STAR CEMENT MEGHALAYA LIMITED

CIN : U63090ML2005PLC008011

Corporate Office : Century House, P-15/1, Taratala Road, 2nd Floor, Kolkata - 700088 e-mail: kolkata@starcement.co.in

Ref: SCML/EHS/LUMS/2026-27/40 **Dated: 14/09/2026**

To,

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

Subject : **Submission of Environmental Monitoring Report for the month of August, 2026.**

Reference : **MPCB/ONLINE/RCTO (O-I) EJHD/2025/2025-26/14, Dtd: Shillong, the 7th October, 2025.**
: **MPCB/CL-166/2025-2026/12 Dated: Shillong, the 3rd June 2025.**
: **MPCB/CL-166/2025-2026/13 Dated: Shillong, the 3rd June 2025.**

Dear Sir,

This is in reference to above cited subject, we are hereby submitting the Monthly Environmental monitoring reports of Ambient Air Quality monitoring including Meteorological data, Stack Emission, Fugitive Emission, Noise, Surface water & Wastewater quality monitoring reports of **Star Cement Meghalaya Limited** which includes **Clinker unit, Clinker Grinding unit, Thermal Power Plant-43 MW,** & **Thermal Power Plant- 8 MW** for the month of **August, 2026.**

This is for your kind information, record and kindly acknowledges receipt of the same.

Thanking You,

Yours truly,
For **STAR CEMENT MEGHALAYA LIMITED**

Lokesh Kumar Bahety
Unit Head

Enclosed: a/a

Regd. Office & Works : Lumshnong, P.O. Khaliehriat, Dist. East Jaintia Hills, Meghalaya-793 210
Ph: 03655-278215/16/18, Fax : 03655-278217, e-mail : lumshnong@starcement.co.in

STAR CEMENT MEGHALAYA LIMITED

Lumshnong, Meghalaya

Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)
01-08-2026	983.5	98.3	24.7	77.8
02-08-2026	996.3	94.9	26.3	11.4
03-08-2026	993.7	89.1	27.2	21.8
04-08-2026	990.5	98.3	25.5	61.2
05-08-2026	989.1	96.5	25.7	67.0
06-08-2026	997.8	94.4	26.2	16.4
07-08-2026	998.5	93.5	26.7	7.6
08-08-2026	996.2	84.6	29.2	0.0
09-08-2026	995.0	90.9	27.2	13.6
10-08-2026	997.9	87.8	27.8	0.0
11-08-2026	994.1	90.5	28.8	11.2
12-08-2026	996.3	89.6	28.2	13.2
13-08-2026	993.4	97.9	29.2	2.6
14-08-2026	995.6	96.8	30.6	0.0
15-08-2026	986.9	96.9	30.6	4.3
16-08-2026	995.0	97.2	28.4	14.9
17-08-2026	996.7	97.5	27.6	13.4
18-08-2026	997.1	95.7	27.6	3.6
19-08-2026	996.9	95.2	25.7	11.6
20-08-2026	1002.6	97.8	25.3	0.0
21-08-2026	993.2	93.0	27.2	7.2
22-08-2026	1000.4	89.4	29.2	0.0
23-08-2026	985.5	96.9	27.1	3.2
24-08-2026	996.8	89.8	29.2	9.7
25-08-2026	993.9	84.8	26.5	8.0
26-08-2026	994.8	84.7	27.3	16.4
27-08-2026	997.5	85.2	24.3	37.4
28-08-2026	998.1	86.8	28.1	27.8
29-08-2026	993.7	86.3	26.9	11.4
30-08-2026	1001.5	94.7	28.6	10.8
31-08-2026	995.9	90.4	29.4	14.6
			Total	**498.1**

STAR CEMENT Solid Setting	**STAR CEMENT MEGHALAYA LIMITED** Lumshnong, Meghalaya		Reference No.	SCML/Env/F – 01
			Issue No.	1
			Date of Issue:	24.08.2013
	AMBIENT AIR QUALITY MONITORING REPORT		Revision No.	5
			Date of Rev.	01.12.2020

Reference No.: SCML/ENV/AAQM/MONTHLY/2026-27/05 | **Month : August'26**

Location of Sampling: Vishwakarma Colony | **GPS Coordinate:** 25°10'49.59"N 92°23'58.49"E

Sampling Duration:	**24 Hrs.**	**24 Hrs.**	**24 Hrs.**	**24 Hrs.**
Date of Sampling	**PM_{10} (µg/m³)**	**$PM_{2.5}$(µg/m³)**	**SO_2 (µg/m³)**	**NO_2 (µg/m³)**
03-08-2026	Rainfall	Rainfall	Rainfall	Rainfall
07-08-2026	39.22	21.19	15.70	14.78
12-08-2026	Rainfall	Rainfall	Rainfall	Rainfall
15-08-2026	39.53	19.62	15.88	12.76
19-08-2026	Rainfall	Rainfall	Rainfall	Rainfall
22-08-2026	40.72	21.50	14.61	15.80
26-08-2026	Rainfall	Rainfall	Rainfall	Rainfall
31-08-2026	Rainfall	Rainfall	Rainfall	Rainfall
NAAQS permissible limits for Rural, Industrial, Residential Area	**100 (µg/m³)**	**60 (µg/m³)**	**80 (µg/m³)**	**80 (µg/m³)**

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

Shailendra Kumar
Analysed by

Checked by

Verified By

STAR CEMENT Solid Setting	**STAR CEMENT MEGHALAYA LIMITED** **Lumshnong, Meghalaya**	**Reference No.**	**SCML/Env/F – 01**
		Issue No.	**1**
		Date of Issue:	**24.08.2013**
	AMBIENT AIR QUALITY MONITORING REPORT	**Revision No.**	**5**
		Date of Rev.	**01.12.2020**

Reference No.: SCML/ENV/AAQM/MONTHLY/2026-27/05 | **Month : August'26**

Location of Sampling: WHRS Colony | **GPS Coordinate:** 25°10'50.90"N 92°23'51.31"E

Sampling Duration:	**24 Hrs.**	**24 Hrs.**	**24 Hrs.**	**24 Hrs.**
Date of Sampling	**PM_{10} (µg/m³)**	**$PM_{2.5}$(µg/m³)**	**SO_2 (µg/m³)**	**NO_2 (µg/m³)**
03-08-2026	Rainfall	Rainfall	Rainfall	Rainfall
07-08-2026	40.31	20.53	16.68	14.94
12-08-2026	Rainfall	Rainfall	Rainfall	Rainfall
15-08-2026	40.38	20.02	15.19	14.66
19-08-2026	Rainfall	Rainfall	Rainfall	Rainfall
22-08-2026	42.36	21.40	16.83	13.61
26-08-2026	Rainfall	Rainfall	Rainfall	Rainfall
31-08-2026	Rainfall	Rainfall	Rainfall	Rainfall
NAAQS permissible limits for Rural, Industrial, Residential Area	**100 (µg/m³)**	**60 (µg/m³)**	**80 (µg/m³)**	**80 (µg/m³)**

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

Shailendra Kumar
Analysed by

Checked by

Verified By

STAR CEMENT Solid Setting	**STAR CEMENT MEGHALAYA LIMITED** Lumshnong, Meghalaya	Reference No.	SCML/Env/F – 01
		Issue No.	1
		Date of Issue:	24.08.2013
	AMBIENT AIR QUALITY MONITORING REPORT	Revision No.	5
		Date of Rev.	01.12.2020

Reference No.: SCML/ENV/AAQM/MONTHLY/2026-27/05 | **Month : August'26**

Location of Sampling: Nearby Guest House | **GPS Coordinate:** 25°10'35.63"N 92°23'14.70"E

Sampling Duration:	**24 Hrs.**	**24 Hrs.**	**24 Hrs.**	**24 Hrs.**
Date of Sampling	**PM_{10} (µg/m³)**	**$PM_{2.5}$(µg/m³)**	**SO_2 (µg/m³)**	**NO_2 (µg/m³)**
01-08-2026	Rainfall	Rainfall	Rainfall	Rainfall
05-08-2026	Rainfall	Rainfall	Rainfall	Rainfall
11-08-2026	Rainfall	Rainfall	Rainfall	Rainfall
13-08-2026	38.13	22.10	15.24	14.74
17-08-2026	Rainfall	Rainfall	Rainfall	Rainfall
21-08-2026	43.91	21.32	16.22	15.16
24-08-2026	42.04	21.29	15.97	11.62
28-08-2026	Rainfall	Rainfall	Rainfall	Rainfall
NAAQS permissible limits for Rural, Industrial, Residential Area	**100 (µg/m³)**	**60 (µg/m³)**	**80 (µg/m³)**	**80 (µg/m³)**

