Ref: SCML-MLA/EHS/LUM/2024-25/16

Dated: 04/09/2024

To,

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

Subject

: Submission of Environmental Monitoring Report for the month of August, 2024.

Reference

: MPCB/ONLINE/RCTO(R-I)/EJHD/2021/2023-2024/30, Dtd: Shillong, the 27<sup>th</sup> 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 August, 2024.

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.

CIN: U63090ML2005PLC008011



Lumshnong, Meghalaya

	T							
Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)				
01-08-2024	719.0	72.4	19.2	11.8				
02-08-2024	716.4	71.2	18.5	13.2				
03-08-2024	716.1	72.0	19.4	0.0				
04-08-2024	722.3	70.3	19.2	0.0				
05-08-2024	719.6	70.1	19.1	0.0				
06-08-2024	725.4	71.4	18.5	12.0				
07-08-2024	720.0	70.2	20.0	27.0				
08-08-2024	722.7	70.0	19.0	16.9				
09-08-2024	724.3	70.2	19.0	10.6				
10-08-2024	722.0	71.3	19.4	22.3				
11-08-2024	720.0	74.5	19.5	37.0				
12-08-2024	719.5	73.6	21.2	55.0				
13-08-2024	719.9	77.8	19.3	6.2				
14-08-2024	722.7	74.9	19.4	0.0				
15-08-2024	722.9	75.1	20.3	5.4				
16-08-2024	722.3	72.3	19.9	0.0				
17-08-2024	720.7	78.6	17.1	6.2				
18-08-2024	719.1	77.8	15.7	13.0				
19-08-2024	716.7	70.8	17.4	8.0				
20-08-2024	722.3	63.8	17.3	38.6				
21-08-2024	722.8	66.8	18.8	20.0				
22-08-2024	720.5	71.6	19.1	5.0				
23-08-2024	722.7	71.1	19.2	10.0				
24-08-2024	724.3	69.0	20.4	24.8				
25-08-2024	722.7	71.7	19.2	0.0				
26-08-2024	717.5	68.4	18.4	0.0				
27-08-2024	724.2	71.3	18.9	0.0				
28-08-2024	722.0	72.7	19.4	0.0				
29-08-2024	720.8	74.8	16.1	0.0				
30-08-2024	720.8	74.8	16.1	0.0				
31-08-2024	722.7	71.7	19.2	7.8				
			Total	350.8				



#### STAR CEMENT MEGHALAYA LIMITED Brishyrnot Limestone Deposit - I (MLA 42.051) Lumshnong, Meghalaya

evision No.

 Reference No.
 SCML/Env/F - 01

 Issue No.
 1

 Date of Issue:
 24.08.2013

AMBIENT AIR QUALITY MONITORING REPORT

Date of Rev. 01.12.2020

Reference No.: SCML/ENV/A	AAQM/MONTHLY/2024-25/17	Month : August			
Location of Sampling: Mines Entrance Haul Road		GPS Coordinate: 25°10′14.88″N 92°24′52.13″E	S Coordinate: 25°10′14.88″N 92°24′52.13″E		
Sampling Duration: 24 Hrs.  Date of Sampling PM <sub>10</sub> (µg/m³)		24 Hrs.	24 Hrs.	24 Hrs. NO <sub>2</sub> (μg/m³)	
		PM <sub>2-s</sub> ( μg/m³)	SO₂ (μg/m³)		
28.08.2024	74.09	47.94	17.19	23.61	
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.

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Analysed by

y Gauran

Checked By

Werified By

 ${\sf STAR}\;{\sf CEMENT}\;{\sf MEGHALAYA}\;{\sf LIMITEDVPO}\;{\sf -Lumshnong},\;{\sf District}\;{\sf -Jaintia}\;{\sf Hills},\;{\sf Meghalaya}\;{\sf -793210}$ 



Brishyrnot Limestone Deposit - I (MLA 42.051) Lumshnong, Meghalaya

Reference No. SCML/Env/F - 01 24.08.2013 Date of Issue: 01.12.2020 Date of Rev.

