



Ref: SCL/EHS/LUMS/2025-26/110

Dated: 22/01/2026

To,

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

Subject : Submission of Environmental Monitoring Report for the month of December, 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 **December, 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, Khalielhiat, 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)
01-12-2025	971.6	88.2	16.8	0.0
02-12-2025	978.9	80.6	20.0	0.0
03-12-2025	974.2	77.6	19.8	0.0
04-12-2025	988.7	75.6	19.7	0.0
05-12-2025	988.3	87.2	16.1	0.0
06-12-2025	990.8	71.6	18.6	0.0
07-12-2025	986.4	73.8	18.7	0.0
08-12-2025	978.1	86.7	18.8	0.0
09-12-2025	975.3	85.8	14.7	0.0
10-12-2025	979.8	70.9	18.4	0.0
11-12-2025	984.7	83.4	13.1	0.0
12-12-2025	975.1	66.7	18.2	0.0
13-12-2025	974.5	69.6	19.2	0.0
14-12-2025	975.2	71.7	20.1	0.0
15-12-2025	975.5	85.2	16.1	0.0
16-12-2025	977.2	85.9	15.8	0.0
17-12-2025	976.9	87.7	15.7	0.0
18-12-2025	971.3	65.3	21.0	0.0
19-12-2025	978.1	86.7	14.9	0.0
20-12-2025	968.4	87.5	15.2	0.0
21-12-2025	978.9	73.1	19.2	0.0
22-12-2025	983.4	81.4	15.1	0.0
23-12-2025	987.1	83.8	15.0	0.0
24-12-2025	988.3	76.9	18.9	0.0
25-12-2025	987.2	80.9	18.7	0.0
26-12-2025	984.5	89.9	14.1	0.0
27-12-2025	970.7	87.3	14.6	0.0
28-12-2025	978.8	77.3	18.1	0.0
29-12-2025	987.7	85.1	16.8	0.0
30-12-2025	1001.3	80.5	17.3	0.0
31-12-2025	986.6	82.3	15.9	0.0
			Total	0.0