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

Shailendra Kumar
Analysed by

Checked by

Verified By

STAR CEMENT Solid Setting	**STAR CEMENT MEGHALAYA LIMITED** **Lumshnong, Meghalaya**	**Reference No.**	**SCML/Env/F – 01**
		Issue No.	**1**
		Date of Issue:	**24.08.2013**
	AMBIENT AIR QUALITY MONITORING REPORT	**Revision No.**	**5**
		Date of Rev.	**01.12.2020**

Reference No.: SCML/ENV/AAQM/MONTHLY/2026-27/05			**Month : August'26**	
Location of Sampling: Near TPP office		**GPS Coordinate:** 25°10'33.74"N 92°23'46.20"E		
Sampling Duration:	**24 Hrs.**	**24 Hrs.**	**24 Hrs.**	**24 Hrs.**
Date of Sampling	**PM_{10} (µg/m³)**	**$PM_{2.5}$(µg/m³)**	**SO_2 (µg/m³)**	**NO_2 (µg/m³)**
03-08-2026	Rainfall	Rainfall	Rainfall	Rainfall
07-08-2026	49.08	23.32	19.94	17.36
12-08-2026	Rainfall	Rainfall	Rainfall	Rainfall
15-08-2026	42.30	23.72	17.89	14.77
19-08-2026	Rainfall	Rainfall	Rainfall	Rainfall
22-08-2026	50.66	24.31	19.25	16.63
26-08-2026	Rainfall	Rainfall	Rainfall	Rainfall
31-08-2026	Rainfall	Rainfall	Rainfall	Rainfall
NAAQS permissible limits for Rural, Industrial, Residential Area	**100 (µg/m³)**	**60 (µg/m³)**	**80 (µg/m³)**	**80 (µg/m³)**

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

Shailendra Kumar
Analysed by

Checked by

Verified By

ENVIROCON
Recognised By
PCB, Assam & MSPCB, Meghalaya

Envirocon Building, I.O.C.L (AOD) New Market
P.O.: Digboi, Dist.: Tinsukia, Assam – 786 171
Ph: 03751-264414, 9435008657, 8876028672
E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified
ISO 45001:2018 Certified

Report No. : ENV/SCML/ML/26-27/AA-08
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To: **STAR CEMENT MEGHALAYA LIMITED**
Village & P.O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

LOCATION ↓	Date of Sampling	PM 2.5 (µg/m³)	PM 10 (µg/m³)	SO_2 (µg/m³)	NO_2 (µg/m³)	NH_3 (µg/m³)	CO (mg/m³)	O_3 (µg/m³)	Benzene (µg/m³)	Benzopyrene (ng/m³)	Nickel (ng/m³)	Arsenic (ng/m³)	Lead (µg/m³)
LIMITS →	--	60	100	80	80	400	4.0 (1 hr. limit)	180 (1 hr. limit)	5.0 (Annual Average)	1.0 (Annual Average)	20 (Annual Average)	6.0 (Annual Average)	1.0 (24 hrs. Average)
Vishwakarma Colony	13.08.2026	16.2	41.7	<5.0	<5.0	<5.0	<0.01	<5.0	<0.1	<0.01	<0.01	<0.01	<0.01
WHRS Colony	13.08.2026	15.2	38.6	<5.0	<5.0	<5.0	<0.01	<5.0	<0.1	<0.01	<0.01	<0.01	<0.01
Near Guest House	13.08.2026	15.9	39.4	<5.0	<5.0	<5.0	<0.01	<5.0	<0.1	<0.01	<0.01	<0.01	<0.01
Near TPP Office	13.08.2026	21.4	46.5	7.2	8.3	<5.0	<0.01	<5.0	<0.1	<0.01	<0.01	<0.01	<0.01

Analysis Protocol: IS 5182

Checked By: Pankaj Baroi, **ENVIROCON**

NOTE:
1. Results reported are valid at the time of and under the prevailing conditions of measurement.
2. Results refer only to the particular parameters tested.
3. This test report shall not be reproduced except in full without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

STAR CEMENT 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
	STACK EMISSION MONITORING ANALYSIS REPORT	Date of Rev.	01.06.2021

Report No: SCML/ENV/STACK/MONTHLY/2026-27/05 **Month: August'26**

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	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	-	-	-	-	-
2	Ambient Temp (°C)	-	-	-	-	-
3	Stack Gas Temp (°C)	-	-	-	-	-
4	Exit Velocity of Gas (m/sec.)	-	-	-	-	-
5	Flow Rate (Nm^3/ sec.)	-	-	-	-	-
6	Quantity of Emission (Nm^3/ Hr)	-	-	-	-	-
7	Concentration of PM (mg/Nm^3)	-	-	-	-	-
8	Concentration of SO_2 (mg/Nm^3)	-	-	-	-	-
9	Concentration of NOx (mg/Nm^3)	-	-	-	-	-
10	Oxygen (O_2) (%)	-	-	-	-	-
E.	**Remarks**	**The Plant is under maintenance between 01/08/2026 to 31/08/2026.**				

Standard		
PM - 30 mg/Nm^3	**SO_2 - 1000 mg/Nm^3**	**NOx - 600 mg/Nm^3**

Particulate Matter (PM), Sulphur di-oxide (SO_2), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP), Limestone (LS), Additive (Add)

Shailendra Kumar
Analysed by

Checked by

Verified By

STAR CEMENT 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**
	STACK EMISSION MONITORING ANALYSIS REPORT				**Date of Rev.**	**01.06.2021**

Report No: SCML/ENV/STACK/MONTHLY/2026-27/05 **Month: August'26**

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	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	-	-	-	-	-
2	Ambient Temp (°C)	-	-	-	-	-
3	Stack Gas Temp (°C)	-	-	-	-	-
4	Exit Velocity of Gas (m/sec.)	-	-	-	-	-
5	Flow Rate (Nm^3/ sec.)	-	-	-	-	-
6	Quantity of Emission (Nm^3/ Hr)	-	-	-	-	-
7	Concentration of PM (mg/Nm^3)	-	-	-	-	-
8	Concentration of SO_2 (mg/Nm^3)	-	-	-	-	-
9	Concentration of NOx (mg/Nm^3)	-	-	-	-	-
10	Oxygen (O_2) (%)	-	-	-	-	-
E.	**Remarks**	**The Plant is under maintenance between 01/08/2026 to 31/08/2026.**				

Standard		
PM - 30 mg/Nm^3	**SO_2 - 1000 mg/Nm^3**	**NOx - 600 mg/Nm^3**

Particulate Matter (PM), Sulphur di-oxide (SO_2), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP), Limestone (LS), Additive (Add)

Shailendra Kumar
Analysed by

Checked by

Verified By

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

Report No: SCML/ENV/STACK/MONTHLY/2026-27/05 **Month: August'26**

Analysis Result

A.	**General Information About Stack**		
1	Stack Identification No	**S-4**	**S-5**
2	Stack Connected to	Cement Mill	Packing Plant
3	Material of Construction (Stack/Duct)	Mild Steel	Mild Steel
4	Shape of duct	Circular	Circular
5	Whether duct is provided with permanent platform & ladder	Yes	Yes
B.	**Physical characteristic of stack**		
1	Stack Height from ground level (meter)	30.0	31.0
2	Duct diameter at sampling point (meter)	1.2	0.8
3	Sampling height point from ground level (meter)	27.8	29.5
4	Cross sectional area of Duct/Stack (m^2)	1.77	0.95
C.	**Pollution Control Device**		
1	Details of pollution control device attached to stack	Bag Filter	Bag Filter
D.	**Result of Sampling & Analysis of Gaseous Emission**		
1	Date of Sampling	14-08-2026	14-08-2026
2	Ambient Temp (°C)	32	32
3	Stack Gas Temp (°C)	43	42
4	Exit Velocity of Gas (m/sec.)	10.41	11.20
5	Flow Rate (Nm^3/ sec.)	10.02	10.19
6	Quantity of Emission (Nm^3/ Hr)	36072	36684
7	Concentration of PM (mg/Nm^3)	6.87	15.95
8	Concentration of SO_2 (mg/Nm^3)	-	-
9	Concentration of NO_x (mg/Nm^3)	-	-
10	Oxygen (O_2) (%)	9.5	9.6
E.	**Remarks**		

Standard		
PM - 30 mg/Nm^3	**SO_2 - 1000 mg/Nm^3**	**NOx - 600 mg/Nm^3**

Particulate Matter (PM), Sulphur di-oxide (SO_2), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP), Limestone (LS), Additive (Add)

