Ref: SCML-MLA/EHS/LUM/2024-25/12

Dated: 14/06/2024

To,

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

Subject

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

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 May, 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



STAR CEMENT LIMITED

Lumshnong, Meghalaya

30M 38MM		Eurisiniong, Wegnulaya					
Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)			
01-05-2024	716.2	73.4	20.2	45.8			
02-05-2024	718.5	73.5	20.4	97.0			
03-05-2024	721.3	73.6	20.6	0.0			
04-05-2024	720.4	73.7	20.8	6.2			
05-05-2024	720.6	73.8	21.0	27.4			
06-05-2024	720.8	73.9	21.2	16.2			
07-05-2024	721.0	74.0	21.4	0.0			
08-05-2024	721.2	72.5	21.6	0.0			
09-05-2024	721.4	72.1	21.8	0.0			
10-05-2024	721.6	74.6	22.0	0.0			
11-05-2024	721.8	75.1	22.2	8.2			
12-05-2024	722.0	76.2	21.5	0.0			
13-05-2024	722.2	74.5	22.1	0.0			
14-05-2024	722.4	74.3	22.6	0.0			
15-05-2024	722.6	71.2	21.3	0.0			
16-05-2024	718.2	70.7	20.2	0.0			
17-05-2024	716.1	70.1	20.4	0.0			
18-05-2024	714.0	69.6	19.8	6.2			
19-05-2024	716.5	69.0	19.7	0.0			
20-05-2024	717.6	70.2	19.5	0.0			
21-05-2024	718.7	70.5	19.3	0.0			
22-05-2024	719.8	70.8	19.1	0.0			
23-05-2024	720.9	71.1	18.9	0.0			
24-05-2024	722.0	71.4	18.7	0.0			
25-05-2024	723.1	71.7	21.3	0.0			
26-05-2024	724.2	72.0	22.4	12.6			
27-05-2024	725.3	72.3	23.5	55.0			
28-05-2024	726.4	72.6	24.6	148.2			
29-05-2024	723.6	72.9	25.7	155.0			
30-05-2024	721.4	73.2	24.3	198.3			
31-05-2024	719.2	73.5	22.9	43.8			
			Total	819.9			



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

Issue No. Date of Issue:

Reference No.

Date of Rev.

24.08.2013 evision No.

SCML/Env/F - 01

AMBIENT AIR QUALITY MONITORING REPORT

01.12.2020

Reference No.: SCML/ENV/A	AQM/MONTHLY/2024-25/14	Мау-24			
Location of Sampling: Mines	n of Sampling: Mines Entrance Haul Road GPS Coordinate: 25°10′14.88″N 92°24′52.13″				
Sampling Duration: 24 Hrs.		24 Hrs.	24 Hrs.	24 Hrs.	
Date of Sampling	PM ₁₀ (μg/m³)	PM _{2-s} (μg/m³)	SO₂ (μg/m³)	NO₂ (μg/m³)	
31.05.2024	58.41	34.16	12.45	23.07	
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 Analysed by

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What Verified By



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

Date of Rev.

Reference No.: SCML/ENV/A	AQM/MONTHLY/2024-25/14	May-24			
Location of Sampling: ROC [Oriling Point	GPS Coordinate: 25°10′15.92″N 92°24′55.38″E	5 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-s} (μg/m³)	SO₂ (μg/m³)	NO₂ (μg/m³)	
31.05.2024	60.15	35.64	8.49	24.67	
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

Wrath 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/2024-25/14		May	-24		
Location of Sampling: Excav	ator Point	GPS Coordinate: 25°10′16.34″N 92°24′54.97″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)		
31.05.2024	60.11	36.41	7.49	20.67		
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.

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Verified 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/2024-25/14

Brishyrnot Limestone Deposit - I (MLA 42.051)

Month - May

Date		Fugitive Emission Results	As per CPCB/BIS Guideline
	Location		Limit
		(in µg/m³)	(in μg/m³)
18.05.2024	Near Lime Stone loading area	1655	5000

Analyzed By

Checked By

Verified By



STAR CEMENT MEGHALAYA LIMITED (42.051 Ha)

Lumshnong, Meghalaya **NOISE LEVEL MONITORING REPORT**

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

Ref: SCML(LM)/ENV/NOISE/MONTHLY/2024-25/014

Date:-

30.05.2024

Brishyrnot Limestone Deposit - I (MLA 42.051)