	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/2025-26/09			Month : December'25	
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)
02-12-2025	46.28	24.58	19.00	15.71
05-12-2025	48.83	26.47	19.06	13.87
09-12-2025	49.28	26.61	18.68	15.62
12-12-2025	46.16	24.59	18.43	14.24
16-12-2025	47.88	23.47	18.24	15.64
19-12-2025	47.52	26.31	17.09	13.14
23-12-2025	44.66	25.42	19.68	14.64
26-12-2025	42.62	23.97	18.40	13.45
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/2025-26/09			Month : December'25	
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.
Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
02-12-2025	56.11	27.69	21.41	17.38
05-12-2025	54.93	28.98	22.43	17.71
09-12-2025	57.16	24.92	22.89	15.38
12-12-2025	52.33	25.46	22.34	18.49
16-12-2025	58.48	27.55	20.86	18.05
19-12-2025	58.11	26.68	19.18	18.91
23-12-2025	56.24	25.71	23.07	15.37
26-12-2025	54.33	24.73	23.01	17.24
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/2025-26/09			Month : December'25	
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.
Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
02-12-2025	59.18	27.53	15.32	12.06
05-12-2025	55.25	28.19	15.36	12.30
09-12-2025	53.31	26.22	15.98	13.20
12-12-2025	58.32	25.27	15.29	11.27
16-12-2025	58.91	28.19	16.01	10.40
19-12-2025	56.27	28.94	14.06	12.04
23-12-2025	57.32	30.24	18.78	13.30
26-12-2025	60.28	30.27	16.65	12.55
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 /2025-26/09			Month : December'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)
08-12-2025	40.29	21.02	17.68	10.49
31-12-2025	38.93	19.76	17.40	9.55
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/2025-26/09			Month : December'25	
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.
Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
02-12-2025	66.44	30.40	22.23	17.49
05-12-2025	69.17	31.04	20.98	18.75
09-12-2025	68.47	29.05	23.30	16.45
12-12-2025	67.06	31.23	20.23	16.69
16-12-2025	68.25	30.25	22.36	19.08
19-12-2025	70.38	28.33	21.45	14.75
23-12-2025	70.51	32.24	21.62	16.08
26-12-2025	69.44	29.02	20.85	17.40
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 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/2025-26/09				
Month - December'25				
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline	
			Limit	
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)	
12.12.2025	Coal Storage Section	924	2000	
12.12.2025	Limestone Storage Section	1033	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/2025-26/09						Date: 12.12.2025			
Month - December'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	59.7	63.0	61.4	75	44.6	58.0	51.3	70
2	Raw Mill	47.3	61.2	54.3		43.6	55.7	49.7	
3	Raw Mill WF	48.1	62.5	55.3		43.8	57.1	50.5	
4	Coal Mill	50.8	60.6	55.7		44.3	54.0	49.2	
5	Cement Mill	56.7	62.8	59.8		43.3	58.8	51.1	
6	Cement Mill WF	57.0	60.7	58.9		45.6	56.2	50.9	
7	Primary Crusher (Dump Hopper)	54.4	59.1	56.8		43.9	54.6	49.3	
8	Primary Crusher (Near BC-1)	52.3	61.1	56.7		46.2	53.0	49.6	
9	Secondary Crusher	55.6	64.3	60.0		43.9	57.1	50.5	
B.	DG House								
1	Control Room	48.3	60.2	54.3	75	36.8	54.9	45.9	70
2	Office	49.1	56.2	52.7		40.0	49.0	44.5	
C.	Offices								
1	CCR	42.0	51.8	46.9	75	38.8	49.9	44.4	70
2	Meeting Room	39.1	51.0	45.1		34.5	45.0	39.8	
3	VP'S Room	41.0	44.2	42.6		34.1	37.5	35.8	
4	Inst. Shift Room	40.0	47.8	43.9		36.3	43.5	39.9	
5	Drawing Office	40.5	54.0	47.3		35.5	44.1	39.8	
6	QC Department								
	a) Chemical Lab	50.6	57.7	54.2		45.7	48.4	47.0	
	b) Physical Lab	53.0	61.7	57.4		44.7	49.8	47.3	
	c) Shift Lab	42.9	54.5	48.7		39.9	45.2	42.6	
	d) Sample Preparation Room	44.4	61.6	53.0		37.0	45.1	41.0	
D.	Residential								
1	Bachelor Hostel	41.7	47.7	44.7	55	31.7	37.0	34.4	45
2	HOD'S Quater's	39.6	46.5	43.1		32.4	38.7	35.6	
3	650 Quater's	36.9	46.2	41.6		29.6	39.0	34.3	
4	250 Quater's	37.7	44.5	41.1		30.0	37.3	33.7	
5	Hut	36.6	44.9	40.8		28.8	37.7	33.3	
E.	Dispensary	36.0	43.5	39.8		28.7	36.3	32.5	
 Analyzed 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/2025-26/09						Month: December'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	-	-	-	16-12-2025	16-12-2025	20-12-2025	17-12-2025	17-12-2025
2	Ambient Temp (°C)	-	-	-	35	35	34	33	36
3	Stack Gas Temp (°C)	-	-	-	46	45	46	43	44
4	Exit Velocity of Gas (m/sec.)	-	-	-	16.24	14.83	17.01	15.87	16.07
5	Flow Rate (Nm³/ sec.)	-	-	-	18.59	19.96	14.99	13.89	13.74
6	Concentration of PM (mg/Nm³)	-	-	-	14.08	17.11	16.02	15.44	14.97
7	Concentration of SO₂ (mg/Nm³)	-	-	-	-	-	-	-	-
8	Concentration of NOx (mg/Nm³)	-	-	-	-	-	-	-	-
9	Oxygen (O₂) (%)	-	-	-	9.3	9.8	9.4	9.1	9.3
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)									
Shailendra Kumar Analysed by  Checked by  Verified By									