Shailendra Kumar

Analysed by **Checked by** **Verified By**

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

Report No: SCML/ENV/STACK/MONTHLY/2026-27/05 **Month: August'26**

Analysis Result

A.	**General Information About Stack**		
1	Stack Identification No	**S-4**	**S-5**
2	Stack Connected to	Cement Mill	Packing Plant
3	Material of Construction (Stack/Duct)	Mild Steel	Mild Steel
4	Shape of duct	Circular	Circular
5	Whether duct is provided with permanent platform & ladder	Yes	Yes
B.	**Physical characteristic of stack**		
1	Stack Height from ground level (meter)	30.0	31.0
2	Duct diameter at sampling point (meter)	1.2	0.8
3	Sampling height point from ground level (meter)	27.8	29.5
4	Cross sectional area of Duct/Stack (m^2)	1.77	0.95
C.	**Pollution Control Device**		
1	Details of pollution control device attached to stack	Bag Filter	Bag Filter
D.	**Result of Sampling & Analysis of Gaseous Emission**		
1	Date of Sampling	22-08-2026	22-08-2026
2	Ambient Temp (°C)	30	30
3	Stack Gas Temp (°C)	44	42
4	Exit Velocity of Gas (m/sec.)	11.12	11.03
5	Flow Rate (Nm^3/ sec.)	10.89	10.46
6	Quantity of Emission (Nm^3/ Hr)	39204	37656
7	Concentration of PM (mg/Nm^3)	6.90	14.22
8	Concentration of SO_2 (mg/Nm^3)	-	-
9	Concentration of NO_x (mg/Nm^3)	-	-
10	Oxygen (O_2) (%)	9.1	9.8
E.	**Remarks**		

Standard		
PM - 30 mg/Nm^3	**SO_2 - 1000 mg/Nm^3**	**NOx - 600 mg/Nm^3**

Particulate Matter (PM), Sulphur di-oxide (SO_2), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP), Limestone (LS), Additive (Add)

Shailendra Kumar

Analysed by **Checked by** **Verified By**

STAR CEMENT 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
	STACK EMISSION MONITORING ANALYSIS REPORT	Date of Rev.	01.06.2021

Report No: SCML/ENV/STACK/MONTHLY/2026-27/05 **Month: August'26**

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	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	-	-	-	-	-
2	Ambient Temp (°C)	-	-	-	-	-
3	Stack Gas Temp (°C)	-	-	-	-	-
4	Exit Velocity of Gas (m/sec.)	-	-	-	-	-
5	Flow Rate (Nm^3/ sec.)	-	-	-	-	-
6	Quantity of Emission (Nm^3/ Hr)	-	-	-	-	-
7	Concentration of PM (mg/Nm^3)	-	-	-	-	-
8	Concentration of SO_2 (mg/Nm^3)	-	-	-	-	-
9	Concentration of NOx (mg/Nm^3)	-	-	-	-	-
10	Oxygen (O_2) (%)	-	-	-	-	-
E.	**Remarks**	**The Plant is under maintenance between 01/08/2026 to 31/08/2026.**				

Standard		
PM - 30 mg/Nm^3	**SO_2 - 1000 mg/Nm^3**	**NOx - 600 mg/Nm^3**

Particulate Matter (PM), Sulphur di-oxide (SO_2), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP), Limestone (LS), Additive (Add)

Shailendra Kumar
Analysed by

Checked by

Verified By

STAR CEMENT 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**
	STACK EMISSION MONITORING ANALYSIS REPORT				**Date of Rev.**	**01.06.2021**

Report No: SCML/ENV/STACK/MONTHLY/2026-27/05 **Month: August'26**

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	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	-	-	-	-	-
2	Ambient Temp (°C)	-	-	-	-	-
3	Stack Gas Temp (°C)	-	-	-	-	-
4	Exit Velocity of Gas (m/sec.)	-	-	-	-	-
5	Flow Rate (Nm^3/ sec.)	-	-	-	-	-
6	Quantity of Emission (Nm^3/ Hr)	-	-	-	-	-
7	Concentration of PM (mg/Nm^3)	-	-	-	-	-
8	Concentration of SO_2 (mg/Nm^3)	-	-	-	-	-
9	Concentration of NOx (mg/Nm^3)	-	-	-	-	-
10	Oxygen (O_2) (%)	-	-	-	-	-
E.	**Remarks**	**The Plant is under maintenance between 01/08/2026 to 31/08/2026.**				

Standard		
PM - 30 mg/Nm^3	**SO_2 - 1000 mg/Nm^3**	**NOx - 600 mg/Nm^3**

Particulate Matter (PM), Sulphur di-oxide (SO_2), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP), Limestone (LS), Additive (Add)

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Report No.: ENV/SCML/ML/26-27/SE-29
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Lumshnong, P. O.: Khilehriat, Dist.: East Jaintia Hills, Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	NA		
02	Date of Sampling	NA		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Flue Gas Temperature (^{0}C)	NA		
06	Exit Velocity of Gas (m/sec)	NA		
07	Flow Rate (Nm^3/hr)	NA		
08	Type of Fuel Used	NA		
09	**Analysis Results of Flue Gas**			
Sl. No.	**Parameter(s)**	**Result(s)**	**Unit(s)**	**Limit(s)**
i.	PM- Particulate Matter	NA	mg/Nm^3	30

NA: Not Applicable

Note: Plant was shut down during the monitoring period.

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

NOTE:
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Report No.: ENV/SCML/ML/26-27/SE-30
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Lumshnong, P. O.: Khilehriat, Dist.: East Jaintia Hills, Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	NA		
02	Date of Sampling	NA		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler ESP		
05	Flue Gas Temperature (^{0}C)	NA		
06	Exit Velocity of Gas (m/sec)	NA		
07	Flow Rate (Nm^3/hr)	NA		
08	Type of Fuel Used	NA		
09	**Analysis Results of Flue Gas**			
Sl. No.	**Parameter(s)**	**Result(s)**	**Unit(s)**	**Limit(s)**
i.	PM- Particulate Matter	NA	mg/Nm^3	30

NA: Not Applicable

Note: Plant was shut down during the monitoring period.

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/SCML/ML/26-27/SE-31
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Lumshnong, P. O.: Khilehriat, Dist.: East Jaintia Hills, Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	NA		
02	Date of Sampling	NA		
03	Material of Construction	M. S.		
04	Stack Attached To	Lime Stone Crusher		
05	Flue Gas Temperature (^{0}C)	NA		
06	Exit Velocity of Gas (m/sec)	NA		
07	Flow Rate (Nm^3/hr)	NA		
08	Type of Fuel Used	NA		
09	**Analysis Results of Flue Gas**			
Sl. No.	**Parameter(s)**	**Result(s)**	**Unit(s)**	**Limit(s)**
i.	PM- Particulate Matter	NA	mg/Nm^3	30

NA: Not Applicable

Note: Plant was shut down during the monitoring period.

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/SCML/ML/26-27/SE-32
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Lumshnong, P. O.: Khilehriat, Dist.: East Jaintia Hills, Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	NA		
02	Date of Sampling	NA		
03	Material of Construction	M. S.		
04	Stack Attached To	Raw Mill / Kiln		
05	Flue Gas Temperature (^{0}C)	NA		
06	Exit Velocity of Gas (m/sec)	NA		
07	Flow Rate (Nm^3/hr)	NA		
08	Type of Fuel Used	NA		
09	**Analysis Results of Flue Gas**			
Sl. No.	**Parameter(s)**	**Result(s)**	**Unit(s)**	**Limit(s)**
i.	PM- Particulate Matter	NA	mg/Nm^3	30

NA: Not Applicable

Note: Plant was shut down during the monitoring period.

ENVIROCON Date: DIGBOI, ASSAM

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

NOTE:
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Report No.: ENV/SCML/ML/25-26/SE-33
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Lumshnong, P. O.: Khilehriat, Dist.: East Jaintia Hills, Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	NA		
02	Date of Sampling	NA		
03	Material of Construction	M. S.		
04	Stack Attached To	Additive Crusher		
05	Flue Gas Temperature (^{0}C)	NA		
06	Exit Velocity of Gas (m/sec)	NA		
07	Flow Rate (Nm^3/hr)	NA		
08	Type of Fuel Used	NA		
09	**Analysis Results of Flue Gas**			
Sl. No.	**Parameter(s)**	**Result(s)**	**Unit(s)**	**Limit(s)**
i.	PM- Particulate Matter	NA	mg/Nm^3	30

NA: Not Applicable

Note: Plant was shut down during the monitoring period.

