Ref: SCML-MLA/EHS/LUM/2025-26/02 Dated: 07/05/2025

To,

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

Subject

: Submission of Environmental Monitoring Report for the month of April, 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, Surface water monitoring reports of Brishyrnot Limestone Deposit-I (MLA 42.051 Ha) of Star Cement Meghalaya Limited for the month of April, 2025.

This is for your kind information, record and kindly acknowledge receipt of the same.

Thanking You,

Yours truly,

For STAR CEMENT MEGHALAYA LIMITED

Laxmaiah Munjala

Unit Head

Enclosed: a/a

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



Lumshnong, Meghalaya

Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)		
01-04-2025	959.5	80.5	25.9	8.0		
02-04-2025	961.0	85.3	24.9	4.0		
03-04-2025	961.6	85.4	24.7	0.0		
04-04-2025	960.6	86.3	24.7	0.0		
05-04-2025	959.2	75.2	25.3	0.0		
06-04-2025	960.2	78.4	23.4	5.0		
07-04-2025	961.9	71.0	24.1	2.0		
08-04-2025	964.2	73.8	25.4	0.0		
09-04-2025	963.8	89.0	23.0	0.0		
10-04-2025	957.7	71.7	26.0	0.0		
11-04-2025	956.7	79.6	24.5	13.2		
12-04-2025	958.1	83.9	23.8	6.2		
13-04-2025	959.7	76.8	24.3	0.0		
14-04-2025	959.8	67.2	26.8	0.0		
15-04-2025	960.4	69.4	26.1	0.0		
16-04-2025	960.2	83.7	23.4	27.0		
17-04-2025	959.3	83.5	23.3	0.0		
18-04-2025	958.7	76.5	24.5	0.0		
19-04-2025	957.8	76.8	25.5	20.0		
20-04-2025	957.9	84.9	25.0	0.0		
21-04-2025	959.7	90.3	24.1	18.0		
22-04-2025	959.0	96.3	24.1	77.7		
23-04-2025	956.4	96.8	23.2	70.7		
24-04-2025	956.7	94.3	23.9	77.2		
25-04-2025	957.7	98.0	22.5	58.6		
26-04-2025	958.4	90.6	25.1	8.2		
27-04-2025	960.5	83.8	24.8	0.0		
28-04-2025	960.0	95.5	20.4	59.0		
29-04-2025	959.7	87.7	21.0	0.0		
30-04-2025	959.8	75.3	25.0	0.0		
			Total	454.8		



STAR CEMENT MEGHALAYA LIMITED Brishyrnot Limestone Deposit - I (MLA 42.051)

Lumshnong, Meghalaya

SCML/Env/F - 01 Reference No. Issue No. Date of Issue: 24.08.2013 Revision No.

01.12.2020

AMBIENT AIR QUALITY MONITORING REPORT

Date of Rev.

Reference No.: SCML/ENV/A	AQM/MONTHLY/2025-26/01	Month : April			
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)		SO₂ (μg/m³)	NO₂ (μg/m³)	
19.04.2025	Rainfall	Rainfall	Rainfall	Rainfall	
NAAQS permissible limits for Rural, Industrial, 100 (µg/m³) Residential Area		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.

Shailendro Kumor Analysed by

Checked By



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

 Date of Rev.
 01.12.2020

Month : April

AMBIENT AIR QUALITY MONITORING REPORT

Date of Rev.

ocation of Sampling: ROC Driling Point GPS Coordinate: 25°10′15 92″N 92°24′55 38″F

Location of Sampling: ROC Driling 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/m³)	PM ₂₋₅ (μg/m³) SO ₂ (μg/m³)		NO₂ (μg/m³)	
19.04.2025	Rainfall	Rainfall	Rainfall	Rainfall	
NAAQS permissible limits for Rural, Industrial, 100 (µg/m³) Residential Area		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.

Shailendro Kumar Analysed by

Chacked F



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

01.12.2020

AMBIENT AIR QUALITY MONITORING REPORT

Date of Rev.

