



Ref: SCL/EHS/LUMS/2025-26/137

Dated: 25/03/2026

To,

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

Subject : Submission of Environmental Monitoring Report for the month of February 2026.

Reference : MPCB/ONLINE-RCTO(R-1) EJHD/2021/2025-2026/117 , Dated Shillong, the 14thJan, 2026.

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 & Wastewater (STP) monitoring reports of **Star Cement Limited (Line-I & Line-II)** for the month of **February 2026**.

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 | ☎ : 03655-278215/16/18 | ✉ : lumshnong@starcement.co.in
Corp. Off.: Century House, 2nd Floor, P-15/1, Taratala Main Road, CPT Colony, Kolkata, West Bengal - 700088 | ✉ : kolkata@starcement.co.in

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

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



STAR CEMENT LIMITED

Lumshnong, Meghalaya

Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)
01-02-2026	997.5	57.2	22.5	0.0
02-02-2026	1004.8	69.6	21.2	0.0
03-02-2026	1000.1	83.2	18.0	0.0
04-02-2026	994.3	73.8	17.8	0.0
05-02-2026	993.9	80.0	17.5	0.0
06-02-2026	996.4	69.4	20.2	0.0
07-02-2026	992.0	54.8	20.0	0.0
08-02-2026	983.7	67.2	18.5	0.0
09-02-2026	980.9	80.8	15.7	0.0
10-02-2026	995.7	71.4	14.5	0.0
11-02-2026	993.6	77.6	14.6	0.0
12-02-2026	983.0	67.0	20.1	0.0
13-02-2026	982.4	81.2	16.9	0.0
14-02-2026	983.1	70.2	20.6	0.0
15-02-2026	983.4	69.8	20.4	0.0
16-02-2026	985.1	84.3	16.0	0.0
17-02-2026	990.8	61.5	21.8	0.0
18-02-2026	985.2	52.5	22.6	0.0
19-02-2026	1001.5	67.7	17.7	0.0
20-02-2026	992.8	63.2	18.8	0.0
21-02-2026	1003.3	66.9	17.1	0.0
22-02-2026	1007.8	65.5	22.5	0.0
23-02-2026	1001.5	79.2	18.0	0.0
24-02-2026	981.2	77.3	18.3	0.0
25-02-2026	1011.6	75.8	18.7	0.0
26-02-2026	1008.9	65.0	21.6	0.0
27-02-2026	995.1	67.2	21.2	0.0
28-02-2026	997.2	68.8	20.8	0.0
			Total	0.0



STAR CEMENT LIMITED
Lumshnong, Meghalaya

AMBIENT AIR QUALITY MONITORING REPORT

Reference No.	SCL/Env/F – 01
Issue No.	1
Date of Issue:	24.08.2013
Revision No.	5
Date of Rev.	01.12.2020

Reference No.: SCL/ENV/AAQM/MONTHLY/2025-26/11 Month : February'26

Location of Sampling: Star Public School GPS Coordinate: 25°10'27.46"N 92°23.8'65"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)
03-02-2026	38.04	21.85	16.19	13.45
06-02-2026	40.59	21.74	16.25	11.61
09-02-2026	41.04	20.88	15.87	13.36
13-02-2026	38.64	19.86	15.62	11.98
16-02-2026	39.64	18.74	15.43	13.38
20-02-2026	39.28	21.58	14.28	10.88
23-02-2026	36.42	20.69	16.87	12.38
26-02-2026	34.38	21.24	15.59	11.19
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m³)	60 (µg/m³)	80 (µg/m³)	80 (µg/m³)

Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.

Shailendra Kumar





Analysed by





[Signature]





Checked by





[Signature]

Verified By

	STAR CEMENT LIMITED			Reference No.	SCL/Env/F – 01
	Lumshnong, Meghalaya			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/2025-26/11				Month : February'26	
Location of Sampling: Nearby Guest House			GPS Coordinate: 25°10'35.63"N 92°23'14.70"E		
Sampling Duration:	24 Hrs.	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)	
03-02-2026	43.23	22.28	17.81	14.48	
06-02-2026	42.05	23.57	18.83	14.81	
09-02-2026	44.28	19.51	19.29	12.48	
13-02-2026	39.45	20.05	18.74	15.59	
16-02-2026	45.60	22.14	17.26	15.15	
20-02-2026	45.23	20.27	15.58	16.01	
23-02-2026	43.36	20.24	19.47	12.47	
26-02-2026	41.45	19.32	17.55	14.34	
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)	
<p>Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.</p>					
 Analysed by		 Checked by		 Verified by	