AMBIENT AIR QUALITY MONITORING REPORT

Reference No.: SCML/ENV/AAQM/MONTHLY/2024-25/17

Reference No.: SCIVIL/ENV/A	AAQIVI/IVIONTHLT/2024-25/17	Worth: August				
Location of Sampling: ROC Driling Point		GPS Coordinate: 25°10′15.92″N 92°24′55.38″E	<b>S Coordinate:</b> 25°10′15.92″N 92°24′55.38″E			
Sampling Duration: 24 Hrs.		24 Hrs.	24 Hrs.	24 Hrs.		
Date of Sampling	PM <sub>10</sub> (μg/m³)	PM <sub>2-s</sub> ( μg/m³)	SO₂ (μg/m³)	NO <sub>2</sub> (μg/m³)		
28.08.2024 67.60		44.55	15.79	19.64		
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.

What Verified By



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	AAQM/MONTHLY/2024-25/17	Month : August				
Location of Sampling: Excavator Point		GPS Coordinate: 25°10′16.34″N 92°24′54.97″E	<b>PS Coordinate</b> : 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 <sub>10</sub> (μg/m³)		PM <sub>2-s</sub> ( μg/m³)	SO₂ (μg/m³)	NO₂ (μg/m³)		
28.08.2024	63.02	47.43	16.26	20.84		
NAAQS permissible limits for Rural, Industrial, 100 (μg/m³) Residential Area		60 (μg/m³)	80 (μg/m³)	80 (μg/m²)		

Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.

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Analysed by

y. Gaurar Checked By

Mrath



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/2024-25/17

Brishyrnot Limestone Deposit - I (MLA 42.051)

Month - August

		Fugitive Emission Results	As per CPCB/BIS Guideline		
Date	Location	-	Limit		
		(in µg/m³)	(in μg/m³)		
28.08.2024	Near Lime Stone loading area	1525	5000		

K. Gaural

CANE

Analyzed By Checked By



### **STAR CEMENT MEGHALAYA LIMITED** (42.051 Ha)

# Lumshnong, Meghalaya

	<u> </u>		<u>•</u>
NOISE LEVEL	MONITO	RING	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/2024-25/017

Date:-

28.08.2024

### Brishyrnot Limestone Deposit - I (MLA 42.051)

### **Month - August**

S. No.	Location	Measured Va	Measured Values dB(A) Day time (6:00am to 10:00pm)				
		Min.	Max.	Avg.			
	Excavator						
	A) Operator Cabin (Door Open)						
	a) At Low engine RPM	55.0	63.8	59.4			
	b) At High engine RPM	59.8	68.6	64.2			
	B) Operator Cabin(Door Close)						
	a) At Low engine RPM	57.1	63.1	60.1			
	b) At High engine RPM	59.8	67.4	63.6			
	C) Periphery of the Engine						
1	a) At 1 mtr. Distance( At low RPM)	57.3	68.0	62.7	75		
	b) At 1 mtr. Distance (At high RPM)	58.5	69.2	63.9			
	c) At 5 mtr. Distance (At low RPM)	52.9	66.1	59.5			
	d) At 5 mtr. Distance (At high RPM)	55.3	67.2	61.2			
	D) Behind the Engine						
	a) At 1 mtr. Distance( At low RPM)	58.9	64.6	61.8			
	b) At 1 mtr. Distance (At high RPM)	66.0	68.6	67.3			
	c) At 5 mtr. Distance (At low RPM)	57.1	60.1	58.6			
	d) At 5 mtr. Distance (At high RPM)	59.8	66.1	63.0			
	Rock Breaker						
	A) Operator Cabin						
	a) At Low engine RPM	61.1	61.8	61.5			
2	b) At High engine RPM	63.4	68.7	66.1	75		
۷	B) Rock Breaker Point (At 5 mtr. Distance)				75		
	a) Left Side	55.2	63.3	59.3			
	b) Right Side	51.9	65.0	58.5			
	c) Front Side	54.6	66.6	60.6			

CANE Measured By

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## **STAR CEMENT MEGHALAYA LIMITED** (42.051 Ha) Lumshnong, Meghalaya

