

STAR CEMENT LIMITED

Ref: SCL/EHS/LUM/2024-25/03

Dated: 24/05/2024

To,

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

Subject : Submission of Environmental Monitoring Report for the month of April, 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 **April, 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)
01-04-2024	720.7	71.6	18.8	91.9
02-04-2024	718.1	70.4	18.1	10.0
03-04-2024	717.8	71.2	19.0	30.4
04-04-2024	724.0	69.5	18.8	62.0
05-04-2024	721.3	69.3	18.7	15.4
06-04-2024	727.1	70.6	18.1	8.0
07-04-2024	721.7	69.4	20.0	0.0
08-04-2024	724.4	69.2	19.0	0.0
09-04-2024	726.0	69.4	18.6	0.0
10-04-2024	723.7	70.5	19.0	0.0
11-04-2024	721.7	73.7	19.1	0.0
12-04-2024	721.2	72.8	20.8	0.0
13-04-2024	721.6	77.0	18.9	0.0
14-04-2024	724.4	74.1	19.0	0.0
15-04-2024	724.6	74.3	19.9	0.0
16-04-2024	724.0	71.5	19.5	0.0
17-04-2024	722.4	77.8	16.7	7.2
18-04-2024	720.8	77.0	15.3	0.0
19-04-2024	718.4	70.0	17.0	18.8
20-04-2024	724.0	63.0	16.9	20.6
21-04-2024	724.5	66.0	18.4	44.2
22-04-2024	722.2	70.8	18.7	20.2
23-04-2024	724.4	70.3	18.8	108.2
24-04-2024	726.0	68.2	20.0	51.0
25-04-2024	724.4	70.9	18.8	24.0
26-04-2024	719.2	67.6	18.0	42.0
27-04-2024	725.9	70.5	18.5	12.6
28-04-2024	723.7	71.9	19.0	18.2
29-04-2024	722.5	74.0	15.7	72.0
30-04-2024	724.4	70.9	18.8	54.6
			Total	711.3

