

STAR CEMENT LIMITED

Ref: SCL/EHS/LUM/2023-24/31

Dated: 19/10/2023

To,

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

Subject : Submission of Environmental Monitoring Report for the month of Sept., 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 Star Cement Limited Line – II for the month of **September, 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: 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

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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)
01-09-2023	761.0	88.7	29.8	11.0
02-09-2023	763.0	86.9	27.5	36.8
03-09-2023	761.7	79.5	30.4	0.0
04-09-2023	762.0	85.2	30.0	0.0
05-09-2023	761.0	85.0	29.7	0.9
06-09-2023	762.4	87.0	28.4	0.0
07-09-2023	761.8	89.0	27.1	9.6
08-09-2023	762.9	79.0	22.0	92.1
09-09-2023	763.8	86.4	23.0	30.0
10-09-2023	761.4	82.5	22.0	0.0
11-09-2023	761.8	75.8	24.0	16.6
12-09-2023	761.5	72.6	23.0	40.0
13-09-2023	764.0	71.7	22.0	24.6
14-09-2023	761.0	73.6	25.7	4.0
15-09-2023	762.0	80.4	27.9	0.0
16-09-2023	762.0	82.5	29.6	0.0
17-09-2023	761.0	84.0	30.0	0.0
18-09-2023	763.0	69.5	31.0	0.0
19-09-2023	764.0	67.5	27.8	2.0
20-09-2023	762.0	67.5	22.0	55.0
21-09-2023	761.0	74.9	23.0	14.4
22-09-2023	763.0	73.4	25.0	14.2
23-09-2023	762.2	78.1	26.0	4.8
24-09-2023	762.0	76.5	30.0	0.0
25-09-2023	763.5	73.4	29.5	0.0
26-09-2023	762.4	69.8	28.7	0.0
27-09-2023	762.8	89.4	29.4	0.0
28-09-2023	761.4	75.6	28.7	0.0
29-09-2023	761.7	71.4	26.4	0.0
30-09-2023	762.4	78.6	30.1	0.0
			Total	356.0

	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/2023-24/06			Month : September	
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)
01.09.2023	47.80	33.83	13.84	17.13
05.09.2023	53.53	34.47	12.59	18.39
07.09.2023	49.83	32.48	14.91	16.09
13.09.2023	48.42	34.66	11.84	16.33
15.09.2023	51.61	33.68	13.97	18.72
18.09.2023	53.74	31.76	13.06	14.39
21.09.2023	53.87	35.67	13.23	15.72
23.09.2023	52.80	29.45	12.46	17.04
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/2023-24/06			Month : September	
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)
01.09.2023	48.91	32.92	15.23	17.12
05.09.2023	54.64	33.56	12.59	18.38
07.09.2023	50.94	31.57	14.91	16.08
13.09.2023	49.53	33.75	11.84	16.32
15.09.2023	52.72	32.77	13.28	18.71
18.09.2023	54.85	30.85	13.06	14.38
21.09.2023	54.98	34.76	13.23	15.71
23.09.2023	53.91	28.54	12.46	17.03
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/2023-24/06			Month : September	
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)
01.09.2023	66.58	40.40	15.08	18.46
05.09.2023	61.23	41.28	16.10	19.49
07.09.2023	63.46	41.94	16.56	17.47
13.09.2023	67.45	40.27	16.01	16.40
15.09.2023	64.78	38.10	14.53	15.65
18.09.2023	66.28	40.47	12.85	16.51
21.09.2023	68.03	45.92	15.01	16.49
23.09.2023	64.14	39.14	14.10	14.40
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/2023-24/06			
Month - September			
Date	Location	Fugitive Emission Results (in $\mu\text{g}/\text{m}^3$)	As per CPCB/BIS Guideline
			Limit (in $\mu\text{g}/\text{m}^3$)
01.09.2023	Coal Storage Section	958	2000
01.09.2023	Limestone Storage Section	916	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/2023-24/006 Date: 11.09.2023									
Month - September									
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	61.6	69.4	65.5	75	58.4	66.2	62.3	70
2	Raw Mill	59.4	68.9	64.2		56.2	65.7	61.0	
3	Coal Mill	62.6	70.0	66.3		59.4	66.8	63.1	
4	Cement Mill	61.3	68.0	64.7		58.1	64.8	61.5	
5	Primary Crusher	62.9	69.5	66.2		59.7	66.3	63.0	
6	Secondary Crusher	61.9	70.2	66.1		58.7	67.0	62.9	
C.	Residential								
1	Line II colony	40.4	42.3	41.4	55	37.2	41.1	39.2	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/2023-24/06										Date of sample collection:22.09.2023			
Surface Water Analysis Results										Date of Analysis: 22.09.2023 to 25.09.2023			
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	-	7.8	8.0	7.7	8.4	8.2	7.7	8.2	7.8	7.4	7.8	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	21.3	26.6	23.0	24.8	27.3	22.7	30.1	23.0	24.8	23.0	250
5	Total Hardness as CaCO ₃	mg/L	4.4	64.4	72.6	78.2	80.0	45.4	18.0	20.0	25.8	42.0	300
6	Suspended Solids	mg/L	6.2	17.3	13.0	44.1	50.2	12.5	8.3	8.2	10.7	10.4	-
7	Total Dissolve Solids	mg/L	275.1	282.5	232.6	291.9	308.1	101.8	174.0	26.9	36.8	178.8	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	437.5	452.6	376.8	470.1	491.0	162.2	284.3	44.6	58.2	289.9	-
12	Flow	L / Min	54740.0	92496.5	10253.8	26101.8	11112.9	317815.0			396.2		-
   Analyzed by Checked by Verified by													