

STAR CEMENT LIMITED

Ref: SCL/EHS/LUM/2023-24/24

Dated: 26/08/2023

To,

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

Subject : Submission of Environmental Monitoring Report for the month of July, 2023.

Reference : Ref. No.: MPCB/CTE-(R-I)/EJHD/2022-2023/8, Dated. Shillong, the 26th August, 2022.

Dear Sir,

This is in reference to above cited subject, we are hereby submitting the monthly Environmental monitoring reports of Ambient Air Quality including meteorological data, Fugitive Emission, Noise Level, Surface water monitoring reports of M/s Star Cement Limited Line – II for the month of **July, 2023**.

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

Thanking you,

Yours truly,

For **Star Cement Limited Line - II**



Laxmaiah Munjala
Unit Head

Enclosed: a/a

- Copy To:** 1) The Deputy Director General of Forest (Central), Ministry of Environment Forest & Climate Change, Govt. of India, Regional Office, Shillong, Meghalaya-793021.
2) The Regional Director, Central Pollution Control Board (CPCB), North Eastern Zonal Office, 'TUMSIR', Lower Motinagar, Shillong, Meghalaya-790314.



STAR CEMENT LIMITED Line II

Lumshnong, Meghalaya

Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)
01-07-2023	761.5	88.0	28.4	97.2
02-07-2023	763.0	70.0	27.6	103.6
03-07-2023	763.8	79.0	28.6	106.0
04-07-2023	760.6	81.0	27.0	0.0
05-07-2023	763.9	92.4	29.8	22.6
06-07-2023	761.8	90.0	29.0	12.6
07-07-2023	762.4	82.0	31.7	34.0
08-07-2023	764.8	87.0	30.8	21.8
09-07-2023	763.0	83.4	30.0	22.8
10-07-2023	766.0	76.0	25.0	228.8
11-07-2023	760.0	78.0	32.8	68.0
12-07-2023	762.0	87.0	27.9	43.0
13-07-2023	761.2	87.4	31.7	71.4
14-07-2023	762.4	88.0	32.0	23.2
15-07-2023	764.1	80.0	30.0	8.4
16-07-2023	764.9	83.4	31.5	0.0
17-07-2023	762.5	79.0	26.5	70.4
18-07-2023	763.4	78.6	28.9	0.0
19-07-2023	761.8	80.0	28.0	24.6
20-07-2023	763.7	82.4	29.7	23.4
21-07-2023	760.2	82.6	27.9	19.6
22-07-2023	762.8	86.0	28.6	0.0
23-07-2023	763.8	85.7	30.4	0.0
24-07-2023	761.7	89.2	30.1	0.0
25-07-2023	761.4	89.0	27.9	4.2
26-07-2023	762.0	87.0	31.7	17.5
27-07-2023	763.8	85.7	27.9	15.4
28-07-2023	761.7	86.0	28.2	26.8
29-07-2023	760.0	87.0	28.0	0.0
30-07-2023	761.4	85.7	29.0	7.4
31-07-2023	762.7	70.0	30.4	0.9
			Total	1073.6

	STAR CEMENT LIMITED LINE II 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/2023-24/04			Month: July	
Location of Sampling: Project South Direction		GPS Coordinate: 25°10'26"N 92°23'22"E 931 m		
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)
04.07.2023	40.10	27.75	11.41	16.32
06.07.2023	45.83	28.39	10.16	17.58
08.07.2023	42.13	26.40	12.48	15.28
14.07.2023	40.72	28.58	9.41	15.52
18.07.2023	43.91	27.60	11.54	17.91
20.07.2023	46.04	25.68	10.63	13.58
22.07.2023	46.17	29.59	10.80	14.91
25.07.2023	45.10	23.37	10.03	16.23
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.				
 Analysed by	 Checked by	 Verified By		

	STAR CEMENT LIMITED LINE II 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/2023-24/04			Month: July	
Location of Sampling: Project North Direction		GPS Coordinate: 25°10'25"N 92°23'20"E 935 m		
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)
04.07.2023	40.02	26.21	12.07	17.04
06.07.2023	45.75	26.85	10.82	18.30
08.07.2023	42.05	24.86	13.14	16.00
14.07.2023	40.64	27.04	10.07	16.24
18.07.2023	43.83	26.06	12.20	18.63
20.07.2023	45.96	24.14	11.29	14.30
22.07.2023	46.09	28.05	11.46	15.63
25.07.2023	45.02	21.83	10.69	16.95
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.				
 Analysed by  Checked by  Verified By				

