Ref: SCML-MLA/EHS/LUM/2024-25/18

Dated: 05/10/2024

To.

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

Subject

: Submission of Environmental Monitoring Report for the month of September 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 September, 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

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



## **STAR CEMENT LIMITED**

Lumshnong, Meghalaya

		<u> </u>					
Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)			
01-09-2024	717.6	72.8	18.2	0.0			
02-09-2024	715.0	71.6	17.5	0.0			
03-09-2024	714.7	72.4	18.4	12.2			
04-09-2024	720.9	70.7	18.2	0.0			
05-09-2024	718.2	70.5	18.1	0.0			
06-09-2024	724.0	71.8	17.5	0.0			
07-09-2024	718.6	70.6	20.0	0.0			
08-09-2024	721.3	70.4	19.0	0.0			
09-09-2024	722.9	70.6	18.0	0.0			
10-09-2024	720.6	71.7	18.4	0.0			
11-09-2024	718.6	74.9	18.5	0.0			
12-09-2024	718.1	74.0	20.2	0.0			
13-09-2024	718.5	78.2	18.3	0.0			
14-09-2024	721.3	75.3	18.4	0.0			
15-09-2024	721.5	75.5 19.3		0.0			
16-09-2024	720.9	72.7	18.9	0.0			
17-09-2024	719.3	79.0	16.1	12.0			
18-09-2024	717.7	78.2	14.7	0.0			
19-09-2024	715.3	71.2	16.4	0.0			
20-09-2024	720.9	64.2	16.3	0.0			
21-09-2024	721.4	67.2	17.8	0.0			
22-09-2024	719.1	72.0	18.1	0.0			
23-09-2024	721.3	71.5	18.2	0.0			
24-09-2024	722.9	69.4	19.4	2.2			
25-09-2024	721.3	72.1	18.2	9.2			
26-09-2024	716.1	68.8	17.4	4.0			
27-09-2024	722.8	71.7	17.9	2.6			
28-09-2024	720.6	73.1	18.4	25.2			
29-09-2024	719.4	75.2	15.1				
30-09-2024	719.4	75.2	15.1	26.4			
	1	1	Total	137.8			



#### 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

01.12.2020

AMBIENT AIR QUALITY MONITORING REPORT

Date of Rev.

Reference No.: SCML/ENV/A	AAQM/MONTHLY/2024-25/18	Month : September			
Location of Sampling: Mines Entrance Haul Road		GPS Coordinate: 25°10′14.88″N 92°24′52.13″E	6 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 <sub>10</sub> (μg/m³)		PM <sub>2-5</sub> ( μg/m³) SO <sub>2</sub> (μg/m³)		NO₂ (μg/m³)	
23.09.2024	70.99	46.68 18.20		22.34	
NAAQS permissible limits for Rural, Industrial, 100 (μg/m³) Residential Area		60 (μg/m³)	80 (μg/m²)	80 (μg/m³)	

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

Analysed by

K. Youral

Verified By

Checked By

STAR CEMENT MEGHALAYA LIMITEDVPO - Lumshnong, District - Jaintia Hills, Meghalaya - 793210



Reference No.: SCML/ENV/AAQM/MONTHLY/2024-25/18

#### **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

 Date of Rev.
 01.12.2020

Month : September

AMBIENT AIR QUALITY MONITORING REPORT

Location of Sampling: ROC Driling Point GPS Coordinate: 25°10′15.92″N 92°24′55.38″E

Location of Sampling. Noc E	Tilling Folint	Gr3 Coordinate: 25 10 15:52 N 52 24 55:56 E					
Sampling Duration: 24 Hrs.		24 Hrs. 24 Hrs.		24 Hrs.			
Date of Sampling PM <sub>10</sub> (µg/m³)		PM <sub>2-5</sub> ( μg/m³)	SO₂ (μg/m³)	NO₂ (μg/m³)			
23.09.2024	64.50	43.29	16.80	18.37			
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.

CANE

nalysed by

K- Gaurar



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/2024-25/18		Month : September			
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>2-5</sub> ( μg/m³)	SO₂ (μg/m³)	NO₂ (μg/m³)		
23.09.2024	59.92	46.17	17.27	19.57		
NAAQS permissible limits for Rural, Industrial, 100 (µg/m²) 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.

