

STAR CEMENT LIMITED

Ref: SCL-MLA/EHS/LUM/2024-25/33

Dated: 22/08/2024

To,

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

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

Reference : MPCB/CON-130-2016/2023-2024/37, Dated Shillong, the 31st August, 2023.

Dear Sir,

This is in reference to above cited subject, we are herewith submitting the monthly Environmental monitoring reports of Ambient Air Quality monitoring including meteorological data, Fugitive Emission & Surface water monitoring reports of **Wahpynkon Limestone Mine (13.58 Ha)** of Star Cement Limited for the month of **July, 2024.**

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

Thanking You,

Yours truly,
For **STAR CEMENT LIMITED**



Laxmaiah Munjala
Unit Head

Enclosed: a/a

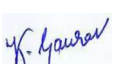
Copy To: The Regional Director, Central Pollution Control Board (CPCB), North Eastern Zonal Office, 'TUMSIR', Lower Motinagar, Shillong, Meghalaya-790314.

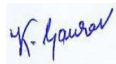


STAR CEMENT LIMITED

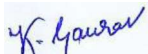
Lumshnong, Meghalaya

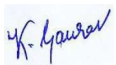
Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)
01-03-2024	720.7	71.6	18.8	0.0
02-03-2024	718.1	70.4	18.1	0.0
03-03-2024	717.8	71.2	19.0	0.0
04-03-2024	724.0	69.5	18.8	0.0
05-03-2024	721.3	69.3	18.7	0.0
06-03-2024	727.1	70.6	18.1	0.0
07-03-2024	721.7	69.4	20.0	0.0
08-03-2024	724.4	69.2	19.0	0.0
09-03-2024	726.0	69.4	18.6	0.0
10-03-2024	723.7	70.5	19.0	0.0
11-03-2024	721.7	73.7	19.1	0.0
12-03-2024	721.2	72.8	20.8	0.0
13-03-2024	721.6	77.0	18.9	0.0
14-03-2024	724.4	74.1	19.0	0.0
15-03-2024	724.6	74.3	19.9	4.9
16-03-2024	724.0	71.5	19.5	0.0
17-03-2024	722.4	77.8	16.7	10.0
18-03-2024	720.8	77.0	15.3	0.0
19-03-2024	718.4	70.0	17.0	0.0
20-03-2024	724.0	63.0	16.9	0.0
21-03-2024	724.5	66.0	18.4	2.0
22-03-2024	722.2	70.8	18.7	13.8
23-03-2024	724.4	70.3	18.8	4.2
24-03-2024	726.0	68.2	20.0	0.0
25-03-2024	724.4	70.9	18.8	8.7
26-03-2024	719.2	67.6	18.0	5.3
27-03-2024	725.9	70.5	18.5	3.6
28-03-2024	723.7	71.9	19.0	5.1
29-03-2024	722.5	74.0	15.7	0.0
30-03-2024	724.4	70.9	18.8	0.0
31-03-2024	719.2	67.6	18.0	27.6
			Total	85.2

	STAR CEMENT LIMITED WahPynKon Limestone Mine (MLA 13.58 Ha) Lumshnong, Meghalaya		Reference No.	SCL/Env/F – 01
			Issue No.	1
	AMBIENT AIR QUALITY MONITORING REPORT		Date of Issue:	24.08.2013
			Revision No.	5
Reference No.: SCL/ENV/AAQM/MONTHLY/2024-25/16			Date of Rev.	01.12.2020
			Month : July	
Location of Sampling: Mines Entrance Haul Road		GPS Coordinate: N 25°9' 46.990" E 92°23' 24.344"		
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)
23.07.2024	62.85	40.11	16.71	19.32
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.				
 Analyzed By  Checked By  Verified By				

	STAR CEMENT LIMITED WahPaykon, Limestone Mine (MLA 13.58 Ha) Lumshnong, Meghalaya		Reference No.	SCL/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.: SCL/ENV/AAQM/MONTHLY/2024-25/16			Month : July	
Location of Sampling: Near Rocker Breaker Point		GPS Coordinate: N 25°9' 45.816"E 92°23' 19.836"		
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)
23.07.2024	62.32	36.39	18.01	17.50
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.				
 Analyzed By  Checked By  Verified By				

	STAR CEMENT LIMITED WahPaykon, Limestone Mine (MLA 13.58 Ha) Lumshnong, Meghalaya		Reference No.	SCL/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.: SCL/ENV/AAQM/MONTHLY/2024-25/16			Month : July	
Location of Sampling: NE Directions of Mine		GPS Coordinate: N 25°9' 52.581" E 92°23' 25.872"		
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)
23.07.2024	58.80	38.66	14.00	19.58
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.				
 Analyzed By  Checked By  Verified By				

