



Ref: SCL/EHS/LUMS/2025-26/78

Dated: 05/11/2025

To,

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

Subject : Submission of Environmental Monitoring Report for the month of October, 2025.

Reference : MPCB/ONLINE-RCTO(R-1) EJHD/2021/2024-2025/72-A, Dated Shillong, the 5th Dec, 2024.

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, Stack Emission, Fugitive Emission, Noise, Surface water & Waste Water (STP) monitoring reports of **Star Cement Limited (Line-I & Line-II)** for the month of **October, 2025**.

This is for your kind information, record and kindly acknowledges receipt of the same.

Thanking you,

Yours truly,
For **Star Cement Limited**

 **Lokesh Kumar Bahety**
Unit Head



Enclosed: a/a

STAR CEMENT LIMITED

Regd. Off. & Works: Vill.: Lumshnong, Khaliehrat, East Jaintia Hills, Meghalaya - 793210 | T : 03655-278215/16/18 | E : lumshnong@starcement.co.in
Corp. Off.: Century House, 2nd Floor, P-15/1, Taratala Main Road, CPT Colony, Kolkata, West Bengal - 700088 | E : kolkata@starcement.co.in

ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 CERTIFIED COMPANY.

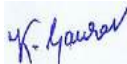
CIN: L26942ML2001PLC006663 | G : www.starcement.co.in



STAR CEMENT LIMITED

Lumshnong, Meghalaya

Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)
01-10-2025	935.6	91.1	27.0	47.2
02-10-2025	942.9	92.0	28.2	25.8
03-10-2025	938.2	86.4	29.8	0.0
04-10-2025	952.7	90.5	27.5	10.6
05-10-2025	952.3	91.6	29.4	11.2
06-10-2025	954.8	93.4	30.1	62.0
07-10-2025	950.4	88.9	28.1	32.8
08-10-2025	942.1	87.5	29.2	7.6
09-10-2025	939.3	89.4	30.3	0.0
10-10-2025	943.8	87.6	30.5	2.2
11-10-2025	948.7	92.3	27.9	5.6
12-10-2025	938.1	88.8	28.5	0.0
13-10-2025	937.5	84.9	29.1	0.0
14-10-2025	938.2	85.3	31.4	0.0
15-10-2025	938.5	86.5	31.9	0.0
16-10-2025	940.2	85.7	31.3	0.0
17-10-2025	939.9	84.2	32.1	0.0
18-10-2025	934.3	82.5	32.4	0.0
19-10-2025	941.1	81.8	31.9	0.0
20-10-2025	932.4	79.5	32.8	0.0
21-10-2025	942.9	80.6	29.7	0.0
22-10-2025	947.4	81.4	28.1	0.0
23-10-2025	951.1	81.2	28.4	0.0
24-10-2025	952.3	82.5	26.5	3.1
25-10-2025	951.2	82.3	23.8	0.0
26-10-2025	948.5	80.4	26.2	0.0
27-10-2025	934.7	77.3	27.0	0.0
28-10-2025	942.8	83.6	27.1	0.0
29-10-2025	951.7	88.0	23.1	0.0
30-10-2025	950.6	90.7	24.5	3.7
31-10-2025	957.9	91.1	24.0	2.1
			Total	213.9

