

	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/2021-22/20			Month: Oct'21	
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)
06-10-2021	48.21	31.71	11.44	14.17
08-10-2021	46.43	30.53	13.09	15.19
12-10-2021	45.09	29.31	9.21	11.79
22-10-2021	43.86	28.24	8.34	10.89
25-10-2021	44.85	28.90	9.00	11.55
28-10-2021	45.52	29.90	10.00	12.55
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
			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/2021-22/21			Month: Oct'21		
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)	
01-10-2021	53.55	35.29	14.32	17.91	
07-10-2021	53.98	35.57	15.07	18.03	
09-10-2021	51.01	33.62	12.63	17.67	
14-10-2021	52.88	34.85	11.30	15.69	
16-10-2021	54.81	36.12	13.93	16.81	
23-10-2021	53.33	35.11	14.81	17.74	
26-10-2021	50.39	33.17	12.40	17.39	
29-10-2021	52.24	34.39	11.08	15.43	
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 – 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/2021-22/22			Month: Oct'21	
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)
06-10-2021	48.16	30.56	15.73	20.77
08-10-2021	45.64	28.93	15.06	19.79
12-10-2021	43.74	27.21	13.47	18.15
22-10-2021	42.74	26.21	12.47	17.15
25-10-2021	45.04	27.52	16.72	20.78
28-10-2021	46.95	29.25	18.34	22.44
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



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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/2020-21/54

Month: October'21

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
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	22.10.2021	01.10.2021	08.10.2021	26.10.2021	11.10.2021
2	Ambient Temp (°C)	25	25	25	25	25
3	Stack Gas Temp (°C)	47	53	44	45	57
4	Exit Velocity of Gas (m/sec.)	12.26	12.54	12.86	11.39	11.81
5	Flow Rate (Nm ³ / sec.)	0.29	0.31	0.30	0.25	0.26
6	Quantity of Emission (Nm ³ / Hr)	76772.39	43880.76	1084824.47	91638.04	462814.14
7	Concentration of PM (mg/Nm ³)	25.86	19.08	23.19	20.95	18.67
8	Concentration of SO ₂ (mg/Nm ³)	-	-	497.51	-	-
9	Concentration of NO _x (mg/Nm ³)	-	-	258.32	-	-
10	Oxygen (O ₂) (%)	9.12	8.67	9.00	8.55	9.15
E. Remarks						

Standard

PM - 30 mg/Nm ³	SO ₂ - 1000 mg/Nm ³	NO _x - 800 mg/Nm ³
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Particulate Matter (PM), Sulphur di-oxide (SO₂), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP), Limestone (LS), Additive (Add)



Analysis by



Checked by



Authorized Signatory

	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/2021-22/007

Month - Oct'21

Date	Location	Fugitive Emission Results	Limit
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)
13.10.2021	Coal Storage Section	1300	2000
13.10.2021	Limestone Storage Section	1411	5000
13.10.2021	Clinker Loading Section	1554	2000


 Analyzed By


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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. - 02				Date of sample collection: - 07.10.2021
				Date of Analysis: 07.10.2021 to 10.10.2021
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	-	7.12	-
2	Suspended Solids	mg/L	77	-
3	Total Dissolve Solids	mg/L	751	-
4	Chemical Oxygen Demand	mg/L	759.0	-
5	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	64.4	-
6	Oil & Grease	mg/L	120.5	-
7	Dissolved Oxygen	mg/L	2.8	-
8	Temperature	° C	25.0	-

Analysis By

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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. - 07				Date of sample collection: - 07.10.2021 Date of Analysis: 07.10.2021 to 10.10.2021
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	14	100
3	Total Dissolve Solids	mg/L	735	-
4	Chemical Oxygen Demand	mg/L	27.6	250
5	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	3.9	30
6	Oil & Grease	mg/L	1.97	10
7	Dissolved Oxygen	mg/L	6.3	-
8	Temperature	° C	25.44	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
	WATER TESTING REPORT	Date of Issue:	24.08.2013
		Revision No.	3
		Date of Rev.	01.06.2019

Report No. - 07	Date of sample collection: - 07.10.2021 Date of Analysis: 07.10.2021 to 10.10.2021
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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	-	7.80	-
2	Colour	Hazen	Colourless	-
3	Odour	-	Odourless	-
4	Chloride	mg/L	55.34	-
5	Total Hardness as CaCO ₃	mg/L	155.26	-
6	Suspended Solids	mg/L	77.12	-
7	Total Dissolve Solids	mg/L	256	-
8	Chemical Oxygen Demand	mg/L	256	-
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	138.5	-
10	Oil & Grease	mg/L	7.5	-
11	Temperature	° C	26.3	-
12	Conductivity	μS/cm	417.68	-

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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. - 07				Date of sample collection: - 07.10.2021
				Date of Analysis: 07.10.2021 to 10.10.2021
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	-	7.91	5.5 to 9.0
2	Colour	Hazen	Colourless	-
3	Odour	-	Odourless	-
4	Chloride	mg/L	55.00	-
5	Total Hardness as CaCO ₃	mg/L	149.20	-
6	Suspended Solids	mg/L	7.8	100
7	Total Dissolve Solids	mg/L	251	-
8	Chemical Oxygen Demand	mg/L	37.5	250
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	8.8	30
10	Oil & Grease	mg/L	< 3.0	10
11	Temperature	° C	26.5	Shall not exceed 5.0°C above the receiving water temperature
12	Conductivity	µS/cm	418.6	-


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