

# 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/2026-27/11

Dated: 06/06/2026

To,

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

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

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

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

Thanking You,

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

SK

Lokesh Kumar Bahety  
Unit Head



Enclosed: a/a



# STAR CEMENT MEGHALAYA LIMITED

Lumshnong, Meghalaya

Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)
01-05-2026	991.9	92.5	21	24.2
02-05-2026	1000.6	96.2	20	38.0
03-05-2026	996.2	83.8	24	0.0
04-05-2026	1002.3	93.9	22	13.6
05-05-2026	997.3	90.6	23	0.0
06-05-2026	996.2	90.1	25	0.0
07-05-2026	999.5	84.6	24	0.0
08-05-2026	998.9	64.0	30	0.0
09-05-2026	992.8	69.7	27	0.0
10-05-2026	998.6	79.5	28	0.0
11-05-2026	1010.0	74.8	26	0.0
12-05-2026	1004.2	76.0	27	0.0
13-05-2026	1006.0	78.1	28	4.4
14-05-2026	995.2	94.3	24	38.8
15-05-2026	998.1	97.3	24	101.5
16-05-2026	999.2	89.9	25	19.6
17-05-2026	998.8	92.6	26	76.0
18-05-2026	1002.6	96.4	22	22.6
19-05-2026	1005.7	94.0	26	6.2
20-05-2026	1001.2	79.3	33	0.0
21-05-2026	998.6	84.0	29	0.0
22-05-2026	1000.7	93.4	27	5.6
23-05-2026	1001.5	89.0	25	18.2
24-05-2026	1002.4	91.6	28	66.8
25-05-2026	996.8	93.9	23	41.4
26-05-2026	999.5	93.2	25	11.6
27-05-2026	1002.9	91.0	21	17.5
28-05-2026	1005.3	79.9	25	10.2
29-05-2026	1001.5	72.3	29	5.9
30-05-2026	1002.8	77.6	27	0.0
31-05-2026	1001.6	85.3	26	0.0
			<b>Total</b>	<b>522.1</b>

Report No. : ENV/SCML/ML/26-27/AA-02  
Date : 08/06/2026

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 <sub>2</sub> (µg/m³)	NO <sub>2</sub> (µg/m³)	NH <sub>3</sub> (µg/m³)	CO (mg/m³)	O <sub>3</sub> (µg/m³)	Benzene (µg/m³)	Benzopyrene (ng/m³)	Nickel (ng/m³)	Arsenic (ng/m³)	Lead (µg/m³)
<b>LIMITS →</b>	--	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	07.05.2026	19.3	46.2	7.4	7.8	<5.0	<0.01	<5.0	<0.1	<0.01	<0.01	<0.01	<0.01
WHRS Colony	07.05.2026	22.7	49.3	8.2	11.3	<5.0	<0.01	<5.0	<0.1	<0.01	<0.01	<0.01	<0.01
Near Guest House	07.05.2026	20.7	47.4	7.1	9.8	<5.0	<0.01	<5.0	<0.1	<0.01	<0.01	<0.01	<0.01
Near TPP Office	07.05.2026	26.4	51.2	11.5	13.6	<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

<p><b>NOTE:</b></p> <ol style="list-style-type: none"> <li>1. Results reported are valid at the time of and under the prevailing conditions of measurement.</li> <li>2. Results refer only to the particular parameters tested.</li> <li>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.</li> </ol>
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	<b>STAR CEMENT MEGHALAYA LIMITED</b> Lumshnong, Meghalaya			Reference No.	SCML/Env/F – 01
				Issue No.	1
	<b>AMBIENT AIR QUALITY MONITORING REPORT</b>			Date of Issue:	24.08.2013
				Revision No.	5
Reference No.: SCML/ENV/AAQM/MONTHLY/2026-27/02				Date of Rev.	
				01.12.2020	
				Month : May'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.	24 Hrs.
Date of Sampling	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> ( µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	
04-05-2026	Rainfall	Rainfall	Rainfall	Rainfall	
09-05-2026	38.95	21.17	16.83	15.29	
12-05-2026	39.64	20.85	17.81	14.75	
16-05-2026	Rainfall	Rainfall	Rainfall	Rainfall	
19-05-2026	36.62	19.17	16.79	14.10	
23-05-2026	36.57	22.01	18.74	16.31	
27-05-2026	Rainfall	Rainfall	Rainfall	Rainfall	
30-05-2026	42.34	20.82	15.82	13.75	
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m <sup>3</sup> )	60 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )	
<b>Remarks:</b> All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.					
 Analysed by		 Checked by		 Verified By	

	<b>STAR CEMENT MEGHALAYA LIMITED</b> Lumshnong, Meghalaya			Reference No.	SCML/Env/F – 01	
				Issue No.	1	
	<b>AMBIENT AIR QUALITY MONITORING REPORT</b>			Date of Issue:	24.08.2013	
				Revision No.	5	
Reference No.: SCML/ENV/AAQM/MONTHLY/2026-27/02				Date of Rev.		01.12.2020
				Month : May'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.	24 Hrs.	
Date of Sampling	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )		
04-05-2026	Rainfall	Rainfall	Rainfall	Rainfall		
09-05-2026	41.93	18.89	17.21	14.71		
12-05-2026	43.84	23.48	16.59	12.42		
16-05-2026	Rainfall	Rainfall	Rainfall	Rainfall		
19-05-2026	40.83	22.10	15.57	12.46		
23-05-2026	38.98	17.76	15.25	13.38		
27-05-2026	Rainfall	Rainfall	Rainfall	Rainfall		
30-05-2026	38.87	21.92	16.93	13.35		
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m <sup>3</sup> )	60 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )		
<b>Remarks:</b> All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.						
 Analysed by		 Checked by		 Verified By		

	<b>STAR CEMENT MEGHALAYA LIMITED</b> Lumshnong, Meghalaya			Reference No.	SCML/Env/F – 01	
				Issue No.	1	
	<b>AMBIENT AIR QUALITY MONITORING REPORT</b>			Date of Issue:	24.08.2013	
				Revision No.	5	
Reference No.: SCML/ENV/AAQM/MONTHLY/2026-27/02				Date of Rev.		01.12.2020
				Month : May'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.	24 Hrs.	
Date of Sampling	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> ( µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )		
02-05-2026	Rainfall	Rainfall	Rainfall	Rainfall		
07-05-2026	40.15	24.12	19.77	17.73		
11-05-2026	42.38	20.06	20.23	15.40		
15-05-2026	Rainfall	Rainfall	Rainfall	Rainfall		
20-05-2026	43.70	22.69	18.20	18.07		
22-05-2026	43.33	20.82	20.64	18.93		
25-05-2026	Rainfall	Rainfall	Rainfall	Rainfall		
29-05-2026	39.55	19.87	20.35	17.26		
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m <sup>3</sup> )	60 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )		
<b>Remarks:</b> All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.						
 Analysed by		 Checked by		 Verified By		