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

Reference No.: SCL/ENV/WATER/MONTHLY/2025-26/09				Date of sample collection: 01.12.2025	
				Date of Analysis: 01.12.2025 to 09.12.2025	

Sl.No.	Parameter	Unit	STP Inlet	STP Outlet	Standard Norms For Discharge of Environment Pollution according to Consent To Operate
1	pH	-	8.2	7.4	5.5 to 9.0
2	Temperature	° C	28	29	Shall not exceed 5.0°C above the receiving water temperature
3	Oil & Grease	mg/l	4.1	<3.0	10
4	Total Residual Chlorine	mg/l	<0.01	<0.01	1.0
5	Ammoniacal Nitrogen (as N)	mg/l	16	5.9	50
6	Total Kjeldahl Nitrogen (as N)	mg/l	40	19	100
7	Free Ammonia (NH3)	mg/l	0.95	<0.01	5.0
8	Suspended Solids	mg/l	98	20	100
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/l	24	16	30
10	Chemical Oxygen Demand	mg/l	230	51	250


Analysed By


Checked By


Verified By



STAR CEMENT LIMITED

Lumshnong, Meghalaya

WATER TESTING REPORT- December'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/2025-26/09

Surface Water Analysis Results

Date of sample collection: 01.12.2025

Date of Analysis: 01.12.2025 to 09.12.2025

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	-	7.4	7.3	7.4	7.7	7.6	7.4	7.5	7.5	7.4	7.6	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	17.9	21.4	21.9	24.7	22.1	22.6	20.4	21.8	20.3	21.5	20.1	19.9	250
5	Total Hardness as CaCO ₃	mg/L	114.8	132.4	115.1	127.9	112.7	95.4	93.7	101.3	125.4	98.6	109.7	96.2	300
6	Suspended Solids	mg/L	52.4	63.7	66.9	69.7	67.2	70.1	68.2	52.9	69.3	55.1	59.7	62.3	-
7	Total Dissolve Solids	mg/L	289.4	278.1	265.3	264.5	275.4	267.7	271.0	253.5	262.9	273.1	248.9	288.3	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	27.1	26.9	26.5	27.8	29.4	27.2	26.9	27.1	26.8	27.4	27.0	26.1	-
11	Conductivity	µS/cm	243.4	246.9	251.4	271.9	269.8	268.6	271.4	258.9	223.7	238.9	259.5	263.4	-
12	Flow	L / Min	543.2	658.1	159.7	203.4	274.2	5248.3	1875.7	56984.9	105.0	101.3	421.4	357.6	-

Shailendra Kumar
Analyzed by

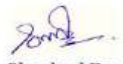
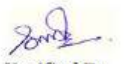
[Signature]
Checked by

