

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/2025-26/44

Dated: 02/09/2025

To,

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

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

Reference : MPCB/ONLINE/RCTO(R-I)/EJHD/2021/2023-2024/30, Dtd: Shillong, the 27th September, 2023.

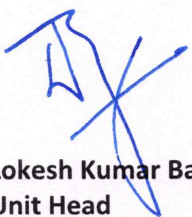
Dear Sir,

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 Deposit-I (MLA 42.051 Ha)** of **Star Cement Meghalaya Limited** for the month of **August, 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

Copy to: The Regional Director, Central Pollution Control Board (CPCB), North Eastern Zonal Office, 'TUMSIR', Lower Motinagar, Shillong, Meghalaya-790314.



STAR CEMENT MEGHALAYA LIMITED

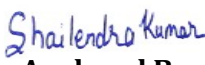
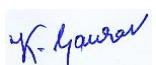
Lumshnong, Meghalaya

Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)
01.08.2025	952.1	95.5	25.9	20.2
02.08.2025	952.7	98.5	24.5	40.8
03.08.2025	954.0	99.9	23.9	18.2
04.08.2025	953.9	98.7	24.0	56.2
05.08.2025	952.7	99.2	23.4	35.2
06.08.2025	950.7	96.4	23.5	11.4
07.08.2025	950.9	99.3	23.6	19.0
08.08.2025	953.3	86.0	26.9	11.8
09.08.2025	953.9	93..9	24.2	43.2
10.08.2025	955.2	93.2	25.6	39.8
11.08.2025	955.1	95.7	25.2	13.7
12.08.2025	953.9	93.2	25.2	7.5
13.08.2025	953.0	95.6	25.0	42.4
14.08.2025	953.2	95.6	24.7	8.9
15.08.2025	954.3	87.2	29.1	3.2
16.08.2025	953.0	94.6	25.8	9.6
17.08.2025	954.0	81.8	29.2	5.2
18.08.2025	941.3	79.9	28.6	7.0
19.08.2025	945.1	93.7	28.1	3.6
20.08.2025	950.5	71.2	31.0	26.8
21.08.2025	951.4	94.6	25.1	16.8
22.08.2025	941.4	93.9	24.4	7.8
23.08.2025	950.8	93.4	25.7	7.0
24.08.2025	942.2	85.7	27.7	0.0
25.08.2025	947.6	93.1	25.7	0.0
26.08.2025	950.8	92.1	26.0	6.0
27.08.2025	952.1	94.9	25.1	15.4
28.08.2025	949.9	95.9	24.0	18.6
29.08.2025	948.6	95.6	24.8	12.0
30.08.2025	951.8	94.3	24.7	4.4
31.08.2025	952.5	94.9	27.6	0.0
			Total	511.7

	STAR CEMENT MEGHALAYA LIMITED Brishyrrnot Limestone Deposit - I (MLA 42.051) Lumshnong, Meghalaya		Reference No.	SCML/Env/F – 01
			Issue No.	1
			Date of Issue:	24.08.2013
	AMBIENT AIR QUALITY MONITORING REPORT		Revision No.	5
			Date of Rev.	01.12.2020
Reference No.: SCML/ENV/AAQM/MONTHLY/2025-26/05			Month : August'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)
07-08-2025	Rainfall	Rainfall	Rainfall	Rainfall
19-08-2025	35.87	14.98	12.65	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.				
 Analysed by  Checked By  Verified By				

	STAR CEMENT MEGHALAYA LIMITED Brishyrrnot Limestone Deposit - I (MLA 42.051) Lumshnong, Meghalaya		Reference No.	SCML/Env/F – 01
			Issue No.	1
			Date of Issue:	24.08.2013
	AMBIENT AIR QUALITY MONITORING REPORT		Revision No.	5
			Date of Rev.	01.12.2020
Reference No.: SCML/ENV/AAQM/MONTHLY/2025-26/05			Month : August'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)
07-08-2025	Rainfall	Rainfall	Rainfall	Rainfall
19-08-2025	33.98	14.87	12.54	10.87
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 MEGHALAYA LIMITED Brishyrrnot Limestone Deposit - I (MLA 42.051) 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/2025-26/05				Month : August'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.	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)	
07-08-2025	Rainfall	Rainfall	Rainfall	Rainfall	
19-08-2025	34.01	14.25	12.28	11.87	
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 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/2025-26/05				
Brishyrnot Limestone Deposit - I (MLA 42.051 Ha)				
Month - August'25				
Date	Location	Fugitive Emission Results (in $\mu\text{g}/\text{m}^3$)	As per CPCB/BIS Guideline	
			Limit (in $\mu\text{g}/\text{m}^3$)	
19.08.2025	Near Lime Stone loading area	1105	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	
			Revision No.		04	
	NOISE LEVEL MONITORING REPORT			Revision Date		01-01-2021
Ref: SCML(LM)/ENV/NOISE/MONTHLY/2025-26/05 Date:-19.08.2025						
Brishyrnot Limestone Deposit - I (MLA 42.051 Ha.)						
Month - August'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	58.3	67.7	63.0	75	
	b) At High engine RPM	66.4	70.3	68.4		
	B) Operator Cabin(Door Close)					
	a) At Low engine RPM	56.2	63.9	60.1		
	b) At High engine RPM	64.3	66.3	65.3		
	C) Periphery of the Engine					
	a) At 1 mtr. Distance(At low RPM)	61.3	66.1	63.7		
	b) At 1 mtr. Distance (At high RPM)	64.6	72.2	68.4		
	c) At 5 mtr. Distance (At low RPM)	60.2	64.4	62.3		
	d) At 5 mtr. Distance (At high RPM)	65.4	68.2	66.8		
	D) Behind the Engine					
	a) At 1 mtr. Distance(At low RPM)	59.6	67.7	63.7		
	b) At 1 mtr. Distance (At high RPM)	66.5	70.4	68.5		
c) At 5 mtr. Distance (At low RPM)	57.1	65.7	61.4			
d) At 5 mtr. Distance (At high RPM)	64.4	67.3	65.9			
2	Rock Breaker					
	A) Operator Cabin					
	a) At Low engine RPM	64.2	67.8	66.0	75	
	b) At High engine RPM	66.9	70.7	68.8		
	B) Rock Breaker Point (At 5 mtr. Distance)					
	a) Left Side	62.7	66.9	64.8		
	b) Right Side	64.9	66.3	65.6		
	c) Front Side	64.3	66.6	65.5		


