



Ref: SCL/EHS/LUMS/2025-26/65

Dated: 09/10/2025

To,

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

Subject : Submission of Environmental Monitoring Report for the month of September, 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 **September, 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, Khaliéhriat, 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 | W : www.starcement.co.in



STAR CEMENT LIMITED

Lumshnong, Meghalaya

Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)
01.09.2025	949.6	90.7	32.8	0.0
02.09.2025	951.7	99.1	30.4	0.0
03.09.2025	950.4	98.2	29.7	0.0
04.09.2025	949.3	99.0	28.3	0.8
05.09.2025	951.1	98.1	29.5	0.0
06.09.2025	950.4	97.2	30.1	0.0
07.09.2025	949.1	98.4	27.4	0.0
08.09.2025	952.3	95.7	28.1	0.0
09.09.2025	950.5	98.4	28.4	4.4
10.09.2025	951.2	94.7	29.2	2.8
11.09.2025	949.2	96.9	27.3	0.0
12.09.2025	950.9	94.8	26.1	7.2
13.09.2025	952.7	96.3	24.2	60.0
14.09.2025	951.3	96.5	23.4	46.0
15.09.2025	948.9	89.7	24.3	60.0
16.09.2025	950.9	93.8	26.3	25.7
17.09.2025	952.8	89.6	25.9	0.0
18.09.2025	947.5	78.5	27.8	19.6
19.09.2025	948.9	90.4	26.2	0.0
20.09.2025	951.8	91.9	27.1	0.0
21.09.2025	952.2	93.8	27.9	0.0
22.09.2025	948.9	89.5	27.2	0.0
23.09.2025	952.5	94.9	26.9	0.0
24.09.2025	949.3	88.5	27.3	0.0
25.09.2025	950.2	94.9	28.2	0.0
26.09.2025	949.5	93.8	30.9	0.0
27.09.2025	951.7	93.5	30.2	0.0
28.09.2025	948.8	97.6	29.9	0.0
29.09.2025	951.7	97.1	30.1	0.0
30.09.2025	950.6	95.7	25.6	0.0
			Total	226.5