Month - May

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	61.2	68.5	64.8			
	b) At High engine RPM	65.1	72.5	68.8			
	B) Operator Cabin(Door Close)						
	a) At Low engine RPM	59.4	60.4	59.9			
	b) At High engine RPM	61.2	63.5	62.4			
	C) Periphery of the Engine						
1	a) At 1 mtr. Distance(At low RPM)	65.4	67.4	66.4	75		
	b) At 1 mtr. Distance (At high RPM)	68.7	72.7	70.7			
	c) At 5 mtr. Distance (At low RPM)	65.1	68.4	66.8			
	d) At 5 mtr. Distance (At high RPM)	60.5	63.4	62.0			
	D) Behind the Engine						
	a) At 1 mtr. Distance(At low RPM)	59.8	67.9	63.9			
	b) At 1 mtr. Distance (At high RPM)	56.5	69.6	63.1			
	c) At 5 mtr. Distance (At low RPM)	59.2	71.2	65.2			
	d) At 5 mtr. Distance (At high RPM)	65.7	66.4	66.1			
	Rock Breaker						
	A) Operator Cabin						
	a) At Low engine RPM	61.7	67.7	64.7			
2	b) At High engine RPM	64.4	72.0	68.2	75		
۷	B) Rock Breaker Point (At 5 mtr. Distance)				,,		
	a) Left Side	61.9	72.6	67.3			
	b) Right Side	63.1	73.8	68.5			
	c) Front Side	57.5	70.7	64.1			

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Mrath Verified By

Measured By



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.** 01-01-2021 **Revision Date**

Ref: SCML(LM)/ENV/NOISE/MONTHLY/2024-25/014

Date:- 30.05.2024

Brishyrnot Limestone Deposit - I (MLA 42.051)

Month - May

S. No.	Location	Measured Va	lues dB(A) Day ti 10:00pm)	me (6:00am to	Norms In dB(A)
		Min.	Max.	Avg.	
	Drill Machine				
	A) Compressor				
	a) At 1 mtr. Distance				
3	b) At 5 mtr. Distance				75
3	B) Drilling Point (At 5 mtr. Distance)				75
	a) Left Side				
	b) Right Side				
	c) Front Side				
	Dozer				
	A) Operator Cabin				
	a) At Low engine RPM				
	b) At High engine RPM				
	B) Periphery of the Engine				
	a) At 1 mtr. Distance(At low RPM)				
4	b) At 1 mtr. Distance (At high RPM)				
4	c) At 5 mtr. Distance (At low RPM)				
	d) At 5 mtr. Distance (At high RPM)				
	c) Behind the Engine				
	a) At 1 mtr. Distance(At low RPM)				75
	b) At 1 mtr. Distance (At high RPM)				
	c) At 5 mtr. Distance (At low RPM)				
	d) At 5 mtr. Distance (At high RPM)				
	Dumper				
	A) Empty Dumper				
	a) Open Window				
5	b) Close Window				
	B) Loaded Dumper				
	a) Open Window				
	b) Close Window				

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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 colle	ction: 15.05.2024						

Brishyrnot Limestone Deposit - I (MLA 42.051)

Reference No.: SCML/ENV/WATER/MONTHLY/2024-25/14

Surface Water Analysis Results

Date of Analysis: 16.05.2024 to 20.05.2024

S.No.	Parameter	Unit	Umtyrng	ai Nallah	Umuth	a Nallah	Umso Nalah	Umbadoh	Tongseng	Lumshnong	Wahiajer	Standards norms
5.NO.	raiameter	Oille	Up Stream	Down Stream	Up Stream	Down Stream	Down Stream		Seasonal Spri	ng / Seasonal Nallah		as per IS 2296
1	рН	-	7.6	8.3	7.6	8.0	8.5	7.7	7.2	7.6	7.5	6.5 - 8.5
2	Colour	Hazen	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	10
3	Odour	÷			Unobjectionable						Unobjectionable	Unobjectionable
4	Chloride	mg/L	26.1	27.3	26.4	26.9	27.1	27.2	27.4	27.5	27.7	250
5	Total Hardness as CaCO₃	mg/L	52.3	53.1	53.9	54.7	55.5	65.1	80.2	82.3	45.2	300
6	Suspended Solids	mg/L	5.3	8.4	2.5	5.4	14.0	6.0	8.0	11.2	2.8	-
7	Total Dissolve Solids	mg/L	300.1	245.4	265.0	298.0	315.0	300.0	323.0	350.0	225.0	500
	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	25.0	25.0	25.0	25.0	25.0	25.9	25.9	25.9	25.0	-
11	Conductivity	μS/cm	395.0	310.0	440.0	480.0	505.0	380.0	460.0	490.0	350.0	-
12	Flow	L / Min	6504.5	16525.2	7132.4	6625.3	15690.4	-	=	520.1	-	-

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