	<b>STAR CEMENT MEGHALAYA LIMITED</b> Lumshnong, Meghalaya			Reference No.	SCML/Env/F – 01
				Issue No.	1
	<b>AMBIENT AIR QUALITY MONITORING REPORT</b>			Date of Issue:	24.08.2013
				Revision No.	5
				Date of Rev.	01.12.2020
Reference No.: SCML/ENV/AAQM/MONTHLY/2026-27/02				Month : May'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.	24 Hrs.
Date of Sampling	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> ( µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	
04-05-2026	Rainfall	Rainfall	Rainfall	Rainfall	
09-05-2026	50.73	24.24	23.09	15.18	
12-05-2026	43.09	20.41	21.30	14.68	
16-05-2026	Rainfall	Rainfall	Rainfall	Rainfall	
19-05-2026	48.29	22.94	22.27	13.95	
23-05-2026	48.31	26.23	22.40	14.45	
27-05-2026	Rainfall	Rainfall	Rainfall	Rainfall	
30-05-2026	49.58	25.10	22.43	14.76	
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m <sup>3</sup> )	60 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )	
<b>Remarks:</b> All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.					
 Analysed by		 Checked by		 Verified By	

Report No.: ENV/SCML/ML/26-27/SE-08

Date : 08/06/2026

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.	SCML/SE-260507/01		
02	Date of Sampling	07.05.2026		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Flue Gas Temperature (°C)	56		
06	Exit Velocity of Gas (m/sec)	11.9		
07	Flow Rate (Nm <sup>3</sup> /hr)	38921		
08	Type of Fuel Used	NA		
09	<b>Analysis Results of Flue Gas</b>			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	27	mg/Nm <sup>3</sup>	30

NA: Not Applicable



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

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Report No.: ENV/SCML/ML/26-27/SE-09

Date : 08/06/2026

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.	SCML/SE-260507/02		
02	Date of Sampling	07.05.2026		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler ESP		
05	Flue Gas Temperature (°C)	101		
06	Exit Velocity of Gas (m/sec)	8.6		
07	Flow Rate (Nm <sup>3</sup> /hr)	151918		
08	Type of Fuel Used	NA		
09	<b>Analysis Results of Flue Gas</b>			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	25	mg/Nm <sup>3</sup>	30

NA: Not Applicable



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

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Report No.: ENV/SCML/ML/26-27/SE-10

Date : 08/06/2026

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.	SCML/SE-260507/03		
02	Date of Sampling	07.05.2026		
03	Material of Construction	M. S.		
04	Stack Attached To	Lime Stone Crusher		
05	Flue Gas Temperature (°C)	27		
06	Exit Velocity of Gas (m/sec)	4.2		
07	Flow Rate (Nm <sup>3</sup> /hr)	18434		
08	Type of Fuel Used	NA		
09	<b>Analysis Results of Flue Gas</b>			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	12	mg/Nm <sup>3</sup>	30

NA: Not Applicable



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

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Report No.: ENV/SCML/ML/26-27/SE-11

Date : 08/06/2026

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.	SCML/SE-260507/04		
02	Date of Sampling	07.05.2026		
03	Material of Construction	M. S.		
04	Stack Attached To	Raw Mill / Kiln		
05	Flue Gas Temperature (°C)	125		
06	Exit Velocity of Gas (m/sec)	14.5		
07	Flow Rate (Nm <sup>3</sup> /hr)	276307		
08	Type of Fuel Used	Coal		
09	<b>Analysis Results of Flue Gas</b>			
<b>Sl. No.</b>	<b>Parameter(s)</b>	<b>Result(s)</b>	<b>Unit(s)</b>	<b>Limit(s)</b>
i.	PM- Particulate Matter	18	mg/Nm <sup>3</sup>	30



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

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Report No- GFAPL/26-27/SCML/003

Issued Date-19.05.2026

TEST REPORT

<b>Client Name &amp;Address</b>	<b>STAR CEMENT MEGHALAYA LIMITED.</b> At- Lumshnong, P. O.: Khilehriat, Dist.: East Jaintia Hills, Meghalaya.		
<b>Nature of Sampling</b>	<b>Stack Monitoring</b>		
<b>Sampling By</b>	<b>Client's Representative</b>		
<b>Environmental Condition</b>	<b>Clean</b>	<b>Sampling Method</b>	As per IS: 11255
<b>Location of performance of Laboratory activities</b>	Laboratory Permanent Facility	<b>Deviation from the method (if any)</b>	NO
<b>Discipline</b>	Chemical	<b>Group</b>	Atmospheric Pollution
<b>Date of Sampling</b>	07.05.2026	<b>Date of Receiving</b>	12.05.2026
<b>Date of Analysis</b>	13.05.2026	<b>Date of Complete</b>	18.05.2026
<b>Sampling Location</b>	ST1- Stack Attached to Raw Mill / Kiln;		
<b>Instrument Used</b>	Stack monitoring Kit; Vacuum Pump; Pyrometer		

Sl. No	Items	Testing Method	Unit	Limits	Results
1.	Sulphur Dioxide as SO <sub>2</sub>	IS-11255(PART-2) 1985, (RA-2019)	mg/Nm <sup>3</sup>	1000	617.0
2.	Nitrogen oxide as NOx	IS-11255(PART-7) 1985	mg/Nm <sup>3</sup>	600	263.0

Reviewed By

Authorized Signatory

**TECHNICAL MANAGER**  
GREENFORCE ASSOCIATES PRIVATE LIMITED  
Bhubaneswar, Odisha  
Mr. S.K. Parin

**DEPUTY QUALITY MANAGER**  
GREENFORCE ASSOCIATES PRIVATE LIMITED  
Bhubaneswar, Odisha  
Dy. Quality Manager

**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\*

Report No.: ENV/SCML/ML/25-26/SE-12

Date : 08/06/2026

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.	SCML/SE-260508/01		
02	Date of Sampling	08.05.2026		
03	Material of Construction	M. S.		
04	Stack Attached To	Additive Crusher		
05	Flue Gas Temperature (°C)	26		
06	Exit Velocity of Gas (m/sec)	4.3		
07	Flow Rate (Nm <sup>3</sup> /hr)	12119		
08	Type of Fuel Used	NA		
09	<b>Analysis Results of Flue Gas</b>			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	13	mg/Nm <sup>3</sup>	30

