

# STAR CEMENT MEGHALAYA LIMITED

Ref: SCML-MLA/EHS/LUM/2024-25/10

Dated: 12/07/2024

To,

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

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

**Reference** : MPCB/ONLINE/RCTO(R-I)/EJHD/2021/2023-2024/30, Dtd: Shillong, the 27<sup>th</sup> 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 **June, 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)
01-06-2024	719.9	72.3	18.6	0.0
02-06-2024	717.3	71.1	17.9	11.7
03-06-2024	717.0	71.9	18.8	13.2
04-06-2024	723.2	70.2	18.6	48.8
05-06-2024	720.5	70.0	18.5	5.0
06-06-2024	726.3	71.3	17.9	4.8
07-06-2024	720.9	70.1	20.0	0.0
08-06-2024	723.6	69.9	19.0	0.0
09-06-2024	725.2	70.1	18.4	0.0
10-06-2024	722.9	71.2	18.8	24.2
11-06-2024	720.9	74.4	18.9	0.0
12-06-2024	720.4	73.5	20.6	23.6
13-06-2024	720.8	77.7	18.7	47.4
14-06-2024	723.6	74.8	18.8	9.4
15-06-2024	723.8	75.0	19.7	165.4
16-06-2024	723.2	72.2	19.3	74.6
17-06-2024	721.6	78.5	16.5	118.2
18-06-2024	720.0	77.7	15.1	142.0
19-06-2024	717.6	70.7	16.8	27.8
20-06-2024	723.2	63.7	16.7	0.0
21-06-2024	723.7	66.7	18.2	0.0
22-06-2024	721.4	71.5	18.5	6.8
23-06-2024	723.6	71.0	18.6	0.0
24-06-2024	725.2	68.9	19.8	9.4
25-06-2024	723.6	71.6	18.6	5.2
26-06-2024	718.4	68.3	17.8	0.0
27-06-2024	725.1	71.2	18.3	4.0
28-06-2024	722.9	72.6	18.8	5.4
29-06-2024	721.7	74.7	15.5	57.3
30-06-2024	723.6	71.6	18.6	65.7
			<b>Total</b>	<b>869.9</b>

	<b>STAR CEMENT MEGHALAYA LIMITED</b> <b>Brishyrnot Limestone Deposit - I (MLA 42.051)</b> Lumshnong, Meghalaya		Reference No.	SCML/Env/F - 01
			Issue No.	1
	<b>AMBIENT AIR QUALITY MONITORING REPORT</b>		Date of Issue:	24.08.2013
			Revision No.	5
Reference No.: SCML/ENV/AAQM/MONTHLY/2024-25/15			Date of Rev.	01.12.2020
			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 <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
26.06.2024	75.14	48.98	17.72	24.65
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m <sup>3</sup> )	60 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )
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

	<b>STAR CEMENT MEGHALAYA LIMITED</b> <b>Brishyrnot Limestone Deposit - I (MLA 42.051)</b> <b>Lumshnong, Meghalaya</b>		Reference No.	SCML/Env/F - 01
			Issue No.	1
			Date of Issue:	24.08.2013
	<b>AMBIENT AIR QUALITY MONITORING REPORT</b>		Revision No.	5
Reference No.: SCML/ENV/AAQM/MONTHLY/2024-25/15			Date of Rev.	01.12.2020
			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 <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
26.06.2024	68.65	45.59	16.32	20.68
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m <sup>3</sup> )	60 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )
<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

	<b>STAR CEMENT MEGHALAYA LIMITED</b> Brishyrnot Limestone Deposit - I (MLA 42.051) Lumshnong, Meghalaya		Reference No.	SCML/Env/F - 01
			Issue No.	1
	<b>AMBIENT AIR QUALITY MONITORING REPORT</b>		Date of Issue:	24.08.2013
			Revision No.	5
Reference No.: SCML/ENV/AAQM/MONTHLY/2024-25/15			Date of Rev.	01.12.2020
			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 <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
26.06.2024	64.07	48.47	16.79	21.88
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m <sup>3</sup> )	60 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )
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**  
Lumshnong, Meghalaya

