

STAR CEMENT MEGHALAYA LIMITED

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Ph: 03655-278215/16/18, Fax: 03655-278217, e-mail: lumshnong@starcement.co.in

Ref: SCML/EHS/LUM/2021-22/17

Dated: 14/09/2021

To,

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

Subject: Monthly Environmental Monitoring Report.

Ref. No.: MPCB/TB-115-2009/2020-2021/08, Dated. Shillong, the 26th March, 2021.

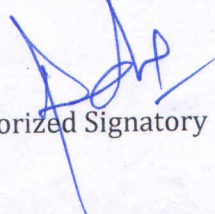
Dear Sir,

Please find enclosed herewith the monthly report of Ambient Air Quality monitoring including meteorological, Fugitive Emission, Stack Emission, Noise Level & Water (Surface, ETP) monitoring reports of **Star Cement Meghalaya Limited** for the month of **August, 2021** for your kind perusal.

This is for your kind information record please.

With Best Regards


For **Star Cement Meghalaya Limited**


Authorized Signatory

Enclosed: As mentioned above

STARCEMENT
Solid Setting

Corporate Office : Satyam Tower, 3 Alipore Road, 1st Floor, Unit No. 9B, Kolkata-700027
Ph: +91 33 2448 4169 / 4170 / 4693, Fax: +91 332448 4168, e-mail: kolkata@starcement.co.in
CIN : UG2000ML2005PL000014

	STAR CEMENT MEGHALAYA LIMITED Lumshnong, Meghalaya	Reference No.	SCML/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: SCML/Env/AAQM/Monthly/2021-22/015

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

Location of Sampling : SCML, Lumshnong
Date of Sampling : 16.08.2021 - 17.08.2021
Distance between the Industry and sampling Location : NA
Time duration of sampling : 24 hrs.
Weather : Dry
Total Rain Fall (mm) : No Rainfall
Ambient Temperature (°C)
Maximum : 28.1 0C
Minimum : 22.0 0C
Relative Humidity (%)
Maximum : 97.1 %
Minimum : 81.2 %
Wind Direction : SE-NW
Wind Speed (km/hr.) : 1.7


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	5	
	(Near Pump House) S/071/21-22	(Near Worker Colony) S/072/21-22	(Near Raw Mill Hopper) S/073/21-22	(Behind MPL DM Plant) S/074/21-22	(Near Water Reservoir) S/075/21-22	
GPS Coordinate	25°10'42"N 92°23'32"E 919 m	25°10'46"N 92°23'17"E 932 m	25°10'45"N 92°23'29"E 923 m	25°10'44"N 92°23'50"E 897 m	25°10'45"N 92°23'53"E 893 m	
Suspended Particulate Matter (Size less than 10 µm) or PM10 µg/m3	50.1	53.4	53.7	56.7	51.4	100
Suspended Particulate Matter (Size less than 2.5 µm) or PM2.5 µg/m3	26.8	29.5	30.1	28.4	27.3	60
Sulphur Dioxide SO2 (µg/m3)	8.4	10.3	9.4	11.6	10.8	80
Nitrogen Dioxide NO2 (µg/m3)	11.6	12.5	14.7	13.8	12.9	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 MEGHALAYA 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: SCML/Env/AAQM/Monthly/2021-22/016

Location of Sampling : SCML, Lumshnong
Date of Sampling : 31.08.2021 - 01.09.2021
Distance between the Industry and sampling Location : NA
Time duration of sampling : 24 hrs.
Weather : Dry
Total Rain Fall (mm) : No Rainfall
Ambient Temperature (⁰C)
Maximum : 28.0 0C
Minimum : 23.3 0C
Relative Humidity (%)
Maximum : 97.3 %
Minimum : 82.1 %
Wind Direction : NE-SW
Wind Speed (km/hr.) : 2.1

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	5	
	(Near Pump House) S/076/21-22	(Near Worker Colony) S/077/21-22	(Near Raw Mill Hopper) S/078/21-22	(Behind MPL DM Plant) S/079/21-22	(Near Water Reservoir) S/080/21-22	
GPS Coordinate	25*10'42"N 92*23'32"E 919 m	25*10'46"N 92*23'17"E 932 m	25*1045"N 92*23'29"E 923 m	25*1044"N 92*23'50"E 897 m	25*10'45"N 92*23'53"E 893 m	
Suspended Particulate Matter (Size less than 10 µm) or PM10 µg/m3	52.4	50.4	55.4	51.6	55.4	100
Suspended Particulate Matter (Size less than 2.5 µm) or PM2.5 µg/m3	28.4	26.8	29.7	27.3	26.5	60
Sulphur Dioxide SO2 (µg/m3)	9.6	11.3	10.2	10.2	11.2	80
Nitrogen Dioxide NO2 (µg/m3)	11.2	12.4	11.3	13.4	12.7	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 MEGHALAYA LIMITED Lumshnong, Meghalaya	Reference No.	SCML/EHS/F - 02
		Issue No.	01
	STACK ANALYSIS REPORT	Date of Issue:	01.04.2014
		Revision No.	01
		Date of Rev.	01.06.2019

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

Name of Sampling Location : SCML, Lumshnong

Date of Sampling : 16/08/2021

Type of Stack : Coal Mill

Stack Sampling Height (8D) : 26 Meter

Laboratory Report No. : S/25/21-22

Parameters:

1) Particulate Matter (PM) : 23.4 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 MEGHALAYA LIMITED Lumshnong, Meghalaya	Reference No.	SCML/EHS/F - 02
		Issue No.	01
	STACK ANALYSIS REPORT	Date of Issue:	01.04.2014
		Revision No.	01
		Date of Rev.	01.06.2019