	STAR CEMENT LIMITED			Reference No.	SCL/Env/F – 01
	Lumshnong, Meghalaya			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/2025-26/11				Month : February'26	
Location of Sampling: STP			GPS Coordinate: 25°10'49.59"N 92°23'58.49"E		
Sampling Duration:	24 Hrs.	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)	
03-02-2026	48.91	23.20	15.02	11.95	
06-02-2026	44.98	23.86	15.06	12.19	
09-02-2026	43.04	21.89	15.68	13.09	
13-02-2026	48.05	20.94	14.99	11.16	
16-02-2026	48.64	23.86	15.71	10.29	
20-02-2026	46.00	24.61	13.76	11.93	
23-02-2026	47.05	25.91	15.48	13.19	
26-02-2026	50.01	25.94	16.35	12.44	
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)	
<p>Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.</p>					
 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 /2025-26/10				Month : February'26	
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.	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)	
05-02-2026	35.03	15.94	15.16	13.78	
19-02-2026	33.42	17.98	15.89	12.43	
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/2025-26/11				Month : February'26	
Location of Sampling: Near AFR			GPS Coordinate: 25°10'22.31"N 92°23'25.28"E		
Sampling Duration:	24 Hrs.	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)	
03-02-2026	45.56	23.19	19.02	15.52	
06-02-2026	51.29	23.83	17.77	16.78	
09-02-2026	47.59	21.84	18.09	14.48	
13-02-2026	46.18	24.02	17.02	13.72	
16-02-2026	49.37	23.04	19.15	14.11	
20-02-2026	51.50	21.12	18.24	12.78	
23-02-2026	51.63	25.03	18.41	14.11	
26-02-2026	50.56	21.81	17.64	15.43	
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

STACK EMISSION MONITORING ANALYSIS REPORT

Reference No.	SCL/Env/F-02
Issue No.	1
Date of Issue	01.05.2019
Revision No.	5
Date of Rev.	01.06.2021

Report No: SCL/ENV/STACK/MONTHLY/2025-26/11

Month: February'26

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	-	-	-	13-02-2026	13-02-2026	14-02-2026	12-02-2026	12-02-2026
2	Ambient Temp (°C)	-	-	-	28	28	27	28	28
3	Stack Gas Temp (°C)	-	-	-	46	42	41	45	46
4	Exit Velocity of Gas (m/sec.)	-	-	-	10.59	11.85	12.87	10.67	9.98
5	Flow Rate (Nm ³ / sec.)	-	-	-	10.59	10.98	9.86	9.45	8.71
6	Quantity of Emission (Nm ³ / Hr)	-	-	-	38124	39528	35496	34020	31356
7	Concentration of PM (mg/Nm ³)	-	-	-	11.32	16.30	15.98	13.50	13.67
8	Concentration of SO ₂ (mg/Nm ³)	-	-	-	-	-	-	-	-
9	Concentration of NO _x (mg/Nm ³)	-	-	-	-	-	-	-	-
10	Oxygen (O ₂) (%)	-	-	-	9.7	9.9	10.1	10.0	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/Nm ³			SO ₂ - 1000 mg/Nm ³			NO _x - 600 mg/Nm ³			
Particulate Matter (PM), Sulphur di-oxide (SO ₂), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP)									
Shailendra Kumar Analysed by			[Signature] Checked by			[Signature] Verified By			



STAR CEMENT LIMITED

Lumshnong, Meghalaya

STACK EMISSION MONITORING ANALYSIS REPORT

Reference No.	SCL/Env/F-02
Issue No.	1
Date of Issue	01.05.2019
Revision No.	5
Date of Rev.	01.06.2021

Report No: SCL/ENV/STACK/MONTHLY/2025-26/11

Month: February'26

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
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D. Result of Sampling & Analysis of Gaseous Emission

1	Date of Sampling	-	-	-	21-02-2026	21-02-2026	23-02-2026	24-02-2026	24-02-2026
2	Ambient Temp (°C)	-	-	-	26	26	28	30	30
3	Stack Gas Temp (°C)	-	-	-	43	45	41	40	40
4	Exit Velocity of Gas (m/sec.)	-	-	-	11.98	12.05	12.14	9.95	9.11
5	Flow Rate (Nm ³ / sec.)	-	-	-	11.59	11.98	9.26	9.02	8.03
6	Quantity of Emission (Nm ³ / Hr)	-	-	-	41724	43128	33336	32472	28908
7	Concentration of PM (mg/Nm ³)	-	-	-	11.85	16.24	14.21	13.91	12.89
8	Concentration of SO ₂ (mg/Nm ³)	-	-	-	-	-	-	-	-
9	Concentration of NO _x (mg/Nm ³)	-	-	-	-	-	-	-	-
10	Oxygen (O ₂) (%)	-	-	-	9.9	9.5	9.2	10.0	9.7

