

STAR CEMENT MEGHALAYA LIMITED

Regd. Office & Works : Lumshnong, P.O. Khaliehriat, Dist. East Jaintia Hills, Meghalaya-793 210

Ph: 03655-278215/16/18, Fax : 03655-278217, e-mail : lumshnong@cmcl.co.in

Ref: SCML-MLA/EHS/LUMS/2025-26/35

Dated: 12/08/2025

To,

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

Subject : Submission of Environmental Monitoring Report for the month of July, 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 Deposit-I (MLA 42.051 Ha) of Star Cement Meghalaya Limited** for the month of **July 2025**.

This is for your kind information, record and kindly acknowledge 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.



Corporate Office : Satyam Towers, 3 Alipore Road, 1st Floor, Unit No. 9B, Kolkata-700 027

Ph: +91 33 2448 4169 / 4170 / 4693, Fax: +91 33 2448 4168, e-mail: kolkata@cmcl.co.in





CIN : U63090ML2005PLC008011











STAR CEMENT MEGHALAYA LIMITED





Lumshnong, Meghalaya


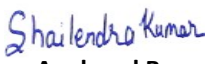


Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)
01-07-2025	952.1	99.4	24.3	14.2
02-07-2025	952.7	87.3	27.8	31.8
03-07-2025	954.0	98.9	24.5	8.4
04-07-2025	953.9	96.0	25.4	9.4
05-07-2025	952.7	100.0	23.8	4.1
06-07-2025	950.7	86.5	28.0	3.2
07-07-2025	950.9	99.9	23.9	2.2
08-07-2025	952.0	99.7	24.0	13.0
09-07-2025	954.3	99.9	23.1	20.0
10-07-2025	955.3	99.9	23.2	8.6
11-07-2025	942.6	86.0	26.0	0.0
12-07-2025	946.4	93.6	26.9	0.0
13-07-2025	951.8	92.5	25.7	0.0
14-07-2025	952.5	94.6	23.0	56.2
15-07-2025	942.5	96.3	24.3	27.6
16-07-2025	951.9	97.0	23.9	33.0
17-07-2025	943.3	95.7	26.3	0.0
18-07-2025	948.7	96.7	25.4	1.0
19-07-2025	950.0	95.3	26.2	0.0
20-07-2025	953.0	94.0	25.1	5.2
21-07-2025	952.7	96.6	24.2	1.1
22-07-2025	951.5	98.1	26.0	6.4
23-07-2025	950.4	93.0	24.9	0.0
24-07-2025	952.1	94.9	23.7	2.4
25-07-2025	949.6	93.7	25.8	0.0
26-07-2025	951.7	89.5	24.6	9.6
27-07-2025	952.7	96.5	23.8	20.2
28-07-2025	953.2	97.3	24.0	17.4
29-07-2025	954.7	98.4	23.2	26.4
30-07-2025	949.2	97.9	26.4	0.0
31-07-2025	953.9	96.8	25.1	11.4
			Total	332.8