	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/2024-25/13			Month : April	
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)
08.04.2024	40.22	28.79	13.62	20.63
10.04.2024	39.23	27.76	13.68	18.79
12.04.2024	40.23	28.47	11.89	20.54
15.04.2024	40.72	29.78	11.68	19.16
Heavy Rainfall	-	-	-	-
Heavy Rainfall	RAINFALL DATA ATTACHED			
Heavy Rainfall	-	-	-	-
Heavy Rainfall	-	-	-	-
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/2024-25/13			Month : April	
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)
08.04.2024	72.57	44.62	15.39	22.38
10.04.2024	67.22	45.50	16.41	23.41
12.04.2024	69.45	46.16	16.87	21.39
15.04.2024	73.44	44.49	16.32	20.32
Heavy Rainfall	-	-	-	-
Heavy Rainfall	RAINFALL DATA ATTACHED			
Heavy Rainfall	-	-	-	-
Heavy Rainfall	-	-	-	-
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)
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			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/2024-25/13			Month : April	
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)
08.04.2024	76.80	45.60	16.45	23.54
10.04.2024	71.45	45.08	17.71	23.17
12.04.2024	73.68	45.74	17.67	22.53
15.04.2024	77.67	44.07	18.69	21.94
Heavy Rainfall	-	-	-	-
Heavy Rainfall	RAINFALL DATA ATTACHED			
Heavy Rainfall	-	-	-	-
Heavy Rainfall	-	-	-	-
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)
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 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 /2024-25/13			Month : April	
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)
15.04.2024	40.97	22.56	12.49	16.93
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/2024-25/13						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	10.04.2024	08.04.2024	08.04.2024	11.04.2024	13.04.2024	13.04.2024	11.04.2024	12.04.2024
2	Ambient Temp (°C)	30	25	32	25	21	21	22	23
3	Stack Gas Temp (°C)	132	78	121	37	31	33	23	22
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.)	85.13	12.73	35.51	18.40	20.34	10.60	14.15	9.63
6	Quantity of Emission (Nm ³ / Hr)	306465.55	45812.77	127834.66	69822.82	73223.99	38148.28	50933.37	34661.32
7	Concentration of PM (mg/Nm ³)	15.6	25.1	16.5	15.4	25.2	23.0	17.5	19.5
8	Concentration of SO ₂ (mg/Nm ³)	545.0	-	-	-	-	-	-	-
9	Concentration of NO _x (mg/Nm ³)	334.0	-	-	-	-	-	-	-
10	Oxygen (O ₂) (%)	10.0	9.5	8.2	9.0	9.6	9.0	8.7	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/2024-25/13			
Month - April			
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline
			Limit
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)
10.04.2024	Coal Storage Section	1339	2000
10.04.2024	Limestone Storage Section	1378	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/2024-25/013					Date: 08.04.2024				
Month - April									
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	53.0	60.8	56.9	75	50.8	58.6	54.7	70
2	Raw Mill	50.8	60.3	55.6		48.6	58.1	53.4	
3	Raw Mill WF	54.0	61.4	57.7		51.8	59.2	55.5	
4	Coal Mill	52.3	59.6	56.0		50.1	57.4	53.8	
5	Cement Mill	52.7	59.4	56.1		50.5	57.2	53.9	
6	Cement Mill WF	54.3	60.9	57.6		52.1	58.7	55.4	
7	Primary Crusher (Dump Hopper)	50.8	59.8	55.3		48.6	57.6	53.1	
8	Primary Crusher (Near BC-1)	53.3	61.6	57.5		51.1	59.4	55.3	
9	Secondary Crusher	50.8	62.0	56.4		48.6	59.8	54.2	
B.	DG House								
1	Control Room	50.3	63.0	56.7	75	48.1	60.8	54.5	70
2	Office	51.8	50.8	51.3		49.6	48.6	49.1	
C.	Offices								
1	CCR	40.8	51.3	46.1	75	44.5	55.0	49.8	70
2	Meeting Room	42.3	50.9	46.6		46.0	54.6	50.3	
3	VP'S Room	36.1	40.5	38.3		39.8	44.2	42.0	
4	Inst. Shift Room	41.3	44.1	42.7		45.0	47.8	46.4	
5	Drawing Office	40.8	50.3	45.6		44.5	54.0	49.3	
6	QC Department								
	a) Chemical Lab	51.9	54.0	52.9		47.6	49.7	48.6	
	b) Physical Lab	50.9	55.4	53.2		46.6	51.1	48.9	
	c) Shift Lab	46.1	50.8	48.5		41.8	46.5	44.2	
	d) Sample Preparation Room	43.2	50.7	46.9	38.9	46.4	42.6		
D.	Residential								
1	Bachelor Hostel	35.8	40.5	38.2	55	33.6	38.3	36.0	45
2	HOD'S Quater's	31.8	42.8	37.3		29.6	40.6	35.1	
3	650 Quater's	33.7	42.5	38.1		31.5	40.3	35.9	
4	250 Quater's	34.1	40.8	37.5		31.9	38.6	35.3	
5	Hut	33.1	41.2	37.2		30.9	39.0	35.0	
E.	Dispensary	32.8	39.8	36.3		30.6	37.6	34.1	
 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/2024-25/13					Date of sample collection: 09.04.2024	
					Date of Analysis: 09.04.2024 to 12.04.2024	
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	82.5	84.8	-	
5	Total Hardness as CaCO ₃	mg/L	56.8	56.0	-	
6	Suspended Solids	mg/L	79	21.0	100	
7	Total Dissolve Solids	mg/L	319	330	-	
8	Chemical Oxygen Demand	mg/L	124	41	250	
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	87	9.0	30	
10	Oil & Grease	mg/L	2.1	< 3.0	10	
11	Temperature	° C	25	25	Shall not exceed 5.0°C above the receiving water temperature	
12	Conductivity	µS/cm	477	510	-	
 Analysis By  Checked By  Verified By						

STAR CEMENT Solid Setting	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/2024-25/13													Surface Water Analysis Results				Date of sample collection: 09.04.2024			
													Date of Analysis: 09.04.2024 to 12.04.2024							
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	-	7.6	8.3	7.6	8.0	8.5	7.4	7.1	7.3	7.7	7.2	7.6	7.4	6.5 - 8.5					
2	Colour	Hazen	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Yellowish	Colourless	Colourless	Colourless	Colourless	Colourless	10					
3	Odour	-	Unobjectionable											Unobjectionable	Unobjectionable					
4	Chloride	mg/L	25.7	30.4	28.7	27.8	32.2	25.9	42.9	18.0	29.5	28.6	33.0	25.2	250					
5	Total Hardness as CaCO ₃	mg/L	53.9	69.3	77.6	85.5	89.1	50.8	121.8	22.5	78.4	86.3	89.9	44.5	300					
6	Suspended Solids	mg/L	2.0	3.5	2.1	4.5	10.0	1.0	17.0	2.1	3.0	5.4	10.9	1.9	-					
7	Total Dissolve Solids	mg/L	259.0	191.0	269.1	322.0	311.7	141.0	219.4	64.8	270.0	322.9	312.6	203.8	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	25.9	25.9	25.9	25.0	-					
11	Conductivity	µS/cm	440.2	320.2	425.6	510.9	526.9	212.2	353.1	104.2	426.5	511.8	527.8	330.3	-					
12	Flow	L / Min	6317.7	15045.0	5687.4	6800.0	13336.0	428136.2	172169.2	125706.8	-	-	432.4	-	-					
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)
01-04-2024	719.6	72.1	17.7	91.9
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19-04-2024	717.3	70.5	15.9	18.8
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21-04-2024	723.4	66.5	17.3	44.2
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25-04-2024	723.3	71.4	17.7	24.0
26-04-2024	718.1	68.1	16.9	42.0
27-04-2024	724.8	71.0	17.4	12.6
28-04-2024	722.6	72.4	17.9	18.2
29-04-2024	721.4	74.5	14.6	72.0
30-04-2024	723.3	71.4	17.7	54.6
			Total	711.3

