
	STAR CEMENT LIMITED 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/ENV/AAQM/MONTHLY/2022-23/38			Month: June'22	
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)
No Monitoring Due To Heavy Rainfall				
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)

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


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	STAR CEMENT LIMITED 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/ENV/AAQM/MONTHLY/2022-23/39			Month: June'22	
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)
<p>No Monitoring Due To Heavy Rainfall</p>				
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.




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			Date of Issue:	24.08.2013
	AMBIENT AIR QUALITY MONITORING REPORT		Revision No.	5
			Date of Rev.	01.12.2020
Reference No.: SCL/ENV/AAQM/MONTHLY/2022-23/40			Month: June'22	
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)
No Monitoring Due To Heavy Rainfall				
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)

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




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	STAR CEMENT LIMITED 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.: Tongseng Village /2022-23/011			Month: June'22	
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)
No Monitoring Due To Heavy Rainfall				
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)




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


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	STAR CEMENT LIMITED Lumshnong, Meghalaya							Reference No.	SCL/Env/F-02
								Issue No.	1
	STACK EMISSION MONITORING ANALYSIS REPORT							Date of Issue	01.05.2019
								Revision No.	5
							Date of Rev.	01.06.2021	

Report No: SCL/ENV/STACK/MONTHLY/2022-23/57							Month: June'22		
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	27.06.2022	27.06.2022	20.06.2022	09.06.2022	06.06.2022	06.06.2022	13.06.2022	13.06.2022
2	Ambient Temp (°C)	30	35	40	25	22	20	22	26
3	Stack Gas Temp (°C)	160	55	360	37	35	36	34	36
4	Exit Velocity of Gas (m/sec.)	14.08	13.10	20.47	14.30	13.87	13.55	13.70	13.25
5	Flow Rate (Nm ³ / sec.)	64.11	12.58	57.05	19.59	22.15	11.66	13.95	9.47
6	Quantity of Emission (Nm ³ / Hr)	230813.57	45300.27	205390.61	70524.84	79731.64	41985.23	50207.08	34103.13
7	Concentration of PM (mg/Nm ³)	13.81	23.45	21.92	21.44	23.05	20.00	26.27	19.36
8	Concentration of SO ₂ (mg/Nm ³)	548.00	-	-	-	-	-	-	-
9	Concentration of NO _x (mg/Nm ³)	228.00	-	-	-	-	-	-	-
10	Oxygen (O ₂) (%)	10.5	8.24	9.57	9.35	10.55	10.32	9.45	10.36
E.	Remarks								
Standard									
PM - 30 mg/Nm ³			SO ₂ - 1000 mg/Nm ³				NO _x - 800 mg/Nm ³		
Particulate Matter (PM), Sulphur di-oxide (SO ₂), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP)									
<div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  Analysis by </div> <div style="text-align: center;">  Checked by </div> <div style="text-align: center;">  Authorized Signatory </div> </div>									

	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/2022-23/015

Month - June 2022

Location	Fugitive Emission Results	Limit
	(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)
Coal Storage Section	Due to heavy Rain fall	2000
Limestone Storage Section		5000




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	STAR CEMENT LIMITED Lumshnong, Meghalaya				Document No.		SCL/EHS/Env/F-03			
					Effective Date		01-05-2019			
					Revision No.		04			
	NOISE LEVEL MONITORING REPORT					Revision Date		01-01-2021		
Ref: SCL(LM)/ENV/NOISE/MONTHLY/2021-22/008								Date: 03.06.2022		
Month - June 2022										
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				75				70	
1	Kiln	62.5	70.3	66.4		60.5	68.3	64.4		
2	Raw Mill	60.3	69.8	65.1		58.3	67.8	63.1		
3	Raw Mill WF	63.5	70.9	67.2		61.5	68.9	65.2		
4	Coal Mill	61.8	69.1	65.5		59.8	67.1	63.5		
5	Cement Mill	62.2	68.9	65.6		60.2	66.9	63.6		
6	Cement Mill WF	63.8	70.4	67.1		61.8	68.4	65.1		
7	Primary Crusher (Dump Hopper)	60.3	69.3	64.8		58.3	67.3	62.8		
8	Primary Crusher (Near BC-1)	62.8	71.1	67.0		60.8	69.1	65.0		
9	Secondary Crusher	60.3	71.5	65.9	58.3	69.5	63.9			
B.	DG House				75				70	
1	Control Room	59.8	72.5	66.2		57.8	70.5	64.2		
2	Office	61.3	60.3	60.8		59.3	58.3	58.8		
C.	Offices				75				70	
1	CCR	50.3	60.8	55.6		48.3	58.8	53.6		
2	Meeting Room	51.8	60.4	56.1		49.8	58.4	54.1		
3	VP'S Room	45.6	50.0	47.8		43.6	48.0	45.8		
4	Inst. Shift Room	50.8	53.6	52.2		48.8	51.6	50.2		
5	Drawing Office	50.3	59.8	55.1		48.3	57.8	53.1		
6	QC Department									
	a) Chemical Lab	61.4	63.5	62.4		59.4	61.5	60.4		
	b) Physical Lab	60.4	64.9	62.7		58.4	62.9	60.7		
	c) Shift Lab	55.6	60.3	58.0		53.6	58.3	56.0		
	d) Sample Preparation Room	52.7	60.2	56.4	50.7	58.2	54.4			
D.	Residential				55				45	
1	Bachelor Hostel	45.3	50.0	47.7		43.3	48.0	45.7		
2	HOD'S Quater's	41.3	52.3	46.8		39.3	50.3	44.8		
3	650 Quater's	43.2	52.0	47.6		41.2	50.0	45.6		
4	250 Quater's	43.6	50.3	47.0		41.6	48.3	45.0		
5	Hut	42.6	50.7	46.7		40.6	48.7	44.7		
E.	Dispensery	42.3	49.3	45.8		40.3	47.3	43.8		