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

NOTE:
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Report No.: ENV/SCML/ML/25-26/SE-34
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Lumshnong, P. O.: Khilehriat, Dist.: East Jaintia Hills, Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	NA		
02	Date of Sampling	NA		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
05	Flue Gas Temperature (^{0}C)	NA		
06	Exit Velocity of Gas (m/sec)	NA		
07	Flow Rate (Nm^3/hr)	NA		
08	Type of Fuel Used	NA		
09	**Analysis Results of Flue Gas**			
Sl. No.	**Parameter(s)**	**Result(s)**	**Unit(s)**	**Limit(s)**
i.	PM- Particulate Matter	NA	mg/Nm^3	30

NA: Not Applicable

Note: Plant was shut down during the monitoring period.

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/SCML/ML/25-26/SE-35
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Lumshnong, P. O.: Khilehriat, Dist.: East Jaintia Hills, Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	NA		
02	Date of Sampling	NA		
03	Material of Construction	M. S.		
04	Stack Attached To	Packing Plant		
05	Flue Gas Temperature (^{0}C)	NA		
06	Exit Velocity of Gas (m/sec)	NA		
07	Flow Rate (Nm^3/hr)	NA		
08	Type of Fuel Used	NA		
09	**Analysis Results of Flue Gas**			
Sl. No.	**Parameter(s)**	**Result(s)**	**Unit(s)**	**Limit(s)**
i.	PM- Particulate Matter	NA	mg/Nm^3	30

NA: Not Applicable

Note: Plant was shut down during the monitoring period.

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

NOTE:
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STAR CEMENT Solid Setting	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/2026-27/05

Month - August'26

Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline
			Limit
		(in µg/m^3)	(in µg/m^3)
22.08.2026	**Coal Storage Section**	1232	**2000**
22.08.2026	**Limestone Storage Section**	923	**5000**
22.08.2026	**Clinker Loading Section**	1014	**2000**

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STAR CEMENT Solid Setting	STAR CEMENT MEGHALAYA LIMITED CEMENT MILL Lumshnong, Meghalaya FUGITIVE 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/2026-27/05

Month - August'26

Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline
			Limit
		(in µg/m^3)	(in µg/m^3)
07.08.2026	**Cement Packing Plant**	1348	**5000**

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STAR CEMENT Solid Setting	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: SCML/ENV/NOISE/MONTHLY/2026-27/05 **Date: 22.08.2026**

Month -August'26

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	57.3	67.3	62.3		44.5	50.1	47.3	
2	Vertical Raw Mill	55.0	66.1	60.5		48.5	54.8	51.7	
3	Raw Mill WF	56.4	66.4	61.4		46.1	56.2	51.2	
4	Coal Mill	53.9	61.8	57.8		49.7	52.8	51.3	
5	Limestone Crusher(Dump Hopper)	53.6	63.3	58.4		51.8	56.5	54.2	
6	Additive Crusher	56.3	64.2	60.2		50.2	54.9	52.6	
7	Cement Mill	53.4	62.9	58.1		48.8	56.8	52.8	
8	Cement Mill WF	54.0	61.4	57.7		47.3	57.4	52.4	
B.	**Offices**								
1	CCR	44.4	53.5	48.9	**75**	37.1	46.6	41.9	**70**
2	Meeting Room	47.4	56.2	51.8		38.0	45.9	42.0	
3	VP'S Room	44.2	53.2	48.7		33.1	43.4	38.3	
4	Inst. Shift Room	46.8	62.0	54.4		39.4	48.3	43.9	
5	Electrical Office	44.7	58.6	51.6		40.0	48.9	44.5	
6	QC Department								
	a)Chemical Lab	51.9	59.7	55.8		34.2	43.7	39.0	
	b)Physical Lab	59.7	64.9	62.3		48.0	55.9	51.9	
	c)XRF Lab	45.7	57.0	51.3		36.1	46.9	41.5	
	d) Sample Preparation Room	55.9	64.0	59.9		44.1	52.3	48.2	
C.	**Residential**								
1	450 Quater's	39.4	44.7	42.1	**55**	34.5	41.7	38.1	**45**
2	Worker's Colony	40.2	46.2	43.2		35.4	40.3	37.9	

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Report No.: ENV/SCML/ML/26-27/N-08
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To: **STAR CEMENT MEGHALYA LIMITED**
Lumshnong, P. O.: Khilehriat, Dist.: East Jaintia Hills, Meghalaya

NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Locations	Date Of Measurement	Day Time		Night Time	
			Results Leq (dB-A)	Limit (dB-A)	Results Leq (dB-A)	Limit (dB-A)
1	Near STP	14.08.2026	54.2	75	46.3	70
2	Near Worker Colony	14.08.2026	51.9	75	42.7	70
3	Near Raw Mill Hopper	14.08.2026	72.4	75	63.4	70
4	Near Water Reservoir	14.08.2026	62.4	75	59.7	70

ENVIROCON * DIGBOI, ASSAM * Date

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No. : ENV/SCML/ML/26-27/AA-08
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To: **STAR CEMENT MEGHALAYA LIMITED**
Village & P.O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

LOCATION ↓	Date of Sampling	PM 2.5 (µg/m³)	PM 10 (µg/m³)	SO_2 (µg/m³)	NO_2 (µg/m³)	NH_3 (µg/m³)	CO (mg/m³)	O_3 (µg/m³)	Benzene (µg/m³)	Benzopyrene (ng/m³)	Nickel (ng/m³)	Arsenic (ng/m³)	Lead (µg/m³)
LIMITS →	--	60	100	80	80	400	4.0 (1 hr. limit)	180 (1 hr. limit)	5.0 (Annual Average)	1.0 (Annual Average)	20 (Annual Average)	6.0 (Annual Average)	1.0 (24 hrs. Average)
Vishwakarma Colony	13.08.2026	16.2	41.7	<5.0	<5.0	<5.0	<0.01	<5.0	<0.1	<0.01	<0.01	<0.01	<0.01
WHRS Colony	13.08.2026	15.2	38.6	<5.0	<5.0	<5.0	<0.01	<5.0	<0.1	<0.01	<0.01	<0.01	<0.01
Near Guest House	13.08.2026	15.9	39.4	<5.0	<5.0	<5.0	<0.01	<5.0	<0.1	<0.01	<0.01	<0.01	<0.01
Near TPP Office	13.08.2026	21.4	46.5	7.2	8.3	<5.0	<0.01	<5.0	<0.1	<0.01	<0.01	<0.01	<0.01

Analysis Protocol: IS 5182

Checked By: Pankaj Baroi, **ENVIROCON**

NOTE:
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STAR CEMENT Solid Setting	**STAR CEMENT MEGHALAYA LIMITED** **THERMAL POWER PLANT (8MW)** **Lumshnong, Meghalaya**	**Reference No.**	**SCML/Env/F-02**
		Issue No.	**1**
		Date of Issue:	**01.05.2019**
		Revision No.	**5**
	STACK EMISSION MONITORING ANALYSIS REPORT	**Date of Rev.**	**01.06.2021**

Report No: SCML TPP(8 MW)/ENV/STACK/MONTHLY/2026-27/05 | **Month: August'26**

Analysis Result

A.	**General Information About Stack**	
1	Stack Identification No	**8 MW**
2	Stack Connected to	Boiler
3	Material of Construction (Stack/Duct)	Mild Steel
4	Shape of duct	Circular
5	Whether duct is provided with permanent platform & ladder	Yes
B.	**Physical characteristic of stack**	
1	Stack Height from ground level (meter)	45
2	Duct diameter at sampling point (meter)	2.08
3	Sampling height point from ground level (meter)	11
4	Cross sectional area of Duct/Stack (m^2)	3.4
C.	**Pollution Control Device**	
1	Details of pollution control device attached to stack	ESP
D.	**Result of Sampling & Analysis of Gaseous Emission**	
1	Date of Sampling	-
2	Ambient Temp (°C)	-
3	Stack Gas Temp (°C)	-
4	Exit Velocity of Gas (m/sec.)	-
5	Flow Rate (Nm^3/ sec.)	-
6	Quantity of Emission (Nm^3/ Hr)	-
7	Concentration of PM (mg/Nm^3)	-
8	Concentration of SO_2 (mg/Nm^3)	-
9	Concentration of NOx (mg/Nm^3)	-
10	Oxygen (O_2) (%)	-
E.	**Remarks:**	**THERMAL POWER PLANT was not in operation.**

Standard		
PM - 50 mg/Nm^3	**SO_2 - 600 mg/Nm^3**	**NOx - 300 mg/Nm^3**

Particulate Matter (PM), Sulphur di-oxide (SO_2), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP)

Shailendra Kumar
Analysed by

Checked by

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PCB, Assam & MSPCB, Meghalaya

Envirocon Building, I.O.C.L (AOD) New Market
P.O.: Digboi, Dist.: Tinsukia, Assam – 786 171
Ph: 03751-264414, 9435008657, 8876028672
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Report No.: ENV/SCML-TPP/ML/26-27/SE-10
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED - TPP**
Lumshnong, P. O.: Khilehriat, Dist.: East Jaintia Hills, Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	NA		
02	Date of Sampling	NA		
03	Material of Construction	M. S.		
04	Stack Attached To	ESP (8 MW)		
05	Flue Gas Temperature (^{0}C)	NA		
06	Exit Velocity of Gas (m/sec)	NA		
07	Flow Rate (Nm^3/hr)	NA		
08	Type of Fuel Used	NA		
09	**Analysis Results of Flue Gas**			
Sl. No.	**Parameter(s)**	**Result(s)**	**Unit(s)**	**Limit(s)**
i.	PM- Particulate Matter	NA	mg/Nm^3	50
ii.	Mercury (as Hg)	NA	mg/Nm^3	0.03

NA: Not Applicable

Note: Plant was shut down during the monitoring period.