	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/2025-26/06			Month : September'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)
02-09-2025	40.45	23.42	17.57	16.97
05-09-2025	43.00	25.31	17.63	15.13
08-09-2025	43.45	25.45	17.25	16.88
12-09-2025	41.05	23.43	17.00	15.50
15-09-2025	Rainfall	Rainfall	Rainfall	Rainfall
18-09-2025	Rainfall	Rainfall	Rainfall	Rainfall
22-09-2025	43.58	24.26	18.25	15.90
26-09-2025	41.54	22.81	16.97	14.71
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/2025-26/06			Month : September'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)
02-09-2025	52.51	25.27	18.16	17.02
05-09-2025	51.33	26.56	19.18	17.35
08-09-2025	53.56	22.50	19.64	15.02
12-09-2025	48.73	23.04	19.09	18.13
15-09-2025	Rainfall	Rainfall	Rainfall	Rainfall
18-09-2025	Rainfall	Rainfall	Rainfall	Rainfall
22-09-2025	52.64	23.23	19.82	15.01
26-09-2025	50.73	22.31	19.76	16.88
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/2025-26/06			Month : September'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)
02-09-2025	59.28	26.80	19.02	16.19
05-09-2025	55.35	27.46	19.55	16.43
08-09-2025	53.41	25.49	19.09	17.33
12-09-2025	58.42	24.54	18.93	15.40
15-09-2025	Rainfall	Rainfall	Rainfall	Rainfall
18-09-2025	Rainfall	Rainfall	Rainfall	Rainfall
22-09-2025	57.42	29.51	22.48	17.43
26-09-2025	60.38	29.54	20.35	16.68
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 /2025-26/05			Month : September'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)
10-09-2025	33.78	18.66	13.96	11.78
25-09-2025	35.42	16.40	13.71	11.63
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/2025-26/06						Month: September'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	-	-	-	04-09-2025	04-09-2025	03-09-2025	02-09-2025	02-09-2025
2	Ambient Temp (°C)	-	-	-	29	29	30	31	31
3	Stack Gas Temp (°C)	-	-	-	43	45	37	38	38
4	Exit Velocity of Gas (m/sec.)	-	-	-	15.01	15.44	14.98	15.12	13.24
5	Flow Rate (Nm³/ sec.)	-	-	-	19.87	22.53	13.03	12.65	12.10
6	Concentration of PM (mg/Nm³)	-	-	-	11.23	15.04	15.87	14.69	15.35
7	Concentration of SO₂ (mg/Nm³)	-	-	-	-	-	-	-	-
8	Concentration of NOx (mg/Nm³)	-	-	-	-	-	-	-	-
9	Oxygen (O₂) (%)	-	-	-	10.2	10.4	10.0	10.3	10.2
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/2025-26/06						Month: September'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	-	-	-	17-09-2025	17-09-2025	18-09-2025	19-09-2025	19-09-2025
2	Ambient Temp (°C)	-	-	-	26	27	29	28	28
3	Stack Gas Temp (°C)	-	-	-	40	42	39	38	38
4	Exit Velocity of Gas (m/sec.)	-	-	-	16.02	14.83	14.70	15.06	13.47
5	Flow Rate (Nm³/ sec.)	-	-	-	19.84	21.22	12.90	13.91	12.25
6	Concentration of PM (mg/Nm³)	-	-	-	9.74	11.20	16.88	15.10	15.97
7	Concentration of SO₂ (mg/Nm³)	-	-	-	-	-	-	-	-
8	Concentration of NOx (mg/Nm³)	-	-	-	-	-	-	-	-
9	Oxygen (O₂) (%)	-	-	-	10.4	10.3	9.9	10.2	10.0
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 Solid Setting	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/2025-26/06				
Month - September'25				
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline	
			Limit	
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)	
05.09.2025	Coal Storage Section	802	2000	
05.09.2025	Limestone Storage Section	1056	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/2025-26/06 Date: 05.09.2025									
Month - September'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	58.3	63.4	60.9	75	44.0	60.9	52.5	70
2	Raw Mill	45.9	61.6	53.8		42.7	58.6	50.7	
3	Raw Mill WF	46.7	62.9	54.8		43.2	60.0	51.6	
4	Coal Mill	49.4	61.0	55.2		43.7	56.9	50.3	
5	Cement Mill	55.3	63.2	59.3		42.8	61.7	52.3	
6	Cement Mill WF	55.6	61.1	58.4		45.1	59.1	52.1	
7	Primary Crusher (Dump Hopper)	53.0	59.5	56.3		43.4	57.5	50.5	
8	Primary Crusher (Near BC-1)	50.9	61.5	56.2		45.7	55.9	50.8	
9	Secondary Crusher	54.2	64.7	59.5		43.4	60.0	51.7	
B.	DG House								
1	Control Room	49.8	58.9	54.4	75	37.3	53.2	45.3	70
2	Office	50.6	54.9	52.8		40.5	47.3	43.9	
C.	Offices								
1	CCR	43.5	50.5	47.0	75	39.3	49.1	44.2	70
2	Meeting Room	40.6	49.7	45.2		35.0	44.2	39.6	
3	VP'S Room	39.7	42.9	41.3		34.6	36.7	35.7	
4	Inst. Shift Room	41.5	46.5	44.0		36.8	42.7	39.8	
5	Drawing Office	42.0	52.7	47.4		36.0	48.6	42.3	
6	QC Department								
	a) Chemical Lab	52.1	56.4	54.3		46.2	52.9	49.5	
	b) Physical Lab	51.3	60.4	55.9		45.2	54.3	49.8	
	c) Shift Lab	44.4	53.2	48.8		40.4	49.7	45.1	
	d) Sample Preparation Room	45.9	60.3	53.1		37.5	49.6	43.5	
D.	Residential								
1	Bachelor Hostel	43.2	46.4	44.8	55	32.2	41.5	36.9	45
2	HOD'S Quater's	41.1	45.2	43.2		32.9	43.2	38.1	
3	650 Quater's	38.4	44.9	41.7		30.1	43.5	36.8	
4	250 Quater's	39.2	43.2	41.2		30.5	41.8	36.2	
5	Hut	38.1	43.6	40.9		29.5	42.2	35.9	
E.	Dispensary	37.5	42.2	39.9		29.2	40.8	35.0	
 Analyzed by  Checked By  Verified By									