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





NO_x - 600 mg/Nm³

Particulate Matter (PM), Sulphur di-oxide (SO₂), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP)

Shailendra Kumar
Analysed by

Checked by

Verified By

	STAR CEMENT LIMITED Lumshnong, Meghalaya	Document No.	SCL/EHS/Env/F-04
		Date of Issued	01-05-2019
	FUGITIVE EMISSION MONITORING REPORT	Revision No.	2
		Revision Date	01-01-2021
Ref: SCL/ENV/FUGITIVE/MONTHLY/2025-26/11			
Month - February'26			
Date	Location	Fugitive Emission Results (in $\mu\text{g}/\text{m}^3$)	As per CPCB/BIS Guideline
			Limit (in $\mu\text{g}/\text{m}^3$)
09.02.2026	Coal Storage Section	841	2000
09.02.2026	Limestone Storage Section	1206	5000
<div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  Analyzed By </div> <div style="text-align: center;">  Checked by </div> <div style="text-align: center;">  Verified By </div> </div>			



STAR CEMENT LIMITED

Lumshnong, Meghalaya

NOISE LEVEL MONITORING REPORT

Document No.	SCL/EHS/Env/F-03
Effective Date	01-05-2019
Revision No.	04
Revision Date	01-01-2021

Ref: SCL/ENV/NOISE/MONTHLY/2025-26/11

Date:09.02.2026

Month -February'26

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	61.7	63.9	62.8	75	46.6	59.2	52.9	70
2	Raw Mill	49.3	62.1	55.7		45.3	56.9	51.1	
3	Raw Mill WF	50.1	63.4	56.8		45.8	58.3	52.1	
4	Coal Mill	52.8	61.5	57.2		46.3	55.2	50.8	
5	Cement Mill	58.7	63.7	61.2		45.4	60.0	52.7	
6	Cement Mill WF	59.0	61.6	60.3		47.7	57.4	52.6	
7	Primary Crusher (Dump Hopper)	56.4	60.0	58.2		46.0	55.8	50.9	
8	Primary Crusher (Near BC-1)	54.3	62.0	58.2		48.3	54.2	51.3	
9	Secondary Crusher	57.6	65.2	61.4		46.0	58.3	52.2	
B. DG House									
1	Control Room	48.8	61.3	55.1	75	37.8	55.1	46.5	70
2	Office	49.6	57.3	53.5		41.0	49.2	45.1	
C. Offices									
1	CCR	42.5	52.9	47.7	75	39.8	50.1	45.0	70
2	Meeting Room	39.6	52.1	45.9		35.5	45.2	40.4	
3	VP'S Room	41.5	45.3	43.4		35.1	37.7	36.4	
4	Inst. Shift Room	40.5	48.9	44.7		37.3	43.7	40.5	
5	Drawing Office	41.0	55.1	48.1		36.5	44.3	40.4	
6	QC Department								
	a) Chemical Lab	51.1	58.8	55.0		46.7	48.6	47.6	
	b) Physical Lab	53.5	62.8	58.2		45.7	50.0	47.9	
	c) Shift Lab	43.4	55.6	49.5		40.9	45.4	43.2	
	d) Sample Preparation Room	44.9	62.7	53.8		38.0	45.3	41.6	
D. Residential									
1	Bachelor Hostel	42.2	48.8	45.5	55	32.7	37.2	35.0	45
2	HOD'S Quater's	40.1	47.6	43.9		33.4	38.9	36.2	
3	650 Quater's	37.4	47.3	42.4		30.6	39.2	34.9	
4	250 Quater's	38.2	45.6	41.9		31.0	37.5	34.3	
5	Hut	37.1	46.0	41.6		30.0	37.9	34.0	
E.	Dispensary	36.5	44.6	40.6		29.7	36.5	33.1	

Shaulendra Kumar
Analyzed by

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STAR CEMENT LIMITED
Lumshnong, Meghalaya