	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/2025-26/04			Month : July'25	
Location of Sampling: Mines Entrance Haul Road		GPS Coordinate: 25°10'14.88"N 92°24'52.13"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)
11.07.2025	40.24	17.36	12.18	10.39
19.07.2025	36.75	16.11	11.59	10.97
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 Brishyrnot Limestone Deposit - I (MLA 42.051) 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/2025-26/04				
Location of Sampling: ROC Drilling Point		GPS Coordinate: 25°10'15.92"N 92°24'55.38"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)
11.07.2025	39.46	17.61	13.97	11.12
19.07.2025	38.14	16.97	13.04	11.36
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 Brishyrot 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/2025-26/04			Month : July'25	
Location of Sampling: Excavator Point		GPS Coordinate: 25°10'16.34"N 92°24'54.97"E 745 m		
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)
11.07.2025	37.94	15.48	13.49	11.75
19.07.2025	39.07	16.81	13.63	12.04
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 Brishyrnot 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/2025-26/04			Month : July'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.
Date of Sampling	PM ₁₀ (µg/m³)	PM _{2.5} (µg/m³)	SO ₂ (µg/m³)	NO ₂ (µg/m³)
11.07.2025	35.94	13.81	13.87	11.98
19.07.2025	32.21	12.85	12.34	10.67
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/2025-26/04				
Brishyrnot Limestone Deposit - I (MLA 42.051 Ha)				
Month - July'25				
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline	
			Limit	
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)	
11.07.2025	Near Lime Stone loading area	965	5000	
<div style="display: flex; justify-content: space-around; align-items: flex-end; margin-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	
			Revision No.		04	
	NOISE LEVEL MONITORING REPORT			Revision Date		01-01-2021
Ref: SCML(LM)/ENV/NOISE/MONTHLY/2025-26/04 Date:- 11.07.2025						
Brishyrrnot Limestone Deposit - I (MLA 42.051 Ha.)						
Month - July'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	56.6	68.2	62.4	75	
	b) At High engine RPM	64.7	70.8	67.8		
	B) Operator Cabin(Door Close)					
	a) At Low engine RPM	54.5	64.4	59.5		
	b) At High engine RPM	62.6	66.8	64.7		
	C) Periphery of the Engine					
	a) At 1 mtr. Distance(At low RPM)	59.6	64.4	62.0		
	b) At 1 mtr. Distance (At high RPM)	62.9	70.5	66.7		
	c) At 5 mtr. Distance (At low RPM)	58.5	62.7	60.6		
	d) At 5 mtr. Distance (At high RPM)	64.7	68.6	66.7		
	D) Behind the Engine					
	a) At 1 mtr. Distance(At low RPM)	57.1	67.3	62.2		
	b) At 1 mtr. Distance (At high RPM)	64.0	70.0	67.0		
c) At 5 mtr. Distance (At low RPM)	54.6	65.3	60.0			
d) At 5 mtr. Distance (At high RPM)	61.9	66.9	64.4			
2	Rock Breaker					
	A) Operator Cabin					
	a) At Low engine RPM	61.7	67.4	64.6	75	
	b) At High engine RPM	64.4	70.1	67.3		
	B) Rock Breaker Point (At 5 mtr. Distance)					
	a) Left Side	62.1	66.1	64.1		
	b) Right Side	62.4	65.0	63.7		
	c) Front Side	61.8	65.3	63.6		
<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
			Revision No.		04
	NOISE LEVEL MONITORING REPORT		Revision Date		01-01-2021
Ref: SCML(LM)/ENV/NOISE/MONTHLY/2025-26/04 Date:- 11.07.2025					
Brishyrrnot Limestone Deposit - I (MLA 42.051 Ha.)					
Month - July'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	63.8	67.0	65.4	
	b) At 5 mtr. Distance	62.5	66.0	64.3	
	B) Drilling Point (At 5 mtr. Distance)				
	a) Left Side	63.5	67.6	65.6	
	b) Right Side	61.1	66.6	63.9	
4	c) Front Side	62.8	67.0	64.9	75
	Dozer				
	A) Operator Cabin				
	a) At Low engine RPM	56.6	62.9	59.8	
	b) At High engine RPM	65.9	69.5	67.7	
	B) Periphery of the Engine				
	a) At 1 mtr. Distance(At low RPM)	62.6	67.1	64.9	
	b) At 1 mtr. Distance (At high RPM)	66.4	71.5	69.0	
	c) At 5 mtr. Distance (At low RPM)	61.5	65.7	63.6	
	d) At 5 mtr. Distance (At high RPM)	63.6	68.4	66.0	
	c) Behind the Engine				
	a) At 1 mtr. Distance(At low RPM)	59.6	68.0	63.8	
	b) At 1 mtr. Distance (At high RPM)	64.0	74.9	69.5	
	c) At 5 mtr. Distance (At low RPM)	58.1	69.6	63.9	
d) At 5 mtr. Distance (At high RPM)	62.4	71.7	67.1		
5	Dumper				
	A) Empty Dumper				
	a) Open Window	65.1	69.6	67.4	
	b) Close Window	58.2	65.3	61.8	
	B) Loaded Dumper				
	a) Open Window	63.2	70.8	67.0	
b) Close Window	59.4	65.9	62.7		
<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>					



STAR CEMENT MEGHALAYA LIMITED

Lumshnong, Meghalaya

Brishyrnot Limestone Deposit - I (MLA 42.051 Ha.)

WATER TESTING REPORT- JULY'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/2025-26/04

Surface Water Analysis Results

Date of sample collection: 01.07.2025

Date of Analysis: 01.07.2025 to 08.07.2025

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	-	7.3	7.2	7.4	7.3	7.8	7.5	7.6	7.5	7.8	7.7	7.4	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	20.5	22.1	23.8	23.9	26.4	24.8	23.4	22.9	24.5	19.4	21.9	22.2	250
5	Total Hardness as CaCO ₃	mg/L	45.9	49.8	72.1	80.6	82.4	42.8	43.9	52.7	60.2	55.7	62.4	56.6	300
6	Suspended Solids	mg/L	36.8	48.8	46.9	42.7	48.3	42.1	40.8	43.7	42.9	41.8	40.3	39.9	-
7	Total Dissolve Solids	mg/L	237.4	240.2	228.9	245.9	257.1	241.8	201.5	149.8	136.7	126.8	103.7	158.9	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	25.9	24.7	24.9	25.1	23.8	24.3	25.2	24.3	24.8	25.1	24.8	25.2	-
11	Conductivity	µS/cm	212.8	219.2	223.8	269.7	257.9	236.5	231.8	126.3	124.6	138.9	142.9	215.2	-
12	Flow	L / Min	1873.9	2289.6	1023.8	1213.3	1314.9	9983.9	2299.7	93362.3	1003.8	1289.6	1142.9	1125.9	-

Shailendra Kumar
Analyzed by

Y. K. Gaurav
Checked by

2025
Verified by