ENVIROCON * DIGBOI, ASSAM * Date

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

NOTE:
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STAR CEMENT Solid Setting	**STAR CEMENT MEGHALAYA LIMITED** **THERMAL POWER PLANT (43MW)** **Lumshnong, Meghalaya** **STACK EMISSION MONITORING ANALYSIS REPORT**	**Reference No.**	**SCML/Env/F-02**
		Issue No.	**1**
		Date of Issue:	**01.05.2019**
		Revision No.	**5**
		Date of Rev.	**01.06.2021**

Report No: SCML TPP(43MW)/ENV/STACK/MONTHLY/2026-27/05 **Month: August'26**

Analysis Result

A.	**General Information About Stack**	
1	Stack Identification No	**43 MW**
2	Stack Connected to	Boiler
3	Material of Construction (Stack/Duct)	RCC
4	Shape of duct	Circular
5	Whether duct is provided with permanent platform & ladder	Yes
B.	**Physical characteristic of stack**	
1	Stack Height from ground level (meter)	110.0
2	Duct diameter at sampling point (meter)	2.75
3	Sampling height point from ground level (meter)	45.5
4	Cross sectional area of Duct/Stack (m^2)	5.94
C.	**Pollution Control Device**	
1	Details of pollution control device attached to stack	ESP
D.	**Result of Sampling & Analysis of Gaseous Emission**	
1	Date of Sampling	-
2	Ambient Temp (°C)	-
3	Stack Gas Temp (°C)	-
4	Exit Velocity of Gas (m/sec.)	-
5	Flow Rate (Nm^3/ sec.)	-
6	Quantity of Emission (Nm^3/ Hr)	-
7	Concentration of PM (mg/Nm^3)	-
8	Concentration of SO_2 (mg/Nm^3)	-
9	Concentration of NOx (mg/Nm^3)	-
10	Oxygen (O_2) (%)	-
E.	**Remarks:**	**The Plant is under maintenance between 01/08/2026 to 25/08/2026.**

Standard

PM - 50 mg/Nm^3	**SO_2 - 600 mg/Nm^3**	**NOx - 300 mg/Nm^3**

Particulate Matter (PM), Sulphur di-oxide (SO_2), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP)

Shailendra Kumar
Analysed by

Checked by

Verified By

STAR CEMENT Solid Setting	**STAR CEMENT MEGHALAYA LIMITED** **THERMAL POWER PLANT (43MW)** **Lumshnong, Meghalaya** **STACK EMISSION MONITORING ANALYSIS REPORT**	**Reference No.**	**SCML/Env/F-02**
		Issue No.	**1**
		Date of Issue:	**01.05.2019**
		Revision No.	**5**
		Date of Rev.	**01.06.2021**

Report No: SCML TPP(43MW)/ENV/STACK/MONTHLY/2026-27/05 | **Month: August'26**

Analysis Result

A.	**General Information About Stack**	
1	Stack Identification No	**43 MW**
2	Stack Connected to	Boiler
3	Material of Construction (Stack/Duct)	RCC
4	Shape of duct	Circular
5	Whether duct is provided with permanent platform & ladder	Yes
B.	**Physical characteristic of stack**	
1	Stack Height from ground level (meter)	110.0
2	Duct diameter at sampling point (meter)	2.75
3	Sampling height point from ground level (meter)	45.5
4	Cross sectional area of Duct/Stack (m^2)	5.94
C.	**Pollution Control Device**	
1	Details of pollution control device attached to stack	ESP
D.	**Result of Sampling & Analysis of Gaseous Emission**	
1	Date of Sampling	31-08-2026
2	Ambient Temp (°C)	31
3	Stack Gas Temp (°C)	108
4	Exit Velocity of Gas (m/sec.)	21.1
5	Flow Rate (Nm^3/ sec.)	56.1
6	Quantity of Emission (Nm^3/ Hr)	201960
7	Concentration of PM (mg/Nm^3)	35.50
8	Concentration of SO_2 (mg/Nm^3)	461.52
9	Concentration of NOx (mg/Nm^3)	265.24
10	Oxygen (O_2) (%)	10.8
E.	**Remarks:**	

Standard		
PM - 50 mg/Nm^3	**SO_2 - 600 mg/Nm^3**	**NOx - 300 mg/Nm^3**

Particulate Matter (PM), Sulphur di-oxide (SO_2), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP)

Shailendra Kumar
Analysed by

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Report No.: ENV/SCML-TPP/ML/26-27/SE-09
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED - TPP**
Lumshnong, P. O.: Khilehriat, Dist.: East Jaintia Hills, Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	MPL/SE-260829/01		
02	Date of Sampling	29.08.2026		
03	Material of Construction	RCC		
04	Stack Attached To	ESP (43 MW)		
05	Flue Gas Temperature (^{0}C)	85		
06	Exit Velocity of Gas (m/sec)	7.4		
07	Flow Rate (Nm^3/hr)	39192		
08	Type of Fuel Used	NA		
09	**Analysis Results of Flue Gas**			
Sl. No.	**Parameter(s)**	**Result(s)**	**Unit(s)**	**Limit(s)**
i.	PM- Particulate Matter	38	mg/Nm^3	50
ii.	Mercury (as Hg)	0.021	mg/Nm^3	0.03

NA: Not Applicable

ENVIROCON DIGBOI, ASSAM Date

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

NOTE:
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Report No- GFAPL/26-27/SCML/006 **Issued Date-10.09.2026**

TEST REPORT

Client Name &Address	**STAR CEMENT MEGHALAYA LIMITED.** At- Lumshnong, P. O.: Khilehriat, Dist.: East Jaintia Hills, Meghalaya.		
Nature of Sampling	**Stack Monitoring**		
Sampling By	**Client's Representative**		
Environmental Condition	**Clean**	**Sampling Method**	As per IS: 11255
Location of performance of Laboratory activities	Laboratory Permanent Facility	**Deviation from the method (if any)**	NO
Discipline	Chemical	**Group**	Atmospheric Pollution
Date of Sampling	**29.08.2026**	**Date of Receiving**	**03.09.2026**
Date of Analysis	**05.09.2026**	**Date of Complete**	**09.09.2026**
Sampling Location	**ST2- Stack Attached to ESP (43 MW);**		
Instrument Used	**Stack monitoring Kit; Vacuum Pump; Pyrometer**		

Sl. No	Items	Testing Method	Unit	Limits	Results
1.	**Sulphur Dioxide as SO2**	IS-11255(PART-2) 1985, (RA-2019)	**mg/Nm3**	600	**454.7**
2.	**Nitrogen oxide as NOx**	IS-11255(PART-7) 1985	**mg/Nm3**	300	**165.5**

Reviewed By
TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESWAR, ODISHA
Mr. S.K. Parhi

Authorized Signatory
DEPUTY QUALITY MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESWAR, ODISHA
Mr. M.K. Swain

Note:

- **The results listed refer only to tested samples and applicable parameters Endorsement of products is neither inferred nor implied.**
- **Total liability of our lab is limited to the invoiced amount.**
- **Samples will be destroyed after 10 days from the date of test report unless otherwise specified.**
- **This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.**
- **Report refers to the sample submitted to us and not drawn by unless mentioned otherwise.**

END OF REPORT

Plot No 1363/3892, At- Baibhab Nagar, Lane - 2, Nakhara, Dist - Khorda, Odisha
Mail Id: greenforceassociates@gmail.com

STAR CEMENT Solid Setting	STAR CEMENT MEGHALAYA LIMITED THERMAL POWER PLANT (8MW) 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 TPP(8 MW)/ENV/FUGITIVE/MONTHLY/2026-27/05

