

STAR CEMENT MEGHALAYA LIMITED

Ref: SCML-MLA/EHS/LUM/2024-25/17

Dated: 04/09/2024

To,

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

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

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

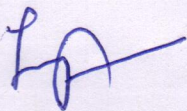
Dear Sir,

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 **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**



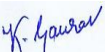
Laxmaiah Munjala
Unit Head

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 Shale Mining Lease (4.67 ha) 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

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	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/2024-25/17			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)
28.08.2024	55.23	38.33	14.90	18.87
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/2024-25/17			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/m³)	PM _{2.5} (µg/m³)	SO ₂ (µg/m³)	NO ₂ (µg/m³)
28.08.2024	61.13	41.88	14.16	17.25
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 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/2024-25/17			
Shale Minning Lease (4.67 ha)			
Month - August			
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline
			Limit
		(in µg/m ³)	(in µg/m ³)
28.08.2024	Near Shale loading area	1518	5000
 Analyzed By  Checked By  Verified By			

	STAR CEMENT MEGHALAYA LIMITED (4.67 Ha) Lumshnong, Meghalaya		Document No.		SCML/EHS/Env/F-03
			Effective Date		01-05-2019
			Revision No.		04
	NOISE LEVEL MONITORING REPORT		Revision Date		01-01-2021
Ref: SCML/ENV/NOISE/MONTHLY/2024-25/017					Date:- 28.08.2024
Shale Minning Lease (4.67 ha)					
Month - August					
S. No.	Location	Measured Values dB(A) Day time (6:00am to 10:00pm)			Norms In dB(A)
		Min.	Max.	Avg.	
1	Rock Breaker (10 mtr. Distance)	69.4	67.3	68.3	75
2	Dozer (10 mtr. Distance)	60.9	64.3	62.6	
3	Dumper (10 mtr. Distance)	66.2	65.4	65.8	
4	Excavator	71.2	63.5	67.4	
5	Dumper				
	A) Empty Dumper				
	a) Open Window	57.7	64.0	60.9	
	b) Close Window	54.2	51.2	52.7	
	B) Loaded Dumper				
	a) Open Window	59.9	62.8	61.4	
	b) Close Window	56.8	58.0	57.4	
 Analyzed by  Checked By  Verified By					



Shale Minning Lease (4.67 ha)

Reference No.	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/2024-25/17

Surface Water Analysis Results

Date of sample collection: 27.08.2024
Date of Analysis: 27.08.2024 to 30.08.2024

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	-	7.3	7.1	8.1	7.5	7.7	-	-	-	7.2	7.4	8.6	7.9	6.5 - 8.5
2	Colour	Hazen	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Yellowish	Colourless	Yellowish	Yellowish	Yellowish	Yellowish	10
3	Odour	-	Unobjectionable												
4	Chloride	mg/L	31.1	36.4	32.5	29.5	32.1	-	-	-	24.5	22.8	26.0	25.5	250
5	Total Hardness as CaCO ₃	mg/L	55.0	66.0	78.8	71.5	73.5	-	-	-	64.1	49.5	47.2	41.7	300
6	Suspended Solids	mg/L	46.1	48.2	51.0	38.5	47.2	-	-	-	42.5	54.5	38.7	38.0	-
7	Total Dissolve Solids	mg/L	217.2	202.2	226.1	288.0	355.8	-	-	-	80.7	66.6	66.0	214.9	500
8	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	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	-
10	Temperature	° C	25.5	24.7	26.6	23.0	27.7	-	-	-	25.0	25.1	29.0	31.0	-
11	Conductivity	µS/cm	184.8	219.3	314.9	428.2	345.9	-	-	-	156.3	134.2	107.1	455.7	-
12	Flow	L / Min	1302.2	1819.5	246.8	507.9	2347.8	-	-	-	1675.3	1089.5	1496.0	1402.0	

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Analyzed by

Checked by

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Verified by