

	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.	4
		Date of Rev.	01.12.2020

Ref: SCL/Env/AAQM/Monthly/2021-22/015

**Note* Monitoring had to be cancelled most of the time due to heavy rains.*

Location of Sampling : SCL, Lumshnong
Date of Sampling : 09.06.2021 - 10.06.2021
Distance between the Industry and sampling Location : NA
Time duration of sampling : 24 hrs.
Weather : Wet
Total Rain Fall (mm) : No Rain Fall
Ambient Temperature (⁰C)
Maximum : 30.5 0C
Minimum : 22.2 0C
Relative Humidity (%)
Maximum : 97.2 %
Minimum : 70.2 %
Wind Direction : 3.4
Wind Speed (km/hr.) : SE-NW

Pollutants	Air Quality Monitoring Analysis Result				National Ambient Air Quality Standards Permissible Limits for Rural , Ind., Residential Area
	Station Name & No.				
	1	2	3	4	
	(Near Star Club) C/049/21-22	(Near Pump House) C/050/21-22	(Near Security Gate No. 3) C/051/21-22	(Staff Quarters-4) C/052/21-22	
GPS Coordinate	25°10'36"N 92°23'16"E 928 m	25°10'42"N 92°23'32"E 919 m	25°10'27"N 92°23'37"E 944 m	25°10'43"N 92°23'14"E 946 m	
Suspended Particulate Matter (Size less than 10 µm) or PM10 µg/m3	52.3	57.7	58.2	57.9	100
Suspended Particulate Matter (Size less than 2.5 µm) or PM2.5 µg/m3	28.2	36.2	32.4	32.7	60
Sulphur Dioxide SO2 (µg/m3)	6.6	7.2	8.2	6.9	80
Nitrogen Dioxide NO2 (µg/m3)	11.3	12.8	12.7	9.8	80

Remarks: The parameters analyzed were found to be within the permissible limits of Ambient Air Quality Standards (National) for Rural Areas as per National Ambient Air Quality Standards, Notification dated 18th November 2009.


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	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.	4
		Date of Rev.	01.12.2020

Ref: SCL/Env/AAQM/Monthly/2021-22/016

Location of Sampling : SCL, Lumshnong
Date of Sampling : 15.06.2021 - 16.06.2021
Distance between the Industry and sampling Location : NA
Time duration of sampling : 24 hrs.
Weather : Dry
Total Rain Fall (mm) : No Rain Fall
Ambient Temperature (⁰C)
Maximum : 33.5 0C
Minimum : 24.1 0C
Relative Humidity (%)
Maximum : 97.0 %
Minimum : 56.1 %
Wind Direction : N-S
Wind Speed (km/hr.) : 8.6

Pollutants	Air Quality Monitoring Analysis Result				National Ambient Air Quality Standards Permissible Limits for Rural , Ind., Residential Area
	Station Name & No.				
	1	2	3	4	
	(Near Star Club) C/053/21-22	(Near Pump House) C/054/21-22	(Near Security Gate No. 3) C/055/21-22	(Staff Quarters 4) C/056/21-22	
GPS Coordinate	25°10'36"N 92°23'16"E 928 m	25°10'42"N 92°23'32"E 919 m	25°10'27"N 92°23'37"E 944 m	25°10'43"N 92°23'14"E 946 m	
Suspended Particulate Matter (Size less than 10 µm) or PM10 µg/m3	50.8	53.2	56.8	60.5	100
Suspended Particulate Matter (Size less than 2.5 µm) or PM2.5 µg/m3	30.9	29.6	29.7	28.2	60
Sulphur Dioxide SO2 (µg/m3)	6.4	7.5	8.9	7.2	80
Nitrogen Dioxide NO2 (µg/m3)	12.2	10.6	13.4	11.7	80

Remarks: The parameters analyzed were found to be within the permissible limits of Ambient Air Quality Standards (National) for Rural Areas as per National Ambient Air Quality Standards, Notification dated 18th November 2009.


