

STAR CEMENT MEGHALAYA LIMITED

Ref: SCML-MLA/EHS/LUM/2023-24/01

Dated: 20/04/2023

To,

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

Subject : Submission of Environmental Monitoring Report for the month of March, 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 **M/s Star Cement Meghalaya Limited** over a **Mining Lease Area of 4.67 Ha** for the month of **March, 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:**
- 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



STAR CEMENT MEGHALAYA LIMITED

Lumshnong, Meghalaya

Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)
01-03-2023	761.2	65.4	20.5	0
02-03-2023	761	61.3	21.6	0
03-03-2023	760.4	69.0	19.4	0
04-03-2023	760.9	62.1	20.7	0
05-03-2023	762.4	51.3	23.5	0
06-03-2023	763.9	61.4	25.7	0
07-03-2023	763.5	56.1	26.4	0
08-03-2023	763	64.2	24.8	0
09-03-2023	763.2	54.3	21.6	0
10-03-2023	763.2	69.2	22.8	0
11-03-2023	762.5	61.4	23.6	0
12-03-2023	762.2	54.6	26.0	0
13-03-2023	762	55.5	26.0	0
14-03-2023	761	51.2	26.0	0
15-03-2023	760.9	81.6	19.3	6.4
16-03-2023	760.9	85.7	16.8	15
17-03-2023	761	84.9	17.6	8.4
18-03-2023	761.5	77.5	20.0	0
19-03-2023	762.4	81.4	16.9	27.6
20-03-2023	762.7	84.0	15.6	24.8
21-03-2023	762.2	83.0	16.7	59.6
22-03-2023	762.5	89.2	17.2	33.4
23-03-2023	762.2	94.2	20.6	0
24-03-2023	762	84.3	18.1	0
25-03-2023	761	69.2	18.7	0
26-03-2023	760.9	87.6	15.1	34.8
27-03-2023	760.9	84.4	17.2	10.2
28-03-2023	761	86.7	21.3	10.8
29-03-2023	761.5	78.6	18.9	3
30-03-2023	760.9	65.2	19.6	0
31-03-2023	762.4	80.4	19.2	5
			Total	239

	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/2022-23/05			Month: March	
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)
03.03.2023	53.09	33.13	12.28	15.00
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
Reference No.: SCML/ENV/AAQM/MONTHLY/2022-23/05			Date of Rev.	01.12.2020
Location of Sampling: Excavator Point			Month: March	
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)
03.03.2023	44.43	29.78	11.27	13.67
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 (4.67Ha) 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/2022-23/05				
(4.67 Ha)				
Month -March 2023				
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline	
			Limit	
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)	
03.03.2023	Near Shale loading area	2069	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/2022-23/002					Date:- 03.03.2023	
Shale Mine - 4.67 Ha Month - March						
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)	63.5	69.5	66.5	75.0	
2	Dozer (10 mtr. Distance)	64.2	67.6	65.9		
3	Dumper (10 mtr. Distance)	69.5	68.7	69.1		
4	Excavator	65.4	66.8	66.1		
5	Dumper					
	A) Empty Dumper					
	a) Open Window	61.0	67.3	64.2		
	b) Close Window	57.5	54.5	56.0		
	B) Loaded Dumper					
	a) Open Window	63.2	66.1	64.7		
	b) Close Window	60.1	61.3	60.7		
 Analyzed by  Checked By  Verified By						



(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/2022-23/05

Surface Water Analysis Results

Date of sample collection: - 11.03.2023
Date of Analysis: 11.03.2023 to 14.03.2023

S.No.	Parameter	Unit	Umytngai 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	-	7.8	8.3	8.0	8.2	7.9	6.9	6.5	6.7	7.6	7.3	7.2	7.9	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	23	32	17.7	20.6	46.1	40.2	8.3	21.3	35.5	17.7	24.8	23.2	250
5	Total Hardness as CaCO ₃	mg/L	40	60	80.0	84.0	79.5	130.2	15.0	39.6	20.0	6.8	10.0	48.1	300
6	Suspended Solids	mg/L	1.0	4.2	1.0	13.8	5.9	54.0	3.0	5.0	2.0	3.2	3.0	5.8	-
7	Total Dissolve Solids	mg/L	232	281	237	290	363	217	53	83	214	9.6	55.0	120.0	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	422	515.0	431.0	523.0	679	205	110	165	396	16.3	100.3	300.0	-
12	Flow	L / Min	8232.3	10421.6	3433.6	3622.1	23568.2	139902.1	109995.6	356754.8	-	-	370.805	-	-

Analyzed by

Checked by

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Verified by