Regd. Office & Works: Lunshnong, PO-Khaliehriat, Distt. – East Jaintia Hills, Meghalaya-793210 Ph: 03655-278215/16/18, Fax: 03655-278217, e-mail: lumshnong@starcement.co.in

Ref: SCML/EHS/LUM/2022-23/08

Dated: 21/06/2022

To,

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

Subject

: Monthly Environment Monitoring Report.

Reference

: MPCB/TB-115/2009/Pt-II/2021-2022/113, Dtd: Shillong, the 7th February, 2022.

Dear Sir,

This is in reference to above cited subject, please find enclosed herewith the monthly Environmental monitoring reports of Ambient Air Quality including meteorological data, Stack Emission, Fugitive Emission & Water (Surface, STP & ETP) quality reports of M/s Star Cement Meghalaya Limited for the month of May, 2022.

This is for your kind information record please.

Thanking You,

Yours truly,

For STAR CEMENT MEGHALAYA LIMITED

Qualk

Surya Prakash Shrimali President Works

Enclosed: As mentioned above

Copy To: 1) The Deputy Director General of Forest (Central), Ministry of Environment Forest & Climate Change, Govt. of India, Regional Office, Shillong, Meghalaya-793021.

2) The Regional Director, Central Pollution Control Board (CPCB), North Eastern Zonal Office, 'TUMSIR', Lower Motinagar, Shillong, Meghalaya-790314.



Lumshnong, Meghalaya

 Reference No.
 SCML/Env/F - 01

 Issue No.
 1

 Date of Issue:
 24.08.2013

 Revision No.
 5

AMBIENT AIR QUALITY MONITORING REPORT 01.12.2020 Date of Rev. Month:May'22 Reference No.: SCML/ENV/AAQM/MONTHLY/2022-23/31 Location of Sampling: Vishwakarma Colony GPS Coordinate: 25°10'46"N 92°23'17"E 552 m Sampling Duration: 24 Hrs. 24 Hrs. 24 Hrs. 24 Hrs. **Date of Sampling** $PM_{10} (\mu g/m^3)$ $PM_{2.5}(\mu g/m^3)$ SO_2 ($\mu g/m^3$) $NO_2 (\mu g/m^3)$

No Monitoring Due To Heavy Rainfall

NAAQS permissible limits				
for Rural, Industrial,	100 (μg/m³)	60 (μg/m³)	80 (μg/m³)	80 (μg/m³)
Residential Area				

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

Analysed by

Checked by



Lumshnong, Meghalaya

Reference No.	SCML/Env/F – 01	
Issue No.	1	
Date of Issue:	24.08.2013	
Revision No.	5	
D-tf D	04 42 2020	

AMBIENT AIR QUALITY MONITORING REPORT 01.12.2020 Date of Rev. Reference No.: SCML/ENV/AAQM/MONTHLY/2022-23/32 Month:May'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** NO_2 ($\mu g/m^3$) PM_{10} ($\mu g/m^3$) $PM_{2.5}(\mu g/m^3)$ SO_2 ($\mu g/m^3$)

No Monitoring Due To Heavy Rainfall

NAAQS permissible limits				
for Rural, Industrial,	100 (μg/m³)	60 (μg/m³)	80 (μg/m³)	80 (μg/m³)
Residential Area				

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

Analysed by

Checked by



Lumshnong, Meghalaya

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

AMBIENT AIR QUALITY MONITORING REPORT

 Reference No.: SCML/ENV/AAQM/MONTHLY/2022-23/33
 Month: May'22

 Location of Sampling: Near STP
 GPS Coordinate: 25°10′49″N 92°23′58″E 947 m

 Sampling Duration:
 24 Hrs.
 24 Hrs.
 24 Hrs.
 24 Hrs.
 NO₂ (µg/m³)
 NO₂ (µg/m³)
 NO₂ (µg/m³)

No Monitoring Due To Heavy Rainfall

NAAQS permissible limits				
for Rural, Industrial,	100 (μg/m³)	60 (μg/m³)	80 (μg/m³)	80 (μg/m³)
Residential Area				

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

Analysed by

Checked by

STARCEMENT Solid Setting

STAR CEMENT MEGHALAYA LIMITED

Lumshnong, Meghalaya

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

Month: May'22

STACK EMISSION MONITORING ANALYSIS REPORT

Report No: SCML/ENV/STACK/MONTHLY/2022-23/61

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	Coller
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
В.	Physical characteristic of stack					
1	Stack Height from ground level (meter)	24.2	21.0	70.0	59.5	50.0
2	Duct diameter at sampling point (meter)	1.6	1.2	5.8	1.8	4.0
3	Sampling height point from ground level (meter)	-	1	23.15	10.38	-
4	Cross sectional area of Duct/Stack (m ²)	2.01	1.13	26.41	2.54	12.56
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 I	Emission				
1	Date of Sampling	04.05.2022	06.05.2022	01.05.2022	03.05.2022	02.05.2022
2	Ambient Temp (°C)	23	25	38	25	40
3	Stack Gas Temp (°C)	35	43	180	80	310
4	Exit Velocity of Gas (m/sec.)	14.07	13.53	16.14	15.43	12.73
5	Flow Rate (Nm³/ sec.)	25.76	13.38	255.69	30.89	76.44
6	Quantity of Emission (Nm ³ / Hr)	92721.96	48172.68	920489.60	111210.66	275179.92
7	Concentration of PM (mg/Nm³)	17.79	17.69	15.93	16.62	13.67
8	Concentration of SO ₂ (mg/Nm ³)	-	-	807.93	-	-
9	Concentration of NOx (mg/Nm³)	-	-	488.22	-	-
10	Oxygen (O ₂) (%)	9.75	9.42	10.54	10.87	9.85
E.	Remarks					

