

STAR CEMENT MEGHALAYA LIMITED

CIN : U63090ML2005PLC008011

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

Ref: SCML /EHS/LUMS/2025-26/76

Dated: 22/01/2026

To,

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

Subject : Submission of Environmental Monitoring Report for the month of December, 2025.

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, Noise & Surface water monitoring reports of **Brishyrnot Limestone Mine -I (MLA 42.051 Ha) of Star Cement Meghalaya Limited** for the month of **December, 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)
01-12-2025	971.6	88.2	16.8	0.0
02-12-2025	978.9	80.6	20.0	0.0
03-12-2025	974.2	77.6	19.8	0.0
04-12-2025	988.7	75.6	19.7	0.0
05-12-2025	988.3	87.2	16.1	0.0
06-12-2025	990.8	71.6	18.6	0.0
07-12-2025	986.4	73.8	18.7	0.0
08-12-2025	978.1	86.7	18.8	0.0
09-12-2025	975.3	85.8	14.7	0.0
10-12-2025	979.8	70.9	18.4	0.0
11-12-2025	984.7	83.4	13.1	0.0
12-12-2025	975.1	66.7	18.2	0.0
13-12-2025	974.5	69.6	19.2	0.0
14-12-2025	975.2	71.7	20.1	0.0
15-12-2025	975.5	85.2	16.1	0.0
16-12-2025	977.2	85.9	15.8	0.0
17-12-2025	976.9	87.7	15.7	0.0
18-12-2025	971.3	65.3	21.0	0.0
19-12-2025	978.1	86.7	14.9	0.0
20-12-2025	968.4	87.5	15.2	0.0
21-12-2025	978.9	73.1	19.2	0.0
22-12-2025	983.4	81.4	15.1	0.0
23-12-2025	987.1	83.8	15.0	0.0
24-12-2025	988.3	76.9	18.9	0.0
25-12-2025	987.2	80.9	18.7	0.0
26-12-2025	984.5	89.9	14.1	0.0
27-12-2025	970.7	87.3	14.6	0.0
28-12-2025	978.8	77.3	18.1	0.0
29-12-2025	987.7	85.1	16.8	0.0
30-12-2025	1001.3	80.5	17.3	0.0
31-12-2025	986.6	82.3	15.9	0.0
			Total	0.0


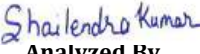


	STAR CEMENT MEGHALAYA LIMITED Brishyrrnot Limestone Mine - I (MLA 42.051 Ha) Lumshnong, Meghalaya		Reference No.	SCML/Env/F – 01
			Issue No.	1
			Date of Issue:	24.08.2013
			Revision No.	5
	AMBIENT AIR QUALITY MONITORING REPORT		Date of Rev.	01.12.2020
Reference No.: SCML/ENV/AAQM/MONTHLY/2025-26/09				
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 ₁₀ (µg/m³)	PM _{2.5} (µg/m³)	SO ₂ (µg/m³)	NO ₂ (µg/m³)
15-12-2025	43.44	20.83	14.72	9.51
29-12-2025	43.15	19.69	15.02	10.84
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 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
			Revision No.	5
	AMBIENT AIR QUALITY MONITORING REPORT		Date of Rev.	01.12.2020
Reference No.: SCML/ENV/AAQM/MONTHLY/2025-26/09			Month : December'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 ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
15-12-2025	39.57	18.47	11.98	10.01
29-12-2025	38.22	18.01	12.67	10.72
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.				
<div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 100px;"> <div>  Analysed by </div> <div>  Checked By </div> <div>  Verified By </div> </div>				

	STAR CEMENT MEGHALAYA LIMITED Brishynrot Limestone Mine - I (MLA 42.051 Ha) 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/2025-26/09			Month : December'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 ₁₀ (µg/m³)	PM _{2.5} (µg/m³)	SO ₂ (µg/m³)	NO ₂ (µg/m³)
15-12-2025	37.24	19.34	12.58	11.09
29-12-2025	38.05	18.85	13.03	11.46
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; padding-top: 50px;"> <div>  Analysed by </div> <div>  Checked By </div> <div>  Verified By </div> </div>				