NA: Not Applicable



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

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Report No.: ENV/SCML/ML/25-26/SE-13

Date : 08/06/2026

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.	SCML/SE-260508/02		
02	Date of Sampling	08.05.2026		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
05	Flue Gas Temperature (°C)	61		
06	Exit Velocity of Gas (m/sec)	8.6		
07	Flow Rate (Nm <sup>3</sup> /hr)	31245		
08	Type of Fuel Used	NA		
09	<b>Analysis Results of Flue Gas</b>			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	21	mg/Nm <sup>3</sup>	30

NA: Not Applicable



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

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Report No.: ENV/SCML/ML/25-26/SE-14

Date : 08/06/2026

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.	SCML/SE-260508/03		
02	Date of Sampling	08.05.2026		
03	Material of Construction	M. S.		
04	Stack Attached To	Packing Plant		
05	Flue Gas Temperature (°C)	27		
06	Exit Velocity of Gas (m/sec)	8.3		
07	Flow Rate (Nm <sup>3</sup> /hr)	13792		
08	Type of Fuel Used	NA		
09	<b>Analysis Results of Flue Gas</b>			
<b>Sl. No.</b>	<b>Parameter(s)</b>	<b>Result(s)</b>	<b>Unit(s)</b>	<b>Limit(s)</b>
i.	PM- Particulate Matter	24	mg/Nm <sup>3</sup>	30

**NA: Not Applicable**



ENVIROCON  
DIGBOI, ASSAM

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

<p><b>NOTE:</b></p> <ol style="list-style-type: none"> <li>1. Results reported are valid at the time of and under the prevailing conditions of measurement.</li> <li>2. Results refer only to the particular parameters tested.</li> <li>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.</li> </ol>
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**Core Services:** Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs  
**Associate Services:** Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.



# STAR CEMENT MEGHALAYA LIMITED

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/2026-27/02

Month: May'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 <sup>2</sup> )	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	20-05-2026	20-05-2026	23-05-2026	22-05-2026	22-05-2026
2	Ambient Temp (°C)	33	33	26	28	28
3	Stack Gas Temp (°C)	43	42	155	71	154
4	Exit Velocity of Gas (m/sec.)	12.66	11.19	18.23	13.86	16.93
5	Flow Rate (Nm <sup>3</sup> / sec.)	17.08	16.82	118.81	27.13	68.21
6	Quantity of Emission (Nm <sup>3</sup> / Hr)	61488	60552	427716	97668	245556
7	Concentration of PM (mg/Nm <sup>3</sup> )	17.68	16.54	13.58	17.10	13.69
8	Concentration of SO <sub>2</sub> (mg/Nm <sup>3</sup> )	-	-	385.49	-	-
9	Concentration of NO <sub>x</sub> (mg/Nm <sup>3</sup> )	-	-	240.54	-	-
10	Oxygen (O <sub>2</sub> ) (%)	10.7	9.7	10.8	10.7	11.1
E. Remarks						

#### Standard

PM - 30 mg/Nm<sup>3</sup>

SO<sub>2</sub> - 1000 mg/Nm<sup>3</sup>


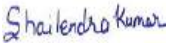


NO<sub>x</sub> - 600 mg/Nm<sup>3</sup>

Particulate Matter (PM), Sulphur di-oxide (SO<sub>2</sub>), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP), Limestone (LS), Additive (Add)

Shailendra Kumar  
Analysed by

Checked by

Verified By

	<b>STAR CEMENT MEGHALAYA LIMITED</b> <b>CEMENT MILL - 1</b> <b>Lumshnong, Meghalaya</b>	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/2026-27/02		Month: May'26	
<b><u>Analysis Result</u></b>			
<b>A. General Information About Stack</b>			
1	Stack Identification No	<b>S-4</b>	<b>S-5</b>
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>B. Physical characteristic of stack</b>			
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 <sup>2</sup> )	1.77	0.95
<b>C. Pollution Control Device</b>			
1	Details of pollution control device attached to stack	Bag Filter	Bag Filter
<b>D. Result of Sampling &amp; Analysis of Gaseous Emission</b>			
1	Date of Sampling	26-05-2026	26-05-2026
2	Ambient Temp (°C)	26	26
3	Stack Gas Temp (°C)	44	45
4	Exit Velocity of Gas (m/sec.)	16.99	16.32
5	Flow Rate (Nm <sup>3</sup> / sec.)	13.15	12.98
6	Quantity of Emission (Nm <sup>3</sup> / Hr)	47340	46728
7	Concentration of PM (mg/Nm <sup>3</sup> )	15.17	12.36
8	Concentration of SO <sub>2</sub> (mg/Nm <sup>3</sup> )	-	-
9	Concentration of NO <sub>x</sub> (mg/Nm <sup>3</sup> )	-	-
10	Oxygen (O <sub>2</sub> ) (%)	10.0	9.9
E.	Remarks		
<b>Standard</b>			
PM - 30 mg/Nm <sup>3</sup>		SO <sub>2</sub> - 1000 mg/Nm <sup>3</sup>	
		NO <sub>x</sub> - 600 mg/Nm <sup>3</sup>	
<i>Particulate Matter (PM), Sulphur di-oxide (SO<sub>2</sub>), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP), Limestone (LS), Additive (Add)</i>			
 <b>Analysed by</b>		 <b>Checked by</b>	
		 <b>Verified By</b>	

**STAR CEMENT MEGHALAYA LIMITED**

Lumshnong, Meghalaya

Document No. SCML/EHS/Env/F-04

Date of Issued 01-05-2019

Revision No. 2

Revision Date 01-01-2021

**FUGITIVE EMISSION MONITORING REPORT**

Ref: SCML/ENV/FUGITIVE/MONTHLY/2026-27/02





**Month - May'26**

Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline
			Limit
		(in $\mu\text{g}/\text{m}^3$ )	(in $\mu\text{g}/\text{m}^3$ )
09.05.2026	Coal Storage Section	1190	2000
09.05.2026	Limestone Storage Section	1316	5000
09.05.2026	Clinker Loading Section	1393	2000

