STAR CEMENT MEGHALAYA LIMITED

Ref: SCML-MLA/EHS/LUM/2022-23/08

To,

Dated: 23/01/2023

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)/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 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

<u>Copy To</u>: 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.

CIN: U63090ML2005PLC008011

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STAR CEMENT MEGHALAYA LIMITED

Lumshnong, Meghalaya

Solid Setting		Lu	msimong, wegnalaya			
Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Wind Direction (deg)	Wind Speed- (m/s)	Manual Rai (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
				1	Total rain of this month	7.7



STAR CEMENT MEGHALAYA LIMITED (MLA 42.051 Ha)

AMBIENT AIR QUALITY MONITORING REPORT

Lumshnong, Meghalaya

SCML/Env/F - 01 Reference No. Issue No. Date of Issue: 24.08.2013 Revision No.

Date of Rev. 01.12.2020

Reference No.: SCML/ENV/A	AQM/MONTHLY/2022-23/01	Month: December'22					
Location of Sampling: Mines	Entrance Haul Road	GPS Coordinate: 25°10′14.88″N 92	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)	NO₂ (μg/m³)			
07.12.2022	44.43	23.19	10.83	15.70			
NAAQS permissible limits for Rural, Industrial,	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

Pari Singh

Checked By

Mrath



STAR CEMENT MEGHALAYA LIMITED (MLA 42.051 Ha)

AMBIENT AIR QUALITY MONITORING REPORT

Lumshnong, Meghalaya

Reference No. SCML/Env/F - 01 Issue No. Date of Issue: 24.08.2013 Revision No. Date of Rev. 01.12.2020

Month: December'22

Mrath

Verified By

Reference No.: SCML/ENV/AAQM/MONTHLY/2022-23/01

Location of Sampling: ROC D	Oriling 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)	NO₂ (μg/m³)		
07.12.2022	46.28	21.58	9.44	13.04		
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.

Pari Singh

Checked By

 ${\it STAR CEMENT MEGHALAYA LIMITED VPO-Lumshnong, District-Jaintia Hills, Meghalaya-793210}$



STAR CEMENT MEGHALAYA LIMITED (MLA 42.051 Ha)

AMBIENT AIR QUALITY MONITORING REPORT

(MLA 42.051 Ha) Lumshnong, Meghalaya
 Reference No.
 SCML/Env/F - 01

 Issue No.
 1

 Date of Issue:
 24.08.2013

 Revision No.
 5

01.12.2020

Reference No.: SCML/ENV/AAQM/MONTHLY/2022-23/01 Month: December'22

Location of Sampling: Excava	ator 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/m³)	PM _{2.5} (μg/m³)	SO₂ (μg/m³)	NO₂ (μg/m³)		
07.12.2022	41.89	17.12	11.13	12.23		
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (μg/m³)	60 (μg/m³)	80 (μg/m³)	80 (μg/m³)		

Date of Rev.

Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards, Notification dated 18th November 2009.

Analysed by

Roni. Single

Checked By



STAR CEMENT MEGHALAYA LIMITED (42.051Ha)

Lumshnong, Meghalaya

FUGITIVE EMISSION REPORT

Reference No.	SCML/Env/F – 07 (a)
Issue No.	1
Date of Issue:	01.12.2018
Revision No.	2
Date of Rev.	01.12.2020

Ref: SCML/ENV/FUGITIVE/MONTHLY/2022-23/001

(42.051 Ha)

Month - December 2022

		Fugitive Emission Results	As per CPCB/BIS Guideline
Date	Location		Limit
		(in µg/m³)	(in µg/m³)
24.12.2022	Near Lime Stone loading area	1715	5000

Analyzed By

Rani Singh

Verified By

nalyzed By Checked By



STAR CEMENT MEGHALAYA LIMITED (42.051 Ha)

Lumshnong, Meghalaya

NOISE LEVEL MONITORING REPORT

Document No.	SCML/EHS/Env/F-03
Effective Date	01-05-2019
Revision No.	04
Revision Date	01-01-2021