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	STAR CEMENT LIMITED Lumshnong, Meghalaya	Reference No.	SCL/EHS/F - 02
		Issue No.	01
	STACK ANALYSIS REPORT	Date of Issue:	24.08.2013
		Revision No.	04
		Date of Rev.	01.06.2019

➤ ***Note*** Monitoring had to be cancelled most of the time due to heavy rains.

Name of Sampling Location : SCL, Lumshnong

Date of Sampling : 09/06/2021

Type of Stack : RABH

Laboratory Report No. : S/33/21-22

Parameters:

1) Particulate Matter (PM) : 18.1 mg/Nm³

Remarks: The parameter tested was found to be within the permissible limits of Stack Emission Standards as per EPA Notification G.S.R. 496(E) dated 9th May, 2016 and G.S.R. 497(E) dated 10th May, 2016.



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	STAR CEMENT LIMITED Lumshnong, Meghalaya	Reference No.	SCL/EHS/F - 02
		Issue No.	01
	STACK ANALYSIS REPORT	Date of Issue:	24.08.2013
		Revision No.	04
		Date of Rev.	01.06.2019

Name of Sampling Location : SCL, Lumshnong
Date of Sampling : 16/06/2021
Type of Stack : Cement Mill (Bag Filter)
Laboratory Report No. : S/34/21-22

Parameters:

1) Particulate Matter (PM) : 16.9 mg/Nm³

Remarks: The parameter tested was found to be within the permissible limits of Stack Emission Standards as per EPA Notification G.S.R. 496(E) dated 9th May, 2016 and G.S.R. 497(E) dated 10th May, 2016.



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	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/2021-22/003

Month: JUNE - 2021

Date	Location	Fugitive Emission Results	Limit
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)
15.06.2021	Coal Storage Section	1304	2000
15.06.2021	Limestone Storage Section	1912	5000
15.06.2021	Cement Packing Plant	2086	5000



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	STAR CEMENT LIMITED				Document No.		MPL/EHS/Env/F-03	
					Effective Date		01-05-2019	
	Lumshnong, Meghalaya				Revision No.		04	
	NOISE LEVEL MONITORING REPORT				Revision Date		01-01-2021	

Ref: SCL(LM)/Env/Noise/Monthly/2021-22/003					Date: : 09.06.2021				
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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	64.7	73.7	69.2	75	60.6	70.4	65.5	70
2	Raw Mill	60.5	74.8	67.6		55.4	70.2	62.8	
3	Raw Mill WF	66.3	72.6	69.5		61.8	67.4	64.6	
4	Coal Mill	64.8	70.2	67.5		60.0	66.9	63.4	
5	Cement Mill	66.8	73.7	70.3		61.4	69.4	65.4	
6	Cement Mill WF	64.4	71.0	67.7		60.4	69.2	64.8	
7	Primary Crusher (Dump Hopper)	67.1	69.9	68.5		62.4	67.4	64.9	
8	Primary Crusher (Near BC-1)	66.2	72.0	69.1		62.4	68.2	65.3	
9	Secondary Crusher	65.9	72.8	69.4		61.1	69.8	65.5	
B.	DG House								
1	Control Room	63.8	72.4	68.1	75	58.5	68.8	63.6	70
2	Office	60.4	73.6	67.0		55.9	70.2	63.0	
C.	Offices								
1	CCR	57.5	62.8	60.2	75	53.9	61.4	57.7	70
2	Meeting Room	54.0	57.5	55.8		50.5	56.4	53.4	
3	VP'S Room	49.5	55.8	52.6		47.4	55.0	51.2	
4	Inst. Shift Room	54.0	67.1	60.6		50.8	66.1	58.4	
5	Drawing Office	52.8	62.9	57.9		52.5	63.7	58.1	
6	QC Department								
	a) Chemical Lab	65.3	68.1	66.7		63.2	64.8	64.0	
	b) Physical Lab	66.3	69.2	67.7		64.7	67.7	66.2	
	c) Shift Lab	58.3	64.3	61.3		57.4	62.4	59.9	
	d) Sample Preparation Room	59.9	63.7	61.8		56.6	61.5	59.1	
D.	Residential								
1	Bachelor Hostel	48.6	50.4	49.5	55	41.1	42.6	41.8	45
2	HOD'S Quater's	46.3	55.9	51.1		42.3	44.3	43.0	
3	650 Quater's	46.0	57.5	51.7		41.3	45.0	43.2	
4	250 Quater's	40.6	55.2	47.9		39.6	47.9	43.7	
5	Hut	41.3	56.5	48.9		41.0	45.3	43.1	
E.	Dispensery	40.9	52.8	46.8		41.9	46.3	44.1	