	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/2025-26/07			Month : October'25	
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)
02-10-2025	Rainfall	Rainfall	Rainfall	Rainfall
06-10-2025	Rainfall	Rainfall	Rainfall	Rainfall
09-10-2025	45.50	24.60	14.79	13.13
14-10-2025	43.10	22.58	14.54	11.75
17-10-2025	44.10	21.46	14.35	13.14
22-10-2025	43.74	24.30	15.20	10.58
25-10-2025	43.88	23.41	15.79	12.08
30-10-2025	41.84	21.96	13.50	10.89
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 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/2025-26/07			Month : October'25	
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)
02-10-2025	Rainfall	Rainfall	Rainfall	Rainfall
06-10-2025	Rainfall	Rainfall	Rainfall	Rainfall
09-10-2025	55.41	25.33	20.45	16.14
14-10-2025	50.58	25.87	19.90	17.25
17-10-2025	56.73	27.96	18.42	15.81
22-10-2025	56.36	26.09	18.74	17.65
25-10-2025	54.49	26.06	20.63	16.13
30-10-2025	52.58	25.14	20.57	17.92
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/2025-26/07			Month : October'25	
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)
02-10-2025	Rainfall	Rainfall	Rainfall	Rainfall
06-10-2025	Rainfall	Rainfall	Rainfall	Rainfall
09-10-2025	55.97	27.49	19.13	16.22
14-10-2025	60.99	26.54	18.44	14.29
17-10-2025	61.56	29.46	19.16	13.42
22-10-2025	58.92	30.21	17.21	15.06
25-10-2025	59.97	32.24	21.93	16.32
30-10-2025	62.95	31.54	19.80	15.57
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 /2025-26/07			Month : October'25	
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)
08-10-2025	36.24	19.38	13.43	10.87
25-10-2025	35.36	16.71	14.49	8.94
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 Lumshnong, Meghalaya						Reference No.	SCL/Env/F-02
							Issue No.	1
							Date of Issue	01.05.2019
							Revision No.	5
	STACK EMISSION MONITORING ANALYSIS REPORT						Date of Rev.	01.06.2021

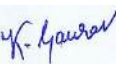
Report No: SCL/ENV/STACK/MONTHLY/2025-26/07

Month: October'25

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 (m²)	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	-	-	-	07-10-2025	07-10-2025	08-10-2025	06-10-2025	06-10-2025
2	Ambient Temp (°C)	-	-	-	30	30	31	32	32
3	Stack Gas Temp (°C)	-	-	-	44	47	36	39	39
4	Exit Velocity of Gas (m/sec.)	-	-	-	14.87	15.14	15.02	14.95	13.57
5	Flow Rate (Nm³/ sec.)	-	-	-	19.52	21.98	13.25	12.98	12.41
6	Concentration of PM (mg/Nm³)	-	-	-	12.86	16.52	15.23	14.15	15.10
7	Concentration of SO₂ (mg/Nm³)	-	-	-	-	-	-	-	-
8	Concentration of NOx (mg/Nm³)	-	-	-	-	-	-	-	-
9	Oxygen (O₂) (%)	-	-	-	9.9	10.1	10.5	10.1	10.5
E.	Remarks	The Plant is under shutdown except Packing Plant, Cement Mill, Roller Press, Primary Crusher, Secondary Crusher from 19/08/2025.							
Standard									
PM - 30 mg/Nm³			SO₂ - 1000 mg/Nm³			NOx - 600 mg/Nm³			
Particulate Matter (PM), Sulphur di-oxide (SO₂), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP)									
 Analysed by  Checked by  Verified By									

	STAR CEMENT LIMITED Lumshnong, Meghalaya						Reference No.	SCL/Env/F-02	
							Issue No.	1	
							Date of Issue	01.05.2019	
							Revision No.	5	
	STACK EMISSION MONITORING ANALYSIS REPORT						Date of Rev.	01.06.2021	
Report No: SCL/ENV/STACK/MONTHLY/2025-26/07						Month: October'25			
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 (m²)	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	-	-	-	27-10-2025	27-10-2025	18-10-2025	20-10-2025	20-10-2025
2	Ambient Temp (°C)	-	-	-	29	29	34	34	34
3	Stack Gas Temp (°C)	-	-	-	43	44	40	39	40
4	Exit Velocity of Gas (m/sec.)	-	-	-	15.23	14.32	15.43	15.36	15.69
5	Flow Rate (Nm³/ sec.)	-	-	-	19.11	20.45	14.04	13.15	13.58
6	Concentration of PM (mg/Nm³)	-	-	-	13.35	17.21	15.42	13.64	14.55
7	Concentration of SO₂ (mg/Nm³)	-	-	-	-	-	-	-	-
8	Concentration of NOx (mg/Nm³)	-	-	-	-	-	-	-	-
9	Oxygen (O₂) (%)	-	-	-	10.1	10.8	10.5	9.8	9.9
E.	Remarks	The Plant is under shutdown except Packing Plant, Cement Mill, Roller Press, Primary Crusher, Secondary Crusher from 19/08/2025.							
Standard									
PM - 30 mg/Nm³			SO₂ - 1000 mg/Nm³			NOx - 600 mg/Nm³			
Particulate Matter (PM), Sulphur di-oxide (SO₂), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP)									
 Analysed by  Checked by  Verified By									