Month - August'26

Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline
			Limit
		(in µg/m^3)	(in µg/m^3)
07.08.2026	**Coal Storage Section**	902	**2000**

Shailendra Kumar
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STAR CEMENT Solid Setting	STAR CEMENT MEGHALAYA LIMITED THERMAL POWER PLANT (43MW) 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 TPP(43MW)/ENV/FUGITIVE/MONTHLY/2026-27/05

Month - August'26

Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline
			Limit
		(in µg/m^3)	(in µg/m^3)
07.08.2026	**Coal Storage Section**	995	**2000**

Shailendra Kumar
Analyzed By

Checked By

Verified By

STAR CEMENT Solid Setting	STAR CEMENT MEGHALAYA LIMITED THERMAL POWER PLANT (8MW) Lumshnong, Meghalaya	Document No.	SCML/EHS/Env/F-03
		Date of Issued	01-05-2019
		Revision No.	04
	NOISE LEVEL MONITORING REPORT	Revision Date	01-01-2021

Ref: SCML TPP (8MW)/ENV/NOISE/MONTHLY/2026-27/05 **Date:07.08.2026**

Month -August'26

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	Turbine House Ground Floor	59.4	57.2	58.3	75	50.3	53.6	52.0	70
2	Turbine House 9 Mt.	60.1	62.8	61.5		48.1	51.3	49.7	
3	RO – MCC	57.6	60.5	59.1		47.3	50.1	48.7	
4	Boiler Ground Floor	60.8	62.2	61.5		50.0	52.6	51.3	
5	CHP – MCC	62.9	65.1	64.0		52.6	54.2	53.4	
6	Office Area	42.8	49.7	46.3		39.2	40.6	39.9	

Shailendra Kumar
Analyzed by

Checked By

Verified By

STAR CEMENT Solid Setting	**STAR CEMENT MEGHALAYA LIMITED** **THERMAL POWER PLANT (43MW)** **Lumshnong, Meghalaya**	Document No.	SCML/EHS/Env/F-03
		Date of Issued	01-05-2019
		Revision No.	04
	NOISE LEVEL MONITORING REPORT	Revision Date	01-01-2021

Ref: SCML TPP(43MW)/ENV/NOISE/MONTHLY/2026-27/05 **Date: 07.08.2026**

Month -August'26

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	Turbine House Ground Floor	59.4	57.2	58.3	75	50.3	53.6	52.0	70
2	Turbine House 9 Mt.	60.1	62.8	61.5		48.1	51.3	49.7	
3	RO – MCC	57.6	60.5	59.1		47.3	50.1	48.7	
4	Boiler Ground Floor	60.8	62.2	61.5		50.0	52.6	51.3	
5	CHP – MCC	62.9	65.1	64.0		52.6	54.2	53.4	
6	Office Area	42.8	49.7	46.3		39.2	40.6	39.9	

Shailendra Kumar
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ISO 45001:2018 Certified

Report No.: ENV/SCML-TPP/ML/26-27/N-05
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To: **STAR CEMENT MEGHALYA LIMITED - TPP**
Lumshnong, P. O.: Khilehriat, Dist.: East Jaintia Hills, Meghalaya

NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Locations	Date Of Measurement	Day Time		Night Time	
			Results Leq (dB-A)	Limit (dB-A)	Results Leq (dB-A)	Limit (dB-A)
1	Near Piezometer Well	29.08.2026	55.2	75	44.8	70
2	Near ADM Office (South)	29.08.2026	52.9	75	43.2	70
3	Near ADM Office	29.08.2026	56.3	75	45.6	70
4	Behind DM Plant	29.08.2026	64.8	75	57.1	70

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/SCML/ML/26-27/SW-24 **Order No.: 5300027956**
Date : 11/09/2026 **Date : 17/04/2026**

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCML/SW-260818/01 Sample Source : Lunar (Downstream) Sample Type : Surface Water
Collected On : 18-08-2026 Received On : 22-08-2026 Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	12	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.7	--	--
4.	pH Value	6.76	6.5 - 8.5	No Relaxation
5.	Suspended Solids	64	--	--
6.	Total Dissolved Solids, mg/l, Max.	151	500	2000
7.	Conductivity, µS/cm	251	--	--
8.	Dissolved Oxygen, mg/l, Min.	5.8	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1.0	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	19	--	--
11.	Oil and Grease, mg/l, Max.	<4.0	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as $CaCO_3$), mg/l, Max.	49	200	600
14.	Calcium (as Ca), mg/l, Max.	20	75	200
15.	Magnesium (as Mg), mg/l, Max.	<1.0	30	100
16.	Iron (as Fe), mg/l, Max.	0.04	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	0.6	--	--
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	2.1	--	--
20.	Free Ammonia (as NH_3), mg/l, Max.	<0.01	--	--

*Limits as per IS 10500:2012 Analysis Protocol: IS 3025

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

NOTE:
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ISO 45001:2018 Certified

Report No.: ENV/SCML/ML/26-27/FR-16
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER FLOW RESULTS

Sl. No.	Locations	Date of Measurement	Flow Rate (m^3/s)
1.	Lunar (Downstream)	04.08.2026	53.2

ENVIROCON * DIGBOI, ASSAM * Date:

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

NOTE:
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Report No.: ENV/SCML/ML/26-27/SW-25
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCML/SW-260818/02 | Sample Source : Lunar (Upstream) | Sample Type : Surface Water
Collected On : 18-08-2026 | Received On : 22-08-2026 | Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	11	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.4	--	--
4.	pH Value	6.72	6.5 - 8.5	No Relaxation
5.	Suspended Solids	49	--	--
6.	Total Dissolved Solids, mg/l, Max.	139	500	2000
7.	Conductivity, µS/cm	243	--	--
8.	Dissolved Oxygen, mg/l, Min.	6	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1.0	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	17	--	--
11.	Oil and Grease, mg/l, Max.	<4.0	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as $CaCO_3$), mg/l, Max.	51	200	600
14.	Calcium (as Ca), mg/l, Max.	16	75	200
15.	Magnesium (as Mg), mg/l, Max.	2	30	100
16.	Iron (as Fe), mg/l, Max.	0.02	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	1.2	--	--
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	3.3	--	--
20.	Free Ammonia (as NH_3), mg/l, Max.	<0.01	--	--

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025

ENVIROCON * DIGBOI, ASSAM * Date

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/SCML/ML/26-27/FR-17
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER FLOW RESULTS

Sl. No.	Locations	Date of Measurement	Flow Rate (m^3/s)
1.	Lunar (Upstream)	04.08.2026	48.7

ENVIROCON * DIGBOI, ASSAM * Date:

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/SCML/ML/26-27/SW-26
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCML/SW-260818/03 | Sample Source : Umlong River | Sample Type : Surface Water
Collected On : 18-08-2026 | Received On : 22-08-2026 | Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	15	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.3	--	--
4.	pH Value	6.79	6.5 - 8.5	No Relaxation
5.	Suspended Solids	67	--	--
6.	Total Dissolved Solids, mg/l, Max.	118	500	2000
7.	Conductivity, µS/cm	189	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.3	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1.0	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	14	--	--
11.	Oil and Grease, mg/l, Max.	<4.0	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as $CaCO_3$), mg/l, Max.	55	200	600
14.	Calcium (as Ca), mg/l, Max.	22	75	200
15.	Magnesium (as Mg), mg/l, Max.	<1.0	30	100
16.	Iron (as Fe), mg/l, Max.	0.07	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	<0.1	--	--
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	<0.1	--	--
20.	Free Ammonia (as NH_3), mg/l, Max.	<0.01	--	--

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/SCML/ML/26-27/FR-18
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER FLOW RESULTS

Sl. No.	Locations	Date of Measurement	Flow Rate (m^3/s)
1.	Umlong River	05.08.2026	55.6

ENVIROCON * DIGBOI, ASSAM * Date:

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/SCML/ML/26-27/SW-27
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCML/SW-260818/04 | Sample Source : Wahiajer Spring | Sample Type : Surface Water
Collected On : 18-08-2026 | Received On : 22-08-2026 | Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	8	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.6	--	--
4.	pH Value	6.83	6.5 - 8.5	No Relaxation
5.	Suspended Solids	55	--	--
6.	Total Dissolved Solids, mg/l, Max.	157	500	2000
7.	Conductivity, µS/cm	262	--	--
8.	Dissolved Oxygen, mg/l, Min.	5.6	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1.0	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	20	--	--
11.	Oil and Grease, mg/l, Max.	<4.0	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as $CaCO_3$), mg/l, Max.	33	200	600
14.	Calcium (as Ca), mg/l, Max.	14	75	200
15.	Magnesium (as Mg), mg/l, Max.	<1.0	30	100
16.	Iron (as Fe), mg/l, Max.	0.04	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	<0.1	--	--
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	<0.1	--	--
20.	Free Ammonia (as NH_3), mg/l, Max.	<0.01	--	--