Ref: SCML(LM)/ENV/NOISE/MONTHLY/2022-23/001

Date:- 07.12.2022

<u>Limestone Mine - 42.051</u>

Month - December 2022

S. No.	Location	Measured Va	Norms In dB(A)		
		Min.	Max.	Avg.	
	Excavator				
	A) Operator Cabin (Door Open)				
	a) At Low engine RPM	57.2	66.0	61.6	
	b) At High engine RPM	62.0	70.8	66.4	
	B) Operator Cabin(Door Close)				
	a) At Low engine RPM	59.3	65.3	62.3	
	b) At High engine RPM	62.0	69.6	65.8	
	C) Periphery of the Engine				
1	a) At 1 mtr. Distance(At low RPM)	59.5	70.2	64.9	75
	b) At 1 mtr. Distance (At high RPM)	60.7	71.4	66.1	
	c) At 5 mtr. Distance (At low RPM)	55.1	68.3	61.7	
	d) At 5 mtr. Distance (At high RPM)	57.5	69.4	63.4	
	D) Behind the Engine				
	a) At 1 mtr. Distance(At low RPM)	61.1	66.8	64.0	
	b) At 1 mtr. Distance (At high RPM)	68.2	70.8	69.5	
	c) At 5 mtr. Distance (At low RPM)	59.3	62.3	60.8	
	d) At 5 mtr. Distance (At high RPM)	62.0	68.3	65.2	
	Rock Breaker				
	A) Operator Cabin				
	a) At Low engine RPM	63.3	64.0	63.7	
2	b) At High engine RPM	65.6	70.9	68.3	75
۷	B) Rock Breaker Point (At 5 mtr. Distance)				/3
	a) Left Side	57.4	65.5	61.5	
	b) Right Side	54.1	67.2	60.7	
	c) Front Side	56.8	68.8	62.8	

Measured By

Pani Singh

Checked By

Meath



STAR CEMENT MEGHALAYA LIMITED (42.051 Ha) Lumshnong, Meghalaya

Revision No.

Revision Date

Document No.

SCML/EHS/Env/F-03 01-05-2019 04

NOISE LEVEL MONITORING REPORT

01-01-2021 Date:- 07.12.2022

Ref: SCML(LM)/ENV/NOISE/MONTHLY/2022-23/001

<u>Limestone Mine - 42.051</u>

Month - December 2022

S. No.	Location	Measured Va	Measured Values dB(A) Day time (6:00am to 10:00pm)				
		Min.	Max.	Avg.			
	Drill Machine						
	A) Compressor						
	a) At 1 mtr. Distance	66.3	72.8	69.6			
3	b) At 5 mtr. Distance	62.2	71.4	66.8	75		
3	B) Drilling Point (At 5 mtr. Distance)				75		
	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			
	Dozer						
	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			
4	b) At 1 mtr. Distance (At high RPM)	63.6	70.8	67.2			
4	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	75		
	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			
	Dumper		•				
	A) Empty Dumper						
	a) Open Window	64.8	70.8	67.8			
5	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			

Analyzed by

Pani Singh

Checked by



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

Date of sample collection: - 12.12.2022

Surface Water Analysis Results

Reference No.: SCML/ENV/WATER/MONTHLY/2022-23/01

Month: December-2022

Date of Analysis: 12.12.2022 to 15.12.2022

6.11-	Para salar	1125	Umtyr	ngai Nallah	Umut	tha Nallah	Umso	Cultura	Lumshnong	Umbadoh	Tongseng	Wahiajer	Standards norms	
S.No.	Parameter	Unit	Up Stream	Down Stream	Up Stream	Down Stream	Down Stream	- Seshysmpa		Seasonal Sprir	oring / Seasonal Nallah		as per IS 2296	
1	рН	-	7.5	7.4	7.3	7.5	7.8	7.1	7.7	7.8				
2	Colour	Hazen	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless			10	
3	Odour	-				Unobje	ectionable						Unobjectionable	
4	Chloride	mg/L	42.0	42.9	38.0	38.8	40.0	23.5	21.7	25.4		Water Source	250	
5	Total Hardness as CaCO₃	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	- Water Source		-	
7	Total Dissolve Solids	mg/L	235	237	182	183	195	95.0	157.4	73.4	no	ot found	500	
	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

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