

STAR CEMENT LIMITED

Ref: SCL/EHS/LUM/2024-25/01

Dated: 03/04/2024

To,

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

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

Reference : MPCB/ONLINE-CTO(R-1) EJHD/2021/2023-2024/34-A, Dated Shillong, the 23rd January, 2024.

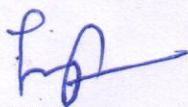
Dear Sir,

This is in reference to above cited subject, we are hereby submitting the monthly Environmental monitoring reports of Ambient Air Quality for plant and ESZ including meteorological data, Stack Emission, Fugitive Emission, Surface water & Waste Water (STP) monitoring reports of **Star Cement Limited (Line-I & Line-II)** for the month of **March, 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.



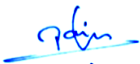
STAR CEMENT LIMITED

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
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31-03-2024	719.2	67.6	18.0	27.6
			Total	85.2

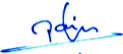
	STAR CEMENT LIMITED Lumshnong, Meghalaya		Reference No.	SCL/Env/F – 01
			Issue No.	1
	AMBIENT AIR QUALITY MONITORING REPORT		Date of Issue:	24.08.2013
			Revision No.	5
			Date of Rev.	01.12.2020
Reference No.: SCL/ENV/AAQM/MONTHLY/2023-24/12			Month : March	
Location of Sampling: Near Star Club		GPS Coordinate: 25°10'36"N 92°23'16"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)
01.03.2024	46.54	35.15	13.78	20.12
04.03.2024	45.55	34.12	13.84	18.28
06.03.2024	46.55	34.83	12.05	20.03
08.03.2024	47.04	36.14	11.84	18.65
11.03.2024	45.54	35.00	13.02	20.02
13.03.2024	46.48	37.84	11.87	17.50
15.03.2024	48.85	36.95	12.63	19.03
18.03.2024	47.41	35.50	13.18	18.25
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 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/2023-24/12			Month : March	
Location of Sampling: Near Pump House		GPS Coordinate: 25°10'42"N 92°23'32"E 919 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)
01.03.2024	78.89	50.98	15.55	21.87
04.03.2024	73.54	51.86	16.57	22.90
06.03.2024	75.77	52.52	17.03	20.88
08.03.2024	79.76	50.85	16.48	19.81
11.03.2024	77.09	48.68	15.00	17.48
13.03.2024	78.59	51.05	13.32	18.03
15.03.2024	84.14	55.44	18.06	22.01
18.03.2024	80.25	52.73	17.15	19.85
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.				
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	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/2023-24/12			Month : March	
Location of Sampling: Near Security Gate - 3		GPS Coordinate: 25°10'27"N 92°23'37"E 944 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)
01.03.2024	83.12	51.96	16.61	23.03
04.03.2024	77.77	51.44	17.87	22.66
06.03.2024	80.00	52.10	17.83	22.02
08.03.2024	83.99	50.43	18.85	21.43
11.03.2024	81.32	48.26	15.60	20.05
13.03.2024	82.82	50.63	14.19	19.68
15.03.2024	86.13	53.58	17.63	20.84
18.03.2024	82.24	50.87	16.84	19.31
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 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.: Tongseng Village /2023-24/12			Month : March	
Location of Sampling: Tongseng Village		GPS Coordinate: 25°10'08"N 92°24'17"E 756 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)
20.03.2024	47.29	28.92	12.65	16.42
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 Lumshnong, Meghalaya						Reference No.	SCL/Env/F-02	
							Issue No.	1	
	STACK EMISSION MONITORING ANALYSIS REPORT						Date of Issue	01.05.2019	
							Revision No.	5	
Report No: SCL/ENV/STACK/MONTHLY/2023-24/12						Date of Rev. 01.06.2021			
Analysis Result									
A. General Information About Stack									
1	Stack Identification No	S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8
2	Stack Connected to	Kiln/Raw Mill	Coal Mill	Cooler	Roller Press	Cement Mill	Packing Plant	Primary Crusher	Secondary Crusher
3	Material of Construction (Stack/Duct)	Mild Steel	Mild Steel	Mild Steel	Mild Steel	Mild Steel	Mild Steel	Mild Steel	Mild Steel
4	Shape of duct	Circular	Circular	Circular	Circular	Circular	Circular	Circular	Circular
5	Whether duct is provided with permanent platform & ladder	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
B. Physical characteristic of stack									
1	Stack Height from ground level (meter)	45.4	37	30.4	24	30	28	21	17
2	Duct diameter at sampling point (meter)	3	1.2	2.8	1.4	1.5	1.1	1.2	1.0
3	Sampling height point from ground level (meter)	-	-	-	-	-	-	-	-
4	Cross sectional area of Duct/Stack (m ²)	7.07	1.13	6.15	1.54	1.77	0.95	1.13	0.79
C. Pollution Control Device									
1	Details of pollution control device attached to stack	Reverse Air Bag House	Bag Filter	ESP	Bag Filter	Bag Filter	Bag Filter	Bag Filter	Bag Filter
D. Result of Sampling & Analysis of Gaseous Emission									
1	Date of Sampling	08.03.2024	08.03.2024	08.03.2024	09.03.2024	12.03.2024	12.03.2024	09.03.2024	09.03.2024
2	Ambient Temp (°C)	30	25	32	25	21	21	22	23
3	Stack Gas Temp (°C)	145	80	128	39	33	35	25	24
4	Exit Velocity of Gas (m/sec.)	17.28	14.00	8.00	14.07	12.56	12.11	13.32	12.85
5	Flow Rate (Nm ³ / sec.)	82.47	12.65	34.89	18.40	20.21	10.53	14.05	9.56
6	Quantity of Emission (Nm ³ / Hr)	296905.50	45552.37	125603.13	69374.19	72743.32	37899.73	50591.53	34427.91
7	Concentration of PM (mg/Nm ³)	13.2	26.3	17.7	16.6	26.4	24.0	18.6	20.7
8	Concentration of SO ₂ (mg/Nm ³)	587.0	-	-	-	-	-	-	-
9	Concentration of NO _x (mg/Nm ³)	316.0	-	-	-	-	-	-	-
10	Oxygen (O ₂) (%)	10.2	10.7	8.0	9.2	9.8	9.7	8.9	9.0
E. Remarks									
Standard									
PM - 30 mg/Nm ³			SO ₂ - 1000 mg/Nm ³			NO _x - 800 mg/Nm ³			
Particulate Matter (PM), Sulphur di-oxide (SO ₂), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP)									
 Analysis by			 Checked by			 Authorized Signatory			

