
	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.	5
			Date of Rev.	01.12.2020
Reference No.: SCML/ENV/AAQM/MONTHLY/2022-23/32			Month: June'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 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.


Analysed by


Checked by


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	STAR CEMENT MEGHALAYA LIMITED Lumshnong, Meghalaya		Reference No.	SCML/Env/F – 01
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	AMBIENT AIR QUALITY MONITORING REPORT		Date of Issue:	24.08.2013
			Revision No.	5
		Date of Rev.	01.12.2020	
Reference No.: SCML/ENV/AAQM/MONTHLY/2022-23/33			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)
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)

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			Revision No.	5
			Date of Rev.	01.12.2020
Reference No.: SCML/ENV/AAQM/MONTHLY/2022-23/34			Month: June'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 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 MEGHALAYA LIMITED Lumshnong, Meghalaya				Reference No.	SCML/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: SCML/ENV/STACK/MONTHLY/2022-23/62 Month: June'22						
<u>Analysis Result</u>						
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
B. 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)	-	-	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 Emission						
1	Date of Sampling	07.06.2022	07.06.2022	17.06.2022	11.06.2022	17.06.2022
2	Ambient Temp (°C)	25	24	35	23	37
3	Stack Gas Temp (°C)	40	45	200	72	230
4	Exit Velocity of Gas (m/sec.)	14.30	13.79	7.88	14.68	10.51
5	Flow Rate (Nm ³ / sec.)	25.76	13.55	122.73	30.50	74.05
6	Quantity of Emission (Nm ³ / Hr)	92730.59	48792.72	441811.80	109809.37	266574.67
7	Concentration of PM (mg/Nm ³)	19.11	20.67	11.73	24.57	19.21
8	Concentration of SO ₂ (mg/Nm ³)	-	-	679.62	-	-
9	Concentration of NOx (mg/Nm ³)	-	-	444.57	-	-
10	Oxygen (O ₂) (%)	9.58	9.28	10.47	10.64	9.58
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		

	STAR CEMENT MEGHALAYA LIMITED Lumshnong, Meghalaya	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/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
Clinker Loading Section		2000




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	STAR CEMENT MEGHALAYA LIMITED Lumshnong, Meghalaya				Document No.		SCML/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								
1	Kiln	63.2	70.3	66.8	75	61.5	67.7	64.6	70
2	Vertical Raw Mill	64.4	70.9	67.6		59.8	65.8	62.8	
3	Raw Mill WF	60.3	71.9	66.1		61.5	66.5	64.0	
4	Coal Mill	63.7	70.6	67.2		59.5	65.6	62.6	
5	Limestone Crusher(Dump Hopper)	63.3	70.4	66.9		62.5	66.7	64.6	
6	Additive Crusher	63.6	71.9	67.7		57.5	67.4	62.5	
B.									
1	CCR	60.5	61.5	61.0		55.4	63.4	59.4	
2	Meeting Room	61.5	66.2	63.9		60.4	56.3	58.4	
3	VP'S Room	56.2	60.4	58.3		49.8	58.2	54.0	
4	Inst. Shift Room	56.7	67.4	62.1		52.9	55.9	54.4	
5	Electrical Office	62.8	68.6	65.7		48.2	60.4	54.3	
6	QC Department	58.2	63.9	61.1		52.6	56.0	54.3	
	a)Chemical Lab	62.5	63.8	63.2		50.6	54.6	52.6	
	b)Physical Lab	61.5	68.5	65.0		50.4	60.5	55.5	
	c)XRF Lab	63.0	66.2	64.6		48.0	53.8	50.9	
	d) Sample Preparation Room	60.4	63.0	61.7		50.6	56.6	53.6	
C.	Residential				55				45
1	450 Quater's	46.3	50.6	48.5		38.6	40.6	39.6	
2	Worker's Colony	43.9	46.3	45.1		36.9	38.6	37.8	


Analyzed by


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	STAR CEMENT MEGHALAYA LIMITED Lumshnong, Meghalaya	Reference No.	SCML/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

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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	STAR CEMENT MEGHALAYA 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. - 10


Date of sample collection: - 13.06.2022
Date of Analysis: 13.06.2022 to 16.06.2022

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	-	6.9	-
2	Suspended Solids	mg/L	72	-
3	Total Dissolve Solids	mg/L	765	-
4	Chemical Oxygen Demand	mg/L	354.0	-
5	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	87.0	-
6	Oil & Grease	mg/L	106.5	-
7	Dissolved Oxygen	mg/L	4.0	-
8	Temperature	° C	24.5	-


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	STAR CEMENT MEGHALAYA 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: - 13.06.2022
Date of Analysis: 13.06.2022 to 16.06.2022

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	-	7.6	5.5 to 9.0
2	Suspended Solids	mg/L	15	100
3	Total Dissolve Solids	mg/L	560	-
4	Chemical Oxygen Demand	mg/L	29.0	250
5	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	4.0	30
6	Oil & Grease	mg/L	< 3.0	10
7	Dissolved Oxygen	mg/L	5.7	-
8	Temperature	° C	24.5	Shall not exceed 5.0°C above the receiving water temperature



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STARCEMENT Solid Setting	STAR CEMENT MEGHALAYA 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

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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