

# STAR CEMENT MEGHALAYA LIMITED

**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](mailto:lumshnong@starcement.co.in)

Ref: SCML/EHS/LUM/2022-23/05

Dated: 21/05/2022

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 7<sup>th</sup> February, 2022.

Dear Sir,

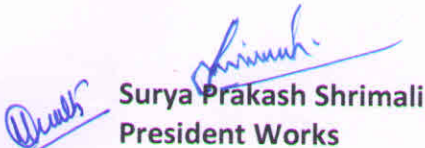
Please find enclosed herewith the monthly Environmental monitoring reports of Ambient Air Quality including meteorological data, Stack Emission, Fugitive Emission & Water (Surface, STP & ETP) quality reports of M/s Star Cement Meghalaya Limited for the month of **April, 2022.**

This is for your kind information record please.

Thanking You,

Yours truly,

For **STAR CEMENT MEGHALAYA LIMITED**


  
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.

**STARCEMENT**  
**Solid Setting**

**Corporate Office :** Satyam Tower, 3 Alipore Road, 1<sup>st</sup> Floor, Unit No. 9B, Kolkata-700027  
Ph: +91 33 2448 4169 / 4170 / 4693, Fax: +91 332448 4168, e-mail: [kolkata@starcement.co.in](mailto:kolkata@starcement.co.in)  
CIN : U63090ML2005PLC008011


	<b>STAR CEMENT MEGHALAYA LIMITED</b> Lumshnong, Meghalaya		Reference No.	SCML/Env/F – 01
			Issue No.	1
	<b>AMBIENT AIR QUALITY MONITORING REPORT</b>		Date of Issue:	24.08.2013
			Revision No.	5
			Date of Rev.	01.12.2020
Reference No.: SCML/ENV/AAQM/MONTHLY/2021-22/30			Month: April'22	
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 <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
No monitoring due to Rainfall				
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m <sup>3</sup> )	60 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )

**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


	<b>STAR CEMENT MEGHALAYA LIMITED</b> Lumshnong, Meghalaya		Reference No.	SCML/Env/F – 01
			Issue No.	1
	<b>AMBIENT AIR QUALITY MONITORING REPORT</b>		Date of Issue:	24.08.2013
			Revision No.	5
			Date of Rev.	01.12.2020
Reference No.: SCML/ENV/AAQM/MONTHLY/2021-22/31			Month: April'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 <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
No monitoring due to Rainfall				
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m <sup>3</sup> )	60 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )

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

  
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	<b>STAR CEMENT MEGHALAYA LIMITED</b> Lumshnong, Meghalaya		Reference No.	SCML/Env/F – 01
			Issue No.	1
	<b>AMBIENT AIR QUALITY MONITORING REPORT</b>		Date of Issue:	24.08.2013
			Revision No.	5
		Date of Rev.	01.12.2020	
Month: April'22			Month: April'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.
Date of Sampling	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
No monitoring due to Rainfall				
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m <sup>3</sup> )	60 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )

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




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


Report No: SCML/ENV/STACK/MONTHLY/2021-22/60			Month: April'22			
<b><u>Analysis Result</u></b>						
<b>A. General Information About Stack</b>						
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
<b>B. Physical characteristic of stack</b>						
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)	-	-	23.15	10.38	-
4	Cross sectional area of Duct/Stack (m <sup>2</sup> )	2.01	1.13	26.41	2.54	12.56
<b>C. Pollution Control Device</b>						
1	Details of pollution control device attached to stack	Bag Filter	Bag Filter	Reverse Air Bag House	Bag Filter	ESP
<b>D. Result of Sampling &amp; Analysis of Gaseous Emission</b>						
1	Date of Sampling	13.04.2022	18.04.2022	19.04.2022	13.04.2022	18.04.2022
2	Ambient Temp (°C)	22	24	35	23	35.5
3	Stack Gas Temp (°C)	33	45	175	70	300
4	Exit Velocity of Gas (m/sec.)	13.76	14.52	15.61	15.61	13.06
5	Flow Rate (Nm <sup>3</sup> / sec.)	25.36	14.27	250.96	32.13	79.79
6	Quantity of Emission (Nm <sup>3</sup> / Hr)	91287.70	51366.76	903469.65	115651.09	287252.07
7	Concentration of PM (mg/Nm <sup>3</sup> )	19.21	21.10	16.92	19.97	11.12
8	Concentration of SO <sub>2</sub> (mg/Nm <sup>3</sup> )	-	-	745.89	-	-
9	Concentration of NO <sub>x</sub> (mg/Nm <sup>3</sup> )	-	-	466.9	-	-
10	Oxygen (O <sub>2</sub> ) (%)	9.58	9.04	10.64	10.74	9.64
<b>E. Remarks</b>						
<b>Standard</b>						
PM - 30 mg/Nm <sup>3</sup>		SO <sub>2</sub> - 1000 mg/Nm <sup>3</sup>		NO <sub>x</sub> - 800 mg/Nm <sup>3</sup>		
Particulate Matter (PM), Sulphur di-oxide (SO <sub>2</sub> ), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP), Limestone (LS), Additive (Add)						
 <b>Analysis by</b>		 <b>Checked by</b>		 <b>Authorized Signatory</b>		