	STAR CEMENT LIMITED 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/ENV/FUGITIVE/MONTHLY/2023-24/12			
Month - March			
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline
			Limit
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)
05.03.2024	Coal Storage Section	1375	2000
05.03.2024	Limestone Storage Section	1411	5000
 Analyzed By  Checked by  Verified By			

	STAR CEMENT LIMITED 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/2023-24/012						Date: 05.03.2024			
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	53.8	61.6	57.7	75	51.4	59.2	55.3	70
2	Raw Mill	51.6	61.1	56.4		49.2	58.7	54.0	
3	Raw Mill WF	54.8	62.2	58.5		52.4	59.8	56.1	
4	Coal Mill	53.1	60.4	56.8		50.7	58.0	54.4	
5	Cement Mill	53.5	60.2	56.9		51.1	57.8	54.5	
6	Cement Mill WF	55.1	61.7	58.4		52.7	59.3	56.0	
7	Primary Crusher (Dump Hopper)	51.6	60.6	56.1		49.2	58.2	53.7	
8	Primary Crusher (Near BC-1)	54.1	62.4	58.3		51.7	60.0	55.9	
9	Secondary Crusher	51.6	62.8	57.2		49.2	60.4	54.8	
B.	DG House								
1	Control Room	51.1	63.8	57.5	75	48.7	61.4	55.1	70
2	Office	52.6	51.6	52.1		50.2	49.2	49.7	
C.	Offices								
1	CCR	41.6	52.1	46.9	75	44.5	55.0	49.8	70
2	Meeting Room	43.1	51.7	47.4		46.0	54.6	50.3	
3	VP'S Room	36.9	41.3	39.1		39.8	44.2	42.0	
4	Inst. Shift Room	42.1	44.9	43.5		45.0	47.8	46.4	
5	Drawing Office	41.6	51.1	46.4		44.5	54.0	49.3	
6	QC Department								
	a) Chemical Lab	52.7	54.8	53.7		48.2	50.3	49.2	
	b) Physical Lab	51.7	56.2	54.0		47.2	51.7	49.5	
	c) Shift Lab	46.9	51.6	49.3		42.4	47.1	44.8	
	d) Sample Preparation Room	44.0	51.5	47.7	39.5	47.0	43.2		
D.	Residential								
1	Bachelor Hostel	36.6	41.3	39.0	55	34.2	38.9	36.6	45
2	HOD'S Quater's	32.6	43.6	38.1		30.2	41.2	35.7	
3	650 Quater's	34.5	43.3	38.9		32.1	40.9	36.5	
4	250 Quater's	34.9	41.6	38.3		32.5	39.2	35.9	
5	Hut	33.9	42.0	38.0		31.5	39.6	35.6	
E.	Dispensary	33.6	40.6	37.1		31.2	38.2	34.7	
 Analyzed by  Checked By  Verified By									