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

**FUGITIVE EMISSION REPORT**

Ref: SCML/ENV/FUGITIVE/MONTHLY/2024-25/15

**Brishyrnot Limestone Deposit - I (MLA 42.051)**

**Month - June**

Date	Location	Fugitive Emission Results (in $\mu\text{g}/\text{m}^3$ )	As per CPCB/BIS Guideline
			Limit (in $\mu\text{g}/\text{m}^3$ )
26.06.2024	Near Lime Stone loading area	1540	5000

  
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Checked By

  
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	<b>STAR CEMENT MEGHALAYA LIMITED</b> (42.051 Ha) Lumshnong, Meghalaya		Document No.	SCML/EHS/Env/F-03	
			Effective Date	01-05-2019	
	<b>NOISE LEVEL MONITORING REPORT</b>		Revision No.	04	
			Revision Date	01-01-2021	
Ref: SCML(LM)/ENV/NOISE/MONTHLY/2024-25/015			Date:-	26.06.2024	
<b>Brishyrnot Limestone Deposit - I (MLA 42.051)</b>					
<b>Month - June</b>					
S. No.	Location	Measured Values dB(A) Day time (6:00am to 10:00pm)			Norms In dB(A)
		Min.	Max.	Avg.	
1	<b>Excavator</b>				75
	<b>A) Operator Cabin (Door Open)</b>				
	a) At Low engine RPM	57.4	66.2	61.8	
	b) At High engine RPM	62.2	71.0	66.6	
	<b>B) Operator Cabin(Door Close)</b>				
	a) At Low engine RPM	59.5	65.5	62.5	
	b) At High engine RPM	62.2	69.8	66.0	
	<b>C) Periphery of the Engine</b>				
	a) At 1 mtr. Distance( At low RPM)	59.7	70.4	65.1	
	b) At 1 mtr. Distance (At high RPM)	60.9	71.6	66.3	
	c) At 5 mtr. Distance (At low RPM)	55.3	68.5	61.9	
	d) At 5 mtr. Distance (At high RPM)	57.7	69.6	63.6	
	<b>D) Behind the Engine</b>				
	a) At 1 mtr. Distance( At low RPM)	61.0	66.7	63.9	
b) At 1 mtr. Distance (At high RPM)	68.1	70.7	69.4		
c) At 5 mtr. Distance (At low RPM)	59.2	62.2	60.7		
d) At 5 mtr. Distance (At high RPM)	61.9	68.2	65.1		
2	<b>Rock Breaker</b>				75
	<b>A) Operator Cabin</b>				
	a) At Low engine RPM	62.8	63.5	63.2	
	b) At High engine RPM	65.1	70.4	67.8	
	<b>B) Rock Breaker Point (At 5 mtr. Distance)</b>				
	a) Left Side	56.9	65.0	61.0	
	b) Right Side	53.6	66.7	60.2	
c) Front Side	56.3	68.3	62.3		
<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>					

	<b>STAR CEMENT MEGHALAYA LIMITED</b> (42.051 Ha) Lumshnong, Meghalaya	Document No.	SCML/EHS/Env/F-03
		Effective Date	01-05-2019
	<b>NOISE LEVEL MONITORING REPORT</b>	Revision No.	04
		Revision Date	01-01-2021