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

Report No. - 15	Date of sample collection: - 14.06.2022 Date of Analysis: 14.06.2022 to 17.06.2022
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Sr.No.	Parameter	Unit	STP Inlet	Standard Norms For Discharge of Environment Pollution (Notification Date: - 19th May 1993) & Consent To Operate vide letter no. MPCB/TB-900 (Pt-II)/2014- 2015/34 - dated Shillong, the 3rd Sep,2014
1	pH	-	7.50	-
2	Colour	Hazen	Colourless	-
3	Odour	-	Odourless	-
4	Chloride	mg/L	61.2	-
5	Total Hardness as CaCO ₃	mg/L	145.0	-
6	Suspended Solids	mg/L	80.0	-
7	Total Dissolve Solids	mg/L	240	-
8	Chemical Oxygen Demand	mg/L	175	-
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	98.0	-
10	Oil & Grease	mg/L	8.0	-
11	Temperature	° C	24.0	-
12	Conductivity	μS/cm	430.0	-



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		Issue No.	1
	WATER TESTING REPORT	Date of Issue:	24.08.2013
		Revision No.	3
		Date of Rev.	01.06.2019

Report No. - 15	Date of sample collection: - 14.06.2022
	Date of Analysis: 14.06.2022 to 17.06.2022

Sr.No.	Parameter	Unit	STP Outlet	Standard Norms For Discharge of Environment Pollution (Notification Date: - 19th May 1993) & Consent To Operate vide letter no. MPCB/TB-900 (Pt-II)/2014- 2015/34 - dated Shillong, the 3rd Sep,2014
1	pH	-	7.80	5.5 to 9.0
2	Colour	Hazen	Colourless	-
3	Odour	-	Odourless	-
4	Chloride	mg/L	47.5	-
5	Total Hardness as CaCO ₃	mg/L	130.7	-
6	Suspended Solids	mg/L	7.9	100
7	Total Dissolve Solids	mg/L	310	-
8	Chemical Oxygen Demand	mg/L	25.0	250
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	5.2	30
10	Oil & Grease	mg/L	< 3.0	10
11	Temperature	° C	24.5	Shall not exceed 5.0°C above the receiving water temperature
12	Conductivity	μS/cm	490	-


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	WATER TESTING REPORT	Date of Issue:	24.08.2013
		Revision No.	3
		Date of Rev.	01.06.2019

Report No. -15 Date of sample collection: - 14.06.2022
Date of Analysis: 14.06.2022 to 17.06.2022

Sr.No.	Parameter	Unit	Nala Up Stream	Nala Down Stream	Standards norms as per IS 2296
1	pH	-	7.30	7.45	6.5 - 8.5
2	Colour	Hazen	Colourless	Colourless	300
3	Odour	-	Unobjectionable	Unobjectionable	Unobjectionable
4	Chloride	mg/L	141.0	143.1	-
5	Total Hardness as CaCO ₃	mg/L	15.2	13.1	300
6	Suspended Solids	mg/L	84.1	81.5	-
7	Total Dissolve Solids	mg/L	84	83.1	500
8	Chemical Oxygen Demand	mg/L	ND	ND	-
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	ND	ND	2.0
10	Oil & Grease	mg/L	ND	ND	-
11	Temperature	° C	24.0	24.0	-
12	Conductivity	μS/cm	337.50	326.5	-


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