0	60.0	95.0	167.0	20.0	30.0	172.0	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	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	-
11	Conductivity	µS/cm	428.6	443.7	367.9	461.0	482.0	341.0	95.0	153.0	275.0	35.7	49.3	281.0	-
12	Flow	L / Min	212562.2	531747.6	172808.0	545275.0	1116900.0	5221550.0	4985080.0	4941900.0	-	-	3586.9	-	-
   Analyzed by Checked by Verified by															