	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/2025-26/07				
Month - October'25				
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline	
			Limit	
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)	
14.10.2025	Coal Storage Section	820	2000	
14.10.2025	Limestone Storage Section	963	5000	
 Analyzed By  Checked by  Verified By				

	STAR CEMENT LIMITED Lumshnong, Meghalaya					Document No.	SCL/EHS/Env/F-03		
						Effective Date	01-05-2019		
	NOISE LEVEL MONITORING REPORT					Revision No.	04		
						Revision Date	01-01-2021		
Ref: SCL/ENV/NOISE/MONTHLY/2025-26/07						Date: 14.10.2025			
Month - October'25									
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	59.5	63.0	61.3	75	45.4	58.7	52.1	70
2	Raw Mill	47.1	61.2	54.2		44.1	56.4	50.3	
3	Raw Mill WF	47.9	62.5	55.2		44.6	57.8	51.2	
4	Coal Mill	50.6	60.6	55.6		45.1	54.7	49.9	
5	Cement Mill	56.5	62.8	59.7		44.2	59.5	51.9	
6	Cement Mill WF	56.8	60.7	58.8		46.5	56.9	51.7	
7	Primary Crusher (Dump Hopper)	54.2	59.1	56.7		44.8	55.3	50.1	
8	Primary Crusher (Near BC-1)	52.1	61.1	56.6		47.1	53.7	50.4	
9	Secondary Crusher	55.4	64.3	59.9		44.8	57.8	51.3	
B.	DG House								
1	Control Room	49.2	58.9	54.1	75	36.8	55.1	46.0	70
2	Office	50.0	54.9	52.5		40.0	49.2	44.6	
C.	Offices								
1	CCR	42.9	50.5	46.7	75	38.8	48.7	43.8	70
2	Meeting Room	40.0	49.7	44.9		34.5	43.8	39.2	
3	VP'S Room	40.6	42.9	41.8		34.1	36.3	35.2	
4	Inst. Shift Room	40.9	46.5	43.7		36.3	42.3	39.3	
5	Drawing Office	41.4	52.7	47.1		35.5	42.9	39.2	
6	QC Department								
	a) Chemical Lab	51.5	56.4	54.0		45.7	54.8	50.2	
	b) Physical Lab	53.9	60.4	57.2		44.7	56.2	50.5	
	c) Shift Lab	43.8	53.2	48.5		39.9	51.6	45.8	
	d) Sample Preparation Room	45.3	60.3	52.8		37.0	51.5	44.2	
D.	Residential								
1	Bachelor Hostel	42.6	46.4	44.5	55	31.7	40.0	35.9	45
2	HOD'S Quater's	40.5	45.2	42.9		32.4	41.7	37.1	
3	650 Quater's	37.8	44.9	41.4		29.6	42.0	35.8	
4	250 Quater's	38.6	43.2	40.9		30.0	39.6	34.8	
5	Hut	37.5	43.6	40.6		29.0	40.7	34.9	
E.	Dispensary	36.9	42.2	39.6		28.7	39.3	34.0	
 Analyzed by  Checked By  Verified By									

	STAR CEMENT LIMITED Lumshnong, Meghalaya				Reference No.	SCL/EHS/F-04
					Issue No.	1
	WATER TESTING REPORT- October'25				Date of Issue:	24.08.2013
					Revision No.	3
					Date of Rev.	01.06.2019