	STAR CEMENT LIMITED Lumshnong, Meghalaya				Reference No.	SCL/EHS/F-04
					Issue No.	1
	WATER TESTING REPORT				Date of Issue:	24.08.2013
					Revision No.	3
					Date of Rev.	01.06.2019
Reference No.: SCL/ENV/WATER/MONTHLY/2023-24/12					Date of sample collection: 18.03.2024	
					Date of Analysis: 18.03.2024 to 21.03.2024	
Sl.No.	Parameter	Unit	STP Inlet	STP Outlet	Standard Norms For Discharge of Environment Pollution (Notification Date: - 19th May 1993) & Consent To Operate vide letter no. MPCB/TB-900 (Pt-II)/2014- 2015/34 - dated Shillong, the 3rd Sep,2014	
1	pH	-	7.5	7.8	5.5 to 9.0	
2	Colour	Hazen	Yellowish	Colourless	-	
3	Odour	-	Odourless	Odourless	-	
4	Chloride	mg/L	86.0	87.5	-	
5	Total Hardness as CaCO ₃	mg/L	58.7	59.9	-	
6	Suspended Solids	mg/L	91	30.0	100	
7	Total Dissolve Solids	mg/L	327	340	-	
8	Chemical Oxygen Demand	mg/L	234	37	250	
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	93	8.4	30	
10	Oil & Grease	mg/L	4.9	< 3.0	10	
11	Temperature	° C	25	25	Shall not exceed 5.0°C above the receiving water temperature	
12	Conductivity	µS/cm	523	544	-	
 Analysis By  Checked By  Verified By						

	STAR CEMENT LIMITED 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/ENV/WATER/MONTHLY/2023-24/12											Surface Water Analysis Results			Date of sample collection: 18.03.2024		Date of Analysis: 18.03.2024 to 21.03.2024	
S.No.	Parameter	Unit	Umtyrngai Nallah		Umutha Nallah		Umso Nalah	Seshympa	Lunar	Lukha	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	-	7.9	8.5	7.4	8.3	8.5	7.3	7.2	7.4	Water source not found				7.5	6.5 - 8.5	
2	Colour	Hazen	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Yellowish	Colourless					Colourless	10	
3	Odour	-	Unobjectionable												Unobjectionable	Unobjectionable	
4	Chloride	mg/L	27.2	31.4	28.6	29.7	32.8	27.4	43.8	18.9					24.7	250	
5	Total Hardness as CaCO ₃	mg/L	52.3	67.8	76.8	83.1	88.9	49.6	122.7	23.4					45.9	300	
6	Suspended Solids	mg/L	1.0	1.5	1.2	1.9	1.7	1.0	18.0	1.6					1.9	-	
7	Total Dissolve Solids	mg/L	164.2	187.0	212.6	276.9	281.0	132.0	220.3	65.7					205.9	500	
8	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	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	-	
10	Temperature	° C	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0					25.0	-	
11	Conductivity	µS/cm	172.6	301.7	341.9	443.0	449.5	211.2	354.0	105.1					329.4	-	
12	Flow	L / Min	1366.8	1632.0	251.6	572.7	983.2	9792.0	521050.0	363873.9					-		
 Analyzed by  Checked by  Verified by																	