Reference No.: SCML/ENV/A	AQM/MONTHLY/2025-26/01	Month : April					
Location of Sampling: Excavator Point		GPS Coordinate: 25°10′16.34″N 92°24′54.97″E	PS 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)	SO₂ (µg/m³)	NO ₂ (μg/m³)			
19.04.2025	Rainfall	Rainfall	Rainfall	Rainfall			
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.

Shailendro Kumar

y. yourar Checked By Analysed by

STAR CEMENT MEGHALAYA LIMITED VPO - Lumshnong, District -East Jaintia Hills, Meghalaya - 793210



Brishyrnot Limestone Deposit - I (MLA 42.051) 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/2024-25/01 Month : April

Location of Sampling: Star P	ublic 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)	SO₂ (μg/m³)	NO₂ (μg/m³)	
19.04.2025	Rainfall	Rainfall	Rainfall	Rainfall	
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.

Shailendro Kumor

Analysed by

Y. Gaural
Checked By

STAR CEMENT MEGHALAYA LIMITED

VPO - Lumshnong, District -East Jaintia Hills, Meghalaya - 793210



Lumshnong, Meghalaya

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

FUGITIVE EMISSION REPORT

Ref: SCML/ENV/FUGITIVE/MONTHLY/2025-26/01

Brishyrnot Limestone Deposit - I (MLA 42.051)

Month - April

		Fugitive Emission Results	As per CPCB/BIS Guideline		
Date Location		Limit			
		(in µg/m³)	(in μg/m³)		
30.04.2025	Near Lime Stone loading area	1535	5000		

Shailendro Kumar Analyzed By

K. Gaural

Checked By



(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/2025-26/01

Date:-

30.04.2025

Brishyrnot Limestone Deposit - I (MLA 42.051 Ha.)

Month - April

S. No.	Location	Measured Va	Norms In dB(A)		
		Min.	Max.	Avg.	
	Excavator	•			
	A) Operator Cabin (Door Open)				
	a) At Low engine RPM	56.9	67.1	62.0	
	b) At High engine RPM	64.2	70.5	67.4	
	B) Operator Cabin(Door Close)				
	a) At Low engine RPM	54.2	65.1	59.7	
	b) At High engine RPM	61.9	66.5	64.2	
	C) Periphery of the Engine				
1	a) At 1 mtr. Distance(At low RPM)	59.6	64.1	61.9	75
	b) At 1 mtr. Distance (At high RPM)	63.9	69.1	66.5	
	c) At 5 mtr. Distance (At low RPM)	59.6	62.0	60.8	
	d) At 5 mtr. Distance (At high RPM)	62.4	65.8	64.1	
	D) Behind the Engine		•		
	a) At 1 mtr. Distance(At low RPM)	57.1	63.8	60.5	
	b) At 1 mtr. Distance (At high RPM)	62.8	67.5	65.2	
	c) At 5 mtr. Distance (At low RPM)	54.6	62.4	58.5	
	d) At 5 mtr. Distance (At high RPM)	62.2	67.2	64.7	
	Rock Breaker		•	·	
	A) Operator Cabin				
	a) At Low engine RPM	61.8	64.2	63.0	
2	b) At High engine RPM	64.8	67.5	66.2	75
2	B) Rock Breaker Point (At 5 mtr. Distance)		•		/5
	a) Left Side	62.7	65.4	64.1	
	b) Right Side	62.4	65.8	64.1	
	c) Front Side	61.8	66.9	64.4	

Shailendro Kumar Analyzed By y yoursel

Checked 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/2025-26/01

Date:- 30.04.2025

Brishyrnot Limestone Deposit - I (MLA 42.051 Ha.)