*Shailendra Kumar*  
Analyzed By

*[Signature]*  
Checked By

*[Signature]*  
Verified By

	<b>STAR CEMENT MEGHALAYA LIMITED</b> <b>CEMENT MILL</b> <b>Lumshnong, Meghalaya</b>		Document No.	SCML/EHS/Env/F-04
			Date of Issued	01-05-2019
	<b>FUGITIVE EMISSION MONITORING REPORT</b>		Revision No.	2
			Revision Date	01-01-2021
<b>Ref: SCML/ENV/FUGITIVE/MONTHLY/2026-27/02</b>				
<b>Month - May'26</b>				
<b>Date</b>	<b>Location</b>	<b>Fugitive Emission Results</b>  (in $\mu\text{g}/\text{m}^3$ )	<b>As per CPCB/BIS Guideline</b>	
			<b>Limit</b>  (in $\mu\text{g}/\text{m}^3$ )	
23.05.2026	Cement Packing Plant	1325	5000	
<div style="display: flex; justify-content: space-between; align-items: flex-end; padding: 10px;"> <div style="text-align: center;">   <b>Analyzed By</b> </div> <div style="text-align: center;">   <b>Checked by</b> </div> <div style="text-align: center;">   <b>Verified By</b> </div> </div>				

Report No.: ENV/SCML/ML/26-27/N-03

Date : 08/06/2026

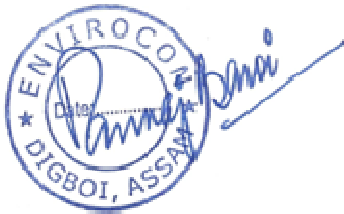
Order No.: 5300027956

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	07.05.2026	53.9	75	44.5	70
2	Near Worker Colony	07.05.2026	51.7	75	43.9	70
3	Near Raw Mill Hopper	07.05.2026	69.2	75	66.2	70
4	Near Water Reservoir	07.05.2026	62.6	75	59.2	70



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

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**Associate Services:** Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.



**STAR CEMENT MEGHALAYA LIMITED**  
Lumshnong, Meghalaya

**NOISE LEVEL MONITORING REPORT**

Document No.	SCML/EHS/Env/F-03
Effective Date	01-05-2019
Revision No.	04
Revision Date	01-01-2021

Ref: SCML/ENV/NOISE/MONTHLY/2026-27/02

Date: 27.05.2026

**Month -May'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.	
		<b>A. Plant</b>							
1	Kiln	62.5	68.2	65.4	75	55.0	59.3	57.2	70
2	Vertical Raw Mill	60.2	67.0	63.6		53.6	60.2	56.9	
3	Raw Mill WF	61.6	67.3	64.5		51.2	60.6	55.9	
4	Coal Mill	59.1	62.7	60.9		54.8	57.4	56.1	
5	Limestone Crusher(Dump Hopper)	58.8	64.2	61.5		56.9	61.1	59.0	
6	Additive Crusher	61.5	65.1	63.3		55.3	59.5	57.4	
7	Cement Mill	58.6	63.8	61.2		53.9	61.4	57.7	
8	Cement Mill WF	59.2	62.3	60.8		52.4	62.0	57.2	
<b>B. Offices</b>									
1	CCR	46.3	54.5	50.4	75	40.6	51.2	45.9	70
2	Meeting Room	49.3	53.2	51.3		38.1	39.9	39.0	
3	VP'S Room	46.1	50.2	48.2		36.6	37.4	37.0	
4	Inst. Shift Room	48.7	63.0	55.9		42.9	52.9	47.9	
5	Electrical Office	46.6	59.6	53.1		43.5	53.5	48.5	
6	QC Department								
	a)Chemical Lab	53.8	60.7	57.3		36.6	48.3	42.5	
	b)Physical Lab	61.6	65.9	63.8		50.6	60.5	55.6	
	c)XRF Lab	47.6	58.0	52.8		39.6	51.5	45.6	
	d) Sample Preparation Room	57.8	65.0	61.4		47.6	56.9	52.3	
<b>C. Residential</b>									
1	450 Quater's	36.9	44.2	40.6	55	32.0	41.5	36.8	45
2	Worker's Colony	37.7	45.7	41.7		32.9	40.1	36.5	

*Shailendra Kumar*  
Analyzed by

*[Signature]*  
Checked By

*[Signature]*  
Verified By

Report No.: ENV/SCML-TPP/ML/26-27/SE-04  
Date : 08/06/2026

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 (°C)	NA		
06	Exit Velocity of Gas (m/sec)	NA		
07	Flow Rate (Nm <sup>3</sup> /hr)	NA		
08	Type of Fuel Used	NA		
09	<b>Analysis Results of Flue Gas</b>			
<b>Sl. No.</b>	<b>Parameter(s)</b>	<b>Result(s)</b>	<b>Unit(s)</b>	<b>Limit(s)</b>
i.	PM- Particulate Matter	NA	mg/Nm <sup>3</sup>	50

**NA: Not Applicable**

**Note: Plant was shut down during the monitoring period.**



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

<p><b>NOTE:</b></p> <ol style="list-style-type: none"> <li>1. Results reported are valid at the time of and under the prevailing conditions of measurement.</li> <li>2. Results refer only to the particular parameters tested.</li> <li>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.</li> </ol>
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**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
Date of Rev.	01.06.2021

**STACK EMISSION MONITORING ANALYSIS REPORT**

Report No: SCML TPP(8 MW)/ENV/STACK/MONTHLY/2026-27/02

Month: May'26

**Analysis Result**

<b>A. General Information About Stack</b>		
1	Stack Identification No	<b>8 MW</b>
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>B. Physical characteristic of stack</b>		
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 <sup>2</sup> )	3.4
<b>C. Pollution Control Device</b>		
1	Details of pollution control device attached to stack	ESP
<b>D. Result of Sampling &amp; Analysis of Gaseous Emission</b>		
1	Date of Sampling	-
2	Ambient Temp (°C)	-
3	Stack Gas Temp (°C)	-
4	Exit Velocity of Gas (m/sec.)	-
5	Flow Rate (Nm <sup>3</sup> / sec.)	-
6	Quantity of Emission (Nm <sup>3</sup> / Hr)	-
7	Concentration of PM (mg/Nm <sup>3</sup> )	-
8	Concentration of SO <sub>2</sub> (mg/Nm <sup>3</sup> )	-
9	Concentration of NO <sub>x</sub> (mg/Nm <sup>3</sup> )	-
10	Oxygen (O <sub>2</sub> ) (%)	-
<b>E. Remarks:</b>	<b>THERMAL POWER PLANT was not in operation.</b>	

