

STAR CEMENT LIMITED

Ref: SCL/EHS/LUM/2023-24/17

Dated: 13/07/2023

To,

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

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

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

Dear Sir,

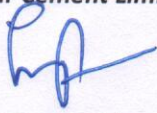
This is in reference to above cited subject, we are hereby submitting the monthly Environmental monitoring reports of Ambient Air Quality including meteorological data, Fugitive Emission, Noise Level, Surface water monitoring reports of M/s Star Cement Limited Line – II for the month of **June, 2023**.

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.

Regd. Office & Works: P.O. Lumshnong, East Jaintia Hills District, Meghalaya-793210, E-mail: ehslums@starcement.co.in

Corporate Office: Century House, 2nd Floor, P 15/1, Taratala Road, Kolkata-700088, e-mail: kolkata@starcement.co.in



AN ISO 9001, ISO 14001 & ISO 45001 CERTIFIED COMPANY

CIN NO. L26942ML2001PLC006663



STAR CEMENT LIMITED Line II

Lumshnong, Meghalaya

Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)
01-06-2023	762.5	60.1	32.7	0.0
02-06-2023	762.2	57.9	39.6	0.0
03-06-2023	761.0	59.7	40.7	0.0
04-06-2023	761.5	85.0	25.9	0.0
05-06-2023	760.9	65.7	29.8	0.0
06-06-2023	762.5	77.8	31.8	0.0
07-06-2023	762.2	66.9	33.4	0.0
08-06-2023	762.5	64.7	39.7	0.0
09-06-2023	761.4	61.8	32.5	15.0
10-06-2023	763.0	86.7	22.6	18.4
11-06-2023	762.0	75.9	38.9	163.4
12-06-2023	764.0	79.6	29.7	8.2
13-06-2023	760.6	54.7	37.6	8.4
14-06-2023	762.7	53.4	35.4	201.0
15-06-2023	764.8	76.1	33.7	304.8
16-06-2023	766.0	85.2	29.4	105.8
17-06-2023	764.0	59.7	33.6	138.2
18-06-2023	768.0	68.6	22.9	182.8
19-06-2023	764.0	64.9	23.8	180.0
20-06-2023	763.4	80.1	23.4	28.6
21-06-2023	761.0	82.6	20.7	89.4
22-06-2023	763.8	75.1	26.4	74.4
23-06-2023	760.9	84.6	25.7	60.6
24-06-2023	762.5	55.1	34.6	0.0
25-06-2023	762.2	55.0	35.0	8.0
26-06-2023	763.0	58.4	25.9	45.2
27-06-2023	761.0	87.6	22.9	12.6
28-06-2023	760.0	58.2	31.9	92.4
29-06-2023	762.5	52.9	32.4	96.2
30-06-2023	763.0	55.0	36.4	58.6
			Total	1892.0

	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/2023-24/03			Month: June	
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)
02.06.2023	43.39	29.97	12.67	15.60
05.06.2023	49.12	30.61	11.42	16.86
07.06.2023	45.42	28.62	13.74	14.56
09.06.2023	44.01	30.80	10.67	14.80
12.06.2023	47.20	29.82	12.80	17.19
24.06.2023	49.33	27.90	11.89	12.86
	No Monitoring Due to Heavy Rain fall			
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/2023-24/03			Month: June	
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)
02.06.2023	42.95	28.19	10.55	15.37
05.06.2023	48.68	28.83	9.30	16.63
07.06.2023	44.98	26.84	11.62	14.33
09.06.2023	43.57	29.02	8.55	14.57
12.06.2023	46.76	28.04	10.68	16.96
24.06.2023	48.89	26.12	9.77	12.63
	No Monitoring Due to Heavy Rain fall			
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/2023-24/03			Month: June	
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)
03.05.2023	62.28	34.51	13.59	14.96
06.05.2023	56.93	35.39	14.61	15.99
09.05.2023	59.16	36.05	15.07	13.97
12.05.2023	63.15	34.38	14.52	12.90
15.05.2023	60.48	32.21	13.04	12.15
18.05.2023	61.98	34.58	11.36	13.01
	No Monitoring Due to Heavy Rain fall			
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/2023-24/03			
Month - June			
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline
			Limit
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)
13.06.2023	Coal Storage Section	1189	2000
13.06.2023	Limestone Storage Section	1469	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/2023-24/003										Date: 08.06.2023	
Month - June											
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	63.1	70.9	67.0	75	61.8	69.6	65.7	70		
2	Raw Mill	60.9	70.4	65.7		59.6	69.1	64.4			
3	Coal Mill	64.1	71.5	67.8		62.8	70.2	66.5			
4	Cement Mill	62.8	69.5	66.2		61.5	68.2	64.9			
5	Primary Crusher	64.4	71.0	67.7		63.1	69.7	66.4			
6	Secondary Crusher	63.4	71.7	67.6		62.1	70.4	66.3			
C.	Residential										
1	Line II colony	41.9	43.8	42.9	55	40.6	44.5	42.6	45		

 Analyzed by	 Checked By	 Verified By
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	STAR CEMENT LIMITED LINE II Lumshnong, Meghalaya										Reference No.	SCL/EHS/F-04
											Issue No.	1
											Date of Issue:	24.08.2013
											Revision No.	3
	WATER TESTING REPORT										Date of Rev.	01.06.2019

Reference No.: SCL(II)/ENV/WATER/MONTHLY/2023-24/03										Date of sample collection: 14.06.2023			
Surface Water Analysis Results										Date of Analysis: 14.06.2023 to 17.06.2023			

S.No.	Parameter	Unit	Umtyrngai Nallah		Umutha Nallah		Umso Nalah	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	-	7.7	7.9	7.3	7.8	8.2	7.5	7.8	7.4	7.6	7.5	6.5 - 8.5
2	Colour	Hazen	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	10
3	Odour	-	Unobjectionable										Unobjectionable
4	Chloride	mg/L	25.9	33.7	22.2	28.0	51.4	23.0	40.1	21.3	26.6	28.4	250
5	Total Hardness as CaCO ₃	mg/L	41.7	60.2	79.4	79.4	84.0	40.0	20.2	14.0	16.0	46.0	300
6	Suspended Solids	mg/L	5.2	30.7	4.9	38.9	45.7	6.7	7.4	4.5	3.7	8.3	-
7	Total Dissolve Solids	mg/L	275.0	286.0	231.0	287.0	307.0	92.4	171.0	17.8	29.6	175.0	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	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	-
11	Conductivity	µS/cm	440.0	457.6	396.6	459.2	491.2	147.8	273.6	22.0	47.3	280.0	-
12	Flow	L / Min	151831.8	522386.8	109492.3	203892.3	627482.1	945912.2	-	-	1581.75	-	-

 Analyzed by	 Checked by	 Verified by
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