Reference No.: SCL/ENV/WATER/MONTHLY/2025-26/07				Date of sample collection: 01.10.2025	
				Date of Analysis: 01.10.2025 to 11.10.2025	

Sl.No.	Parameter	Unit	STP Inlet	STP Outlet	Standard Norms For Discharge of Environment Pollution according to Consent To Operate
1	pH	-	7.6	7.4	5.5 to 9.0
2	Temperature	° C	24	25	Shall not exceed 5.0°C above the receiving water temperature
3	Oil & Grease	mg/l	5.6	<3.0	10
4	Total Residual Chlorine	mg/l	<0.01	<0.01	1.0
5	Ammoniacal Nitrogen (as N)	mg/l	30	9.6	50
6	Total Kjeldahl Nitrogen (as NH3)	mg/l	64	20	100
7	Free Ammonia (NH3)	mg/l	0.9	<0.01	5.0
8	Suspended Solids	mg/l	70	26	100
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/l	18	10	30
10	Chemical Oxygen Demand	mg/l	184	42	250


Analysed By


Checked By


Verified By



STAR CEMENT LIMITED

Lumshnong, Meghalaya

WATER TESTING REPORT- October'25

Reference No.	SCL/EHS/F-04
Issue No.	1
Date of Issue:	24.08.2013
Revision No.	3
Date of Rev.	01.06.2019

Reference No.: SCL/ENV/WATER/MONTHLY/2025-26/07

Surface Water Analysis Results

Date of sample collection: 01.10.2025

Date of Analysis: 01.10.2025 to 11.10.2025

S.No.	Parameter	Unit	Umtyrngai Nallah		Umutha Nallah		Umso Nallah	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	-	7.5	7.4	7.4	7.6	7.5	7.5	7.8	7.7	7.6	7.5	7.6	7.5	6.5 - 8.5
2	Colour	Hazen	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	10
3	Odour	-	Unobjectionable												
4	Chloride	mg/L	16.2	20.5	18.1	18.4	20.8	19.4	18.7	18.2	19.8	19.6	18.0	18.4	250
5	Total Hardness as CaCO ₃	mg/L	84.5	102.4	118.5	102.4	99.8	95.1	89.9	92.8	105.9	82.8	112.2	86.3	300
6	Suspended Solids	mg/L	43.8	56.9	57.1	60.5	63.9	53.6	59.8	52.1	59.7	53.5	50.8	59.1	-
7	Total Dissolve Solids	mg/L	298.4	268.7	257.2	248.9	279.4	256.2	248.9	258.4	273.4	275.8	311.5	315.6	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	24.5	23.9	24.4	24.8	24.2	23.9	24.7	24.7	24.1	24.8	23.7	24.8	-
11	Conductivity	μS/cm	245.9	254.3	251.8	267.4	263.2	266.4	274.3	248.6	232.5	240.8	262.8	254.4	-
12	Flow	L / Min	1523.7	1678.4	863.4	945.2	564.3	9875.3	2296.7	93172.3	997.4	1024.5	1078.9	894.5	-

Shailendra Kumar
Analyzed by

K. Gaurav
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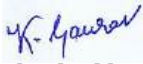
S. Singh
Verified by

	STAR CEMENT LIMITED LINE II Lumshnong, Meghalaya		Reference No.	SCL/Env/F – 01
			Issue No.	1
			Date of Issue:	24.08.2013
	AMBIENT AIR QUALITY MONITORING REPORT		Revision No.	5
			Date of Rev.	01.12.2020
Reference No.: SCL-II/ENV/AAQM/MONTHLY/2025-26/07			Month : October'25	
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)
03-10-2025	54.59	24.28	19.27	14.37
07-10-2025	Rainfall	Rainfall	Rainfall	Rainfall
10-10-2025	56.62	26.93	20.34	13.33
13-10-2025	55.21	29.11	17.27	13.57
16-10-2025	58.40	28.13	19.40	15.96
20-10-2025	60.53	26.21	18.49	11.63
23-10-2025	60.66	30.12	18.66	12.96
27-10-2025	59.59	26.90	17.89	14.28
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