 Measured By:	 Verified By:
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	STAR CEMENT LIMITED Lumshnong, Meghalaya	Reference No.	SCL/EHS/F - 04
		Issue No.	01
		Date of Issue:	24.08.2013
	WATER TESTING REPORT	Revision No.	03
		Date of Rev.	01.06.2019

Report No. – 03

Date of Sample Collection: 15.06.2021

Analysis Date: 15.06.2021 to 18.06.2021

S. No.	Parameter	Unit	ETP 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	-	7.5	5.5 to 9.0
2	Suspended Solids	mg/lit	23.0	100
3	Total Dissolve Solids	mg/lit	355.4	-
4	Cemical Oxegan Demand	mg/lit	54.2	250
5	Biochemical Oxegan Demand (For 3 days at 27deg. C)	mg/lit	21.9	30
6	Oil& Grease	mg/lit	<3	10
7	Dissolved Oxygen	mg/lit	6.7	-


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Lumshnong, Meghalaya

WATER TESTING REPORT

Reference No.	SCL/EHS/F - 04
Issue No.	01
Date of Issue:	24.08.2013
Revision No.	03
Date of Rev.	01.06.2019

Report No. – 03

Date of Sample Collection: 15.06.2021

Analysis Date: 15.06.2021 – 18.06.2021

S.N o.	Parameter	Unit	Plant Nala Inlet	Plant Nala Out Let	STP Inlet Water	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.	Indian Standard Specification for Drinking Water IS : 10500 -2012 Acceptable Limit (Max.)	Indian Standard Specification for Drinking Water IS : 10500 -2012 Permissible Limit (Max.)
1	Ph		6.7	7.2	6.8	7.1	5.5 to 9.0	6.5 to 8.5	No relaxation
2	Colour	Hazen	Colourless	Colourless	Colourless	Colourless	Colourless	5	15
3	Odour		Odourless	Odourless	Odourless	Odourless	Odourless	Agreeable	Agreeable
4	Chloride	mg/lit	6.5	5.3	45.6	67.0	250	250	1000
5	Total Hardness as CaCO ₃	mg/lit	153.0	180.0	196.0	166.1	-	200	600
6	Suspended Solids	mg/lit	17.1	21.1	19.2	17.9	100	-	-
7	Total Dissolve Solids	mg/lit	51.1	46.2	82.6	16.4	-	500	2000
8	Cemical Oxegan Demand	mg/lit	144.1	202.6	357.5	403.6	250	-	-
9	Biochemical Oxegan Demand	mg/lit	125.9	278.6	357.7	428.4	30	-	-
10	Oil & Grease	mg/lit	NIL	<3	4.2	<3	10	-	-
11	Temperature	deg. C	33.8	37.9	30.0	35.2	Shall not be exceed 50 Deg. C the	-	-
12	Conductivity		146	171	160	148	-	-	-


Analysis By


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STAR CEMENT LIMITED

VPO – Lumshnong, District – Jaintia Hills, Meghalaya – 793210