	STAR CEMENT MEGHALAYA LIMITED 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
			Revision No.	5
	AMBIENT AIR QUALITY MONITORING REPORT		Date of Rev.	01.12.2020
Reference No.: SCML/ENV/AAQM/MONTHLY/2025-26/09			Month : December'25	
Location of Sampling: Star Public School		GPS Coordinate: 25°10'27.46"N 92°23.8'65"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)
02-12-2025	46.28	24.58	19.00	15.71
05-12-2025	48.83	26.47	19.06	13.87
09-12-2025	49.28	26.61	18.68	15.62
12-12-2025	46.16	24.59	18.43	14.24
16-12-2025	47.88	23.47	18.24	15.64
19-12-2025	47.52	26.31	17.09	13.14
23-12-2025	44.66	25.42	19.68	14.64
26-12-2025	42.62	23.97	18.40	13.45
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 Solid Setting	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/2025-26/09				
Brishyrnot Limestone Mine - I (MLA 42.051 Ha)				
Month - December'25				
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline	
		(in $\mu\text{g}/\text{m}^3$)	Limit (in $\mu\text{g}/\text{m}^3$)	
15.12.2025	Near Drilling Point	1288	5000	
15.12.2025	Near Lime Stone loading area	1236	5000	
<div style="display: flex; justify-content: space-around; align-items: flex-end; padding-top: 20px;"> <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
	NOISE LEVEL MONITORING REPORT		Revision No.		04
			Revision Date		01-01-2021
Ref: SCML(LM)/ENV/NOISE/MONTHLY/2025-26/09 Date:-15.12.2025					
Brishyrnot Limestone Mine - I (MLA 42.051 Ha.)					
Month - December'25					
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	57.0	67.5	62.3	
	b) At High engine RPM	65.1	70.1	67.6	
	B) Operator Cabin(Door Close)				
	a) At Low engine RPM	54.9	63.7	59.3	
	b) At High engine RPM	63.0	66.1	64.6	
	C) Periphery of the Engine				
	a) At 1 mtr. Distance(At low RPM)	60.0	63.7	61.9	
	b) At 1 mtr. Distance (At high RPM)	65.7	69.8	67.8	
	c) At 5 mtr. Distance (At low RPM)	58.9	62.0	60.5	
	d) At 5 mtr. Distance (At high RPM)	62.9	66.0	64.5	
	D) Behind the Engine				
	a) At 1 mtr. Distance(At low RPM)	58.1	65.9	62.0	
	b) At 1 mtr. Distance (At high RPM)	65.0	68.6	66.8	
c) At 5 mtr. Distance (At low RPM)	55.6	63.9	59.8		
d) At 5 mtr. Distance (At high RPM)	62.9	65.5	64.2		
2	Rock Breaker				75
	A) Operator Cabin				
	a) At Low engine RPM	62.6	66.0	64.3	
	b) At High engine RPM	65.3	69.3	67.3	
	B) Rock Breaker Point (At 5 mtr. Distance)				
	a) Left Side	63.0	65.3	64.2	
	b) Right Side	63.3	64.9	64.1	
	c) Front Side	62.7	65.2	64.0	
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <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
	NOISE LEVEL MONITORING REPORT		Revision No.		04
			Revision Date		01-01-2021
Ref: SCML(LM)/ENV/NOISE/MONTHLY/2025-26/09 Date:-15.12.2025					
Brishyrnot Limestone Mine - I (MLA 42.051 Ha.)					
Month - December'25					
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	64.7	68.3	66.5	
	b) At 5 mtr. Distance	63.4	67.3	65.4	
	B) Drilling Point (At 5 mtr. Distance)				
	a) Left Side	64.4	68.9	66.7	
	b) Right Side	62.0	67.9	65.0	
	c) Front Side	63.7	68.3	66.0	
4	Dozer				75
	A) Operator Cabin				
	a) At Low engine RPM	57.5	64.2	60.9	
	b) At High engine RPM	66.8	68.8	67.8	
	B) Periphery of the Engine				
	a) At 1 mtr. Distance(At low RPM)	63.5	68.6	66.1	
	b) At 1 mtr. Distance (At high RPM)	67.3	70.8	69.1	
	c) At 5 mtr. Distance (At low RPM)	62.4	67.2	64.8	
	d) At 5 mtr. Distance (At high RPM)	64.5	69.9	67.2	
	c) Behind the Engine				
	a) At 1 mtr. Distance(At low RPM)	58.9	69.5	64.2	
	b) At 1 mtr. Distance (At high RPM)	63.3	70.7	67.0	
	c) At 5 mtr. Distance (At low RPM)	57.4	67.6	62.5	
	d) At 5 mtr. Distance (At high RPM)	61.7	69.7	65.7	
5	Dumper				
	A) Empty Dumper				
	a) Open Window	64.4	67.6	66.0	
	b) Close Window	57.5	63.3	60.4	
	B) Loaded Dumper				
	a) Open Window	62.5	68.8	65.7	
	b) Close Window	58.7	63.9	61.3	
<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</div> <div>Solid Setting</div>			STAR CEMENT MEGHALAYA LIMITED										Reference No.		SCML/EHS/F-04				
													Issue No.		1				
			Lumshnong, Meghalaya										Date of Issue:		24.08.2013				
													Brishyrnot Limestone Mine - I (MLA 42.051 Ha.)						
WATER TESTING REPORT- December'25													Date of Rev.		01.06.2019				
Reference No.: SCML/ENV/WATER/MONTHLY/2025-26/09											Surface Water Analysis Results					Date of sample collection: 01.12.2025			
																Date of Analysis: 01.12.2025 to 09.12.2025			
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	7.3	7.4	7.7	7.6	7.4	7.5	7.5	7.4	7.6	7.6	7.5	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	17.9	21.4	21.9	24.7	22.1	22.6	20.4	21.8	20.3	21.5	20.1	19.9	250				
5	Total Hardness as CaCO ₃	mg/L	114.8	132.4	115.1	127.9	112.7	95.4	93.7	101.3	125.4	98.6	109.7	96.2	300				
6	Suspended Solids	mg/L	52.4	63.7	66.9	69.7	67.2	70.1	68.2	52.9	69.3	55.1	59.7	62.3	-				
7	Total Dissolve Solids	mg/L	289.4	278.1	265.3	264.5	275.4	267.7	271.0	253.5	262.9	273.1	248.9	288.3	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	27.1	26.9	26.5	27.8	29.4	27.2	26.9	27.1	26.8	27.4	27.0	26.1	-				
11	Conductivity	µS/cm	243.4	246.9	251.4	271.9	269.8	268.6	271.4	258.9	223.7	238.9	259.5	263.4	-				
12	Flow	L / Min	543.2	658.1	159.7	203.4	274.2	5248.3	1875.7	56984.9	105.0	101.3	421.4	357.6	-				
<div><div>Shailendra Kumar</div><div>Analyzed by</div></div> <div><div></div><div>Checked by</div></div> <div><div></div><div>Verified by</div></div>																			