

# STAR CEMENT MEGHALAYA LIMITED

CIN : U63090ML2005PLC008011

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Ref: SCML /EHS/LUMS/2025-26/71

Dated: 08/12/2025

To,

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

**Subject** : Submission of Environmental Monitoring Report for the month of November, 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, Noise & Surface water monitoring reports of **Brishyrnot Limestone Mine -I (MLA 42.051 Ha)** of **Star Cement Meghalaya Limited** for the month of **November, 2025**.

This is for your kind information, record and kindly acknowledges receipt of the same.

Thanking You,

Yours truly,

For **STAR CEMENT MEGHALAYA LIMITED**



 **Lokesh Kumar Bahety**  
Unit Head





Enclosed: a/a











# STAR CEMENT MEGHALAYA LIMITED





Lumshnong, Meghalaya





Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)
01-11-2025	947.8	91.3	23.4	3.1
02-11-2025	955.1	89.6	25.3	7.9
03-11-2025	950.4	96.0	23.1	0.0
04-11-2025	964.9	83.2	24.5	0.0
05-11-2025	964.5	88.7	23.9	5.8
06-11-2025	967.0	82.4	27.0	7.8
07-11-2025	962.6	90.1	23.1	0.0
08-11-2025	954.3	89.7	21.9	0.0
09-11-2025	951.5	78.0	24.3	0.0
10-11-2025	956.0	90.4	19.9	0.0
11-11-2025	960.9	86.7	20.2	0.0
12-11-2025	950.3	80.9	23.1	0.0
13-11-2025	963.7	73.1	22.6	0.0
14-11-2025	964.4	85.6	17.3	0.0
15-11-2025	964.7	86.2	18.1	0.0
16-11-2025	966.4	72.4	22.4	0.0
17-11-2025	966.1	65.7	23.5	0.0
18-11-2025	960.5	82.0	17.5	0.0
19-11-2025	967.3	81.6	18.3	0.0
20-11-2025	958.6	82.2	18.8	0.0
21-11-2025	969.1	83.3	18.3	0.0
22-11-2025	973.6	87.2	18.2	0.0
23-11-2025	977.3	80.4	20.5	0.0
24-11-2025	978.5	85.8	18.8	0.0
25-11-2025	977.4	86.4	16.4	0.0
26-11-2025	974.7	88.7	15.8	0.0
27-11-2025	960.9	82.6	18.3	0.0
28-11-2025	969.0	79.5	16.7	0.0
29-11-2025	977.9	74.0	20.0	0.0
30-11-2025	976.8	78.5	20.8	0.0
			<b>Total</b>	<b>24.6</b>


	<b>STAR CEMENT MEGHALAYA LIMITED</b> Brishyrnot Limestone Mine - I (MLA 42.051 Ha) 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/2025-26/08			Month : November'25	
Location of Sampling: Near Boundary Pillar no. 07			GPS Coordinate: 25°10'27.28"N 92°25'21.48"E	
Sampling Duration:	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.
Date of Sampling	PM <sub>10</sub> (µg/m³)	PM <sub>2.5</sub> (µg/m³)	SO <sub>2</sub> (µg/m³)	NO <sub>2</sub> (µg/m³)
15-11-2025	39.56	17.52	13.50	9.66
26-11-2025	42.64	18.76	15.65	10.22
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; margin-top: 100px;"> <div style="text-align: center;">   <b>Analysed 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> Brishyrnot Limestone Mine - I (MLA 42.051 Ha) 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/2025-26/08			Month : November'25	
Location of Sampling: Near Boundary Pillar no.18		GPS Coordinate: 25°10'18.01" N 92°25'32.35"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> )
15-11-2025	33.85	16.95	12.43	9.65
26-11-2025	36.89	18.72	13.52	10.47
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> Brishyrrnot Limestone Mine - I (MLA 42.051 Ha) 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/2025-26/08			Month : November'25	
Location of Sampling: Between Boundary Pillar no.27 & 28			GPS Coordinate: 25°10'17.95"N 92°25'02.643"E	
Sampling Duration:	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.
Date of Sampling	PM <sub>10</sub> (µg/m³)	PM <sub>2.5</sub> (µg/m³)	SO <sub>2</sub> (µg/m³)	NO <sub>2</sub> (µg/m³)
15-11-2025	35.51	17.32	14.74	10.52
26-11-2025	38.45	18.62	15.99	11.12
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; margin-top: 100px;"> <div>   <b>Analysed by</b> </div> <div>   <b>Checked By</b> </div> <div>   <b>Verified By</b> </div> </div>				


	<b>STAR CEMENT MEGHALAYA LIMITED</b> <b>Brishyrnot Limestone Mine - I (MLA 42.051 Ha)</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/2025-26/08			Month : November'25		
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.	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> )	
04-11-2025	39.54	18.69	18.54	10.97	
25-11-2025	40.97	20.47	19.23	11.28	
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> )	
<b>Remarks:</b> All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.					
 <b>Analysed by</b>		 <b>Checked By</b>		 <b>Verified By</b>	