Ref: SCML(LM)/ENV/NOISE/MONTHLY/2024-25/015

Date:- 26.06.2024

**Brishyrnot Limestone Deposit - I (MLA 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	<b>Drill Machine</b>				75
	<b>A) Compressor</b>				
	a) At 1 mtr. Distance	66.0	72.5	69.3	
	b) At 5 mtr. Distance	61.9	71.1	66.5	
	<b>B) Drilling Point (At 5 mtr. Distance)</b>				
	a) Left Side	63.0	71.1	67.0	
	b) Right Side	62.0	72.0	67.0	
c) Front Side	61.0	71.1	66.1		
4	<b>Dozer</b>				75
	<b>A) Operator Cabin</b>				
	a) At Low engine RPM	57.4	63.0	60.2	
	b) At High engine RPM	63.6	71.3	67.5	
	<b>B) Periphery of the Engine</b>				
	a) At 1 mtr. Distance( At low RPM)	59.3	67.1	63.2	
	b) At 1 mtr. Distance (At high RPM)	63.3	70.5	66.9	
	c) At 5 mtr. Distance (At low RPM)	53.5	59.8	56.7	
	d) At 5 mtr. Distance (At high RPM)	60.0	68.0	64.0	
	<b>c) Behind the Engine</b>				
	a) At 1 mtr. Distance( At low RPM)	55.6	62.0	58.8	
	b) At 1 mtr. Distance (At high RPM)	59.3	66.1	62.7	
	c) At 5 mtr. Distance (At low RPM)	53.2	58.1	55.7	
d) At 5 mtr. Distance (At high RPM)	56.7	60.1	58.4		
5	<b>Dumper</b>				
	<b>A) Empty Dumper</b>				
	a) Open Window	64.5	70.5	67.5	
	b) Close Window	58.5	64.0	61.3	
	<b>B) Loaded Dumper</b>				
	a) Open Window	65.7	71.0	68.4	
b) Close Window	61.0	65.3	63.2		

  
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**STAR CEMENT MEGHALAYA LIMITED**  
Lumshnong, Meghalaya

Reference No.	SCML/EHS/F-04
Issue No.	1
Date of Issue:	24.08.2013
Revision No.	3
Date of Rev.	01.06.2019

**Brishyrnot Limestone Deposit - I (MLA 42.051)**

Reference No.: SCML/ENV/WATER/MONTHLY/2024-25/15

**Surface Water Analysis Results**

Date of sample collection: 20.06.2024

Date of Analysis: 20.06.2024 to 22.06.2024

S.No.	Parameter	Unit	Umtyrngai Nallah		Umutha Nallah		Umso Nalah	Seshympa	Lunar	Lukha	Umbadoh	Tongseng	Lumshnong	Wahiajer	Standards norms as per IS 2296
			Up Stream	Down Stream	Up Stream	Down Stream	Down Stream								
1	pH	-	7.6	7.7	7.2	7.3	7.8	7.6	7.8	7.8	7.6	7.7	7.8	7.7	6.5 - 8.5
2	Colour	Hazen	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Yellowish	Colourless	Yellowish	Yellowish	Yellowish	Yellowish	10
3	Odour	-	Unobjectionable												
4	Chloride	mg/L	28.4	32.2	33.4	30.4	33.5	30.5	45.7	22.5	23.5	24.8	26.4	25.9	250
5	Total Hardness as CaCO <sub>3</sub>	mg/L	56.5	65.4	77.7	76.5	72.1	69.9	67.1	64.3	61.5	46.5	47.6	42.1	300
6	Suspended Solids	mg/L	1.2	1.1	1.3	1.5	1.8	2.0	1.8	2.6	2.1	1.5	1.6	1.4	-
7	Total Dissolve Solids	mg/L	204.5	214.0	226.5	387.4	356.5	150.4	187.6	80.4	85.2	70.2	66.4	215.3	500
8	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	ND	ND	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	ND	ND	-
10	Temperature	° C	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	-
11	Conductivity	µS/cm	180.5	210.5	315.3	440.0	351.2	254.6	287.6	115.7	148.6	124.6	110.3	452.4	-
12	Flow	L / Min	1452.3	1878.6	356.4	665.4	1025.6	7845.6	484857.0	3641582.0	321458.0	284587.0	356895.0	-	

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