

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-MLA/EHS/LUMS/2025-26/53

Dated: 09/10/2025

To,

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

Subject : Submission of Environmental Monitoring Report for the month of September, 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 **September, 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)
01.09.2025	949.6	90.7	32.8	0.0
02.09.2025	951.7	99.1	30.4	0.0
03.09.2025	950.4	98.2	29.7	0.0
04.09.2025	949.3	99.0	28.3	0.8
05.09.2025	951.1	98.1	29.5	0.0
06.09.2025	950.4	97.2	30.1	0.0
07.09.2025	949.1	98.4	27.4	0.0
08.09.2025	952.3	95.7	28.1	0.0
09.09.2025	950.5	98.4	28.4	4.4
10.09.2025	951.2	94.7	29.2	2.8
11.09.2025	949.2	96.9	27.3	0.0
12.09.2025	950.9	94.8	26.1	7.2
13.09.2025	952.7	96.3	24.2	60.0
14.09.2025	951.3	96.5	23.4	46.0
15.09.2025	948.9	89.7	24.3	60.0
16.09.2025	950.9	93.8	26.3	25.7
17.09.2025	952.8	89.6	25.9	0.0
18.09.2025	947.5	78.5	27.8	19.6
19.09.2025	948.9	90.4	26.2	0.0
20.09.2025	951.8	91.9	27.1	0.0
21.09.2025	952.2	93.8	27.9	0.0
22.09.2025	948.9	89.5	27.2	0.0
23.09.2025	952.5	94.9	26.9	0.0
24.09.2025	949.3	88.5	27.3	0.0
25.09.2025	950.2	94.9	28.2	0.0
26.09.2025	949.5	93.8	30.9	0.0
27.09.2025	951.7	93.5	30.2	0.0
28.09.2025	948.8	97.6	29.9	0.0
29.09.2025	951.7	97.1	30.1	0.0
30.09.2025	950.6	95.7	25.6	0.0
			Total	226.5

	STAR CEMENT MEGHALAYA LIMITED Brishyrrnot 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/2025-26/06			Month : September'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/m³)	PM _{2.5} (µg/m³)	SO ₂ (µg/m³)	NO ₂ (µg/m³)
17-09-2025	34.55	14.49	11.87	9.42
29-09-2025	36.76	15.93	12.06	9.75
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/2025-26/06			Month : September'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/m³)	PM _{2.5} (µg/m³)	SO ₂ (µg/m³)	NO ₂ (µg/m³)
17-09-2025	32.56	14.22	11.12	9.24
29-09-2025	34.17	14.87	12.03	10.11
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 Solid Setting	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/2025-26/06			Month : September'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)
17-09-2025	34.37	16.95	12.71	10.42
29-09-2025	35.51	17.23	13.45	11.33
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 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/2025-26/06				
Brishyrnot Limestone Mine - I (MLA 42.051 Ha)				
Month - September'25				
Date	Location	Fugitive Emission Results (in $\mu\text{g}/\text{m}^3$)	As per CPCB/BIS Guideline	
			Limit (in $\mu\text{g}/\text{m}^3$)	
17.09.2025	Near Lime Stone loading area	1151	5000	
 Analyzed By  Checked By  Verified By				

	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/2025-26/06 Date:-17.09.2025						
Brishyrnot Limestone Mine - I (MLA 42.051 Ha.)						
Month - September'25						
S. No.	Location	Measured Values dB(A) Day time (6:00am to 10:00pm)			Norms In dB(A)	
		Min.	Max.	Avg.		
1	Excavator					
	A) Operator Cabin (Door Open)					
	a) At Low engine RPM	56.0	67.3	61.7	75	
	b) At High engine RPM	64.1	69.9	67.0		
	B) Operator Cabin(Door Close)					
	a) At Low engine RPM	53.9	63.5	58.7		
	b) At High engine RPM	62.0	65.9	64.0		
	C) Periphery of the Engine					
	a) At 1 mtr. Distance(At low RPM)	58.8	64.1	61.5		
	b) At 1 mtr. Distance (At high RPM)	62.1	70.2	66.2		
	c) At 5 mtr. Distance (At low RPM)	57.7	62.4	60.1		
	d) At 5 mtr. Distance (At high RPM)	64.5	66.4	65.5		
	D) Behind the Engine					
	a) At 1 mtr. Distance(At low RPM)	56.9	65.1	61.0		
	b) At 1 mtr. Distance (At high RPM)	63.8	67.8	65.8		
c) At 5 mtr. Distance (At low RPM)	54.4	63.1	58.8			
d) At 5 mtr. Distance (At high RPM)	61.7	64.7	63.2			
2	Rock Breaker					
	A) Operator Cabin					
	a) At Low engine RPM	61.5	65.0	63.3	75	
	b) At High engine RPM	64.2	68.3	66.3		
	B) Rock Breaker Point (At 5 mtr. Distance)					
	a) Left Side	61.9	64.3	63.1		
	b) Right Side	62.2	63.9	63.1		
	c) Front Side	61.6	64.2	62.9		