**Standard**

PM - 50 mg/Nm<sup>3</sup>

SO<sub>2</sub> - 600 mg/Nm<sup>3</sup>

NO<sub>x</sub> - 300 mg/Nm<sup>3</sup>

*Particulate Matter (PM), Sulphur di-oxide (SO<sub>2</sub>), Oxide of Nitrogen (NO<sub>x</sub>), Electro Static Precipitator (ESP)*

*Shailendra Kumar*  
Analysed by

*[Signature]*  
Checked by

*[Signature]*  
Verified By

Report No.: ENV/SCML-TPP/ML/26-27/SE-03

Order No.: 5300027956

Date : 08/06/2026

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-260509/01		
02	Date of Sampling	09.05.2026		
03	Material of Construction	RCC		
04	Stack Attached To	ESP (43 MW)		
05	Flue Gas Temperature (°C)	89		
06	Exit Velocity of Gas (m/sec)	7.6		
07	Flow Rate (Nm <sup>3</sup> /hr)	41723		
08	Type of Fuel Used	NA		
09	<b>Analysis Results of Flue Gas</b>			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	41	mg/Nm <sup>3</sup>	50

NA: Not Applicable



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

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**Associate Services:** Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.


Report No- GFAPL/26-27/SCML/004

Issued Date-19.05.2026

**TEST REPORT**

<b>Client Name &amp;Address</b>	STAR CEMENT MEGHALAYA LIMITED. At- Lumshnong, P. O.: Khilehriat, Dist.: East Jaintia Hills, Meghalaya.		
<b>Nature of Sampling</b>	Stack Monitoring		
<b>Sampling By</b>	Client's Representative		
<b>Environmental Condition</b>	Clean	<b>Sampling Method</b>	As per IS: 11255
<b>Location of performance of Laboratory activities</b>	Laboratory Permanent Facility	<b>Deviation from the method (if any)</b>	NO
<b>Discipline</b>	Chemical	<b>Group</b>	Atmospheric Pollution
<b>Date of Sampling</b>	08.05.2026	<b>Date of Receiving</b>	12.05.2026
<b>Date of Analysis</b>	13.05.2026	<b>Date of Complete</b>	18.05.2026
<b>Sampling Location</b>	ST2- Stack Attached to ESP (43 MW);		
<b>Instrument Used</b>	Stack monitoring Kit; Vacuum Pump; Pyrometer		

Sl. No	Items	Testing Method	Unit	Limits	Results
1.	Sulphur Dioxide as SO <sub>2</sub>	IS-11255(PART-2) 1985, (RA-2019)	mg/Nm <sup>3</sup>	600	445.0
2.	Nitrogen oxide as NO <sub>x</sub>	IS-11255(PART-7) 1985	mg/Nm <sup>3</sup>	300	163.0


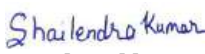


Reviewed By  
  
**TECHNICAL MANAGER**  
 GREENFORCE ASSOCIATES PRIVATE LIMITED  
 BHUBANESWAR, ODISHA  
 Mr. S.K. Parhi

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\***

	<b>STAR CEMENT MEGHALAYA LIMITED</b> <b>THERMAL POWER PLANT (43MW)</b> <b>Lumshnong, Meghalaya</b>		Reference No.	SCML/Env/F-02
			Issue No.	1
	<b>STACK EMISSION MONITORING ANALYSIS REPORT</b>		Date of Issue:	01.05.2019
			Revision No.	5
<b>Report No: SCML TPP(43MW)/ENV/STACK/MONTHLY/2026-27/02</b>			<b>Month: May'26</b>	
<b><u>Analysis Result</u></b>				
<b>A. General Information About Stack</b>				
1	Stack Identification No			<b>43 MW</b>
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>B. Physical characteristic of stack</b>				
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 <sup>2</sup> )			5.94
<b>C. Pollution Control Device</b>				
1	Details of pollution control device attached to stack			ESP
<b>D. Result of Sampling &amp; Analysis of Gaseous Emission</b>				
1	Date of Sampling			21-05-2026
2	Ambient Temp (°C)			30
3	Stack Gas Temp (°C)			126
4	Exit Velocity of Gas (m/sec.)			26.3
5	Flow Rate (Nm <sup>3</sup> / sec.)			53.5
6	Quantity of Emission (Nm <sup>3</sup> / Hr)			192600
7	Concentration of PM (mg/Nm <sup>3</sup> )			29.10
8	Concentration of SO <sub>2</sub> (mg/Nm <sup>3</sup> )			449.30
9	Concentration of NO <sub>x</sub> (mg/Nm <sup>3</sup> )			239.50
10	Oxygen (O <sub>2</sub> ) (%)			10.1
<b>E. Remarks:</b>				
<b>Standard</b>				
PM - 50 mg/Nm <sup>3</sup>		SO <sub>2</sub> - 600 mg/Nm <sup>3</sup>		NO <sub>x</sub> - 300 mg/Nm <sup>3</sup>
<i>Particulate Matter (PM), Sulphur di-oxide (SO<sub>2</sub>), Oxide of Nitrogen (Nox), Electro Static Precipitator (ESP)</i>				
 <b>Analysed by</b>		 <b>Checked by</b>		 <b>Verified By</b>

Report No.: ENV/SCML-TPP/ML/26-27/N-04

Date : 08/06/2026

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	08.05.2026	52.8	75	46.9	70
2	Near ADM Office (South)	08.05.2026	51.3	75	48.5	70
3	Near ADM Office	08.05.2026	52.7	75	47.4	70
4	Behind DM Plant	08.05.2026	61.4	75	56.6	70



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

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**STAR CEMENT MEGHALAYA LIMITED**  
**THERMAL POWER PLANT (8MW)**  
**Lumshnong, Meghalaya**

**NOISE LEVEL MONITORING REPORT**

Document No.	SCML/EHS/Env/F-03
Date of Issued	01-05-2019
Revision No.	04
Revision Date	01-01-2021