Month - April

S. No.	Location	Measured Val	Measured Values dB(A) Day time (6:00am to 10:00pm)				
		Min.	Max.	Avg.			
	Drill Machine		•	<u>'</u>			
	A) Compressor						
	a) At 1 mtr. Distance	64.7	68.4	66.6			
2	b) At 5 mtr. Distance	62.4	67.8	65.1	75		
3	B) Drilling Point (At 5 mtr. Distance)		<u> </u>		75		
	a) Left Side	64.1	67.4	65.8			
	b) Right Side	63.8	66.9	65.4			
	c) Front Side	64.8	68.5	66.7			
	Dozer		•				
	A) Operator Cabin						
	a) At Low engine RPM	58.4	64.3	61.4			
	b) At High engine RPM	66.1	68.4	67.3			
	B) Periphery of the Engine		•	<u> </u>			
	a) At 1 mtr. Distance(At low RPM)	64.8	69.1	67.0			
4	b) At 1 mtr. Distance (At high RPM)	66.9	71.5	69.2			
4	c) At 5 mtr. Distance (At low RPM)	61.0	65.9	63.5			
	d) At 5 mtr. Distance (At high RPM)	62.9	68.2	65.6			
	c) Behind the Engine		•	<u> </u>			
	a) At 1 mtr. Distance(At low RPM)	57.9	68.9	63.4	75		
	b) At 1 mtr. Distance (At high RPM)	64.7	71.4	68.1			
	c) At 5 mtr. Distance (At low RPM)	56.1	66.8	61.5			
	d) At 5 mtr. Distance (At high RPM)	61.8	68.4	65.1			
	Dumper		•				
	A) Empty Dumper						
	a) Open Window	63.5	66.1	64.8			
5	b) Close Window	58.2	64.8	61.5			
	B) Loaded Dumper		•				
	a) Open Window	64.2	67.9	66.1			
	b) Close Window	58.5	64.9	61.7			

Shailendro Kumar Analyzed by Y. Yawar Checked by



Lumshnong, Meghalaya

 Reference No.
 SCML/EHS/F-04

 Issue No.
 1

 Date of Issue:
 24.08.2013

 Revision No.
 3

 Date of Rev.
 01.06.2019

Brishyrnot Limestone Deposit - I (MLA 42.051 Ha.)