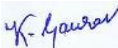
	STAR CEMENT LIMITED LINE II Lumshnong, Meghalaya		Reference No.	SCL/Env/F – 01
			Issue No.	1
	AMBIENT AIR QUALITY MONITORING REPORT		Date of Issue:	24.08.2013
			Revision No.	5
			Date of Rev.	01.12.2020
Reference No.: SCL-II/ENV/AAQM/MONTHLY/2025-26/07			Month : October'25	
Location of Sampling: Project 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)
03-10-2025	53.63	23.36	19.83	14.19
07-10-2025	Rainfall	Rainfall	Rainfall	Rainfall
10-10-2025	58.66	24.01	21.51	13.15
13-10-2025	57.25	26.19	18.44	13.39
16-10-2025	60.44	25.21	19.85	15.78
20-10-2025	60.55	23.29	19.66	11.45
23-10-2025	60.68	27.20	19.83	12.78
27-10-2025	59.61	22.97	19.06	14.10
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-II/ENV/AAQM/MONTHLY/2025-26/07			Month : October'25	
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)
03-10-2025	56.83	23.58	18.64	12.10
07-10-2025	Rainfall	Rainfall	Rainfall	Rainfall
10-10-2025	58.84	29.12	20.12	11.11
13-10-2025	59.66	27.45	19.57	10.04
16-10-2025	60.65	25.28	18.09	11.80
20-10-2025	58.45	27.65	17.74	12.54
23-10-2025	55.78	28.11	18.57	10.64
27-10-2025	58.67	26.32	17.66	11.56
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				

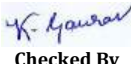
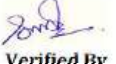
	STAR CEMENT LIMITED LINE II Lumshnong, Meghalaya		Reference No.	SCML/Env/F – 01
			Issue No.	1
			Date of Issue:	24.08.2013
	AMBIENT AIR QUALITY MONITORING REPORT		Revision No.	5
Date of Rev.			01.12.2020	
Reference No.: SCL-II/ENV/AAQM/MONTHLY/2025-26/07			Month : October'25	
Location of Sampling: Star Public School			GPS Coordinate: 25°10'27"N 92°23'08"E	
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)
03-10-2025	37.24	19.88	16.75	9.47
23-10-2025	35.87	18.43	15.68	10.09
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-02	
					Issue No.	1	
	STACK EMISSION MONITORING ANALYSIS REPORT				Date of Issue	01.05.2019	
					Revision No.	5	
Report No: SCL-II/ENV/STACK/MONTHLY/2025-26/07					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	
2	Stack Connected to	LS Crusher	Add Crusher	Kiln/Raw Mill	Coal Mill	Cooler	
3	Material of Construction (Stack/Duct)	Mild Steel	Mild Steel	Mild Steel	Mild Steel	Mild Steel	
4	Shape of duct	Circular	Circular	Circular	Circular	Circular	
5	Whether duct is provided with permanent platform & ladder	Yes	Yes	Yes	Yes	Yes	
B. Physical characteristic of stack							
1	Stack Height from ground level (meter)	30.5	12.5	162.0	77.0	60.0	
2	Duct diameter at sampling point (meter)	1.45	0.7	4.8	2.0	4.0	
3	Sampling height point from ground level (meter)	21.0	9.6	86	31.85	—	
4	Cross sectional area of Duct/Stack (m ²)	1.65	0.38	21.24	4.26	16.05	
C. Pollution Control Device							
1	Details of pollution control device attached to stack	Bag Filter	Bag Filter	Reverse Air Bag House	Bag Filter	ESP	
D. Result of Sampling & Analysis of Gaseous Emission							
1	Date of Sampling	13-10-2025	-	15-10-2025	15-10-2025	14-10-2025	
2	Ambient Temp (°C)	31	-	33	33	32	
3	Stack Gas Temp (°C)	37	-	147	69	140	
4	Exit Velocity of Gas (m/sec.)	15.98	-	16.54	15.08	15.47	
5	Flow Rate (Nm ³ / sec.)	17.96	-	181.45	30.12	45.98	
6	Concentration of PM (mg/Nm ³)	15.45	-	12.32	26.10	16.37	
7	Concentration of SO ₂ (mg/Nm ³)	-	-	476.9	-	-	
8	Concentration of NO _x (mg/Nm ³)	-	-	241.6	-	-	
9	Oxygen (O ₂) (%)	10.1	-	11.1	10.5	10.8	
E.	Remarks	The additive crusher is not in use between 01/10/2025 to 31/10/2025.					
Standard							
PM - 30 mg/Nm ³		SO ₂ - 1000 mg/Nm ³		NO _x - 600 mg/Nm ³			
<i>Particulate Matter (PM), Sulphur di-oxide (SO₂), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP), Limestone (LS), Additive (Add)</i>							
 Analysed by		 Checked by		 Verified By			

