

# STAR CEMENT MEGHALAYA LIMITED

Ref: SCML-MLA/EHS/LUM/2025-26/02

Dated: 07/05/2025

To,

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

**Subject : Submission of Environmental Monitoring Report for the month of April, 2025**

**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 **April, 2025**.

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 MEGHALAYA LIMITED





Lumshnong, Meghalaya





Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)
01-04-2025	959.5	80.5	25.9	8.0
02-04-2025	961.0	85.3	24.9	4.0
03-04-2025	961.6	85.4	24.7	0.0
04-04-2025	960.6	86.3	24.7	0.0
05-04-2025	959.2	75.2	25.3	0.0
06-04-2025	960.2	78.4	23.4	5.0
07-04-2025	961.9	71.0	24.1	2.0
08-04-2025	964.2	73.8	25.4	0.0
09-04-2025	963.8	89.0	23.0	0.0
10-04-2025	957.7	71.7	26.0	0.0
11-04-2025	956.7	79.6	24.5	13.2
12-04-2025	958.1	83.9	23.8	6.2
13-04-2025	959.7	76.8	24.3	0.0
14-04-2025	959.8	67.2	26.8	0.0
15-04-2025	960.4	69.4	26.1	0.0
16-04-2025	960.2	83.7	23.4	27.0
17-04-2025	959.3	83.5	23.3	0.0
18-04-2025	958.7	76.5	24.5	0.0
19-04-2025	957.8	76.8	25.5	20.0
20-04-2025	957.9	84.9	25.0	0.0
21-04-2025	959.7	90.3	24.1	18.0
22-04-2025	959.0	96.3	24.1	77.7
23-04-2025	956.4	96.8	23.2	70.7
24-04-2025	956.7	94.3	23.9	77.2
25-04-2025	957.7	98.0	22.5	58.6
26-04-2025	958.4	90.6	25.1	8.2
27-04-2025	960.5	83.8	24.8	0.0
28-04-2025	960.0	95.5	20.4	59.0
29-04-2025	959.7	87.7	21.0	0.0
30-04-2025	959.8	75.3	25.0	0.0
			<b>Total</b>	<b>454.8</b>





	<b>STAR CEMENT MEGHALAYA LIMITED</b> <b>Brishyrot Limestone Deposit - I (MLA 42.051)</b> Lumshnong, Meghalaya		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
Date of Rev.			01.12.2020	
Reference No.: SCML/ENV/AAQM/MONTHLY/2025-26/01			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 <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> )
19.04.2025	Rainfall	Rainfall	Rainfall	Rainfall
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>Brishyrot Limestone Deposit - I (MLA 42.051)</b> <b>Lumshnong, Meghalaya</b>		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
		Date of Rev.	01.12.2020	
Reference No.: SCML/ENV/AAQM/MONTHLY/2025-26/01			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 <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> )
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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>Brishyrrnot 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
Date of Rev.			01.12.2020	
Reference No.: SCML/ENV/AAQM/MONTHLY/2025-26/01			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 <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> )
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<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> Brishyrrnot 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
		Date of Rev.	01.12.2020	
Reference No.: SCML/ENV/AAQM/MONTHLY/2024-25/01			Month : April	
Location of Sampling: Star Public School		GPS Coordinate: 25°10'27"N 92°23'08"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> )
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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> Lumshnong, Meghalaya		Reference No.	SCML/Env/F – 07 (a)
			Issue No.	1
			Date of Issue:	01.12.2018
	<b>FUGITIVE EMISSION REPORT</b>		Revision No.	2
Date of Rev.			01.12.2020	
Ref: SCML/ENV/FUGITIVE/MONTHLY/2025-26/01				
<b>Brishyrnot Limestone Deposit - I (MLA 42.051)</b>				
<b>Month - April</b>				
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline	
			Limit	
		(in $\mu\text{g}/\text{m}^3$ )	(in $\mu\text{g}/\text{m}^3$ )	
30.04.2025	Near Lime Stone loading area	1535	5000	
<div style="display: flex; justify-content: space-between; align-items: flex-end; padding-top: 50px;"> <div style="text-align: center;">   <b>Analyzed By</b> </div> <div style="text-align: center;">   <b>Checked By</b> </div> <div style="text-align: center;">   <b>Verified By</b> </div> </div>				

	<b>STAR CEMENT MEGHALAYA LIMITED</b> <b>(42.051 Ha.)</b> <b>Lumshnong, Meghalaya</b>		Document No.		SCML/EHS/Env/F-03
			Effective Date		01-05-2019
			Revision No.		04
	<b>NOISE LEVEL MONITORING REPORT</b>		Revision Date		01-01-2021
Ref: SCML(LM)/ENV/NOISE/MONTHLY/2025-26/01 Date:- 30.04.2025					
<b>Brishyrnot Limestone Deposit - I (MLA 42.051 Ha.)</b>					
<b>Month - April</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	56.9	67.1	62.0	
	b) At High engine RPM	64.2	70.5	67.4	
	<b>B) Operator Cabin(Door Close)</b>				
	a) At Low engine RPM	54.2	65.1	59.7	
	b) At High engine RPM	61.9	66.5	64.2	
	<b>C) Periphery of the Engine</b>				
	a) At 1 mtr. Distance( At low RPM)	59.6	64.1	61.9	
	b) At 1 mtr. Distance (At high RPM)	63.9	69.1	66.5	
	c) At 5 mtr. Distance (At low RPM)	59.6	62.0	60.8	
	d) At 5 mtr. Distance (At high RPM)	62.4	65.8	64.1	
	<b>D) Behind the Engine</b>				
	a) At 1 mtr. Distance( At low RPM)	57.1	63.8	60.5	
	b) At 1 mtr. Distance (At high RPM)	62.8	67.5	65.2	
c) At 5 mtr. Distance (At low RPM)	54.6	62.4	58.5		
d) At 5 mtr. Distance (At high RPM)	62.2	67.2	64.7		
2	<b>Rock Breaker</b>				75
	<b>A) Operator Cabin</b>				
	a) At Low engine RPM	61.8	64.2	63.0	
	b) At High engine RPM	64.8	67.5	66.2	
	<b>B) Rock Breaker Point (At 5 mtr. Distance)</b>				
	a) Left Side	62.7	65.4	64.1	
	b) Right Side	62.4	65.8	64.1	
	c) Front Side	61.8	66.9	64.4	
<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>					



