

STAR CEMENT MEGHALAYA LIMITED

Ref: SCML-MLA/EHS/LUM/2023-24/35

Dated: 29/01/2024

To,

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

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

Reference : MPCB/ONLINE/RCTO(R-I)/EJHD/2021/2023-2024/30, Dtd: Shillong, the 27th September, 2023.

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 **Brishyrnot Limestone Deposit-I (MLA 42.051 Ha)** of **Star Cement Meghalaya Limited** for the month of **December, 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: The Regional Director, Central Pollution Control Board (CPCB), North Eastern Zonal Office, 'TUMSIR', Lower Motinagar, Shillong, Meghalaya-790314.

Regd. Office & Works: P.O. Lumshnong, East Jaintia Hills District, Meghalaya-793210, E-mail: ehslums@starcement.co.in

Corporate Office: Century House, 2nd Floor, P 15/1, Taratala Road, Kolkata-700088, e-mail: kolkata@starcement.co.in



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)	Manual Rain (mm)
01-12-2023	722.8	70.2	22.7	0.0
02-12-2023	720.2	69.0	22.0	0.0
03-12-2023	719.9	69.8	22.9	0.0
04-12-2023	726.1	68.1	22.7	0.0
05-12-2023	723.4	67.9	22.6	0.0
06-12-2023	729.2	69.2	22.0	0.0
07-12-2023	723.8	68.0	20.0	13.4
08-12-2023	726.5	67.8	19.0	16.0
09-12-2023	728.1	68.0	22.5	0.0
10-12-2023	725.8	69.1	22.9	0.0
11-12-2023	723.8	72.3	23.0	0.0
12-12-2023	723.3	71.4	24.7	0.0
13-12-2023	723.7	75.6	22.8	0.0
14-12-2023	726.5	72.7	22.9	0.0
15-12-2023	726.7	72.9	23.8	0.0
16-12-2023	726.1	70.1	23.4	0.0
17-12-2023	724.5	76.4	20.6	0.0
18-12-2023	722.9	75.6	19.2	0.0
19-12-2023	720.5	68.6	20.9	0.0
20-12-2023	726.1	61.6	20.8	0.0
21-12-2023	726.6	64.6	22.3	0.0
22-12-2023	724.3	69.4	22.6	0.0
23-12-2023	726.5	68.9	22.7	0.0
24-12-2023	728.1	66.8	23.9	0.0
25-12-2023	726.5	69.5	22.7	0.0
26-12-2023	721.3	66.2	21.9	0.0
27-12-2023	728.0	69.1	22.4	0.0
28-12-2023	725.8	70.5	22.9	0.0
29-12-2023	724.6	72.6	19.6	0.0
30-12-2023	725.4	71.4	22.0	0.0
31-12-2023	725.8	70.5	22.9	0.0
			Total	29.4





	STAR CEMENT MEGHALAYA LIMITED Brishyrot Limestone Deposit - I (MLA 42.051) 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/2023-24/09			Month : December	
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/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
27.12.2023	60.64	38.17	15.34	20.65
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 Brishyrot Limestone Deposit - I (MLA 42.051) 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/2023-24/09			Month : December	
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)
27.12.2023	54.15	34.78	13.94	16.68
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 Brishyrnot Limestone Deposit - I (MLA 42.051) 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/2023-24/09			Month : December	
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)
27.12.2023	49.57	37.66	14.41	17.88
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 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/2023-24/09				
Brishyrnot Limestone Deposit - I (MLA 42.051)				
Month - December				
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline	
			Limit	
		(in $\mu\text{g}/\text{m}^3$)		(in $\mu\text{g}/\text{m}^3$)
27.12.2023	Near Lime Stone loading area	1462	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/2023-24/009 Date:- 27.12.2023						
Brishyrrnot Limestone Deposit - I (MLA 42.051)						
Month - December						
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	58.7	67.5	63.1	75	
	b) At High engine RPM	63.5	72.3	67.9		
	B) Operator Cabin(Door Close)					
	a) At Low engine RPM	60.8	66.8	63.8		
	b) At High engine RPM	63.5	71.1	67.3		
	C) Periphery of the Engine					
	a) At 1 mtr. Distance(At low RPM)	61.0	71.7	66.4		
	b) At 1 mtr. Distance (At high RPM)	62.2	72.9	67.6		
	c) At 5 mtr. Distance (At low RPM)	56.6	69.8	63.2		
	d) At 5 mtr. Distance (At high RPM)	59.0	70.9	64.9		
	D) Behind the Engine					
	a) At 1 mtr. Distance(At low RPM)	62.6	68.3	65.5		
	b) At 1 mtr. Distance (At high RPM)	69.7	72.3	71.0		
	c) At 5 mtr. Distance (At low RPM)	60.8	63.8	62.3		
d) At 5 mtr. Distance (At high RPM)	63.5	69.8	66.7			
2	Rock Breaker					
	A) Operator Cabin					
	a) At Low engine RPM	64.8	65.5	65.2	75	
	b) At High engine RPM	67.1	72.4	69.8		
	B) Rock Breaker Point (At 5 mtr. Distance)					
	a) Left Side	58.9	67.0	63.0		
	b) Right Side	55.6	68.7	62.2		
	c) Front Side	58.3	70.3	64.3		
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;">  Measured 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	
Ref: SCML(LM)/ENV/NOISE/MONTHLY/2023-24/009 Date:- 27.12.2023					
Brishyrrnot Limestone Deposit - I (MLA 42.051)					
Month - December					
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	68.4	74.9	71.7	
	b) At 5 mtr. Distance	64.3	73.5	68.9	
	B) Drilling Point (At 5 mtr. Distance)				
	a) Left Side	65.4	73.5	69.4	
	b) Right Side	64.4	74.4	69.4	
	c) Front Side	63.4	73.5	68.5	
4	Dozer				75
	A) Operator Cabin				
	a) At Low engine RPM	59.8	65.4	62.6	
	b) At High engine RPM	66.0	73.7	69.9	
	B) Periphery of the Engine				
	a) At 1 mtr. Distance(At low RPM)	61.7	69.5	65.6	
	b) At 1 mtr. Distance (At high RPM)	65.7	72.9	69.3	
	c) At 5 mtr. Distance (At low RPM)	55.9	62.2	59.1	
	d) At 5 mtr. Distance (At high RPM)	62.4	70.4	66.4	
	c) Behind the Engine				
	a) At 1 mtr. Distance(At low RPM)	58.0	64.4	61.2	
	b) At 1 mtr. Distance (At high RPM)	61.7	68.5	65.1	
	c) At 5 mtr. Distance (At low RPM)	55.6	60.5	58.1	
	d) At 5 mtr. Distance (At high RPM)	59.1	62.5	60.8	
5	Dumper				
	A) Empty Dumper				
	a) Open Window	66.9	72.9	69.9	
	b) Close Window	60.9	66.4	63.7	
	B) Loaded Dumper				
	a) Open Window	68.1	73.4	70.8	
b) Close Window	63.4	67.7	65.6		
<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>					