**NOISE LEVEL MONITORING REPORT** 

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

Ref: SCML(LM)/ENV/NOISE/MONTHLY/2024-25/017

Date:- 28.08.2024

# Brishyrnot Limestone Deposit - I (MLA 42.051)

## Month - August

S. No.	Location	Measured Va	Measured Values dB(A) Day time (6:00am to 10:00pm)				
		Min.	Max.	Avg.			
	Drill Machine						
	A) Compressor						
	a) At 1 mtr. Distance	64.1	70.6	67.4			
3	b) At 5 mtr. Distance	60.0	69.2	64.6	75		
3	B) Drilling Point (At 5 mtr. Distance)				/5		
	a) Left Side	61.1	69.2	65.1			
	b) Right Side	60.1	70.1	65.1			
	c) Front Side	59.1	69.2	64.2			
	Dozer		•				
	A) Operator Cabin						
	a) At Low engine RPM	55.5	61.1	58.3			
	b) At High engine RPM	61.7	69.4	65.6			
	B) Periphery of the Engine		•				
	a) At 1 mtr. Distance( At low RPM)	57.4	65.2	61.3			
4	b) At 1 mtr. Distance (At high RPM)	61.4	68.6	65.0			
4	c) At 5 mtr. Distance (At low RPM)	51.6	57.9	54.8			
	d) At 5 mtr. Distance (At high RPM)	58.1	66.1	62.1			
	c) Behind the Engine		•				
	a) At 1 mtr. Distance( At low RPM)	53.7	60.1	56.9	75		
	b) At 1 mtr. Distance (At high RPM)	57.4	64.2	60.8			
	c) At 5 mtr. Distance (At low RPM)	51.3	56.2	53.8			
	d) At 5 mtr. Distance (At high RPM)	54.8	58.2	56.5			
	Dumper		•				
	A) Empty Dumper						
	a) Open Window	62.6	68.6	65.6			
5	b) Close Window	56.6	62.1	59.4			
	B) Loaded Dumper						
	a) Open Window	63.8	69.1	66.5			
	b) Close Window	59.1	63.4	61.3			

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#### **STAR CEMENT MEGHALAYA LIMITED**

Lumshnong, Meghalaya

	Reference No.	SCML/EHS/F-04
	Issue No.	1
	Date of Issue:	24.08.2013
	Revision No.	3
Is D	Date of Rev.	01.06.2019

Date of sample collection: 27.08.2024

Brishyrnot Limestone Deposit - I (MLA 42.051)

Reference No.: SCML/ENV/WATER/MONTHLY/2024-25/17

#### **Surface Water Analysis Results**

Date of Analysis: 27.08.2024 to 30.08.2024

Verified by

S.No.	Parameter	Unit	Umtyrng	ai Nallah	Umutha	a Nallah	Umso Nalah	- Seshympa Lunar	lunar	Lunar Lukha -	Umbadoh	Tongseng	Lumshnong	Wahiajer	Standards norms
3.140.	T drainete.	Cint	Up Stream	Down Stream	Up Stream		Luliai	Lunar Lukna —		Seasonal Spring	/ Seasonal Nallah		as per IS 2296		
1	рН	-	7.3	7.1	8.1	7.5	7.7	-	-	-	7.2	7.4	8.6	7.9	6.5 - 8.5
2	Colour	Hazen	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Yellowish	Colourless	Yellowish	Yellowish	Yellowish	Yellowish	10
3	Odour	-							Unobjectional	ble					
4	Chloride	mg/L	31.1	36.4	32.5	29.5	32.1	-	-	-	24.5	22.8	26.0	25.5	250
5	Total Hardness as CaCO₃	mg/L	55.0	66.0	78.8	71.5	73.5	-	-	-	64.1	49.5	47.2	41.7	300
6	Suspended Solids	mg/L	46.1	48.2	51.0	38.5	47.2	-	-	-	42.5	54.5	38.7	38.0	-
7	Total Dissolve Solids	mg/L	217.2	202.2	226.1	288.0	355.8	-	-	-	80.7	66.6	66.0	214.9	500
8	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	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	-
10	Temperature	°C	25.5	24.7	26.6	23.0	27.7	-	-	-	25.0	25.1	29.0	31.0	-
11	Conductivity	μS/cm	184.8	219.3	314.9	428.2	345.9	-	-,	-	156.3	134.2	107.1	455.7	-
12	Flow	L / Min	1302.2	1819.5	246.8	507.9	2347.8	-	-	-	1675.3	1089.5	1496.0	1402.0	
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