	STAR CEMENT LIMITED LINE II 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/2023-24/04			Month: July	
Location of Sampling: Approach Road		GPS Coordinate: 25°10'30"N 92°23'21"E 928 m		
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)
04.07.2023	60.29	33.41	14.20	16.78
06.07.2023	54.94	34.21	15.22	17.81
08.07.2023	57.17	34.87	15.68	15.79
14.07.2023	61.16	33.20	15.13	14.72
18.07.2023	58.49	31.03	13.65	13.97
20.07.2023	59.99	33.40	11.97	14.83
22.07.2023	61.74	38.85	14.13	14.81
25.07.2023	57.85	32.07	13.21	12.72
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.				
 Analysed by		 Checked by		 Verified By

	STAR CEMENT LIMITED LINE II Lumshnong, Meghalaya	Document No.	SCL/EHS/Env/F-04
		Date of Issued	01-05-2019
		Revision No.	2
	FUGITIVE EMISSION MONITORING REPORT	Revision Date	01-01-2021
Ref: SCL(II)/ENV/FUGITIVE/MONTHLY/2023-24/04			
Month - July			
Date	Location	Fugitive Emission Results (in $\mu\text{g}/\text{m}^3$)	As per CPCB/BIS Guideline
			Limit (in $\mu\text{g}/\text{m}^3$)
04.07.2023	Coal Storage Section	1058	2000
04.07.2023	Limestone Storage Section	1134	5000
 Analyzed By  Checked by  Verified By			

	STAR CEMENT LIMITED LINE II Lumshnong, Meghalaya											Reference No.		SCL/EHS/F-04			
												Issue No.		1			
												Date of Issue:		24.08.2013			
	WATER TESTING REPORT											Revision No.		3			
Date of Rev.												01.06.2019					
Reference No.: SCL(II)/ENV/WATER/MONTHLY/2023-24/04											Date of sample collection: 11.07.2023					Date of Analysis: 11.07.2023 to 14.07.2023	
Surface Water Analysis Results																	
S.No.	Parameter	Unit	Umtyrngai Nallah		Umutha Nallah		Umso Nalah	Lunar	Lukha	Seshympa	Umbadoh	Tongseng	Lumshnong	Wahiajer	Standards norms as per IS 2296		
			Up Stream	Down Stream	Up Stream	Down Stream	Down Stream				Seasonal Spring / Seasonal Nallah						
1	pH	-	7.6	7.8	7.4	7.9	8.5	6.9	6.5	7.6	7.9	7.2	6.9	7.8	6.5 - 8.5		
2	Colour	Hazen	Colourless	Colourless	Colourless	Colourless	Colourless	Slightly Yellowish	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	10		
3	Odour	-	Unobjectionable												Unobjectionable		
4	Chloride	mg/L	24.8	26.6	21.3	27.5	44.3	45.0	15.0	21.5	37.2	23.0	24.8	23.0	250		
5	Total Hardness as CaCO ₃	mg/L	42.0	70.0	76.0	80.0	80.2	122.0	21.0	42.0	18.0	14.4	20.0	42.0	300		
6	Suspended Solids	mg/L	8.6	34.8	12.7	40.7	50.8	60.7	5.0	9.7	7.9	5.9	8.7	10.0	-		
7	Total Dissolve Solids	mg/L	270.4	281.0	234.0	289.0	310.0	209.0	57.0	98.0	175.0	19.0	32.0	179.0	500		
8	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		
9	Oil & Grease	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-		
10	Temperature	° C	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	-		
11	Conductivity	µS/cm	432.6	449.6	374.4	462.4	496.0	334.0	91.2	156.0	280.0	30.4	51.2	286.4	-		
12	Flow	L / Min	283555.2	863033.3	437811.3	728450.0	844050.0	5319300.0	5016020.0	4297600.0	-	-	3779.3	-	-		
   Analyzed by Checked by Verified by																	