Standard				
PM - 30 mg/Nm ³	SO ₂ - 1000 mg/Nm ³	NOx - 800 mg/Nm ³		

Particulate Matter (PM), Sulphur di-oxide (SO 2), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP), Limestone (LS), Additive (Add)

Analysis by

Checked by

Authorized Signatory



Lumshnong, Meghalaya

FUJITIVE EMISSION MONITORING REPORT

 Document No.
 SCML/EHS/Env/F-04

 Date of Issued
 01-05-2019

 Revision No.
 2

 Revision Date
 01-01-2021

Ref: SCML/ENV/FUGITIVE/MONTHLY/2022-23/014

Month - May' 2022

Date	Location	Fugitive Emission Results	Limit
		(in µg/m³)	(in µg/m³)
06.05.2022	Coal Storage Section	1302	2000
06.05.2022	Limestone Storage Section	1180	5000
06.05.2022	Clinker Loading Section	1378	2000

Analyzed By

Checked By



STAR CEMENT MEGHALAYA LIMITED	Reference No.	SCML/EHS/F-04	
	Issue No.	1	
Lumshnong, Meghalaya	Date of Issue:	24.08.2013	
WATER TESTING REPORT	Revision No.	3	
WATER TESTING REPORT	Date of Pey	01.06.2010	

Report	No 14	Date of sample collection: - 20.05.2022		
	T	Date of Analysis: 20.05.2022 to 23.05.2022		
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	рН	-	7.25	-
2	Colour	Hazen	Colourless	-
3	Odour	-	Odourless	-
4	Chloride	mg/L	60.5	-
5	Total Hardness as CaCO₃	mg/L	143.8	-
6	Suspended Solids	mg/L	79.5	-
7	Total Dissolve Solids	mg/L	235	-
8	Chemical Oxygen Demand	mg/L	181	-
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	94.0	-
10	Oil & Grease	mg/L	8.5	-
11	Temperature	°C	24.0	-
12	Conductivity	μS/cm	440.0	-

Analysis By

Checked BY

Verified By

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

Report	No 14	Date of sample collection: - 20.05.2022		
Sr.No.	Parameter	Unit	STP Outlet	Date of Analysis: 20.05.2022 to 23.05.2022 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	рН	-	7.56	5.5 to 9.0
2	Colour	Hazen	Colourless	-
3	Odour	-	Odourless	-
4	Chloride	mg/L	48.2	-
5	Total Hardness as CaCO₃	mg/L	135.2	-
6	Suspended Solids	mg/L	7.5	100
7	Total Dissolve Solids	mg/L	305	-
8	Chemical Oxygen Demand	mg/L	27.4	250
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	4.5	30
10	Oil & Grease	mg/L	< 3.0	10
11	Temperature	° C	24.0	Shall not exceed 5.0°C above the receiving water temperature
12	Conductivity	μS/cm	455	-

Analysis By

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

Report	·			Date of sample collection: - 14.04.2022 Date of Analysis: 14.05.2022 to 17.05.2022
Sr.No.	Parameter	Unit	ETP 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	рН	-	6.7	-
2	Suspended Solids	mg/L	74	-
3	Total Dissolve Solids	mg/L	760	-
4	Chemical Oxygen Demand	mg/L	350.4	-
5	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	80.0	-
6	Oil & Grease	mg/L	102.6	-
7	Dissolved Oxygen	mg/L	3.2	-
8	Temperature	° C	24.5	-

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Lumshnong, Meghalaya

WATER TESTING REPORT

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

Report	Report No 14			Date of sample collection: - 14.04.2022 Date of Analysis: 14.05.2022 to 17.05.2022
Sr.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	рН	-	7.5	5.5 to 9.0
2	Suspended Solids	mg/L	13	100
3	Total Dissolve Solids	mg/L	590	-
4	Chemical Oxygen Demand	mg/L	28.0	250
5	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	3.8	30
6	Oil & Grease	mg/L	< 3.0	10
7	Dissolved Oxygen	mg/L	5.9	-
8	Temperature	° C	24.5	Shall not exceed 5.0°C above the receiving water temperature

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Lumshnong, Meghalaya

WATER TESTING REPORT

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

Report No. -14 Date of sample collection: - 20.05.2022

Date of Analysis: 20.05.2022 to 23.05.2022

Date 01 Arialysis. 20.03.2022 to 25.05.2022					
Sr.No.	Parameter	Unit	Nala Up Stream	Nala Down Stream	Standards norms as per IS 2296
1	рН	-	7.45	7.26	6.5 - 8.5
2	Colour	Hazen	Colourless	Colourless	300
3	Odour	-	Unobjectionable	Unobjectionable	Unobjectionable
4	Chloride	mg/L	140.2	143.9	-
5	Total Hardness as CaCO₃	mg/L	14.6	12.8	300
6	Suspended Solids	mg/L	83.4	80.5	-
7	Total Dissolve Solids	mg/L	85	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	335.40	325.9	-

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