	<b>STAR CEMENT MEGHALAYA LIMITED</b> (42.051 Ha.) Lumshnong, Meghalaya		Document No.		SCML/EHS/Env/F-03
			Effective Date		01-05-2019
			Revision No.		04
	<b>NOISE LEVEL MONITORING REPORT</b>			Revision Date	
Ref: SCML(LM)/ENV/NOISE/MONTHLY/2025-26/01 <span style="float: right;">Date:- 30.04.2025</span>					
<b>Brishyrrnot Limestone Deposit - I (MLA 42.051 Ha.)</b>					
<b>Month - April</b>					
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	64.7	68.4	66.6	
	b) At 5 mtr. Distance	62.4	67.8	65.1	
	<b>B) Drilling Point (At 5 mtr. Distance)</b>				
	a) Left Side	64.1	67.4	65.8	
	b) Right Side	63.8	66.9	65.4	
	c) Front Side	64.8	68.5	66.7	
4	<b>Dozer</b>				75
	<b>A) Operator Cabin</b>				
	a) At Low engine RPM	58.4	64.3	61.4	
	b) At High engine RPM	66.1	68.4	67.3	
	<b>B) Periphery of the Engine</b>				
	a) At 1 mtr. Distance( At low RPM)	64.8	69.1	67.0	
	b) At 1 mtr. Distance (At high RPM)	66.9	71.5	69.2	
	c) At 5 mtr. Distance (At low RPM)	61.0	65.9	63.5	
	d) At 5 mtr. Distance (At high RPM)	62.9	68.2	65.6	
	<b>c) Behind the Engine</b>				
	a) At 1 mtr. Distance( At low RPM)	57.9	68.9	63.4	
	b) At 1 mtr. Distance (At high RPM)	64.7	71.4	68.1	
	c) At 5 mtr. Distance (At low RPM)	56.1	66.8	61.5	
	d) At 5 mtr. Distance (At high RPM)	61.8	68.4	65.1	
5	<b>Dumper</b>				
	<b>A) Empty Dumper</b>				
	a) Open Window	63.5	66.1	64.8	
	b) Close Window	58.2	64.8	61.5	
	<b>B) Loaded Dumper</b>				
	a) Open Window	64.2	67.9	66.1	
b) Close Window	58.5	64.9	61.7		
<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>					

<div>STAR CEMENT Solid Setting</div>	STAR CEMENT MEGHALAYA LIMITED Lumshnong, Meghalaya													Reference No.	SCML/EHS/F-04			
														Issue No.	1			
	Brishyrnot Limestone Deposit - I (MLA 42.051 Ha.)													Date of Issue:	24.08.2013			
														Revision No.	3			
													Date of Rev.	01.06.2019				
Reference No.: SCML/ENV/WATER/MONTHLY/2025-26/01													Surface Water Analysis Results			Date of sample collection: 01.04.2025		
																Date of Analysis: 01.04.2025 to 08.04.2025		
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				Seasonal Spring / Seasonal Nallah							
1	pH	-	7.4	7.5	7.5	7.6	7.4	7.2	7.5	7.3	7.4	7.3	7.4	7.3	6.5 - 8.5			
2	Colour	Hazen	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	10			
3	Odour	-	Unobjectionable															
4	Chloride	mg/L	26.8	30.5	32.6	33.9	34.1	32.9	31.1	28.2	24.8	25.9	30.8	26.4	250			
5	Total Hardness as CaCO <sub>3</sub>	mg/L	59.8	64.6	78.4	75.2	80.8	89.2	45.9	62.1	61.8	54.2	56.8	58.4	300			
6	Suspended Solids	mg/L	42.9	45.7	46.2	52.9	53.4	47.2	42.9	59.2	46.1	48.2	40.2	41.3	-			
7	Total Dissolve Solids	mg/L	295.2	289.4	284.2	334.1	352.7	258.1	239.8	159.3	96.4	151.2	105.4	203.8	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	23.4	24.1	23.9	23.5	24.3	23.8	24.5	24.1	24.3	23.4	23.6	24.0	-			
11	Conductivity	µS/cm	208.1	228.4	242.4	332.7	356.1	298.5	248.9	126.7	182.4	196.5	172.5	276.6	-			
12	Flow	L / Min	1528.8	2026.5	667.9	821.8	1124.0	9623.6	2240.1	92021.4	812.6	565.2	922.5	889.2	-			
<div><div><div>Shailendra Kumar</div><div>Analyzed by</div></div><div><div>Y. K. Gaurav</div><div>Checked by</div></div><div><div>R. K. Singh</div><div>Verified by</div></div></div>																		