

STAR CEMENT LIMITED

Ref: SCL/EHS/LUM/2023-24/03

Dated: 20/04/2023

To,

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

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

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

Dear Sir,

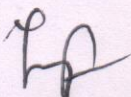
This is in reference to above cited subject, we are hereby submitting the monthly Environmental monitoring reports of Ambient Air Quality including meteorological data, Fugitive Emission, Noise Level, Surface water monitoring reports of M/s Star Cement Limited Line – II for the month of **March, 2023**.

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

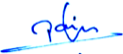
Lumshnong, Meghalaya

Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)
01-03-2023	761.2	65.4	20.5	0
02-03-2023	761	61.3	21.6	0
03-03-2023	760.4	69.0	19.4	0
04-03-2023	760.9	62.1	20.7	0
05-03-2023	762.4	51.3	23.5	0
06-03-2023	763.9	61.4	25.7	0
07-03-2023	763.5	56.1	26.4	0
08-03-2023	763	64.2	24.8	0
09-03-2023	763.2	54.3	21.6	0
10-03-2023	763.2	69.2	22.8	0
11-03-2023	762.5	61.4	23.6	0
12-03-2023	762.2	54.6	26.0	0
13-03-2023	762	55.5	26.0	0
14-03-2023	761	51.2	26.0	0
15-03-2023	760.9	81.6	19.3	6.4
16-03-2023	760.9	85.7	16.8	15
17-03-2023	761	84.9	17.6	8.4
18-03-2023	761.5	77.5	20.0	0
19-03-2023	762.4	81.4	16.9	27.6
20-03-2023	762.7	84.0	15.6	24.8
21-03-2023	762.2	83.0	16.7	59.6
22-03-2023	762.5	89.2	17.2	33.4
23-03-2023	762.2	94.2	20.6	0
24-03-2023	762	84.3	18.1	0
25-03-2023	761	69.2	18.7	0
26-03-2023	760.9	87.6	15.1	34.8
27-03-2023	760.9	84.4	17.2	10.2
28-03-2023	761	86.7	21.3	10.8
29-03-2023	761.5	78.6	18.9	3
30-03-2023	760.9	65.2	19.6	0
31-03-2023	762.4	80.4	19.2	5
			Total	239

	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/2022-23/04			Month: March	
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)
01.03.2023	48.28	31.97	10.78	14.59
03.03.2023	54.01	32.61	9.53	15.85
06.03.2023	50.31	30.62	11.85	13.55
09.03.2023	48.90	32.80	8.78	13.79
11.03.2023	52.09	31.82	10.91	16.18
14.03.2023	54.22	29.90	10.00	11.85
18.03.2023	54.35	33.81	10.17	13.18
24.03.2023	53.28	27.59	9.40	14.50
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.				
 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/2022-23/04			Month: March	
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)
01.03.2023	48.62	34.30	12.58	16.32
03.03.2023	54.35	34.94	11.33	17.58
06.03.2023	50.65	32.95	13.65	15.28
09.03.2023	49.24	35.13	10.58	15.52
11.03.2023	52.43	34.15	12.71	17.91
14.03.2023	54.56	32.23	11.80	13.58
18.03.2023	54.69	36.14	11.97	14.91
24.03.2023	53.62	29.92	11.20	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/2022-23/04			Month: March	
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)
01.03.2023	65.91	38.82	13.59	17.57
03.03.2023	60.56	39.70	14.61	18.60
06.03.2023	62.79	40.36	15.07	16.58
09.03.2023	66.78	38.69	14.52	15.51
11.03.2023	64.11	36.52	13.04	14.76
14.03.2023	65.61	38.89	11.36	15.62
18.03.2023	67.36	44.34	13.52	15.60
24.03.2023	63.47	37.56	12.61	8.89
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/2022-23/04				
Month - March 2023				
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline	
			Limit	
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)	
01.03.2023	Coal Storage Section	1352	2000	
03.03.2023	Limestone Storage Section	1627	5000	
 Analyzed By  Checked by  Verified By				

	STAR CEMENT LIMITED Line II 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/2022-23/002										Date: 01.03.2023	
Month - March											
S. No.	Location	Measured Values dB(A) Day time (6:00am to 10:00pm)			Norms In dB(A)	Measured Values dB(A) Night time (10:00pm to 6:00am)			Norms in dB(A)		
		Min.	Max.	Avg.		Min.	Max.	Avg.			
A	Plant										
1	Kiln	63.2	71.0	67.1	75	61.2	69.0	65.1	70		
2	Raw Mill	61.0	70.5	65.8		59.0	68.5	63.8			
3	Coal Mill	64.2	71.6	67.9		62.2	69.6	65.9			
4	Cement Mill	62.9	69.6	66.3		60.9	67.6	64.3			
5	Primary Crusher	64.5	71.1	67.8		62.5	69.1	65.8			
6	Secondary Crusher	63.5	71.8	67.7		61.5	69.8	65.7			
C.	Residential										
1	Line II colony	42.0	43.9	43.0	55	40.0	43.9	42.0	45		
   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/2022-23/04												Date of sample collection: 11.03.2023			
Surface Water Analysis Results												Date of Analysis: 11.03.2023 to 14.03.2023			
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	-	7.8	8.3	8.0	8.2	7.9	6.9	6.5	6.7	7.6	7.3	7.2	7.9	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	23	32	17.7	20.6	46.1	40.2	8.3	21.3	35.5	17.7	24.8	23.2	250
5	Total Hardness as CaCO ₃	mg/L	40	60	80.0	84.0	79.5	130.2	15.0	39.6	20.0	6.8	10.0	48.1	300
6	Suspended Solids	mg/L	1.0	4.2	1.0	13.8	5.9	54.0	3.0	5.0	2.0	3.2	3.0	5.8	-
7	Total Dissolve Solids	mg/L	232	281	237	290	363	217	53	83	214	9.6	55.0	120.0	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	422	515.0	431.0	523.0	679	205	110	165	396	16.3	100.3	300.0	-
12	Flow	L / Min	8232.3	10421.6	3433.6	3622.1	23568.2	139902.1	109995.6	356754.8	-	-	370.805	-	-
   Analyzed by Checked by Verified by															