	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/2024-25/13			Month : April	
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)
09.04.2024	59.41	40.17	14.13	19.55
11.04.2024	65.14	40.81	12.88	20.81
13.04.2024	61.44	38.82	15.20	18.51
Heavy Rainfall	-	-	-	-
Heavy Rainfall	-	-	-	-
Heavy Rainfall	RAINFALL DATA ATTACHED			
Heavy Rainfall	-	-	-	-
Heavy Rainfall	-	-	-	-
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/2024-25/13			Month : April	
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)
09.04.2024	60.52	39.26	15.52	23.86
11.04.2024	66.25	39.90	15.62	20.80
13.04.2024	62.55	37.91	13.83	19.43
Heavy Rainfall	-	-	-	-
Heavy Rainfall	-	-	-	-
Heavy Rainfall	RAINFALL DATA ATTACHED			
Heavy Rainfall	-	-	-	-
Heavy Rainfall	-	-	-	-
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/2024-25/13			Month : April	
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)
09.04.2024	78.19	46.74	15.37	21.71
11.04.2024	72.84	47.62	16.39	20.29
13.04.2024	75.07	48.28	16.85	21.62
Heavy Rainfall	-	-	-	-
Heavy Rainfall	-	-	-	-
Heavy Rainfall	RAINFALL DATA ATTACHED			
Heavy Rainfall	-	-	-	-
Heavy Rainfall	-	-	-	-
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/2024-25/13			
Month - April			
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline
			Limit
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)
09.04.2024	Coal Storage Section	1260	2000
09.04.2024	Limestone Storage Section	1136	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/2024-25/013						Date:		09.04.2024	
Month -April									
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	62.0	69.8	65.9	75	59.2	67.0	63.1	70
2	Raw Mill	59.8	69.3	64.6		57.0	66.5	61.8	
3	Coal Mill	63.0	70.4	66.7		60.2	67.6	63.9	
4	Cement Mill	61.7	68.4	65.1		58.9	65.6	62.3	
5	Primary Crusher	63.3	69.9	66.6		60.5	67.1	63.8	
6	Secondary Crusher	62.3	70.6	66.5		59.5	67.8	63.7	
C.	Residential								
1	Line II colony	40.8	42.7	41.8	55	38.0	41.9	40.0	45
 Analyzed by  Checked By  Verified By									

	STAR CEMENT MEGHALAYA LIMITED Lumshnong, Meghalaya												Reference No.	SCML/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.: SCML/ENV/WATER/MONTHLY/2024-25/13												Date of sample collection: 09.04.2024			
Surface Water Analysis Results												Date of Analysis: 09.04.2024 to 12.04.2024			
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	-	7.6	8.3	7.6	8.0	8.5	7.4	7.1	7.3	7.7	7.2	7.6	7.5	6.5 - 8.5
2	Colour	Hazen	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Yellowish	Colourless	Colourless	Colourless	Colourless	Colourless	10
3	Odour	-	Unobjectionable											Unobjectionable	Unobjectionable
4	Chloride	mg/L	25.7	30.4	28.7	27.8	32.2	25.9	42.9	18.0	29.5	28.6	33.0	24.7	250
5	Total Hardness as CaCO ₃	mg/L	53.9	69.3	77.6	85.5	89.1	50.8	121.8	22.5	78.4	86.3	89.9	45.9	300
6	Suspended Solids	mg/L	2.0	3.5	2.1	4.5	10.0	1.0	17.0	2.1	3.0	5.4	10.9	1.9	-
7	Total Dissolve Solids	mg/L	259.0	191.0	269.1	322.0	311.7	141.0	219.4	64.8	270.0	322.9	312.6	205.9	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	25.9	25.9	25.9	25.0	-
11	Conductivity	µS/cm	440.2	320.2	425.6	510.9	526.9	212.2	353.1	104.2	426.5	511.8	527.8	329.4	-
12	Flow	L / Min	6317.7	15045.0	5687.4	6800.0	13336.0	428136.2	172169.2	125706.8	-	-	432.4	-	-
 Analyzed by  Checked by  Verified by															