

STAR CEMENT MEGHALAYA LIMITED

Ref: SCML-MLA/EHS/LUM/2023-24/02

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)/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 **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


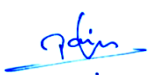


Copy To: 1) The Deputy Director General of Forest (Central), Ministry of Environment Forest & Climate Change, Govt. of India, Regional Office, Shillong, Meghalaya-793021.
2) The Regional Director, Central Pollution Control Board (CPCB), North Eastern Zonal Office, 'TUMSIR', Lower Motinagar, Shillong, Meghalaya-790314.








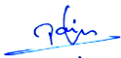


STAR CEMENT MEGHALAYA LIMITED





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 (42.051Ha) Lumshnong, Meghalaya		Reference No.	SCML/Env/F – 07 (a)
			Issue No.	1
	FUGITIVE EMISSION REPORT		Date of Issue:	01.12.2018
			Revision No.	2
		Date of Rev.	01.12.2020	
Ref: SCML/ENV/FUGITIVE/MONTHLY/2022-23/04				
(42.051 Ha)				
Month - March 2023				
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline	
			Limit	
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)	
18.03.2023	Near Lime Stone loading area	1963	5000	
<div style="display: flex; justify-content: space-around; align-items: flex-end; margin-top: 100px;"> <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 (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/2022-23/04			Month: March	
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)
18.03.2023	57.24	35.25	14.68	17.35
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
	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/2022-23/04			Month: March	
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/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
18.03.2023	53.67	34.90	11.14	12.36
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 (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/2022-23/04			Month: March	
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)
18.03.2023	50.10	36.72	11.12	11.55
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 (42.051 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/2022-23/002					Date:- 18.03.2023	
<p align="center"><u>Limestone Mine - 42.051</u></p> <p align="center">Month - March</p>						
S. No.	Location	Measured Values dB(A) Day time (6:00am to 10:00pm)			Norms in dB(A)	
		Min.	Max.	Avg.		
1	Excavator					
	A) Operator Cabin (Door Open)					
	a) At Low engine RPM	58.5	67.3	62.9	75	
	b) At High engine RPM	63.3	72.1	67.7		
	B) Operator Cabin(Door Close)					
	a) At Low engine RPM	60.6	66.6	63.6		
	b) At High engine RPM	63.3	70.9	67.1		
	C) Periphery of the Engine					
	a) At 1 mtr. Distance(At low RPM)	60.8	71.5	66.2		
	b) At 1 mtr. Distance (At high RPM)	62.0	72.7	67.4		
	c) At 5 mtr. Distance (At low RPM)	56.4	69.6	63.0		
	d) At 5 mtr. Distance (At high RPM)	58.8	70.7	64.7		
	D) Behind the Engine					
	a) At 1 mtr. Distance(At low RPM)	62.4	68.1	65.3		
	b) At 1 mtr. Distance (At high RPM)	69.5	72.1	70.8		
	c) At 5 mtr. Distance (At low RPM)	60.6	63.6	62.1		
d) At 5 mtr. Distance (At high RPM)	63.3	69.6	66.5			
2	Rock Breaker					
	A) Operator Cabin					
	a) At Low engine RPM	64.6	65.3	65.0	75	
	b) At High engine RPM	66.9	72.2	69.6		
	B) Rock Breaker Point (At 5 mtr. Distance)					
	a) Left Side	58.7	66.8	62.8		
	b) Right Side	55.4	68.5	62.0		
	c) Front Side	58.1	70.1	64.1		


 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/2022-23/002 Date:- 18.03.2023					
<u>Limestone Mine - 42.051</u> <u>Month - March</u>					
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	66.3	72.8	69.6	
	b) At 5 mtr. Distance	62.2	71.4	66.8	
	B) Drilling Point (At 5 mtr. Distance)				
	a) Left Side	63.3	71.4	67.3	
	b) Right Side	62.3	72.3	67.3	
	c) Front Side	61.3	71.4	66.4	
4	Dozer				75
	A) Operator Cabin				
	a) At Low engine RPM	57.7	63.3	60.5	
	b) At High engine RPM	63.9	71.6	67.8	
	B) Periphery of the Engine				
	a) At 1 mtr. Distance (At low RPM)	59.6	67.4	63.5	
	b) At 1 mtr. Distance (At high RPM)	63.6	70.8	67.2	
	c) At 5 mtr. Distance (At low RPM)	53.8	60.1	57.0	
	d) At 5 mtr. Distance (At high RPM)	60.3	68.3	64.3	
	c) Behind the Engine				
	a) At 1 mtr. Distance (At low RPM)	55.9	62.3	59.1	
	b) At 1 mtr. Distance (At high RPM)	59.6	66.4	63.0	
	c) At 5 mtr. Distance (At low RPM)	53.5	58.4	56.0	
	d) At 5 mtr. Distance (At high RPM)	57.0	60.4	58.7	
5	Dumper				
	A) Empty Dumper				
	a) Open Window	64.8	70.8	67.8	
	b) Close Window	58.8	64.3	61.6	
	B) Loaded Dumper				
	a) Open Window	66.0	71.3	68.7	
	b) Close Window	61.3	65.6	63.5	
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div>  Analyzed by </div> <div>  Checked by </div> <div>  Verified By </div> </div>					

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