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

Reference No.: SCL/ENV/WATER/MONTHLY/2025-26/06				Date of sample collection: 01.09.2025	
				Date of Analysis: 01.09.2025 to 07.09.2025	

Sl.No.	Parameter	Unit	STP Inlet	STP Outlet	Standard Norms For Discharge of Environment Pollution according to Consent To Operate
1	pH	-	7.9	7.3	5.5 to 9.0
2	Temperature	° C	25	24	Shall not exceed 5.0°C above the receiving water temperature
3	Oil & Grease	mg/l	5.1	<3.0	10
4	Total Residual Chlorine	mg/l	<0.01	<0.01	1.0
5	Ammoniacal Nitrogen (as N)	mg/l	28	10.4	50
6	Total Kjeldahl Nitrogen (as NH3)	mg/l	62	23	100
7	Free Ammonia (NH3)	mg/l	1.1	<0.01	5.0
8	Suspended Solids	mg/l	68	22	100
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/l	17	9	30
10	Chemical Oxygen Demand	mg/l	176	48	250


Analysed By


Checked By


Verified By



STAR CEMENT LIMITED

Lumshnong, Meghalaya

WATER TESTING REPORT- September'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/2025-26/06

Surface Water Analysis Results

Date of sample collection: 01.09.2025

Date of Analysis: 01.09.2025 to 07.09.2025

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	-	7.9	7.8	7.5	7.8	7.6	7.3	7.7	7.6	7.8	7.9	7.5	7.6	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	17.4	18.9	19.1	18.8	20.1	19.8	19.2	18.7	20.0	19.2	18.4	19.9	250
5	Total Hardness as CaCO ₃	mg/L	80.4	100.8	120.4	98.8	100.2	96.4	88.2	92.6	102.2	86.4	110.8	84.4	300
6	Suspended Solids	mg/L	42.9	53.7	50.6	49.7	54.2	50.0	49.5	48.1	53.8	54.2	52.5	58.7	-
7	Total Dissolve Solids	mg/L	304.5	289.7	279.8	298.9	300.4	289.7	279.8	266.5	282.8	278.4	302.9	321.8	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	27.3	26.7	25.5	26.4	27.0	27.1	26.9	27.2	26.4	25.9	26.2	26.4	-
11	Conductivity	µS/cm	281.8	278.4	269.2	304.7	297.5	278.1	278.3	253.8	245.2	238.5	271.1	268.3	-
12	Flow	L / Min	1814.4	2158.4	1003.7	1211.5	1298.4	9914.2	2248.9	93274.3	1000.2	1215.8	1123.4	1098.3	-

Shailendra Kumar
Analyzed by

Y.K. Gaurav
Checked by

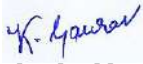
Sanjay
Verified by

	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/2025-26/06			Month : September'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)
03-09-2025	51.11	25.43	18.12	16.37
06-09-2025	56.84	26.07	19.98	17.63
09-09-2025	53.14	24.08	19.19	15.33
13-09-2025	Rainfall	Rainfall	Rainfall	Rainfall
16-09-2025	Rainfall	Rainfall	Rainfall	Rainfall
20-09-2025	57.27	23.36	17.42	16.29
23-09-2025	57.18	27.27	17.51	15.87
27-09-2025	56.11	24.05	17.09	16.19
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