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

WATER TESTING REPORT- February'26

Reference No.: SCL/ENV/WATER/MONTHLY/2025-26/11

Date of sample collection: 02.02.2026

Date of Analysis: 02.02.2026 to 09.02.2026

Sl.No.	Parameter	Unit	STP Inlet	STP Outlet	Standard Norms For Discharge of Environment Pollution according to Consent To Operate
1	pH	-	7.6	8.3	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	4.5	<3.0	10
4	Total Residual Chlorine	mg/l	<0.01	<0.01	1.0
5	Ammoniacal Nitrogen (as N)	mg/l	18	6.9	50
6	Total Kjeldahl Nitrogen (as N)	mg/l	34	14	100
7	Free Ammonia (NH3)	mg/l	2.7	<0.01	5.0
8	Suspended Solids	mg/l	95	22	100
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/l	27	13	30
10	Chemical Oxygen Demand	mg/l	251	42	250

Shailendra Kumar
Analysed By

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STAR CEMENT LIMITED

Lumshnong, Meghalaya

WATER TESTING REPORT- February'26

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/2025-26/11

Surface Water Analysis Results

Date of sample collection: 02.02.2026

Date of Analysis: 02.02.2026 to 09.02.2026

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								
1	pH	-	7.3	7.5	7.4	7.5	7.6	7.4	7.3	7.4	7.2	7.4	7.3	7.4	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	19.1	19.6	20.1	20.8	21.4	20.3	20.7	21.9	21.2	19.3	19.9	20.2	250
5	Total Hardness as CaCO ₃	mg/L	122.7	134.2	118.5	124.7	129.5	116.6	105.9	124.2	134.2	121.4	131.9	148.1	300
6	Suspended Solids	mg/L	62.2	67.5	63.9	71.5	62.6	69.3	65.8	64.3	54.2	51.5	57.2	58.9	-
7	Total Dissolve Solids	mg/L	261.5	248.6	224.0	219.7	231.5	274.6	234.9	218.5	231.8	247.2	225.9	237.2	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	23.6	23.1	23.7	23.1	22.9	23.2	23.8	24.0	23.5	22.9	23.8	24.1	-
11	Conductivity	µS/cm	211.4	216.9	191.4	178.5	202.6	215.3	196.9	187.5	192.4	214.5	227.2	221.1	-
12	Flow	L / Min	387.5	431.8	155.9	198.5	259.6	4599.9	1662.6	56184.8	127.2	78.1	332.2	297.8	-

Shailendra Kumar
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STAR CEMENT LIMITED LINE-II

Lumshnong, Meghalaya




STACK EMISSION MONITORING ANALYSIS REPORT

Reference No.	SCL/Env/F-02
Issue No.	1
Date of Issue	01.05.2019
Revision No.	5
Date of Rev.	01.06.2021

Report No: SCL-II/ENV/STACK/MONTHLY/2025-26/11

Month: February'26

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	10-02-2026	-	07-02-2026	07-02-2026	09-02-2026
2	Ambient Temp (°C)	29	-	30	30	27
3	Stack Gas Temp (°C)	41	-	157	71	147
4	Exit Velocity of Gas (m/sec.)	13.45	-	18.69	16.87	18.21
5	Flow Rate (Nm ³ / sec.)	16.51	-	164.66	28.54	53.72
6	Quantity of Emission (Nm ³ / Hr)	59436	-	592776	102744	193392
7	Concentration of PM (mg/Nm ³)	14.23	-	22.10	15.80	23.4
8	Concentration of SO ₂ (mg/Nm ³)	-	-	591.2	-	-
9	Concentration of NO _x (mg/Nm ³)	-	-	136.9	-	-
10	Oxygen (O ₂) (%)	10.1	-	11.0	10.4	11.2
E.	Remarks	The additive crusher is not in use between 01/02/2026 to 28/02/2026.				
Standard						
PM - 30 mg/Nm ³		SO ₂ - 1000 mg/Nm ³		NO _x - 600 mg/Nm ³		
Particulate Matter (PM), Sulphur di-oxide (SO ₂), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP), Limestone (LS), Additive (Add)						
Analysed by  Shailendra Kumar		Checked by 		Verified By 		



STAR CEMENT LIMITED LINE-II

Lumshnong, Meghalaya




Reference No.	SCL/Env/F-02
Issue No.	1
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STACK EMISSION MONITORING ANALYSIS REPORT