	<b>STAR CEMENT MEGHALAYA LIMITED</b> Lumshnong, Meghalaya	Document No.	SCML/EHS/Env/F-04
		Date of Issued	5/1/2019
		Revision No.	2
	<b>FUGITIVE EMISSION MONITORING REPORT</b>	Revision Date	1/1/2021

Ref: SCML/ENV/FUGITIVE/MONTHLY/2021-22/013


Month - April' 2022

Date	Location	Fugitive Emission Results	Limit
		(in $\mu\text{g}/\text{m}^3$ )	(in $\mu\text{g}/\text{m}^3$ )
07.04.2022	Coal Storage Section	1298	2000
07.04.2022	Limestone Storage Section	1157	5000
07.04.2022	Clinker Loading Section	1368	2000

  
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Checked By

  
Verified By

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

Report No. - 13


Date of sample collection: - 13.04.2022  
Date of Analysis: 13.04.2022 to 16.04.2022

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	pH	-	7.10	-
2	Colour	Hazen	Colourless	-
3	Odour	-	Odourless	-
4	Chloride	mg/L	63.5	-
5	Total Hardness as CaCO <sub>3</sub>	mg/L	142.7	-
6	Suspended Solids	mg/L	78.9	-
7	Total Dissolve Solids	mg/L	230	-
8	Chemical Oxygen Demand	mg/L	176	-
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	90.0	-
10	Oil & Grease	mg/L	7.5	-
11	Temperature	° C	24.0	-
12	Conductivity	μS/cm	455.0	-

  
Analysis By

  
Checked BY

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

Report No. - 13 Date of sample collection: - 13.04.2022  
Date of Analysis: 13.04.2022 to 16.04.2022


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	-	7.50	5.5 to 9.0
2	Colour	Hazen	Colourless	-
3	Odour	-	Odourless	-
4	Chloride	mg/L	49.5	-
5	Total Hardness as CaCO <sub>3</sub>	mg/L	138.6	-
6	Suspended Solids	mg/L	7.8	100
7	Total Dissolve Solids	mg/L	312	-
8	Chemical Oxygen Demand	mg/L	28.6	250
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	4.9	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	462	-

  
Analysis By

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

Report No. - 08


Date of sample collection: - 13.04.2022  
Date of Analysis: 13.04.2022 to 16.04.2022

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	pH	-	6.8	-
2	Suspended Solids	mg/L	77	-
3	Total Dissolve Solids	mg/L	765	-
4	Chemical Oxygen Demand	mg/L	380.0	-
5	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	75.6	-
6	Oil & Grease	mg/L	103.6	-
7	Dissolved Oxygen	mg/L	2.7	-
8	Temperature	° C	23.6	-

  
Analysis By


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


Report No. - 13	Date of sample collection: - 13.04.2022
	Date of Analysis: 13.04.2022 to 16.04.2022

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	pH	-	7.7	5.5 to 9.0
2	Suspended Solids	mg/L	15	100
3	Total Dissolve Solids	mg/L	612	-
4	Chemical Oxygen Demand	mg/L	30.5	250
5	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	4.7	30
6	Oil & Grease	mg/L	< 3.0	10
7	Dissolved Oxygen	mg/L	5.8	-
8	Temperature	° C	24.8	Shall not exceed 5.0°C above the receiving water temperature

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

Report No. -13

Date of sample collection: - 05.04.2022

Date of Analysis: 05.04.2022 to 08.04.2022

Sr.No.	Parameter	Unit	Nala Up Stream	Nala Down Stream	Standards norms as per IS 2296
1	pH	-	7.40	7.30	6.5 - 8.5
2	Colour	Hazen	Colourless	Colourless	300
3	Odour	-	Unobjectionable	Unobjectionable	Unobjectionable
4	Chloride	mg/L	141.5	144.5	-
5	Total Hardness as CaCO <sub>3</sub>	mg/L	15.7	12.6	300
6	Suspended Solids	mg/L	82.0	80.9	-
7	Total Dissolve Solids	mg/L	86	82.4	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	25.0	25.0	-
12	Conductivity	μS/cm	332.05	322.6	-

  
Analysis By

  
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