 Analyzed By


 Checked By


 Verified By

	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/2025-26/06 Date:-17.09.2025					
Brishyrnot Limestone Mine - I (MLA 42.051 Ha.)					
Month - September'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	63.2	69.0	66.1	
	b) At 5 mtr. Distance	61.9	68.0	65.0	
	B) Drilling Point (At 5 mtr. Distance)				
	a) Left Side	62.9	69.6	66.3	
	b) Right Side	60.5	68.6	64.6	
	c) Front Side	62.2	69.0	65.6	
4	Dozer				75
	A) Operator Cabin				
	a) At Low engine RPM	56.0	64.9	60.5	
	b) At High engine RPM	65.2	71.7	68.5	
	B) Periphery of the Engine				
	a) At 1 mtr. Distance(At low RPM)	61.9	68.7	65.3	
	b) At 1 mtr. Distance (At high RPM)	65.7	73.1	69.4	
	c) At 5 mtr. Distance (At low RPM)	60.8	67.3	64.1	
	d) At 5 mtr. Distance (At high RPM)	62.9	70.0	66.5	
	c) Behind the Engine				
	a) At 1 mtr. Distance(At low RPM)	57.3	69.6	63.5	
	b) At 1 mtr. Distance (At high RPM)	61.7	73.0	67.4	
	c) At 5 mtr. Distance (At low RPM)	55.8	67.7	61.8	
	d) At 5 mtr. Distance (At high RPM)	60.1	70.0	65.1	
5	Dumper				
	A) Empty Dumper				
	a) Open Window	62.8	67.9	65.4	
	b) Close Window	55.9	63.6	59.8	
	B) Loaded Dumper				
	a) Open Window	60.9	69.1	65.0	
	b) Close Window	57.1	64.2	60.7	
 Analyzed by  Checked by  Verified By					

STAR CEMENT Solid Setting	STAR CEMENT MEGHALAYA LIMITED													Reference No.	SCML/EHS/F-04		
	Lumshnong, Meghalaya													Issue No.	1		
	Brishyrnot Limestone Mine - I (MLA 42.051 Ha.)													Date of Issue:	24.08.2013		
	WATER TESTING REPORT- September'25													Revision No.	3		
														Date of Rev.	01.06.2019		
Reference No.: SCML/ENV/WATER/MONTHLY/2025-26/06												Surface Water Analysis Results				Date of sample collection: 01.09.2025	
														Date of Analysis: 01.09.2025 to 07.09.2025			
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	7.8	7.5	7.8	7.6	7.3	7.7	7.6	7.8	7.9	7.5	7.6	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	17.4	18.9	19.1	18.8	20.1	19.8	19.2	18.7	20.0	19.2	18.4	19.9	250		
5	Total Hardness as CaCO ₃	mg/L	80.4	100.8	120.4	98.8	100.2	96.4	88.2	92.6	102.2	86.4	110.8	84.4	300		
6	Suspended Solids	mg/L	42.9	53.7	50.6	49.7	54.2	50.0	49.5	48.1	53.8	54.2	52.5	58.7	-		
7	Total Dissolve Solids	mg/L	304.5	289.7	279.8	298.9	300.4	289.7	279.8	266.5	282.8	278.4	302.9	321.8	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	27.3	26.7	25.5	26.4	27.0	27.1	26.9	27.2	26.4	25.9	26.2	26.4	-		
11	Conductivity	µS/cm	281.8	278.4	269.2	304.7	297.5	278.1	278.3	253.8	245.2	238.5	271.1	268.3	-		
12	Flow	L / Min	1814.4	2158.4	1003.7	1211.5	1298.4	9914.2	2248.9	93274.3	1000.2	1215.8	1123.4	1098.3	-		
Shailendra Kumar Analyzed by K. Gaurav Checked by J. J. J. Verified by																	