



STAR CEMENT MEGHALAYA LIMITED

Lumshnong, Meghalaya

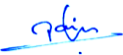
Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Wind Direction (deg)	Wind Speed- (m/s)	Manual Rain (mm)
01-10-2022	962.5	76.08	23.76	158.32	0.83	0
02-10-2022	963.22	96.91	23.6	133.39	1.01	48
03-10-2022	962.51	69.98	23.28	104.41	0.87	30.5
04-10-2022	961.8	61.42	23.34	317.25	0.7	0
05-10-2022	960.64	60.25	27.69	145.46	1.24	43
06-10-2022	959.5	70.24	29.34	154.44	0.77	0
07-10-2022	958.99	71.48	29.4	82.61	1.33	10
08-10-2022	958.89	82.07	23.47	347.05	1.81	18
09-10-2022	959.4	95.86	30.97	247.63	1.53	16
10-10-2022	958.24	96.89	33.5	249.74	1.91	5
11-10-2022	957.91	98.37	34.21	269.57	1.61	80
12-10-2022	959.47	67.35	29.31	104.41	1.68	38.6
13-10-2022	962.91	50.84	29.9	317.25	1.71	25.2
14-10-2022	963.23	49.95	27.26	145.46	5.13	0
15-10-2022	962.5	49.32	23.48	154.44	1.28	0
16-10-2022	963.22	60.25	23.71	82.61	0.71	0
17-10-2022	958.24	70.24	23.3	347.05	3.22	0
18-10-2022	957.91	71.48	32.29	247.63	1.28	0
19-10-2022	959.47	82.07	35.06	249.74	0.71	0
20-10-2022	962.91	95.86	23.48	269.57	3.22	0
21-10-2022	963.23	96.89	23.71	202.09	1.07	0
22-10-2022	962.5	98.37	23.3	130.42	0.72	0
23-10-2022	963.22	67.35	32.29	172.25	0.93	0
24-10-2022	962.51	50.84	35.06	193.15	1.53	55
25-10-2022	961.8	49.95	35.07	178.3	1.91	63
26-10-2022	960.64	49.32	36.08	202.26	1.61	10
27-10-2022	959.5	48.69	35.68	131.51	1.68	0
28-10-2022	958.99	46.2	35.81	148.8	2.06	0
29-10-2022	958.89	69.95	30.57	319.17	2.58	0
30-10-2022	959.4	74.53	29.55	302.38	3.62	0
31-10-2022	960.64	49.32	36.08	202.26	1.61	0
					Total rain of this month	442.3

	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/2022-23/13			Month: October'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)
01.10.2022	46.19	26.34	12.88	14.90
04.10.2022	48.28	31.38	10.60	12.15
06.10.2022	47.90	27.30	12.85	17.25
10.10.2022	49.59	26.34	11.60	13.55
14.10.2022	47.47	29.76	13.92	15.28
15.10.2022	50.54	29.66	10.85	16.54
17.10.2022	50.90	28.01	9.70	14.24
18.10.2022	48.50	27.26	13.28	13.94
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		 Verified By	

	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/2022-23/14			Month: October'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)
01.10.2022	49.15	29.93	10.30	14.95
04.10.2022	47.88	28.32	13.24	13.14
06.10.2022	48.27	29.68	10.80	14.42
10.10.2022	52.74	26.21	10.58	11.24
14.10.2022	47.90	25.30	9.85	14.17
15.10.2022	49.65	29.76	11.60	14.90
17.10.2022	50.10	28.17	9.12	11.40
18.10.2022	47.40	27.61	12.60	11.94
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  Verified By				

	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/2022-23/15			Month: October'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)
01.10.2022	46.29	23.76	16.25	16.54
04.10.2022	47.38	22.26	14.95	20.04
06.10.2022	46.36	25.76	12.85	17.90
10.10.2022	45.59	22.76	14.95	20.47
14.10.2022	44.90	25.21	15.60	17.40
15.10.2022	42.58	27.16	12.88	19.44
17.10.2022	42.90	27.76	13.60	21.58
18.10.2022	40.59	26.36	16.24	18.04
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  Verified By				