Ref: SCML TPP (8MW)/ENV/NOISE/MONTHLY/2026-27/02

Date: 23.05.2026





**Month -May'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	65.9	72.3	69.1	75	52.6	57.1	54.9	70
2	Turbine House 9 Mt.	63.1	69.5	66.3		54.1	56.9	55.5	
3	RO – MCC	62.9	68.9	65.9		52.9	57.3	55.1	
4	Boiler Ground Floor	63.5	66.6	65.1		56.1	56.6	56.4	
5	CHP – MCC	68.3	70.1	69.2		53.6	57.0	55.3	
6	Office Area	48.2	55.4	51.8		38.5	39.6	39.1	

*Shailendra Kumar*  
Analyzed by

*[Signature]*  
Checked By

*[Signature]*  
Verified By

	<b>STAR CEMENT MEGHALAYA LIMITED</b> <b>THERMAL POWER PLANT (43MW)</b> Lumshnong, Meghalaya				Document No.	SCML/EHS/Env/F-03			
					Date of Issued	01-05-2019			
	<b>NOISE LEVEL MONITORING REPORT</b>				Revision No.	04			
					Revision Date	01-01-2021			
Ref: SCML TPP(43MW)/ENV/NOISE/MONTHLY/2026-27/02					Date: 23.05.2026				
<b>Month -May'26</b>									
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.	
<b>A</b>	<b>Plant</b>								
1	Turbine House Ground Floor	65.6	71.9	68.8	<b>75</b>	52.1	57.2	54.7	<b>70</b>
2	Turbine House 9 Mt.	63.1	69.5	66.3		54.1	56.9	55.5	
3	RO – MCC	62.9	68.9	65.9		52.9	57.3	55.1	
4	Boiler Ground Floor	63.5	66.6	65.1		56.1	56.6	56.4	
5	CHP – MCC	68.3	70.1	69.2		53.6	57.0	55.3	
6	Office Area	48.2	55.4	51.8		38.5	39.6	39.1	
 Analyzed by		 Checked By			 Verified By				

Report No.: ENV/SCL/ML/26-27/SW-05

Order No.: 5300027956

Date : 06/05/2026

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. : SCL/SW-260405/05

Sample Source : Lubha River (Upstream)

Sample Type : Surface Water

Collected On : 05-04-2026

Received On : 08-04-2026

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	6.71	6.5 - 8.5	No Relaxation
5.	Suspended Solids	63	-	-
6.	Total Dissolved Solids, mg/l, Max.	138	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	241	-	-
8.	Dissolved Oxygen, mg/l, Min.	5.8	-	-
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 $\text{CaCO}_3$ ), mg/l, Max.	32	200	600
14.	Calcium (as Ca), mg/l, Max.	15	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 $\text{NH}_3$ ), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as $\text{NH}_3$ ), 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-05

Date : 08/06/2026

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 <sup>3</sup> /s)
1.	Lubha River (Upstream)	14.05.2026	44.8



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Report No.: ENV/SCL/ML/26-27/SW-06

Order No.: 5300027956

Date : 06/05/2026

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. : SCL/SW-260405/06

Sample Source : Lubha River (Downstream)

Sample Type : Surface Water

Collected On : 05-04-2026

Received On : 08-04-2026

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	25.4	-	-
4.	pH Value	6.74	6.5 - 8.5	No Relaxation
5.	Suspended Solids	63	-	-
6.	Total Dissolved Solids, mg/l, Max.	142	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	245	-	-
8.	Dissolved Oxygen, mg/l, Min.	5.9	-	-
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 $\text{CaCO}_3$ ), mg/l, Max.	34	200	600
14.	Calcium (as Ca), mg/l, Max.	16	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 $\text{NH}_3$ ), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as $\text{NH}_3$ ), mg/l, Max.	<0.01	-	-

\*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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Report No.: ENV/SCML/ML/26-27/FR-06

Date : 08/06/2026

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 <sup>3</sup> /s)
1.	Lubha River (Downstream)	14.05.2026	46.1



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Report No.: ENV/SCL/ML/26-27/SW-07

Order No.: 5300027956

Date : 06/05/2026

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. : SCL/SW-260405/07

Sample Source : Lukha River

Sample Type : Surface Water

Collected On : 05-04-2026

Received On : 08-04-2026

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	6.79	6.5 - 8.5	No Relaxation
5.	Suspended Solids	71	-	-
6.	Total Dissolved Solids, mg/l, Max.	156	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	254	-	-
8.	Dissolved Oxygen, mg/l, Min.	5.8	-	-
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 $\text{CaCO}_3$ ), mg/l, Max.	43	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.	0.05	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 $\text{NH}_3$ ), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as $\text{NH}_3$ ), mg/l, Max.	<0.01	-	-

\*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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Report No.: ENV/SCML/ML/26-27/FR-07

Date : 08/06/2026

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 <sup>3</sup> /s)
1.	Lukha River	14.05.2026	51.6



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Report No.: ENV/SCL/ML/26-27/SW-10

Order No.: 5300027956

Date : 06/05/2026

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. : SCL/SW-260405/10

Sample Source : Lumshnong Spring

Sample Type : Surface Water

Collected On : 05-04-2026

Received On : 08-04-2026

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	53	-	-
6.	Total Dissolved Solids, mg/l, Max.	139	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	235	-	-
8.	Dissolved Oxygen, mg/l, Min.	5.7	-	-
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 $\text{CaCO}_3$ ), mg/l, Max.	32	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.	0.05	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 $\text{NH}_3$ ), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as $\text{NH}_3$ ), 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-10

Date : 08/06/2026

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 <sup>3</sup> /s)
1.	Lumshnong Spring	16.05.2026	38.8



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Report No.: ENV/SCML/ML/26-27/SW-01

Order No.: 5300027956

Date : 06/05/2026

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-260405/01

Sample Source : Lunar (Downstream)

Sample Type : Surface Water

Collected On : 05-04-2026

Received On : 08-04-2026

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	25.5	--	--
4.	pH Value	6.72	6.5 - 8.5	No Relaxation
5.	Suspended Solids	41	--	--
6.	Total Dissolved Solids, mg/l, Max.	159	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	265	--	--
8.	Dissolved Oxygen, mg/l, Min.	5.8	--	--
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 $\text{CaCO}_3$ ), mg/l, Max.	51	200	600
14.	Calcium (as Ca), mg/l, Max.	17	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.	1.1	--	--
19.	Total Kjeldahl Nitrogen (as $\text{NH}_3$ ), mg/l, Max.	3.6	--	--
20.	Free Ammonia (as $\text{NH}_3$ ), 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-01