Name of Sampling Location : SCML, Lumshnong

Date of Sampling : 16/08/2021

Type of Stack : Cooler ESP

Stack Sampling Height (8D) : 25 Meter

Laboratory Report No. : S/26/21-22

Parameters:

1) Particulate Matter (PM) : 19.5 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 MEGHALAYA LIMITED Lumshnong, Meghalaya	Reference No.	SCML/EHS/F - 02
		Issue No.	01
	STACK ANALYSIS REPORT	Date of Issue:	01.04.2014
		Revision No.	01
		Date of Rev.	01.06.2019

Name of Sampling Location : SCML, Lumshnong

Date of Sampling : 31/08/2021

Type of Stack : RABH

Stack Sampling Height (8D) : 25 Meter

Laboratory Report No. : S/27/21-22

Parameters:

1) Particulate Matter (PM) : 19.4 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 MEGHALAYA LIMITED Lumshnong, Meghalaya	Reference No.	SCML/EHS/F - 02
		Issue No.	01
	STACK ANALYSIS REPORT	Date of Issue:	01.04.2014
		Revision No.	01
		Date of Rev.	01.06.2019

Name of Sampling Location : SCML, Lumshnong

Date of Sampling : 31/08/2021

Type of Stack : Coal Mill

Stack Sampling Height (8D) : 26 Meter

Laboratory Report No. : S/28/21-22

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 MEGHALAYA LIMITED Lumshnong, Meghalaya	Reference No.	SCML/EHS/F - 02
		Issue No.	01
	STACK ANALYSIS REPORT	Date of Issue:	01.04.2014
		Revision No.	01
		Date of Rev.	01.06.2019

Name of Sampling Location : SCML, Lumshnong

Date of Sampling : 31/08/2021

Type of Stack : Cooler ESP

Stack Sampling Height (8D) : 25 Meter

Laboratory Report No. : S/29/21-22

Parameters:

1) Particulate Matter (PM) : 22.5 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 MEGHALAYA LIMITED	Document No.	SCML/EHS/Env/F-04
		Date of Issued	01-05-2019
		Revision No.	2
	FUGITIVE EMISSION MONITORING REPORT	Revision Date	01-01-2021


Ref: SCML/Env/ Fugitive/Monthly/2021-22/005

Month: AUG - 2021

Date	Location	Fugitive Emission Results	Limit
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)
16.08.2021	Coal Storage Section	1260	2000
16.08.2021	Limestone Storage Section	1435	5000
16.08.2021	Clinker Loading Section	1580	2000


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	STAR CEMENT MEGHALAYA LIMITED Lumshnong, Meghalaya				Document No.	MPL/EHS/Env/F-03			
					Effective Date	01-05-2019			
	NOISE LEVEL MONITORING REPORT				Revision No.	04			
					Revision Date	01-01-2021			
Ref: SCL(LM)/Env/Noise/Monthly/2021-22/005					Date: 16.08.2021				
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	65.4	72.1	68.8		66.1	70.3	68.2	
2	Vertical Raw Mill	67.9	73.5	70.7		65.3	71.2	68.3	
3	Raw Mill WF	64.2	74.1	69.2		60.1	71.2	65.7	
4	Coal Mill	68.4	73.6	71.0		66.4	73.2	69.8	
5	Limestone Crusher (Dum)	70.6	72.8	71.7		61.3	72.9	67.1	
6	Additive Crusher	65.9	71.5	68.7		66.8	70.8	68.8	
B.									
1	CCR	64.7	67.3	66.0		59.4	64.3	61.9	
2	Meeting Room	66.8	66.4	66.6		62.4	66.8	64.6	
3	VP'S Room	57.0	58.6	57.8		54.8	67.9	61.4	
4	Inst. Shift Room	64.2	71.3	67.8		54.3	59.7	57.0	
5	Electrical Office	65.1	71.2	68.2		53.8	60.4	57.1	
6	QC Department	60.3	67.4	63.9		51.3	58.6	55.0	
	a)Chemical Lab	62.0	64.2	63.1		52.3	57.4	54.9	
	b)Physical Lab	63.7	68.4	66.1		52.8	61.3	57.1	
	c)XRF Lab	64.3	70.2	67.3		49.6	54.3	52.0	
	d) Sample Preparation R	66.9	70.3	68.6	51.6	49.7	50.7		
C.	Residential				55				45
1	450 Quater's	52.3	55.3	53.8		42.3	45.7	44.0	
2	Worker's Colony	46.3	55.4	50.9		40.3	46.2	43.3	



Measured By:



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	STAR CEMENT MEGHALAYA LIMITED Lumshnong, Meghalaya	Reference No.	SCML/EHS/F - 04
		Issue No.	01
		Date of Issue:	01.11.2015
	WATER TESTING REPORT	Revision No.	03
		Date of Rev.	01.06.2019

Report No. – 05				
				Date of Sample Collection: 03.08.2021 Analysis Date: 03.08.2021 to 07.08.2021
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	-	7.2	5.5 to 9.0
2	Suspended Solids	mg/lit	21.5	100
3	Total Dissolve Solids	mg/lit	331.7	-
4	Chemical Oxygen Demand	mg/lit	62.6	250
5	Biochemical Oxygen Demand (For 3 days at 27deg. C)	mg/lit	22.1	30
6	Oil & Grease	mg/lit	<3	10
7	Dissolved Oxygen	mg/lit	6.9	-


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