CANE Analysed by

y. yourar Checked By



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/2024-25/18

Brishyrnot Limestone Deposit - I (MLA 42.051)

**Month - September** 

		Fugitive Emission Results	As per CPCB/BIS Guideline		
Date	Location	0	Limit		
		(in µg/m³)	(in µg/m³)		
13.09.2024	Near Lime Stone loading area	1528	5000		

CANE

**Analyzed By** 

Y. Yawar 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/2024-25/018

Date:-

11.09.2024

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

## **Month - September**

S. No.	Location	Measured Va	Norms In dB(A)		
		Min.	Max.	Avg.	
	Excavator				
	A) Operator Cabin (Door Open)				
	a) At Low engine RPM	54.1	62.9	58.5	
	b) At High engine RPM	58.9	67.7	63.3	
	B) Operator Cabin(Door Close)				
	a) At Low engine RPM	56.6	62.6	59.6	
	b) At High engine RPM	59.3	66.9	63.1	
	C) Periphery of the Engine				
1	a) At 1 mtr. Distance( At low RPM)	56.4	67.1	61.8	75
	b) At 1 mtr. Distance (At high RPM)	57.6	68.3	63.0	
	c) At 5 mtr. Distance (At low RPM)	52.0	65.2	58.6	
	d) At 5 mtr. Distance (At high RPM)	54.4	66.3	60.3	
	D) Behind the Engine				
	a) At 1 mtr. Distance( At low RPM)	59.7	65.4	62.6	
	b) At 1 mtr. Distance (At high RPM)	66.8	69.4	68.1	
	c) At 5 mtr. Distance (At low RPM)	57.9	60.9	59.4	
	d) At 5 mtr. Distance (At high RPM)	60.6	66.9	63.8	
	Rock Breaker				
	A) Operator Cabin				
	a) At Low engine RPM	61.9	62.6	62.3	
2	b) At High engine RPM	64.2	69.5	66.9	75
۷	B) Rock Breaker Point (At 5 mtr. Distance)				,,
	a) Left Side	56.0	64.1	60.1	
	b) Right Side	52.7	65.8	59.3	
	c) Front Side	55.4	67.4	61.4	

Measured By

Y. Youran 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/2024-25/018

Date:-

11.09.2024

## Brishyrnot Limestone Deposit - I (MLA 42.051)

## **Month - September**

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			
2	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			

CANE Analyzed by

y. youral

Verified By

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

Date of sample collection: 16.09.2024

Brishyrnot Limestone Deposit - I (MLA 42.051)

Reference No.: SCML/ENV/WATER/MONTHLY/2024-25/18

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

Date of Analysis: 16.09.2024 to 19.09.2024

S.No.	Parameter	Unit	Umtyrng	Umtyrngai Nallah Umutha Nallah		Umtyrngai Nallah Umutha Nallah Umso Nalah		Umutha Nallah Umso Nalah		Seshympa	Lunar Lukha —	r Lukha —	Umbadoh	Tongseng	Lumshnong	Wahiajer	Standards norms
3.140.	Talamete.	<b>5</b>	Up Stream	Down Stream	Up Stream	Down Stream	Down Stream	Sestiyitipu	Lunui	Lukia	Seasonal Spring / Seasonal Nallah				as per IS 2296		
1	рН	-	7.4	7.5	7.8	7.6	7.3	-	-	-	8.1	7.8	7.5	8.1	6.5 - 8.5		
2	Colour	Hazen	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Yellowish	Colourless	Yellowish	Yellowish	Yellowish	Yellowish	10		
3	Odour	-		Unobjectionable													
4	Chloride	mg/L	33.2	35.1	30.2	36.4	33.5	-	-	-	26.5	23.4	27.3	28.4	250		
5	Total Hardness as CaCO₃	mg/L	52.1	60.4	75.2	70.3	71.4	-	-	-	65.2	51.3	52.3	45.1	300		
6	Suspended Solids	mg/L	36.2	38.4	48.6	42.5	52.1	-	-	-	43.5	49.8	40.1	43.5	-		
7	Total Dissolve Solids	mg/L	215.4	218.4	222.5	250.6	240.6	-	-	-	110.2	125.5	90.6	315.5	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	26.0	25.0	25.0	26.0	27.0	-	-	-	24.0	24.0	25.0	26.0	-		
11	Conductivity	μS/cm	183.2	204.6	257.6	384.0	340.0	-	-	-	158.3	150.8	120.5	410.2	-		
12	Flow	L / Min	1204.6	1524.0	341.6	469.5	1852.6	-	-	-	1424.0	985.6	1254.0	1136.0			

CANA Analyzed by

4. youral

Checked by