[Signature]
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/2025-26/09			
Month - December'25			
Date	Location	Fugitive Emission Results (in $\mu\text{g}/\text{m}^3$)	As per CPCB/BIS Guideline
			Limit (in $\mu\text{g}/\text{m}^3$)
05.12.2025	Coal Storage Section	1327	2000
05.12.2025	Limestone Storage Section	1399	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/2025-26/09									
Date: 05.12.2025									
Month - December'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	65.9	68.3	67.1	75	51.3	54.6	53.0	70
2	Raw Mill	64.6	67.8	66.2		52.7	55.7	54.2	
3	Coal Mill	65.3	68.1	66.7		53.2	56.6	54.9	
4	Additive Crusher	63.2	65.8	64.5		53.4	62.1	57.8	
5	Primary Crusher	67.7	71.3	69.5		53.1	60.3	56.7	
6	Secondary Crusher	65.4	69.4	67.4		53.8	61.0	57.4	
C.	Residential								
1	Line II colony	40.2	44.7	42.5	55	30.8	33.2	32.0	45
 Analyzed 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/2025-26/09					Date of Rev.		01.06.2021
Month: December'25							
<u>Analysis Result</u>							
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	27-12-2025	-	29-12-2025	29-12-2025	30-12-2025	
2	Ambient Temp (°C)	35	-	39	36	35	
3	Stack Gas Temp (°C)	44	-	162	69	137	
4	Exit Velocity of Gas (m/sec.)	14.87	-	19.65	16.41	17.09	
5	Flow Rate (Nm ³ / sec.)	17.52	-	175.26	31.44	43.27	
6	Concentration of PM (mg/Nm ³)	16.27	-	21.50	22.15	24.09	
7	Concentration of SO ₂ (mg/Nm ³)	-	-	479.3	-	-	
8	Concentration of NO _x (mg/Nm ³)	-	-	248.1	-	-	
9	Oxygen (O ₂) (%)	9.7	-	9.9	10.1	10.4	
E.	Remarks	The additive crusher is not in use between 01/12/2025 to 31/12/2025.					
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/EHS/F-04
					Issue No.	1
					Date of Issue:	24.08.2013
					Revision No.	3
	WATER TESTING REPORT- December'25				Date of Rev.	01.06.2019
Reference No.: SCL-II/ENV/WATER/MONTHLY/2025-26/09					Date of sample collection: 01.12.2025	
					Date of Analysis: 01.12.2025 to 09.12.2025	
Sl.No.	Parameter	Unit	STP Inlet	STP Outlet	Standard Norms For Discharge of Environment Pollution according to Consent To Operate	
1	pH	-	8.2	7.4	5.5 to 9.0	
2	Temperature	° C	28	29	Shall not exceed 5.0°C above the receiving water temperature	
3	Oil & Grease	mg/l	4.1	<3.0	10	
4	Total Residual Chlorine	mg/l	<0.01	<0.01	1.0	
5	Ammoniacal Nitrogen (as N)	mg/l	16	5.9	50	
6	Total Kjeldahl Nitrogen (as N)	mg/l	40	19	100	
7	Free Ammonia (NH3)	mg/l	0.95	<0.01	5.0	
8	Suspended Solids	mg/l	98	20	100	
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/l	24	16	30	
10	Chemical Oxygen Demand	mg/l	230	51	250	
 Analysed 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
Date of Rev.	01.06.2019

WATER TESTING REPORT- December'25

Reference No.: SCL-II/ENV/WATER/MONTHLY/2025-26/09

Surface Water Analysis Results

Date of sample collection: 01.12.2025

Date of Analysis: 01.12.2025 to 09.12.2025

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	-	7.4	7.3	7.4	7.7	7.6	7.4	7.5	7.5	7.4	7.6	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	17.9	21.4	21.9	24.7	22.1	22.6	20.4	21.8	20.3	21.5	20.1	19.9	250
5	Total Hardness as CaCO ₃	mg/L	114.8	132.4	115.1	127.9	112.7	95.4	93.7	101.3	125.4	98.6	109.7	96.2	300
6	Suspended Solids	mg/L	52.4	63.7	66.9	69.7	67.2	70.1	68.2	52.9	69.3	55.1	59.7	62.3	-
7	Total Dissolve Solids	mg/L	289.4	278.1	265.3	264.5	275.4	267.7	271.0	253.5	262.9	273.1	248.9	288.3	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	27.1	26.9	26.5	27.8	29.4	27.2	26.9	27.1	26.8	27.4	27.0	26.1	-
11	Conductivity	µS/cm	243.4	246.9	251.4	271.9	269.8	268.6	271.4	258.9	223.7	238.9	259.5	263.4	-
12	Flow	L / Min	543.2	658.1	159.7	203.4	274.2	5248.3	1875.7	56984.9	105.0	101.3	421.4	357.6	-

Shailendra Kumar
Analyzed by

[Signature]
Checked by

[Signature]
Verified by