

STAR CEMENT MEGHALAYA LIMITED

Ref: SCML-MLA/EHS/LUM/2023-24/15

Dated: 13/07/2023

To,

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

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

Reference : MPCB/ONLINE/CTO(R-I)/EJHD/2021/2022-2023/14, Dtd: Shillong, the 30th Aug, 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 42.051 Ha** for the month of **June, 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.








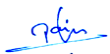


STAR CEMENT MEGHALAYA LIMITED





Lumshnong, Meghalaya


Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)
01-06-2023	762.5	60.1	32.7	0
02-06-2023	762.2	57.9	39.6	0
03-06-2023	761	59.7	40.7	0
04-06-2023	761.5	85.0	25.9	0
05-06-2023	760.9	65.7	29.8	0
06-06-2023	762.5	77.8	31.8	0
07-06-2023	762.2	66.9	33.4	0
08-06-2023	762.5	64.7	39.7	0
09-06-2023	761.4	61.8	32.5	15
10-06-2023	763	86.7	22.6	18.4
11-06-2023	762	75.9	38.9	163.4
12-06-2023	764	79.6	29.7	8.2
13-06-2023	760.6	54.7	37.6	8.4
14-06-2023	762.7	53.4	35.4	201
15-06-2023	764.8	76.1	33.7	304.8
16-06-2023	766	85.2	29.4	105.8
17-06-2023	764	59.7	33.6	138.2
18-06-2023	768	68.6	22.9	182.8
19-06-2023	764	64.9	23.8	180
20-06-2023	763.4	80.1	23.4	28.6
21-06-2023	761	82.6	20.7	89.4
22-06-2023	763.8	75.1	26.4	74.4
23-06-2023	760.9	84.6	25.7	60.6
24-06-2023	762.5	55.1	34.6	0
25-06-2023	762.2	55.0	35.0	8
26-06-2023	763	58.4	25.9	45.2
27-06-2023	761	87.6	22.9	12.6
28-06-2023	760	58.2	31.9	92.4
29-06-2023	762.5	52.9	32.4	96.2
30-06-2023	763	55.0	36.4	58.6
			Total	1892.0

	STAR CEMENT MEGHALAYA LIMITED (MLA 42.051 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/2023-24/03			Month: June	
Location of Sampling: Mines Entrance Haul Road		GPS Coordinate: 25°10'14.88"N 92°24'52.13"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)
09.06.2023	52.09	33.72	16.58	20.21
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 (MLA 42.051 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/2023-24/03			Month: June	
Location of Sampling: ROC Drilling Point		GPS Coordinate: 25°10'15.92"N 92°24'55.38"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)
09.06.2023	47.59	30.72	13.29	17.19
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m³)	60 (µg/m³)	80 (µg/m³)	80 (µg/m³)
<p>Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.</p>				
 Analysed by		 Checked By		 Verified By

	STAR CEMENT MEGHALAYA LIMITED (MLA 42.051 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/2023-24/03			Month: June	
Location of Sampling: Excavator Point		GPS Coordinate: 25°10'16.34"N 92°24'54.97"E 745 m		
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)
09.06.2023	44.02	32.49	14.77	18.22
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)
<p>Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.</p>				
 Analysed by		 Checked By		 Verified By

	STAR CEMENT MEGHALAYA LIMITED (42.051Ha) 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/2023-24/03				
(42.051 Ha)				
Month - June				
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline	
			Limit	
		(in $\mu\text{g}/\text{m}^3$)		(in $\mu\text{g}/\text{m}^3$)
09.06.2023	Near Lime Stone loading area	1768	5000	
<div style="display: flex; justify-content: space-between; align-items: flex-end; padding-top: 50px;"> <div style="text-align: center;">  Analyzed By </div> <div style="text-align: center;">  Checked By </div> <div style="text-align: center;">  Verified By </div> </div>				


	STAR CEMENT MEGHALAYA LIMITED (42.051 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(LM)/ENV/NOISE/MONTHLY/2023-24/003 Date:- 09.06.2023