Report No: SCL-II/ENV/STACK/MONTHLY/2025-26/11

Month: February'26

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	19-02-2026	-	17-02-2026	17-02-2026	18-02-2026
2	Ambient Temp (°C)	31	-	29	29	30
3	Stack Gas Temp (°C)	40	-	158	64	139
4	Exit Velocity of Gas (m/sec.)	13.56	-	17.54	17.86	18.02
5	Flow Rate (Nm ³ /sec.)	19.54	-	151.21	28.29	53.91
6	Quantity of Emission (Nm ³ /Hr)	70344	-	544356	101844	194076
7	Concentration of PM (mg/Nm ³)	15.46	-	24.90	17.91	25.11
8	Concentration of SO ₂ (mg/Nm ³)	-	-	430.6	-	-
9	Concentration of NO _x (mg/Nm ³)	-	-	190.2	-	-
10	Oxygen (O ₂) (%)	10.2	-	11.3	10.4	11.1
E.	Remarks	The additive crusher is not in use between 01/02/2026 to 28/02/2026.				
Standard						
PM - 30 mg/Nm ³		SO ₂ - 1000 mg/Nm ³		NO _x - 600 mg/Nm ³		
Particulate Matter (PM), Sulphur di-oxide (SO ₂), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP), Limestone (LS), Additive (Add)						
Analysed by  Shailendra Kumar		Checked by 		Verified By 		



STAR CEMENT LIMITED LINE-II

Lumshnong, Meghalaya

NOISE LEVEL MONITORING REPORT

Document No.	SCL/EHS/Env/F-03
Effective Date	01-05-2019
Revision No.	04
Revision Date	01-01-2021

Ref: SCL-II /ENV/NOISE/MONTHLY/2025-26/11

Date: 03.02.2026

Month -February'26

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	65.8	69.6	67.7	75	53.5	57.7	55.6	70
2	Raw Mill	64.5	69.1	66.8		54.9	58.8	56.9	
3	Coal Mill	65.2	69.4	67.3		56.4	59.7	58.1	
4	Additive Crusher	63.1	67.1	65.1		55.5	65.2	60.4	
5	Primary Crusher	67.6	72.4	70.0		56.2	63.4	59.8	
6	Secondary Crusher	65.3	70.7	68.0		55.9	64.1	60.0	
C.	Residential								
1	Line II colony	42.6	48.2	45.4	55	32.5	35.9	34.2	45

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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
Date of Rev.	01.06.2019

WATER TESTING REPORT- February'26

Reference No.: SCL-II/ENV/WATER/MONTHLY/2025-26/11

Date of sample collection: 02.02.2026

Date of Analysis: 02.02.2026 to 09.02.2026

Sl.No.	Parameter	Unit	STP Inlet	STP Outlet	Standard Norms For Discharge of Environment Pollution according to Consent To Operate
1	pH	-	7.6	8.3	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	4.5	<3.0	10
4	Total Residual Chlorine	mg/l	<0.01	<0.01	1.0
5	Ammoniacal Nitrogen (as N)	mg/l	18	6.9	50
6	Total Kjeldahl Nitrogen (as N)	mg/l	34	14	100
7	Free Ammonia (NH3)	mg/l	2.7	<0.01	5.0
8	Suspended Solids	mg/l	95	22	100
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/l	27	13	30
10	Chemical Oxygen Demand	mg/l	251	42	250

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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
Date of Rev.	01.06.2019

WATER TESTING REPORT- February'26

Reference No.: SCL-II/ENV/WATER/MONTHLY/2025-26/11

Surface Water Analysis Results

Date of sample collection: 02.02.2026

Date of Analysis: 02.02.2026 to 09.02.2026

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								
1	pH	-	7.3	7.5	7.4	7.5	7.6	7.4	7.3	7.4	7.2	7.4	7.3	7.4	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	19.1	19.6	20.1	20.8	21.4	20.3	20.7	21.9	21.2	19.3	19.9	20.2	250
5	Total Hardness as CaCO ₃	mg/L	122.7	134.2	118.5	124.7	129.5	116.6	105.9	124.2	134.2	121.4	131.9	148.1	300
6	Suspended Solids	mg/L	62.2	67.5	63.9	71.5	62.6	69.3	65.8	64.3	54.2	51.5	57.2	58.9	-
7	Total Dissolve Solids	mg/L	261.5	248.6	224.0	219.7	231.5	274.6	234.9	218.5	231.8	247.2	225.9	237.2	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	23.6	23.1	23.7	23.1	22.9	23.2	23.8	24.0	23.5	22.9	23.8	24.1	-
11	Conductivity	µS/cm	211.4	216.9	191.4	178.5	202.6	215.3	196.9	187.5	192.4	214.5	227.2	221.1	-
12	Flow	L / Min	387.5	431.8	155.9	198.5	259.6	4599.9	1662.6	56184.8	127.2	78.1	332.2	297.8	-

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