

STAR CEMENT MEGHALAYA LIMITED

Ref: SCML-MLA/EHS/LUM/2024-25/05

Dated: 24/05/2024

To,

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

Subject : Submission of Environmental Monitoring Report for the month of April, 2024.

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 **April, 2024**.

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.











STAR CEMENT LIMITED





Lumshnong, Meghalaya





Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)
01-04-2024	720.7	71.6	18.8	91.9
02-04-2024	718.1	70.4	18.1	10.0
03-04-2024	717.8	71.2	19.0	30.4
04-04-2024	724.0	69.5	18.8	62.0
05-04-2024	721.3	69.3	18.7	15.4
06-04-2024	727.1	70.6	18.1	8.0
07-04-2024	721.7	69.4	20.0	0.0
08-04-2024	724.4	69.2	19.0	0.0
09-04-2024	726.0	69.4	18.6	0.0
10-04-2024	723.7	70.5	19.0	0.0
11-04-2024	721.7	73.7	19.1	0.0
12-04-2024	721.2	72.8	20.8	0.0
13-04-2024	721.6	77.0	18.9	0.0
14-04-2024	724.4	74.1	19.0	0.0
15-04-2024	724.6	74.3	19.9	0.0
16-04-2024	724.0	71.5	19.5	0.0
17-04-2024	722.4	77.8	16.7	7.2
18-04-2024	720.8	77.0	15.3	0.0
19-04-2024	718.4	70.0	17.0	18.8
20-04-2024	724.0	63.0	16.9	20.6
21-04-2024	724.5	66.0	18.4	44.2
22-04-2024	722.2	70.8	18.7	20.2
23-04-2024	724.4	70.3	18.8	108.2
24-04-2024	726.0	68.2	20.0	51.0
25-04-2024	724.4	70.9	18.8	24.0
26-04-2024	719.2	67.6	18.0	42.0
27-04-2024	725.9	70.5	18.5	12.6
28-04-2024	723.7	71.9	19.0	18.2
29-04-2024	722.5	74.0	15.7	72.0
30-04-2024	724.4	70.9	18.8	54.6
			Total	711.3





	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/2024-25/13			Month : April	
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)
18.04.2024	68.82	42.62	17.07	25.16
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/2024-25/13			Month : April	
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)
18.04.2024	62.33	39.23	15.67	21.19
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.				
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;">  Analysed by </div> <div style="text-align: center;">  Checked By </div> <div style="text-align: center;">  Verified By </div> </div>				

	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/2024-25/13			Month : April	
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/m³)	PM _{2.5} (µg/m³)	SO ₂ (µg/m³)	NO ₂ (µg/m³)
18.04.2024	57.75	42.11	16.14	22.39
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 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/2024-25/13			
Brishyrnot Limestone Deposit - I (MLA 42.051)			
Month - April			
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline
			Limit
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)
18.04.2024	Near Lime Stone loading area	1534	5000
<div><div> Analyzed By</div><div> Checked By</div><div> 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/2024-25/013					Date:-	18.04.2024
Brishyrrnot Limestone Deposit - I (MLA 42.051)						
Month - April						
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	58.7	67.5	63.1		
	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				75	
	A) Operator Cabin					
	a) At Low engine RPM	64.8	65.5	65.2		
	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>  Measured By </div> <div>  Checked By </div> <div>  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/2024-25/013 Date:- 18.04.2024					
Brishyrnot Limestone Deposit - I (MLA 42.051)					
Month - April					
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	65.2	71.7	68.5	
	b) At 5 mtr. Distance	61.1	70.3	65.7	
	B) Drilling Point (At 5 mtr. Distance)				
	a) Left Side	62.2	70.3	66.2	
	b) Right Side	61.2	71.2	66.2	
	c) Front Side	60.2	70.3	65.3	
4	Dozer				75
	A) Operator Cabin				
	a) At Low engine RPM	56.6	62.2	59.4	
	b) At High engine RPM	62.8	70.5	66.7	
	B) Periphery of the Engine				
	a) At 1 mtr. Distance(At low RPM)	58.5	66.3	62.4	
	b) At 1 mtr. Distance (At high RPM)	62.5	69.7	66.1	
	c) At 5 mtr. Distance (At low RPM)	52.7	59.0	55.9	
	d) At 5 mtr. Distance (At high RPM)	59.2	67.2	63.2	
	c) Behind the Engine				
	a) At 1 mtr. Distance(At low RPM)	54.8	61.2	58.0	
	b) At 1 mtr. Distance (At high RPM)	58.5	65.3	61.9	
	c) At 5 mtr. Distance (At low RPM)	52.4	57.3	54.9	
	d) At 5 mtr. Distance (At high RPM)	55.9	59.3	57.6	
5	Dumper				
	A) Empty Dumper				
	a) Open Window	63.7	69.7	66.7	
	b) Close Window	57.7	63.2	60.5	
	B) Loaded Dumper				
	a) Open Window	64.9	70.2	67.6	
b) Close Window	60.2	64.5	62.4		
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