	STAR CEMENT LIMITED Lumshnong, Meghalaya		Reference No.	SCL/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: SCL/ENV/FUGITIVE/MONTHLY/2024-25/16				
WahPynkon Limestone Mine (MLA 13.58 Ha.)				
Month - July				
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline	
		(in $\mu\text{g}/\text{m}^3$)	Limit	(in $\mu\text{g}/\text{m}^3$)
26.07.2024	Near Drilling Point	1609	5000	
26.07.2024	Near Limestone loading area	1732	5000	
 Analyzed By  Checked By  Verified By				

	STAR CEMENT LIMITED (13.58 Ha) Lumshnong, Meghalaya		Document No.		SCL/EHS/Env/F-03
			Effective Date		01-05-2019
			Revision No.		04
	NOISE LEVEL MONITORING REPORT		Revision Date		01-01-2021
Ref: SCL/ENV/NOISE/MONTHLY/2024-25/016 Date:- 26.07.2024					
WahPynkon Limestone Mine (MLA 13.58 Ha.)					
Month - July					
S. No.	Location	Measured Values dB(A) Day time (6:00am to 10:00pm)			Norms In dB(A)
		Min.	Max.	Avg.	
1	Rock Breaker (10 mtr. Distance)	62.0	68.0	65.0	75
2	Dozer (10 mtr. Distance)	63.2	66.6	64.9	
3	Dumper (10 mtr. Distance)	66.5	67.9	67.2	
4	Excavator	64.3	65.7	65.0	
5	Village				55
	A) Lumshnong	46.1	49.9	48.0	
	B) Thangskai	46.0	50.8	48.4	
 Analyzed by  Checked By  Verified By					

STAR CEMENT Solid Setting	STAR CEMENT LIMITED												Reference No.	SCL/EHS/F-04			
	Lumshnong, Meghalaya												Issue No.	1			
	WahPynKon Limstone Mine (MLA 13.58 Ha)												Date of Issue:	24.08.2013			
													Revision No.	3			
													Date of Rev.	01.06.2019			
Reference No.: SCL/ENV/WATER/MONTHLY/2024-25/16																Date of sample collection: 26.07.2024	
Surface Water Analysis Results																Date of Analysis: 26.07.2024 to 30.07.2024	
S.No.	Parameter	Unit	13.58 Ha	Umtyrngai Nallah		Umutha Nallah		Umso Nalah	Seshympa	Lunar	Lukha	Umbadoh	Tongseng	Lumshnong	Wahiajer	Standards norms as per IS 2296	
			Seasonal Nallah	Up Stream	Down Stream	Up Stream	Down Stream	Down Stream				Seasonal Spring / Seasonal Nallah					
1	pH	-	7.4	7.6	7.7	7.2	7.3	7.8	-	-	-	7.6	7.7	7.8	7.7	6.5 - 8.5	
2	Colour	Hazen	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Yellowish	Colourless	Yellowish	Yellowish	Yellowish	Yellowish	10	
3	Odour	-	Unobjectionable														
4	Chloride	mg/L	32.6	28.4	32.2	33.4	30.4	33.5	-	-	-	23.5	24.8	26.4	25.9	250	
5	Total Hardness as CaCO ₃	mg/L	64.4	56.5	65.4	77.7	76.5	72.1	-	-	-	61.5	46.5	47.6	42.1	300	
6	Suspended Solids	mg/L	46.5	39.5	58.8	44.0	51.3	62.4	-	-	-	47.6	38.0	35.7	31.3	-	
7	Total Dissolve Solids	mg/L	221.0	201.3	214.0	226.5	387.4	356.5	-	-	-	85.2	70.2	66.4	215.3	500	
8	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	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	-	
10	Temperature	° C	25.0	27.0	27.0	27.0	27.0	27.0	-	-	-	27.0	27.0	27.0	27.0	-	
11	Conductivity	µS/cm	189.7	180.5	210.5	315.3	440.0	351.2	-	-	-	148.6	124.6	110.3	452.4	-	
12	Flow	L / Min	380.5	1434.8	1586.1	267.2	481.8	2764.0	-	-	-	1770.5	1202.5	1577.2	1379.2		
Star CEMENT Solid Setting Analyzed by Y. Gaurav Checked by Omaly Verified by																	