Reference No.: SCML/ENV/WATER/MONTHLY/2025-26/01

Surface Water Analysis Results

Date of sample collection: 01.04.2025

Date of Analysis: 01.04.2025 to 08.04.2025

														1.04.2025 to 08.04.2025
Parameter	Hoit	Umtyrng	gai Nallah	Umuth	a Nallah	Umso Nalah	Sashumua	Lunar	lunar lukha	Umbadoh	Tongseng	Lumshnong	Wahiajer	Standards norms
raiametei	Oint	Up Stream	Down Stream	Up Stream	Down Stream	Down Stream	Sesnympa	Lunai	Lukna	Seasonal Spring / Seasonal Nallah				as per IS 2296
рН	-	7.4	7.5	7.5	7.6	7.4	7.2	7.5	7.3	7.4	7.3	7.4	7.3	6.5 - 8.5
Colour	Hazen	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	10
Odour	-		Unobjectionable											
Chloride	mg/L	26.8	30.5	32.6	33.9	34.1	32.9	31.1	28.2	24.8	25.9	30.8	26.4	250
Total Hardness as CaCO₃	mg/L	59.8	64.6	78.4	75.2	80.8	89.2	45.9	62.1	61.8	54.2	56.8	58.4	300
Suspended Solids	mg/L	42.9	45.7	46.2	52.9	53.4	47.2	42.9	59.2	46.1	48.2	40.2	41.3	-
Total Dissolve Solids	mg/L	295.2	289.4	284.2	334.1	352.7	258.1	239.8	159.3	96.4	151.2	105.4	203.8	500
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
Oil & Grease	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
Temperature	°C	23.4	24.1	23.9	23.5	24.3	23.8	24.5	24.1	24.3	23.4	23.6	24.0	-
Conductivity	μS/cm	208.1	228.4	242.4	332.7	356.1	298.5	248.9	126.7	182.4	196.5	172.5	276.6	-
Flow	L / Min	1528.8	2026.5	667.9	821.8	1124.0	9623.6	2240.1	92021.4	812.6	565.2	922.5	889.2	-
	Colour Odour Chloride Total Hardness as CaCO ₃ Suspended Solids Total Dissolve Solids Biochemical Oxygen Demand (For 3 days at 27 °C) Oil & Grease Temperature Conductivity	pH - Colour Hazen Odour - March Chloride mg/L Total Hardness as CaCO3 mg/L Suspended Solids mg/L Total Dissolve Solids mg/L Biochemical Oxygen Demand (For 3 days at 27 °C) mg/L Oil & Grease mg/L Temperature °C Conductivity µS/cm	Parameter Unit Up Stream pH - 7.4 Colour Hazen Yellowish Odour - - Chloride mg/L 26.8 Total Hardness as CaCO3 mg/L 59.8 Suspended Solids mg/L 42.9 Total Dissolve Solids mg/L 295.2 Biochemical Oxygen Demand (For 3 days at 27 °C) mg/L ND Oil & Grease mg/L ND Temperature ° C 23.4 Conductivity μS/cm 208.1	pH - 7.4 7.5 Colour Hazen Yellowish Yellowish Odour - - Chloride mg/L 26.8 30.5 Total Hardness as CaCO ₃ mg/L 59.8 64.6 Suspended Solids mg/L 42.9 45.7 Total Dissolve Solids mg/L 295.2 289.4 Biochemical Oxygen Demand (For 3 days at 27 °C) mg/L ND ND Oil & Grease mg/L ND ND Temperature ° C 23.4 24.1 Conductivity μS/cm 208.1 228.4	Parameter Unit Up Stream Down Stream Up Stream pH - 7.4 7.5 7.5 Colour Hazen Yellowish Yellowish Yellowish Odour - . . . Chloride mg/L 26.8 30.5 32.6 Total Hardness as CaCO₃ mg/L 59.8 64.6 78.4 Suspended Solids mg/L 42.9 45.7 46.2 Total Dissolve Solids mg/L 295.2 289.4 284.2 Biochemical Oxygen Demand (For 3 days at 27 °C) mg/L ND ND ND Oil & Grease mg/L ND ND ND Temperature ° C 23.4 24.1 23.9 Conductivity μS/cm 208.1 228.4 242.4	Parameter Unit Up Stream Down Stream Up Stream Down Stream pH - 7.4 7.5 7.5 7.6 Colour Hazen Yellowish Yellowish Yellowish Yellowish Odour - - - - - - - Chloride mg/L 26.8 30.5 32.6 33.9 - Total Hardness as CaCO ₃ mg/L 59.8 64.6 78.4 75.2 Suspended Solids mg/L 42.9 45.7 46.2 52.9 Total Dissolve Solids mg/L 295.2 289.4 284.2 334.1 Biochemical Oxygen Demand (For 3 days at 27 °C) mg/L ND ND ND ND Oil & Grease mg/L ND ND ND ND ND Temperature ° C 23.4 24.1 23.9 23.5 Conductivity μ5/cm 208.1 228.4 242.4 332.7	Parameter Unit Up Stream Down Stream Up Stream Down Stream Down Stream pH - 7.4 7.5 7.5 7.6 7.4 Colour Hazen Yellowish Yellowish Yellowish Yellowish Yellowish Odour - - - - - - Chloride mg/L 26.8 30.5 32.6 33.9 34.1 Total Hardness as CaCO3 mg/L 59.8 64.6 78.4 75.2 80.8 Suspended Solids mg/L 42.9 45.7 46.2 52.9 53.4 Total Dissolve Solids mg/L 295.2 289.4 284.2 334.1 352.7 Biochemical Oxygen Demand (For 3 days at 27 °C) mg/L ND ND ND ND Oil & Grease mg/L ND ND ND ND ND Temperature * C 23.4 24.1 23.9 23.5 24.3 Conducti	Parameter Unit Up Stream Down Stream Page Down	Parameter Unit Up Stream Down Stream Page Pag	Parameter Unit Up Stream Down Strea	Parameter Unit Up Stream Down Stream Pellowish Tellowish Tellow	Parameter Unit Up Stream Down Strea	Parameter Unit Unit	Parameter Unit Unity-mgal Nallah Umsyngal Nallah Vellowish Vellow

Shailendro Kumor Analyzed by K- Gawar Checked by

Jung-