 <b>STAR CEMENT</b> Solid Setting	<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	
<b>Ref: SCML/ENV/FUGITIVE/MONTHLY/2025-26/08</b>				
<b>Brishyrnot Limestone Mine - I (MLA 42.051 Ha)</b>				
<b>Month - November'25</b>				
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline	
		(in $\mu\text{g}/\text{m}^3$ )	Limit	(in $\mu\text{g}/\text{m}^3$ )
15.11.2025	Near Drilling Point	1261	5000	
15.11.2025	Near Lime Stone loading area	1212	5000	
<div style="display: flex; justify-content: space-around; align-items: flex-end; margin-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> (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/2025-26/08 <span style="float: right;">Date:-15.11.2025</span>						
<b>Brishyrnot Limestone Mine - I (MLA 42.051 Ha.)</b>						
<b>Month - November'25</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>					
	<b>A) Operator Cabin (Door Open)</b>					
	a) At Low engine RPM	56.1	67.0	61.6	75	
	b) At High engine RPM	64.2	69.6	66.9		
	<b>B) Operator Cabin(Door Close)</b>					
	a) At Low engine RPM	54.0	63.2	58.6		
	b) At High engine RPM	62.1	65.6	63.9		
	<b>C) Periphery of the Engine</b>					
	a) At 1 mtr. Distance( At low RPM)	58.8	63.9	61.4		
	b) At 1 mtr. Distance (At high RPM)	64.5	70.0	67.3		
	c) At 5 mtr. Distance (At low RPM)	57.7	62.2	60.0		
	d) At 5 mtr. Distance (At high RPM)	61.7	66.2	64.0		
	<b>D) Behind the Engine</b>					
	a) At 1 mtr. Distance( At low RPM)	56.9	64.9	60.9		
	b) At 1 mtr. Distance (At high RPM)	63.8	67.6	65.7		
c) At 5 mtr. Distance (At low RPM)	54.4	62.9	58.7			
d) At 5 mtr. Distance (At high RPM)	61.7	64.5	63.1			
2	<b>Rock Breaker</b>					
	<b>A) Operator Cabin</b>					
	a) At Low engine RPM	61.4	65.0	63.2	75	
	b) At High engine RPM	64.1	68.3	66.2		
	<b>B) Rock Breaker Point (At 5 mtr. Distance)</b>					
	a) Left Side	61.8	64.3	63.1		
	b) Right Side	62.1	63.9	63.0		
	c) Front Side	61.5	64.2	62.9		

  
 Analyzed By

  
 Checked By

  
 Verified By



	<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/2025-26/08 <span style="float: right;">Date:-15.11.2025</span>					
<b>Brishyrnot Limestone Mine - I (MLA 42.051 Ha.)</b>					
<b>Month - November'25</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	63.8	67.8	65.8	
	b) At 5 mtr. Distance	62.5	66.8	64.7	
	<b>B) Drilling Point (At 5 mtr. Distance)</b>				
	a) Left Side	63.5	68.4	66.0	
	b) Right Side	61.1	67.4	64.3	
	c) Front Side	62.8	67.8	65.3	
4	<b>Dozer</b>				75
	<b>A) Operator Cabin</b>				
	a) At Low engine RPM	56.6	63.7	60.2	
	b) At High engine RPM	65.9	70.5	68.2	
	<b>B) Periphery of the Engine</b>				
	a) At 1 mtr. Distance( At low RPM)	62.6	68.1	65.4	
	b) At 1 mtr. Distance (At high RPM)	66.4	71.1	68.8	
	c) At 5 mtr. Distance (At low RPM)	61.5	66.7	64.1	
	d) At 5 mtr. Distance (At high RPM)	63.6	69.4	66.5	
	<b>c) Behind the Engine</b>				
	a) At 1 mtr. Distance( At low RPM)	58.0	69.0	63.5	
	b) At 1 mtr. Distance (At high RPM)	62.4	70.9	66.7	
	c) At 5 mtr. Distance (At low RPM)	56.5	67.1	61.8	
	d) At 5 mtr. Distance (At high RPM)	60.8	69.2	65.0	
5	<b>Dumper</b>				
	<b>A) Empty Dumper</b>				
	a) Open Window	63.5	67.1	65.3	
	b) Close Window	56.6	62.8	59.7	
	<b>B) Loaded Dumper</b>				
	a) Open Window	61.6	68.3	65.0	
	b) Close Window	57.8	63.4	60.6	
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div>   <b>Analyzed by</b> </div> <div>   <b>Checked by</b> </div> <div>   <b>Verified By</b> </div> </div>					



# STAR CEMENT MEGHALAYA LIMITED

Lumshnong, Meghalaya

Brishyrnot Limestone Mine - I (MLA 42.051 Ha.)

WATER TESTING REPORT- November'25

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

Reference No.: SCML/ENV/WATER/MONTHLY/2025-26/08

## Surface Water Analysis Results

Date of sample collection: 01.11.2025

Date of Analysis: 01.11.2025 to 08.11.2025

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	-	7.9	7.6	7.5	7.6	7.4	7.3	7.6	7.8	7.6	7.5	7.8	7.8	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	18.2	22.6	20.8	26.9	24.5	20.4	19.6	20.5	18.6	20.6	19.3	20.2	250
5	Total Hardness as CaCO <sub>3</sub>	mg/L	120.4	141.5	120.1	132.5	101.5	98.4	92.5	97.2	116.0	93.5	119.6	92.7	300
6	Suspended Solids	mg/L	49.6	60.2	61.5	62.8	66.4	60.7	63.8	57.5	66.1	51.4	56.0	57.9	-
7	Total Dissolve Solids	mg/L	284.1	275.2	262.5	259.2	282.9	261.1	255.8	264.9	278.3	261.2	298.6	301.8	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	22.3	22.5	23.1	23.7	23.6	24.1	23.8	23.7	23.5	24.0	22.9	24.2	-
11	Conductivity	µS/cm	251.2	259.4	255.8	270.2	268.6	270.8	275.9	252.3	235.9	244.2	265.9	257.1	-
12	Flow	L / Min	985.6	1012.5	364.7	398.4	401.8	7596.4	2048.5	65842.2	254.9	589.4	693.5	459.2	-

Shailendra Kumar  
Analyzed by

Checked by

Verified by