 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/2025-26/05 Date:-19.08.2025					
Brishyrrnot Limestone Deposit - I (MLA 42.051 Ha.)					
Month - August'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	64.6	66.2	65.4	
	b) At 5 mtr. Distance	63.3	65.5	64.4	
	B) Drilling Point (At 5 mtr. Distance)				
	a) Left Side	64.3	67.3	65.8	
	b) Right Side	61.9	66.1	64.0	
	c) Front Side	63.6	66.5	65.1	
4	Dozer				75
	A) Operator Cabin				
	a) At Low engine RPM	57.4	62.4	59.9	
	b) At High engine RPM	66.7	69.2	68.0	
	B) Periphery of the Engine				
	a) At 1 mtr. Distance(At low RPM)	63.4	66.8	65.1	
	b) At 1 mtr. Distance (At high RPM)	67.2	71.2	69.2	
	c) At 5 mtr. Distance (At low RPM)	62.3	65.4	63.9	
	d) At 5 mtr. Distance (At high RPM)	64.4	68.1	66.3	
	c) Behind the Engine				
	a) At 1 mtr. Distance(At low RPM)	58.1	68.5	63.3	
	b) At 1 mtr. Distance (At high RPM)	62.5	71.9	67.2	
	c) At 5 mtr. Distance (At low RPM)	56.6	66.6	61.6	
	d) At 5 mtr. Distance (At high RPM)	60.9	68.7	64.8	
5	Dumper				
	A) Empty Dumper				
	a) Open Window	63.6	66.6	65.1	
	b) Close Window	56.7	62.3	59.5	
	B) Loaded Dumper				
	a) Open Window	61.7	67.8	64.8	
	b) Close Window	57.9	62.9	60.4	
 Analyzed by  Checked by  Verified By					



STAR CEMENT MEGHALAYA LIMITED

Lumshnong, Meghalaya

Brishyrnot Limestone Deposit - I (MLA 42.051 Ha.)

WATER TESTING REPORT- AUGUST'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/2025-26/05

Surface Water Analysis Results

Date of sample collection: 01.08.2025

Date of Analysis: 01.08.2025 to 09.08.2025

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	-	7.8	7.5	7.6	7.4	7.9	7.4	7.5	7.4	7.7	7.6	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	18.9	19.7	20.0	19.5	22.4	21.2	19.6	20.4	21.5	18.7	19.1	21.3	250
5	Total Hardness as CaCO ₃	mg/L	53.2	60.1	80.2	88.3	90.4	60.2	68.8	71.4	80.8	67.2	90.4	68.4	300
6	Suspended Solids	mg/L	40.5	50.4	48.7	45.9	51.7	46.3	47.4	45.9	50.6	58.7	50.6	52.6	-
7	Total Dissolve Solids	mg/L	285.6	259.7	250.1	260.8	274.8	268.7	252.0	205.9	232.1	247.6	264.8	284.4	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	24.8	24.3	24.2	24.9	25.2	25.8	24.8	24.6	25.3	24.9	24.7	25.9	-
11	Conductivity	µS/cm	298.7	268.3	258.2	299.7	281.4	269.4	288.9	234.8	202.3	199.8	234.4	257.9	-
12	Flow	L / Min	1881.4	2294.3	1036.2	1242.5	1344.1	9991.5	2303.5	93387.5	1021.4	1295.2	1161.3	1138.2	-

Shailendra Kumar

Analyzed by

K. Gaurav

Checked by

Shailendra Kumar

Verified by