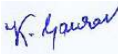
	STAR CEMENT LIMITED LINE II Lumshnong, Meghalaya		Reference No.	SCL/Env/F – 01
			Issue No.	1
	AMBIENT AIR QUALITY MONITORING REPORT		Date of Issue:	24.08.2013
			Revision No.	5
			Date of Rev.	01.12.2020
Reference No.: SCL-II/ENV/AAQM/MONTHLY/2025-26/06			Month : September'25	
Location of Sampling: 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)
03-09-2025	48.19	21.77	18.20	16.21
06-09-2025	53.92	22.41	17.57	16.53
09-09-2025	50.22	20.42	19.89	17.51
13-09-2025	Rainfall	Rainfall	Rainfall	Rainfall
16-09-2025	Rainfall	Rainfall	Rainfall	Rainfall
20-09-2025	54.13	19.70	18.04	16.09
23-09-2025	53.60	20.61	18.21	16.98
27-09-2025	53.19	21.38	19.44	16.12
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/2025-26/06			Month : September'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)
03-09-2025	51.01	25.90	17.23	12.66
06-09-2025	48.87	26.78	18.25	13.70
09-09-2025	53.92	27.44	18.71	11.67
13-09-2025	Rainfall	Rainfall	Rainfall	Rainfall
16-09-2025	Rainfall	Rainfall	Rainfall	Rainfall
20-09-2025	53.51	25.97	16.33	10.71
23-09-2025	50.84	26.43	17.16	10.69
27-09-2025	53.14	24.64	16.25	12.60
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

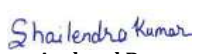
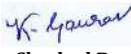
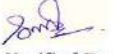
	STAR CEMENT LIMITED LINE II Lumshnong, Meghalaya		Reference No.	SCML/Env/F – 01
			Issue No.	1
			Date of Issue:	24.08.2013
	AMBIENT AIR QUALITY MONITORING REPORT		Revision No.	5
Date of Rev.			01.12.2020	
Reference No.: SCL-II/ENV/AAQM/MONTHLY/2025-26/06			Month : September'25	
Location of Sampling: 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)
03-09-2025	35.42	20.12	15.32	10.58
19-08-2025	32.93	18.67	14.02	9.21
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/2025-26/06				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	12-09-2025	-	11-09-2025	13-09-2025	10-09-2025
2	Ambient Temp (°C)	27	-	28	25	30
3	Stack Gas Temp (°C)	38	-	140	65	138
4	Exit Velocity of Gas (m/sec.)	16.42	-	16.98	14.72	14.93
5	Flow Rate (Nm ³ / sec.)	18.83	-	183.02	29.74	48.25
6	Concentration of PM (mg/Nm ³)	14.99	-	11.32	25.07	13.24
7	Concentration of SO ₂ (mg/Nm ³)	-	-	473.1	-	-
8	Concentration of NO _x (mg/Nm ³)	-	-	256.7	-	-
9	Oxygen (O ₂) (%)	10.2	-	10.8	10.9	10.9
E.	Remarks	The additive crusher is not in use between 01/09/2025 to 15/09/2025.				
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/2025-26/06				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	24-09-2025	24-09-2025	25-09-2025	25-09-2025	26-09-2025
2	Ambient Temp (°C)	29	29	30	30	31
3	Stack Gas Temp (°C)	39	38	138	64	136
4	Exit Velocity of Gas (m/sec.)	15.96	13.77	15.86	14.03	14.72
5	Flow Rate (Nm ³ / sec.)	18.54	14.52	175.85	28.42	48.36
6	Concentration of PM (mg/Nm ³)	15.86	14.81	11.04	24.12	12.87
7	Concentration of SO ₂ (mg/Nm ³)	-	-	482.9	-	-
8	Concentration of NO _x (mg/Nm ³)	-	-	246.6	-	-
9	Oxygen (O ₂) (%)	10.1	10.2	11.1	10.7	10.8
E. Remarks						
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/2025-26/06				
Month - September'25				
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline	
			Limit	
		(in $\mu\text{g}/\text{m}^3$)		(in $\mu\text{g}/\text{m}^3$)
20.09.2025	Coal Storage Section	985	2000	
20.09.2025	Limestone Storage Section	1263	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/2025-26/06 Date: 09.09.2025									
Month - September'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	61.8	64.6	63.2	75	49.1	51.7	50.4	70
2	Raw Mill	60.5	64.1	62.3		50.5	52.8	51.7	
3	Coal Mill	61.2	64.5	62.9		51.0	53.7	52.4	
4	Additive Crusher	59.1	62.2	60.7		50.6	59.2	54.9	
5	Primary Crusher	63.6	67.7	65.7		50.0	57.4	53.7	
6	Secondary Crusher	61.3	65.8	63.6		51.2	58.1	54.7	
C.	Residential								
1	Line II colony	41.6	44.0	42.8	55	32.7	34.9	33.8	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- September'25				Date of Rev.	01.06.2019
Reference No.: SCL-II/ENV/WATER/MONTHLY/2025-26/06					Date of sample collection: 01.09.2025	
					Date of Analysis: 01.09.2025 to 07.09.2025	
Sl.No.	Parameter	Unit	STP Inlet	STP Outlet	Standard Norms For Discharge of Environment Pollution according to Consent To Operate	
1	pH	-	7.9	7.3	5.5 to 9.0	
2	Temperature	° C	25	24	Shall not exceed 5.0°C above the receiving water temperature	
3	Oil & Grease	mg/l	5.1	<3.0	10	
4	Total Residual Chlorine	mg/l	<0.01	<0.01	1.0	
5	Ammoniacal Nitrogen (as N)	mg/l	28	10.4	50	
6	Total Kjeldahl Nitrogen (as NH3)	mg/l	62	23	100	
7	Free Ammonia (NH3)	mg/l	1.1	<0.01	5.0	
8	Suspended Solids	mg/l	68	22	100	
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/l	17	9	30	
10	Chemical Oxygen Demand	mg/l	176	48	250	
 Analysed By  Checked By  Verified By						