STAR CEMENT LIMITED Line II

Lumshnong, Meghalaya

Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)
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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
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19-03-2024	718.4	70.0	17.0	0.0
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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 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/2023-24/12			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)
02.03.2024	65.73	46.53	14.29	19.04
05.03.2024	71.46	47.17	13.04	20.30
07.03.2024	67.76	45.18	15.36	18.00
09.03.2024	66.35	47.36	12.29	18.24
12.03.2024	69.54	46.38	14.42	20.63
14.03.2024	71.67	44.46	13.51	16.30
16.03.2024	71.80	48.37	13.68	17.63
19.03.2024	70.73	49.42	12.91	18.95
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/2023-24/12			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)
02.03.2024	66.84	45.62	15.68	23.35
05.03.2024	72.57	46.26	15.78	20.29
07.03.2024	68.87	44.27	13.99	18.92
09.03.2024	67.46	46.45	13.78	20.92
12.03.2024	70.65	45.47	14.96	22.79
14.03.2024	72.78	43.55	13.81	23.30
16.03.2024	72.91	47.46	13.68	20.38
19.03.2024	71.84	41.24	12.91	18.94
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/2023-24/12			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)
02.03.2024	84.51	53.10	15.53	21.20
05.03.2024	79.16	53.98	16.55	19.78
07.03.2024	81.39	54.64	17.01	21.11
09.03.2024	85.38	52.97	16.46	19.73
12.03.2024	82.71	50.80	14.98	21.13
14.03.2024	84.21	53.17	13.30	18.42
16.03.2024	85.96	58.62	15.46	20.18
19.03.2024	82.07	51.84	14.55	19.85
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/2023-24/12			
Month - March			
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline
			Limit
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)
02.03.2024	Coal Storage Section	1296	2000
02.03.2024	Limestone Storage Section	1207	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/2023-24/012						Date: 01.03.2024			
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	61.9	69.7	65.8	75	58.4	66.2	62.3	70
2	Raw Mill	59.7	69.2	64.5		56.2	65.7	61.0	
3	Coal Mill	62.9	70.3	66.6		59.4	66.8	63.1	
4	Cement Mill	61.6	68.3	65.0		58.1	64.8	61.5	
5	Primary Crusher	63.2	69.8	66.5		59.7	66.3	63.0	
6	Secondary Crusher	62.2	70.5	66.4		58.7	67.0	62.9	
C.	Residential								
1	Line II colony	40.7	42.6	41.7	55	37.2	41.1	39.2	45
   Analyzed by Checked By Verified By									

STAR CEMENT Solid Setting			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/2023-24/12										Surface Water Analysis Results									
										Date of sample collection: 18.03.2024									
										Date of Analysis: 18.03.2024 to 21.03.2024									
S.No.	Parameter	Unit	Umtyrngai Nallah		Umutha Nallah		Umso Nalah	Seshympa	Lunar	Lukha	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	-	7.9	8.5	7.4	8.3	8.5	7.3	7.2	7.4	Water source not found					7.5	6.5 - 8.5		
2	Colour	Hazen	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Yellowish	Colourless						Colourless	10		
3	Odour	-	Unobjectionable													Unobjectionable	Unobjectionable		
4	Chloride	mg/L	27.2	31.4	28.6	29.7	32.8	27.4	43.8	18.9						24.7	250		
5	Total Hardness as CaCO ₃	mg/L	52.3	67.8	76.8	83.1	88.9	49.6	122.7	23.4						45.9	300		
6	Suspended Solids	mg/L	1.0	1.5	1.2	1.9	1.7	1.0	18.0	1.6						1.9	-		
7	Total Dissolve Solids	mg/L	164.2	187.0	212.6	276.9	281.0	132.0	220.3	65.7						205.9	500		
8	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	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	-		
10	Temperature	° C	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0						25.0	-		
11	Conductivity	µS/cm	172.6	301.7	341.9	443.0	449.5	211.2	354.0	105.1						329.4	-		
12	Flow	L / Min	1366.8	1632.0	251.6	572.7	983.2	9792.0	521050.0	363873.9						-	-		
 Analyzed by  Checked by  Verified by																			