

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 Brishyrrnot 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

Brishyrnot Limestone Mine - I (MLA 42.051 Ha)

Lumshnong, Meghalaya

AMBIENT AIR QUALITY MONITORING REPORT

Reference No.	SCML/Env/F – 01
Issue No.	1
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: 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/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
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/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.

Shailendra Kumar

Analysed by

John

Checked By

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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

Date of Rev.

01.12.2020

AMBIENT AIR QUALITY MONITORING REPORT

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.

Shailendra Kumar
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Checked By

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STAR CEMENT MEGHALAYA LIMITED
Brishyrrnot Limestone Mine - I (MLA 42.051 Ha)
Lumshnong, Meghalaya

AMBIENT AIR QUALITY MONITORING REPORT

Reference No.	SCML/Env/F - 01
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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/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
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/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.

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STAR CEMENT MEGHALAYA LIMITED
Brishyrrnot Limestone Mine - I (MLA 42.051 Ha)
Lumshnong, Meghalaya

AMBIENT AIR QUALITY MONITORING REPORT

Reference No.	SCML/Env/F-01
Issue No.	1
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: 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.

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STAR CEMENT MEGHALAYA LIMITED
Lumshnong, Meghalaya

FUGITIVE EMISSION REPORT

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

Ref: SCML/ENV/FUGITIVE/MONTHLY/2025-26/09

Brishyrrnot Limestone Mine - I (MLA 42.051 Ha)

Month - December'25

Date	Location	Fugitive Emission Results	
		As per CPCB/BIS Guideline	Limit
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)
15.12.2025	Near Drilling Point	1288	5000
15.12.2025	Near Lime Stone loading area	1236	5000

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STAR CEMENT MEGHALAYA LIMITED
(42.051 Ha.)
Lumshnong, Meghalaya
NOISE LEVEL MONITORING REPORT

Document No.	SCML/EHS/Env/F-03
Effective Date	01-05-2019
Revision No.	04
Revision Date	01-01-2021

Ref: SCML(LM)/ENV/NOISE/MONTHLY/2025-26/09

Date:-15.12.2025

Brishyrrnot 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	
	<i>Shailendra Kumar</i>	<i>John</i>	<i>John</i>	<i>John</i>	
	Analyzed By	Checked By		Verified By	



STAR CEMENT MEGHALAYA LIMITED
 (42.051 Ha.)
 Lumshnong, Meghalaya
NOISE LEVEL MONITORING REPORT

Document No.	SCML/EHS/Env/F-03
Effective Date	01-05-2019
Revision No.	04
Revision Date	01-01-2021

Ref: SCML(LM)/ENV/NOISE/MONTHLY/2025-26/09

Date:-15.12.2025

Brishyrrnot 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	
	Dozer				
4	A) Operator Cabin				75
	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	

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STAR CEMENT MEGHALAYA LIMITED

Lumshnong, Meghalaya

Brishyronot Limestone Mine - I (MLA 42.051 Ha.)

WATER TESTING REPORT- December'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/2025-26/09

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	Umtyngai 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									
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	-

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