STAR CEMENT LIMITED LINE-II

Lumshnong, Meghalaya

WATER TESTING REPORT- September'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/2025-26/06

Surface Water Analysis Results

Date of sample collection: 01.09.2025

Date of Analysis: 01.09.2025 to 07.09.2025

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	-	7.9	7.8	7.5	7.8	7.6	7.3	7.7	7.6	7.8	7.9	7.5	7.6	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	17.4	18.9	19.1	18.8	20.1	19.8	19.2	18.7	20.0	19.2	18.4	19.9	250
5	Total Hardness as CaCO ₃	mg/L	80.4	100.8	120.4	98.8	100.2	96.4	88.2	92.6	102.2	86.4	110.8	84.4	300
6	Suspended Solids	mg/L	42.9	53.7	50.6	49.7	54.2	50.0	49.5	48.1	53.8	54.2	52.5	58.7	-
7	Total Dissolve Solids	mg/L	304.5	289.7	279.8	298.9	300.4	289.7	279.8	266.5	282.8	278.4	302.9	321.8	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	27.3	26.7	25.5	26.4	27.0	27.1	26.9	27.2	26.4	25.9	26.2	26.4	-
11	Conductivity	μS/cm	281.8	278.4	269.2	304.7	297.5	278.1	278.3	253.8	245.2	238.5	271.1	268.3	-
12	Flow	L / Min	1814.4	2158.4	1003.7	1211.5	1298.4	9914.2	2248.9	93274.3	1000.2	1215.8	1123.4	1098.3	-

Shailendra Kumar
Analyzed by

Y. Gaurav
Checked by

Y. Gaurav
Verified by