	STAR CEMENT LIMITED LINE-II 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-II/ENV/STACK/MONTHLY/2025-26/07					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	
2	Stack Connected to	LS Crusher	Add Crusher	Kiln/Raw Mill	Coal Mill	Cooler	
3	Material of Construction (Stack/Duct)	Mild Steel	Mild Steel	Mild Steel	Mild Steel	Mild Steel	
4	Shape of duct	Circular	Circular	Circular	Circular	Circular	
5	Whether duct is provided with permanent platform & ladder	Yes	Yes	Yes	Yes	Yes	
B. Physical characteristic of stack							
1	Stack Height from ground level (meter)	30.5	12.5	162.0	77.0	60.0	
2	Duct diameter at sampling point (meter)	1.45	0.7	4.8	2.0	4.0	
3	Sampling height point from ground level (meter)	21.0	9.6	86	31.85	—	
4	Cross sectional area of Duct/Stack (m ²)	1.65	0.38	21.24	4.26	16.05	
C. Pollution Control Device							
1	Details of pollution control device attached to stack	Bag Filter	Bag Filter	Reverse Air Bag House	Bag Filter	ESP	
D. Result of Sampling & Analysis of Gaseous Emission							
1	Date of Sampling	24-10-2025	-	23-10-2025	23-10-2025	22-10-2025	
2	Ambient Temp (°C)	28	-	31	31	30	
3	Stack Gas Temp (°C)	40	-	141	70	137	
4	Exit Velocity of Gas (m/sec.)	14.98	-	17.25	15.74	15.96	
5	Flow Rate (Nm ³ / sec.)	18.96	-	179.40	29.42	46.31	
6	Concentration of PM (mg/Nm ³)	14.71	-	13.53	25.91	14.02	
7	Concentration of SO ₂ (mg/Nm ³)	-	-	478.3	-	-	
8	Concentration of NO _x (mg/Nm ³)	-	-	249.7	-	-	
9	Oxygen (O ₂) (%)	10.2	-	10.9	10.8	10.4	
E.	Remarks	The additive crusher is not in use between 01/10/2025 to 31/10/2025.					
Standard							
PM - 30 mg/Nm ³		SO ₂ - 1000 mg/Nm ³		NO _x - 600 mg/Nm ³			
<i>Particulate Matter (PM), Sulphur di-oxide (SO₂), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP), Limestone (LS), Additive (Add)</i>							
 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/2025-26/07			
Month - October'25			
Date	Location	Fugitive Emission Results (in $\mu\text{g}/\text{m}^3$)	As per CPCB/BIS Guideline
			Limit (in $\mu\text{g}/\text{m}^3$)
10.10.2025	Coal Storage Section	1125	2000
10.10.2025	Limestone Storage Section	1341	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-II /ENV/NOISE/MONTHLY/2025-26/07									
Date: 10.10.2025									
Month - October'25									
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	66.2	67.3	66.8	75	48.3	52.3	50.3	70
2	Raw Mill	64.9	66.8	65.9		49.7	53.4	51.6	
3	Coal Mill	65.6	67.1	66.4		50.2	54.3	52.3	
4	Additive Crusher	63.5	64.8	64.2		50.3	59.8	55.1	
5	Primary Crusher	68.0	70.3	69.2		52.3	58.0	55.2	
6	Secondary Crusher	65.7	68.4	67.1		53.0	58.7	55.9	
C.	Residential								
1	Line II colony	42.5	44.9	43.7	55	30.8	33.6	32.2	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
					Revision No.	3
	WATER TESTING REPORT- October'25				Date of Rev.	01.06.2019
Reference No.: SCL-II/ENV/WATER/MONTHLY/2025-26/07					Date of sample collection: 01.10.2025	
					Date of Analysis: 01.10.2025 to 11.10.2025	
Sl.No.	Parameter	Unit	STP Inlet	STP Outlet	Standard Norms For Discharge of Environment Pollution according to Consent To Operate	
1	pH	-	7.6	7.4	5.5 to 9.0	
2	Temperature	° C	24	25	Shall not exceed 5.0°C above the receiving water temperature	
3	Oil & Grease	mg/l	5.6	<3.0	10	
4	Total Residual Chlorine	mg/l	<0.01	<0.01	1.0	
5	Ammoniacal Nitrogen (as N)	mg/l	30	9.6	50	
6	Total Kjeldahl Nitrogen (as NH3)	mg/l	64	20	100	
7	Free Ammonia (NH3)	mg/l	0.9	<0.01	5.0	
8	Suspended Solids	mg/l	70	26	100	
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/l	18	10	30	
10	Chemical Oxygen Demand	mg/l	184	42	250	
 Analysed By  Checked By  Verified By						