Date : 08/06/2026

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 <sup>3</sup> /s)
1.	Lunar (Downstream)	12.05.2026	43.6



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

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Report No.: ENV/SCML/ML/26-27/SW-02

Order No.: 5300027956

Date : 06/05/2026

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-260405/02

Sample Source : Lunar (Upstream)

Sample Type : Surface Water

Collected On : 05-04-2026

Received On : 08-04-2026

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	6.75	6.5 - 8.5	No Relaxation
5.	Suspended Solids	62	--	--
6.	Total Dissolved Solids, mg/l, Max.	152	500	2000
7.	Conductivity, $\mu$ S/cm	259	--	--
8.	Dissolved Oxygen, mg/l, Min.	5.9	--	--
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 <sub>3</sub> ), mg/l, Max.	58	200	600
14.	Calcium (as Ca), mg/l, Max.	21	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.	1.6	--	--
19.	Total Kjeldahl Nitrogen (as NH <sub>3</sub> ), mg/l, Max.	4.2	--	--
20.	Free Ammonia (as NH <sub>3</sub> ), 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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Report No.: ENV/SCML/ML/26-27/FR-02

Date : 08/06/2026

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 <sup>3</sup> /s)
1.	Lunar (Upstream)	12.05.2026	42.2



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

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Report No.: ENV/SCL/ML/26-27/SW-09

Order No.: 5300027956

Date : 06/05/2026

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. : SCL/SW-260405/09

Sample Source : Tongseng Spring

Sample Type : Surface Water

Collected On : 05-04-2026

Received On : 08-04-2026

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	6.81	6.5 - 8.5	No Relaxation
5.	Suspended Solids	47	-	-
6.	Total Dissolved Solids, mg/l, Max.	126	500	2000
7.	Conductivity, $\mu\text{S/cm}$	213	-	-
8.	Dissolved Oxygen, mg/l, Min.	5.9	-	-
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 $\text{CaCO}_3$ ), mg/l, Max.	28	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.	0.02	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 $\text{NH}_3$ ), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as $\text{NH}_3$ ), 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-09

Date : 08/06/2026

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 <sup>3</sup> /s)
1.	Tongseng Spring	15.05.2026	42.2



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Report No.: ENV/SCL/ML/26-27/SW-08

Order No.: 5300027956

Date : 06/05/2026

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. : SCL/SW-260405/08

Sample Source : Umbadoh Spring

Sample Type : Surface Water

Collected On : 05-04-2026

Received On : 08-04-2026

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	59	-	-
6.	Total Dissolved Solids, mg/l, Max.	132	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	238	-	-
8.	Dissolved Oxygen, mg/l, Min.	5.6	-	-
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 $\text{CaCO}_3$ ), mg/l, Max.	34	200	600
14.	Calcium (as Ca), mg/l, Max.	16	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 $\text{NH}_3$ ), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as $\text{NH}_3$ ), mg/l, Max.	<0.01	-	-

\*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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Report No.: ENV/SCML/ML/26-27/FR-08

Date : 08/06/2026

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 <sup>3</sup> /s)
1.	Umbadoh Spring	15.05.2026	44.8



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Report No.: ENV/SCML/ML/26-27/SW-03

Order No.: 5300027956

Date : 06/05/2026

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-260405/03

Sample Source : Umlong River

Sample Type : Surface Water

Collected On : 05-04-2026

Received On : 08-04-2026

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	25.4	--	--
4.	pH Value	6.81	6.5 - 8.5	No Relaxation
5.	Suspended Solids	71	--	--
6.	Total Dissolved Solids, mg/l, Max.	89	500	2000
7.	Conductivity, $\mu\text{S/cm}$	164	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.2	--	--
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 $\text{CaCO}_3$ ), mg/l, Max.	45	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 $\text{NH}_3$ ), mg/l, Max.	<0.1	--	--
20.	Free Ammonia (as $\text{NH}_3$ ), mg/l, Max.	<0.01	--	--

\*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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Report No.: ENV/SCML/ML/26-27/FR-03

Date : 08/06/2026

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 <sup>3</sup> /s)
1.	Umlong River	13.05.2026	46.7



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Report No.: ENV/SCML/ML/26-27/SW-04

Order No.: 5300027956

Date : 06/05/2026

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-260405/04

Sample Source : Wahiajer Spring

Sample Type : Surface Water

Collected On : 05-04-2026

Received On : 08-04-2026

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	6.78	6.5 - 8.5	No Relaxation
5.	Suspended Solids	48	--	--
6.	Total Dissolved Solids, mg/l, Max.	136	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	254	--	--
8.	Dissolved Oxygen, mg/l, Min.	6.2	--	--
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 $\text{CaCO}_3$ ), mg/l, Max.	29	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.	0.028	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 $\text{NH}_3$ ), mg/l, Max.	<0.1	--	--
20.	Free Ammonia (as $\text{NH}_3$ ), mg/l, Max.	<0.01	--	--

\*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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Report No.: ENV/SCML/ML/26-27/FR-04

Date : 08/06/2026

Order No.: 5300027956

Date : 17/04/2026

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### SURFACE WATER FLOW RESULTS

Sl. No.	Locations	Date of Measurement	Flow Rate (m <sup>3</sup> /s)
1.	Wahiajer Spring	13.05.2026	38.4



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Report No.: ENV/SCI/ML/26-27/SW-16

Order No.: 5300027956

Date : 08/06/2026

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. : SCL/SW-260516/01      Sample Source : 42.051 Ha Brishyrnot Limestone Mine Spring      Sample Type : Surface Water  
Collected On : 16-05-2026      Received On : 19-05-2026      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	25.8	-	-
4.	pH Value	6.82	6.5 - 8.5	No Relaxation
5.	Suspended Solids	43	-	-
6.	Total Dissolved Solids, mg/l, Max.	128	500	2000
7.	Conductivity, $\mu\text{S/cm}$	214	-	-
8.	Dissolved Oxygen, mg/l, Min.	5.6	-	-
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 $\text{CaCO}_3$ ), mg/l, Max.	29	200	600
14.	Calcium (as Ca), mg/l, Max.	12	75	200
15.	Magnesium (as Mg), mg/l, Max.	<1.0	30	100
16.	Iron (as Fe), mg/l, Max.	0.08	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 $\text{NH}_3$ ), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as $\text{NH}_3$ ), 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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Date : 08/06/2026