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025

ENVIROCON Date: DIGBOI, ASSAM

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/SCML/ML/26-27/FR-19
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER FLOW RESULTS

Sl. No.	Locations	Date of Measurement	Flow Rate (m^3/s)
1.	Wahiajer Spring	05.08.2026	43.7

ENVIROCON * DIGBOI, ASSAM * Date:

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/SCL/ML/26-27/SW-28
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To: **STAR CEMENT MEGHALAYA LIMITED**
Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/SW-260818/05 | Sample Source : Lubha River (Upstream) | Sample Type : Surface Water
Collected On : 18-08-2026 | Received On : 22-08-2026 | Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	14	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.5	-	-
4.	pH Value	6.75	6.5 - 8.5	No Relaxation
5.	Suspended Solids	43	-	-
6.	Total Dissolved Solids, mg/l, Max.	131	500	2000
7.	Conductivity, µS/cm	229	-	-
8.	Dissolved Oxygen, mg/l, Min.	5.9	-	-
9.	Biochemical Oxygen Demand, mg/l, Max.	<1.0	-	-
10.	Chemical Oxygen Demand, mg/l, Max.	16	-	-
11.	Oil and Grease, mg/l, Max.	<4.0	-	-
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as $CaCO_3$), mg/l, Max.	53	200	600
14.	Calcium (as Ca), mg/l, Max.	19	75	200
15.	Magnesium (as Mg), mg/l, Max.	1.4	30	100
16.	Iron (as Fe), mg/l, Max.	0.05	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	<0.1	-	-
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as NH_3), mg/l, Max.	<0.01	-	-

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/SCML/ML/26-27/FR-20
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER FLOW RESULTS

Sl. No.	Locations	Date of Measurement	Flow Rate (m^3/s)
1.	Lubha River (Upstream)	06.08.2026	59.2

ENVIROCON Date DIGBOI, ASSAM

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/SCl/ML/26-27/SW-29
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To: **STAR CEMENT MEGHALAYA LIMITED**
Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/SW-260818/06 | Sample Source : Lubha River (Downstream) | Sample Type : Surface Water
Collected On : 18-08-2026 | Received On : 22-08-2026 | Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	12	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.4	-	-
4.	pH Value	6.77	6.5 - 8.5	No Relaxation
5.	Suspended Solids	61	-	-
6.	Total Dissolved Solids, mg/l, Max.	145	500	2000
7.	Conductivity, µS/cm	247	-	-
8.	Dissolved Oxygen, mg/l, Min.	6.2	-	-
9.	Biochemical Oxygen Demand, mg/l, Max.	<1.0	-	-
10.	Chemical Oxygen Demand, mg/l, Max.	18	-	-
11.	Oil and Grease, mg/l, Max.	<4.0	-	-
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as $CaCO_3$), mg/l, Max.	41	200	600
14.	Calcium (as Ca), mg/l, Max.	17	75	200
15.	Magnesium (as Mg), mg/l, Max.	<1.0	30	100
16.	Iron (as Fe), mg/l, Max.	0.03	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	<0.1	-	-
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as NH_3), mg/l, Max.	<0.01	-	-

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025

ENVIROCON * DIGBOI, ASSAM * Date

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/SCML/ML/26-27/FR-21
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER FLOW RESULTS

Sl. No.	Locations	Date of Measurement	Flow Rate (m^3/s)
1.	Lubha River (Downstream)	06.08.2026	55.4

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/SCl/ML/26-27/SW-30
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To: **STAR CEMENT MEGHALAYA LIMITED**
Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/SW-260818/07 | Sample Source : Lukha River | Sample Type : Surface Water
Collected On : 18-08-2026 | Received On : 22-08-2026 | Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	10	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.7	-	-
4.	pH Value	6.82	6.5 - 8.5	No Relaxation
5.	Suspended Solids	57	-	-
6.	Total Dissolved Solids, mg/l, Max.	124	500	2000
7.	Conductivity, µS/cm	215	-	-
8.	Dissolved Oxygen, mg/l, Min.	5.8	-	-
9.	Biochemical Oxygen Demand, mg/l, Max.	<1.0	-	-
10.	Chemical Oxygen Demand, mg/l, Max.	15	-	-
11.	Oil and Grease, mg/l, Max.	<4.0	-	-
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as $CaCO_3$), mg/l, Max.	26	200	600
14.	Calcium (as Ca), mg/l, Max.	11	75	200
15.	Magnesium (as Mg), mg/l, Max.	<1.0	30	100
16.	Iron (as Fe), mg/l, Max.	0.06	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	<0.1	-	-
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as NH_3), mg/l, Max.	<0.01	-	-

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025

ENVIROCON * DIGBOI, ASSAM * Date

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/SCML/ML/26-27/FR-22
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER FLOW RESULTS

Sl. No.	Locations	Date of Measurement	Flow Rate (m^3/s)
1.	Lukha River	06.08.2026	58.5

ENVIROCON * DIGBOI, ASSAM * Date:

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/SCl/ML/26-27/SW-31
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To: **STAR CEMENT MEGHALAYA LIMITED**
Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/SW-260818/08 | Sample Source : Umbadoh Spring | Sample Type : Surface Water
Collected On : 18-08-2026 | Received On : 22-08-2026 | Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	13	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.5	-	-
4.	pH Value	6.73	6.5 - 8.5	No Relaxation
5.	Suspended Solids	46	-	-
6.	Total Dissolved Solids, mg/l, Max.	153	500	2000
7.	Conductivity, µS/cm	258	-	-
8.	Dissolved Oxygen, mg/l, Min.	6	-	-
9.	Biochemical Oxygen Demand, mg/l, Max.	<1.0	-	-
10.	Chemical Oxygen Demand, mg/l, Max.	17	-	-
11.	Oil and Grease, mg/l, Max.	<4.0	-	-
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as $CaCO_3$), mg/l, Max.	52	200	600
14.	Calcium (as Ca), mg/l, Max.	21	75	200
15.	Magnesium (as Mg), mg/l, Max.	<1.0	30	100
16.	Iron (as Fe), mg/l, Max.	0.02	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	<0.1	-	-
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as NH_3), mg/l, Max.	<0.01	-	-

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025

ENVIROCON * DIGBOI, ASSAM * Date

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/SCML/ML/26-27/FR-23
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER FLOW RESULTS

Sl. No.	Locations	Date of Measurement	Flow Rate (m^3/s)
1.	Umbadoh Spring	07.08.2026	53.4

ENVIROCON * DIGBOI, ASSAM * Date:

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/SCl/ML/26-27/SW-32
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To: **STAR CEMENT MEGHALAYA LIMITED**
Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/SW-260818/09 | Sample Source : Tongseng Spring | Sample Type : Surface Water
Collected On : 18-08-2026 | Received On : 22-08-2026 | Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	11	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.4	-	-
4.	pH Value	6.8	6.5 - 8.5	No Relaxation
5.	Suspended Solids	69	-	-
6.	Total Dissolved Solids, mg/l, Max.	137	500	2000
7.	Conductivity, µS/cm	234	-	-
8.	Dissolved Oxygen, mg/l, Min.	5.7	-	-
9.	Biochemical Oxygen Demand, mg/l, Max.	<1.0	-	-
10.	Chemical Oxygen Demand, mg/l, Max.	19	-	-
11.	Oil and Grease, mg/l, Max.	<4.0	-	-
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as $CaCO_3$), mg/l, Max.	46	200	600
14.	Calcium (as Ca), mg/l, Max.	15	75	200
15.	Magnesium (as Mg), mg/l, Max.	2	30	100
16.	Iron (as Fe), mg/l, Max.	0.04	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	<0.1	-	-
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as NH_3), mg/l, Max.	<0.01	-	-

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025

ENVIROCON * DIGBOI, ASSAM * Date

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/SCML/ML/26-27/FR-24
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER FLOW RESULTS

Sl. No.	Locations	Date of Measurement	Flow Rate (m^3/s)
1.	Tongseng Spring	07.08.2026	55.6

ENVIROCON * DIGBOI, ASSAM * Date:

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Report No.: ENV/SCl/ML/26-27/SW-33
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To: **STAR CEMENT MEGHALAYA LIMITED**
Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/SW-260818/10 | Sample Source : Lumshnong Spring | Sample Type : Surface Water
Collected On : 18-08-2026 | Received On : 22-08-2026 | Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	9	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.6	-	-
4.	pH Value	6.76	6.5 - 8.5	No Relaxation
5.	Suspended Solids	51	-	-
6.	Total Dissolved Solids, mg/l, Max.	129	500	2000
7.	Conductivity, µS/cm	221	-	-
8.	Dissolved Oxygen, mg/l, Min.	6.1	-	-
9.	Biochemical Oxygen Demand, mg/l, Max.	<1.0	-	-
10.	Chemical Oxygen Demand, mg/l, Max.	14	-	-
11.	Oil and Grease, mg/l, Max.	<4.0	-	-
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as $CaCO_3$), mg/l, Max.	47	200	600
14.	Calcium (as Ca), mg/l, Max.	18	75	200
15.	Magnesium (as Mg), mg/l, Max.	<1.0	30	100
16.	Iron (as Fe), mg/l, Max.	0.05	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	<0.1	-	-
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as NH_3), mg/l, Max.	<0.01	-	-

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025

ENVIROCON * DIGBOI, ASSAM * Date

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/SCML/ML/26-27/FR-25
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER FLOW RESULTS

Sl. No.	Locations	Date of Measurement	Flow Rate (m^3/s)
1.	Lumshnong Spring	08.08.2026	49.1

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Report No.: ENV/SCML/ML/26-27/WW-25
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Lumshnong, P. O.: Khilehriat, Dist.: East Jaintia Hills, Meghalaya

WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : SCML/WW-260819/01 Sample Source : ETP Inlet (SCML) Sample Type : ETP Un-treated Water
Collected On : 19-08-2026 Received On : 21-08-2026 Collected By : ENVIROCON Representative

S. No.	Parameters	Results	Units	Limits [G.S.R. 422(E), 19.05.1993]
1.	pH	6.59	--	5.5 – 9.0
2.	Temperature	26.4	^{0}C	Shall not exceed 5^{0}C above the receiving water temperature
3.	Bio-chemical Oxygen Demand (3 days at 27^{0}C)	52	mg/l	30
4.	Chemical Oxygen Demand	226	mg/l	250
5.	Total Suspended Solids	279	mg/l	100
6.	Oil & Grease	13.5	mg/l	10
7.	Total Residual Chlorine	<0.01	mg/l	1.0
8.	Ammonical Nitrogen (as N)	39	mg/l	50
9.	Total Kjeldahl Nitrogen (as NH_3)	76	mg/l	100
10.	Free Ammonia	0.19	mg/l	5.0

ENVIROCON Date..... DIGBOI, ASSAM

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/SCML/ML/26-27/WW-26
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Lumshnong, P. O.: Khilehriat, Dist.: East Jaintia Hills, Meghalaya

WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : SCML/WW-260819/02 Sample Source : ETP Outlet (SCML) Sample Type : ETP Treated Water
Collected On : 19-08-2026 Received On : 21-08-2026 Collected By : ENVIROCON Representative

S. No.	Parameters	Results	Units	Limits [G.S.R. 422(E), 19.05.1993]
1.	pH	6.79	--	5.5 – 9.0
2.	Temperature	26.4	^{0}C	Shall not exceed 5^{0}C above the receiving water temperature
3.	Bio-chemical Oxygen Demand (3 days at 27^{0}C)	24	mg/l	30
4.	Chemical Oxygen Demand	81	mg/l	250
5.	Total Suspended Solids	32	mg/l	100
6.	Oil & Grease	<4.0	mg/l	10
7.	Total Residual Chlorine	<0.01	mg/l	1.0
8.	Ammonical Nitrogen (as N)	7.7	mg/l	50
9.	Total Kjeldahl Nitrogen (as NH_3)	16	mg/l	100
10.	Free Ammonia	<0.01	mg/l	5.0

ENVIROCON * DIGBOI, ASSAM * Date

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/SCML/ML/26-27/WW-27
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Lumshnong, P. O.: Khilehriat, Dist.: East Jaintia Hills, Meghalaya

WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : SCML/WW-260819/03 Sample Source : STP Inlet (SCML) Sample Type : STP Un-treated Water
Collected On : 19-08-2026 Received On : 21-08-2026 Collected By : ENVIROCON Representative

S. No.	Parameters	Results	Units	Limits [G.S.R. 422(E), 19.05.1993]
1.	pH	7.92	--	5.5 – 9.0
2.	Temperature	26.3	^{0}C	Shall not exceed 5^{0}C above the receiving water temperature
3.	Bio-chemical Oxygen Demand (3 days at 27^{0}C)	60	mg/l	30
4.	Chemical Oxygen Demand	212	mg/l	250
5.	Total Suspended Solids	254	mg/l	100
6.	Oil & Grease	8.3	mg/l	10
7.	Total Residual Chlorine	<0.01	mg/l	1.0
8.	Ammonical Nitrogen (as N)	32	mg/l	50
9.	Total Kjeldahl Nitrogen (as NH_3)	71	mg/l	100
10.	Free Ammonia	0.11	mg/l	5.0

ENVIROCON Date..... DIGBOI, ASSAM

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/SCML/ML/26-27/WW-28
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Lumshnong, P. O.: Khilehriat, Dist.: East Jaintia Hills, Meghalaya

WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : SCML/WW-260819/04 Sample Source : STP Outlet (SCML) Sample Type : STP Treated Water
Collected On : 19-08-2026 Received On : 21-08-2026 Collected By : ENVIROCON Representative

S. No.	Parameters	Results	Units	Limits [G.S.R. 422(E), 19.05.1993]
1.	pH	7.19	--	5.5 – 9.0
2.	Temperature	26.4	^{0}C	Shall not exceed 5^{0}C above the receiving water temperature
3.	Bio-chemical Oxygen Demand (3 days at 27^{0}C)	22	mg/l	30
4.	Chemical Oxygen Demand	78	mg/l	250
5.	Total Suspended Solids	29	mg/l	100
6.	Oil & Grease	<4.0	mg/l	10
7.	Total Residual Chlorine	0.16	mg/l	1.0
8.	Ammonical Nitrogen (as N)	11	mg/l	50
9.	Total Kjeldahl Nitrogen (as NH_3)	23	mg/l	100
10.	Free Ammonia	<0.01	mg/l	5.0

ENVIROCON * DIGBOI, ASSAM * Date:

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/SCML/ML/26-27/WW-29
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Lumshnong, P. O.: Khilehriat, Dist.: East Jaintia Hills, Meghalaya

WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : SCML/WW-260819/05 Sample Source : Coal Neutralization Pit (SCML) Sample Type : Waste Water (Un-treated)
Collected On : 19-08-2026 Received On : 21-08-2026 Collected By : ENVIROCON Representative

S. No.	Parameters	Results	Units	Limits [G.S.R. 422(E), 19.05.1993]
1.	pH	4.09	--	5.5 – 9.0
2.	Temperature	26.4	^{0}C	Shall not exceed 5^{0}C above the receiving water temperature
3.	Bio-chemical Oxygen Demand (3 days at 27^{0}C)	46	mg/l	30
4.	Chemical Oxygen Demand	158	mg/l	250
5.	Total Suspended Solids	182	mg/l	100
6.	Oil & Grease	<4.0	mg/l	10
7.	Total Residual Chlorine	<0.01	mg/l	1.0
8.	Ammonical Nitrogen (as N)	9.2	mg/l	50
9.	Total Kjeldahl Nitrogen (as NH_3)	18	mg/l	100
10.	Free Ammonia	<0.01	mg/l	5.0

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/SCML/ML/26-27/WW-30
Date : 11/09/2026

Order No.: 5300027956
Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**
Lumshnong, P. O.: Khilehriat, Dist.: East Jaintia Hills, Meghalaya

WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : SCML/WW-260819/06 Sample Source : Coal Neutralization Pit (SCML) Sample Type : Waste Water (Treated)
Collected On : 19-08-2026 Received On : 21-08-2026 Collected By : ENVIROCON Representative

S. No.	Parameters	Results	Units	Limits [G.S.R. 422(E), 19.05.1993]
1.	pH	5.93	--	5.5 – 9.0
2.	Temperature	26.4	^{0}C	Shall not exceed 5^{0}C above the receiving water temperature
3.	Bio-chemical Oxygen Demand (3 days at 27^{0}C)	23	mg/l	30
4.	Chemical Oxygen Demand	96	mg/l	250
5.	Total Suspended Solids	33	mg/l	100
6.	Oil & Grease	<4.0	mg/l	10
7.	Total Residual Chlorine	<0.01	mg/l	1.0
8.	Ammonical Nitrogen (as N)	3.9	mg/l	50
9.	Total Kjeldahl Nitrogen (as NH_3)	8.7	mg/l	100
10.	Free Ammonia	<0.01	mg/l	5.0

ENVIROCON * DIGBOI, ASSAM * Date

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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