STAR CEMENT LIMITED LINE-II

Lumshnong, Meghalaya

WATER TESTING REPORT- October'25

Reference No.	SCL/EHS/F-04
Issue No.	1
Date of Issue:	24.08.2013
Revision No.	3
Date of Rev.	01.06.2019

Reference No.: SCL-II/ENV/WATER/MONTHLY/2025-26/07

Surface Water Analysis Results

Date of sample collection: 01.10.2025

Date of Analysis: 01.10.2025 to 11.10.2025

S.No.	Parameter	Unit	Umtyrngai Nallah		Umutha Nallah		Umso Nallah	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	-	7.5	7.4	7.4	7.6	7.5	7.5	7.8	7.7	7.6	7.5	7.6	7.5	6.5 - 8.5
2	Colour	Hazen	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	10
3	Odour	-	Unobjectionable												
4	Chloride	mg/L	16.2	20.5	18.1	18.4	20.8	19.4	18.7	18.2	19.8	19.6	18.0	18.4	250
5	Total Hardness as CaCO ₃	mg/L	84.5	102.4	118.5	102.4	99.8	95.1	89.9	92.8	105.9	82.8	112.2	86.3	300
6	Suspended Solids	mg/L	43.8	56.9	57.1	60.5	63.9	53.6	59.8	52.1	59.7	53.5	50.8	59.1	-
7	Total Dissolve Solids	mg/L	298.4	268.7	257.2	248.9	279.4	256.2	248.9	258.4	273.4	275.8	311.5	315.6	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	24.5	23.9	24.4	24.8	24.2	23.9	24.7	24.7	24.1	24.8	23.7	24.8	-
11	Conductivity	μS/cm	245.9	254.3	251.8	267.4	263.2	266.4	274.3	248.6	232.5	240.8	262.8	254.4	-
12	Flow	L / Min	1523.7	1678.4	863.4	945.2	564.3	9875.3	2296.7	93172.3	997.4	1024.5	1078.9	894.5	-

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K. Gaurav
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