

STAR CEMENT MEGHALAYA LIMITED

Ref: SCML-MLA/EHS/LUM/2022-23/07

Dated: 23/01/2023

To,

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

Subject : Submission of Environmental Monitoring Report for the month of Dec, 2022.

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

Dear Sir,

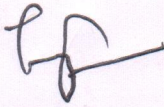
This is in reference to above cited subject, we are hereby submitting the monthly Environmental monitoring reports of Ambient Air Quality monitoring including meteorological data, Fugitive Emission, Surface water monitoring reports of **M/s Star Cement Meghalaya Limited** over a **Mining Lease Area of 4.67 Ha** for the month of **December, 2022.**

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:** 1) The Deputy Director General of Forest (Central), Ministry of Environment Forest & Climate Change, Govt. of India, Regional Office, Shillong, Meghalaya-793021.
- 2) The Regional Director, Central Pollution Control Board (CPCB), North Eastern Zonal Office, 'TUMSIR', Lower Motinagar, Shillong, Meghalaya-790314.
- 3) The Member Secretary, State Environment Impact Assessment Authority (SEIAA), 'Silviculture Building' Lower Lachumiere, Shillong, Meghalaya – 793001

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)	Wind Direction (deg)	Wind Speed- (m/s)	Manual Rain (mm)
01-12-2022	761.7	95	19.0	319	0	0
02-12-2022	761.5	95.6	19.4	253	0	0
03-12-2022	761.4	95.6	20.0	255	0	0
04-12-2022	761.4	95.5	18.7	250	0	0
05-12-2022	761.9	95.5	23.4	251	0	0
06-12-2022	762.5	95.5	20.8	250	0	0
07-12-2022	763	95.1	21.4	261	0	0
08-12-2022	763.7	81.2	17.2	123	0	0
09-12-2022	764	63.2	21.4	212	0	0
10-12-2022	763.9	59.5	22.2	207	0	0
11-12-2022	763.2	64.2	23.3	180	0.3	0
12-12-2022	762.5	64.5	23.1	212	2	0
13-12-2022	762	63.1	24.1	207	1.8	0
14-12-2022	761.5	61.2	24.1	223	1.9	0
15-12-2022	761.5	65.3	23.1	249	0.5	0
16-12-2022	761.5	67.2	23.0	213	0	0
17-12-2022	761.7	83.2	19.0	359	0	0
18-12-2022	761.9	88.1	17.1	258	0	0
19-12-2022	762.2	91.1	16.3	253	0	0
20-12-2022	762.4	93.4	15.0	250	0	0
21-12-2022	762.4	93.2	15.4	357	0	0
22-12-2022	762.4	94.3	19.7	252	0	0
23-12-2022	762.5	94.0	14.3	274	0	0
24-12-2022	762.4	95.0	14.3	123	0	0
25-12-2022	763.2	95.5	22.2	60	1.07	0
26-12-2022	762.5	95.5	23.3	90	0.72	0
27-12-2022	762	95.5	23.1	180	1.28	7.7
28-12-2022	761.5	95.1	24.1	212	0	0
29-12-2022	761.5	81.2	20.0	207	0	0
30-12-2022	761.5	83.2	18.7	253	0	0
31-12-2022	761.7	88.1	18.6	250	0	0
					Total rain of this month	7.7

	STAR CEMENT MEGHALAYA LIMITED (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/2022-23/02			Month: December'22	
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)
20.12.2022	45.90	24.49	11.73	16.89
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 (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/2022-23/02			Month: December'22	
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)
20.12.2022	50.40	29.38	11.68	15.86
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 (4.67Ha) 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/2022-23/002				
(4.67 Ha)				
Month - December 2022				
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline	
			Limit	
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)	
23.12.2022	Near Shale loading area	1947	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/2022-23/001					Date:- 23.12.2022	
<u>Shale Mine - 4.67 Ha</u> <u>Month - December 2022</u>						
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)	62.8	68.8	65.8	75.0	
2	Dozer (10 mtr. Distance)	63.5	66.9	65.2		
3	Dumper (10 mtr. Distance)	68.8	68.0	68.4		
4	Excavator	64.7	66.1	65.4		
5	Dumper					
	A) Empty Dumper					
	a) Open Window	60.3	66.6	63.5		
	b) Close Window	56.8	53.8	55.3		
	B) Loaded Dumper					
	a) Open Window	62.5	65.4	64.0		
	b) Close Window	59.4	60.6	60.0		
 Analyzed by  Checked By  Verified By						

	STAR CEMENT MEGHALAYA LIMITED Lumshnong, Meghalaya (4.67 Ha)										Reference No.	SCML/EHS/F-04	
											Issue No.	1	
											Date of Issue:	24.08.2013	
	Surface Water Analysis Results										Revision No.	3	
											Date of Rev.	01.06.2019	
Reference No.: SCML/ENV/WATER/MONTHLY/2022-23/02													
Month: December-2022													
Date of sample collection: - 12.12.2022 Date of Analysis: 12.12.2022 to 15.12.2022													
S.No.	Parameter	Unit	Umtyrngai Nallah		Umutha Nallah		Umso	Seshysmpa	Lumshnong	Umbadoh	Tongseng	Wahiajer	Standards norms as per IS 2296
			Up Stream	Down Stream	Up Stream	Down Stream	Down Stream		Seasonal Spring / Seasonal Nallah				
1	pH	-	7.5	7.4	7.3	7.5	7.8	7.1	7.7	7.8	Water Source not found		6.5 - 8.5
2	Colour	Hazen	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless			10
3	Odour	-	Unobjectionable										Unobjectionable
4	Chloride	mg/L	42.0	42.9	38.0	38.8	40.0	23.5	21.7	25.4			250
5	Total Hardness as CaCO ₃	mg/L	67.8	70.4	74.1	74.8	78.9	42.6	68.7	38.1			300
6	Suspended Solids	mg/L	9.0	8.7	4.7	6.4	4.2	6.0	6.0	4.4			-
7	Total Dissolve Solids	mg/L	235	237	182	183	195	95.0	157.4	73.4			500
8	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND			2.0
9	Oil & Grease	mg/L	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			-
11	Conductivity	µS/cm	359	361	280	284	297	140	220	115			-
12	Flow	L / Min	338.8	395.6	72.3	135.5	212.5	57954.5	-	-			-
 Analyzed by  Checked by  Verified by													