	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/2022-23/07					Month: October'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	Cooler
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	28.10.2022	28.10.2022	28.10.2022	13.10.2022	13.10.2022
2	Ambient Temp (°C)	23	25	30	33	42
3	Stack Gas Temp (°C)	34	40	150	60	265
4	Exit Velocity of Gas (m/sec.)	13.01	12.71	9.61	7.45	9.80
5	Flow Rate (Nm ³ / sec.)	23.73	12.69	168.05	16.04	64.56
6	Quantity of Emission (Nm ³ / Hr)	85444.37	45686.89	604996.50	57742.77	232402.33
7	Concentration of PM (mg/Nm ³)	19.48	22.16	16.30	27.36	13.68
8	Concentration of SO ₂ (mg/Nm ³)	-	-	478.1	-	-
9	Concentration of NO _x (mg/Nm ³)	-	-	628.5	-	-
10	Oxygen (O ₂) (%)	9.2	9.7	9.5	9.1	9.2
E. Remarks						
Standard						
PM - 30 mg/Nm ³		SO ₂ - 1000 mg/Nm ³		NO _x - 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/2022-23/007				
Month - October 2022				
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline	
			Limit	
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)	
27.10.2022	Coal Storage Section	1360	2000	
27.10.2022	Limestone Storage Section	1392	5000	
27.10.2022	Clinker Loading Section	1400	2000	
 Analyzed By  Checked By  Verified By				

	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	

Reference No.: SCML/ENV/WATER/MONTHLY/2022-23/07

Date of sample collection: - 10.10.2022
Date of Analysis: 10.10.2022 to 13.10.2022

Sl.No.	Parameter	Unit	STP Inlet	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	-	7.6	7.8	5.5 to 9.0
2	Colour	Hazen	Colourless	Colourless	-
3	Odour	-	Odourless	Odourless	-
4	Chloride	mg/L	39.7	42.1	-
5	Total Hardness as CaCO ₃	mg/L	82.1	85.5	-
6	Suspended Solids	mg/L	68.0	5.0	100
7	Total Dissolve Solids	mg/L	243	285	-
8	Chemical Oxygen Demand	mg/L	143	27.0	250
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	65.0	3.5	30
10	Oil & Grease	mg/L	9.7	< 3.0	10
11	Temperature	° C	25.0	25.0	Shall not exceed 5.0°C above the receiving water temperature
12	Conductivity	µS/cm	451.0	530	-


 Analysis By


 Checked By


 Verified By

	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	

Reference No.: SCL/ENV/WATER/MONTHLY/2022-23/07

Date of sample collection: - 10.10.2022
Date of Analysis: 10.10.2022 to 13.10.2022

Sl.No.	Parameter	Unit	ETP Inlet	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	-	6.9	7.3	5.5 to 9.0
2	Suspended Solids	mg/L	94	10	100
3	Total Dissolve Solids	mg/L	360	230	-
4	Chemical Oxygen Demand	mg/L	310	35.0	250
5	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	85.0	9.5	30
6	Oil & Grease	mg/L	101	< 3.0	10
7	Dissolved Oxygen	mg/L	4.8	5.5	-
8	Temperature	° C	25.0	25.0	Shall not exceed 5.0°C above the receiving water temperature


Analysis By


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STAR CEMENT MEGHALAYA LIMITED
Lumshnong, Meghalaya

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

WATER TESTING REPORT

Reference No.: SCML/ENV/WATER/MONTHLY/2022-23/07

Surface Water Analysis Results

Date of sample collection: - 14.10.2022

Month: October-2022

Date of Analysis: 14.10.2022 to 17.10.2022

S.No.	Parameter	Unit	Umtyrngai Nallah		Umutha Nallah		Umso	Seshysmpa	Lumshnong	Umbadoh	Tongseng	Wahiajer	Standards norms as per IS 2296
			Up Stream	Down Stream	Up Stream	Down Stream	Down Stream		Seasonal Spring / Seasonal Nallah				
1	pH	-	7.80	7.45	7.60	7.80	7.50	6.9	7.6	8.0	7.4	7.6	6.5 - 8.5
2	Colour	Hazen	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	10
3	Odour	-	Unobjectionable										Unobjectionable
4	Chloride	mg/L	43.1	45.2	34.6	35.9	51.4	25.4	22.0	18.4	27.4	25.8	250
5	Total Hardness as CaCO ₃	mg/L	69.8	76.0	73.5	78.5	80.0	40.3	28.2	75.6	37.4	50.1	300
6	Suspended Solids	mg/L	14.0	20.0	17.5	19.0	20.0	7.0	4.0	5.9	2.0	6.5	-
7	Total Dissolve Solids	mg/L	229	235	173	189	198	92.0	52.0	171.0	72.0	138.0	500
8	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0
9	Oil & Grease	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
10	Temperature	° C	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	-
11	Conductivity	µS/cm	382.0	391.0	295.0	310.0	325.0	170.0	95.8	345.0	124.0	327.0	-
12	Flow	L / Min	6683.50	8537.10	1505.20	3920.30	61703.82	705864.30	2173.77	-	-	-	-

Analyzed by

Checked by

Verified by