Limestone Mine - 42.051





Month - June

S. No.	Location	Measured Values dB(A) Day time (6:00am to 10:00pm)			Norms In dB(A)
		Min.	Max.	Avg.	
1	Excavator				75
	A) Operator Cabin (Door Open)				
	a) At Low engine RPM	56.5	65.3	60.9	
	b) At High engine RPM	61.3	70.1	65.7	
	B) Operator Cabin(Door Close)				
	a) At Low engine RPM	58.6	64.6	61.6	
	b) At High engine RPM	61.3	68.9	65.1	
	C) Periphery of the Engine				
	a) At 1 mtr. Distance(At low RPM)	58.8	69.5	64.2	
	b) At 1 mtr. Distance (At high RPM)	60.0	70.7	65.4	
	c) At 5 mtr. Distance (At low RPM)	54.4	67.6	61.0	
	d) At 5 mtr. Distance (At high RPM)	56.8	68.7	62.7	
	D) Behind the Engine				
	a) At 1 mtr. Distance(At low RPM)	60.4	66.1	63.3	
	b) At 1 mtr. Distance (At high RPM)	67.5	70.1	68.8	
	2	Rock Breaker			
A) Operator Cabin					
a) At Low engine RPM		62.6	63.3	63.0	
b) At High engine RPM		64.9	70.2	67.6	
B) Rock Breaker Point (At 5 mtr. Distance)					
a) Left Side		56.7	64.8	60.8	
b) Right Side		53.4	66.5	60.0	
c) Front Side	56.1	68.1	62.1		


 Measured By


 Checked By


 Verified By

	STAR CEMENT MEGHALAYA LIMITED (42.051 Ha) Lumshnong, Meghalaya		Document No.		SCML/EHS/Env/F-03
			Effective Date		01-05-2019
			Revision No.		04
	NOISE LEVEL MONITORING REPORT			Revision Date	
Ref: SCML(LM)/ENV/NOISE/MONTHLY/2023-24/003 Date:- 09.06.2023					
Limestone Mine - 42.051					
Month - June					
S. No.	Location	Measured Values dB(A) Day time (6:00am to 10:00pm)			Norms In dB(A)
		Min.	Max.	Avg.	
3	Drill Machine				75
	A) Compressor				
	a) At 1 mtr. Distance	65.6	72.1	68.9	
	b) At 5 mtr. Distance	61.5	70.7	66.1	
	B) Drilling Point (At 5 mtr. Distance)				
	a) Left Side	62.6	70.7	66.6	
	b) Right Side	61.6	71.6	66.6	
	c) Front Side	60.6	70.7	65.7	
4	Dozer				75
	A) Operator Cabin				
	a) At Low engine RPM	57.0	62.6	59.8	
	b) At High engine RPM	63.2	70.9	67.1	
	B) Periphery of the Engine				
	a) At 1 mtr. Distance(At low RPM)	58.9	66.7	62.8	
	b) At 1 mtr. Distance (At high RPM)	62.9	70.1	66.5	
	c) At 5 mtr. Distance (At low RPM)	53.1	59.4	56.3	
	d) At 5 mtr. Distance (At high RPM)	59.6	67.6	63.6	
	c) Behind the Engine				
	a) At 1 mtr. Distance(At low RPM)	55.2	61.6	58.4	
	b) At 1 mtr. Distance (At high RPM)	58.9	65.7	62.3	
	c) At 5 mtr. Distance (At low RPM)	52.8	57.7	55.3	
	d) At 5 mtr. Distance (At high RPM)	56.3	59.7	58.0	
5	Dumper				
	A) Empty Dumper				
	a) Open Window	64.1	70.1	67.1	
	b) Close Window	58.1	63.6	60.9	
	B) Loaded Dumper				
	a) Open Window	65.3	70.6	68.0	
b) Close Window	60.6	64.9	62.8		
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STAR CEMENT MEGHALAYA LIMITED

Lumshnong, Meghalaya

(42.051 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/2023-24/03

Surface Water Analysis Results

Date of sample collection: 14.06.2023

Date of Analysis: 14.06.2023 to 17.06.2023

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	-	7.7	7.9	7.3	7.8	8.2	7.5	7.8	7.4	7.6	7.5	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	25.9	33.7	22.2	28.0	51.4	23.0	40.1	21.3	26.6	28.4	250
5	Total Hardness as CaCO ₃	mg/L	41.7	60.2	79.4	79.4	84.0	40.0	20.2	14.0	16.0	46.0	300
6	Suspended Solids	mg/L	5.2	30.7	4.9	38.9	45.7	6.7	7.4	4.5	3.7	8.3	-
7	Total Dissolve Solids	mg/L	275.0	286.0	231.0	287.0	307.0	92.4	171.0	17.8	29.6	175.0	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	440.0	457.6	396.6	459.2	491.2	147.8	273.6	22.0	47.3	280.0	-
12	Flow	L / Min	151831.8	522386.8	109492.3	203892.3	627482.1	945912.2	-	-	1581.75	-	-

Analyzed by

Checked by

Verified by