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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 <sup>3</sup> /s)
1.	42.051 Ha Brishyrnot Limestone Mine Spring	17.05.2026	33.9



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Report No.: ENV/SCML/ML/26-27/GW-10

Date : 08/06/2026

Order No.: 5300027956

Date : 17/04/2026

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

### GROUND WATER ANALYSIS RESULTS

Sample Ref. No. : SCML/GW-260517/10      Sample Source : SCML TPP Switch Yard      Sample Type : Ground Water  
Collected On : 17-05-2026      Received On : 19-05-2026      Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour , Hazen Units, Max	4	5	15
2.	Odour	Odourless	Agreeable	Agreeable
3.	Taste	Acceptable	Agreeable	Agreeable
4.	Turbidity, NTU, Max	0.19	1	5
5.	pH	6.81	6.5 – 8.5	No Relaxation
6.	Total Dissolved Solids, mg/l, Max	134	500	2000
7.	Calcium (as Ca), mg/l, Max	33	75	200
8.	Chloride (as Cl), mg/l, Max	5.3	250	1000
9.	Copper (as Cu), mg/l, Max	<0.001	0.05	1.5
10.	Fluorides (as F), mg/l, Max	<0.1	1.0	1.5
11.	Free Residual Chlorine, mg/l, Min	<0.01	0.2	1
12.	Iron (as Fe), mg/l, Max	0.24	0.3	No Relaxation
13.	Magnesium (as Mg), mg/l, Max	4	30	100
14.	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3
15.	Zinc (as Zn), mg/l, Max	<0.01	5.0	15
16.	Nitrate (as NO <sub>3</sub> ), mg/l, Max	3.7	45	No Relaxation
17.	Sulfate (as SO <sub>4</sub> ), mg/l, Max	<1.0	200	400
18.	Total Alkalinity(as CaCO <sub>3</sub> ), mg/l, Max	68	200	600
19.	Total Hardness (as CaCO <sub>3</sub> ), mg/l, Max	98	200	600
20.	Total Arsenic (as As), mg/l, Max	<0.001	0.01	0.05
21.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
22.	Faecal Coliforms/ 100 ml	Absent	Absent	Absent
23.	E. Coli / 100 ml	Absent	Absent	Absent

\*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/GWL-10

Date : 08/06/2026

Order No.: 5300027956

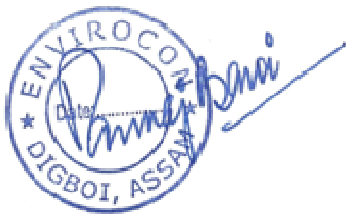
Date : 17/04/2026

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

**GROUND WATER LEVEL MEASUREMENT RESULTS**

Sl. No.	Location(s)	Well Type	Date Of Measurement	Total Depth (m)	M.P. (m)	W.L. (m)
1.	SCML TPP Switch Yard	Bore Well	17.05.2026	200	102	98

M. P.: Measuring Point, W. L.: Water Level



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

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Report No.: ENV/SCML/ML/26-27/GW-01

Date : 08/06/2026

Order No.: 5300027956

Date : 17/04/2026

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

### GROUND WATER ANALYSIS RESULTS

Sample Ref. No. : SCML/GW-260517/01

Sample Source : JUD Main Gate Opposite Side

Sample Type : Ground Water

Collected On : 17-05-2026

Received On : 19-05-2026

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max	5	5	15
2.	Odour	Odourless	Agreeable	Agreeable
3.	Taste	Acceptable	Agreeable	Agreeable
4.	Turbidity, NTU, Max	0.19	1	5
5.	pH	6.78	6.5 – 8.5	No Relaxation
6.	Total Dissolved Solids, mg/l, Max	143	500	2000
7.	Calcium (as Ca), mg/l, Max	28	75	200
8.	Chloride (as Cl), mg/l, Max	5.5	250	1000
9.	Copper (as Cu), mg/l, Max	<0.001	0.05	1.5
10.	Fluorides (as F), mg/l, Max	<0.1	1.0	1.5
11.	Free Residual Chlorine, mg/l, Min	<0.01	0.2	1
12.	Iron (as Fe), mg/l, Max	0.25	0.3	No Relaxation
13.	Magnesium (as Mg), mg/l, Max	3	30	100
14.	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3
15.	Zinc (as Zn), mg/l, Max	<0.01	5.0	15
16.	Nitrate (as NO <sub>3</sub> ), mg/l, Max	4.1	45	No Relaxation
17.	Sulfate (as SO <sub>4</sub> ), mg/l, Max	<1.0	200	400
18.	Total Alkalinity(as CaCO <sub>3</sub> ), mg/l, Max	68	200	600
19.	Total Hardness (as CaCO <sub>3</sub> ), mg/l, Max	84	200	600
20.	Total Arsenic (as As), mg/l, Max	<0.001	0.01	0.05
21.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
22.	Faecal Coliforms/ 100 ml	Absent	Absent	Absent
23.	E. Coli / 100 ml	Absent	Absent	Absent

\*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/GWL-01

Order No.: 5300027956

Date : 08/06/2026

Date : 17/04/2026

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

**GROUND WATER LEVEL MEASUREMENT RESULTS**

Sl. No.	Location(s)	Well Type	Date Of Measurement	Total Depth (m)	M.P. (m)	W.L. (m)
1.	JUD Main Gate Opposite Side	Bore Well	17.05.2026	189	115	74

M. P.: Measuring Point, W. L.: Water Level



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

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Report No.: ENV/SCML/ML/26-27/GW-02

Date : 08/06/2026

Order No.: 5300027956

Date : 17/04/2026

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

### GROUND WATER ANALYSIS RESULTS

Sample Ref. No. : SCML/GW-260517/02

Sample Source : Umbadoh Village

Sample Type : Ground Water

Collected On : 17-05-2026

Received On : 19-05-2026

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max	5	5	15
2.	Odour	Odourless	Agreeable	Agreeable
3.	Taste	Acceptable	Agreeable	Agreeable
4.	Turbidity, NTU, Max	0.19	1	5
5.	pH	6.79	6.5 – 8.5	No Relaxation
6.	Total Dissolved Solids, mg/l, Max	135	500	2000
7.	Calcium (as Ca), mg/l, Max	28	75	200
8.	Chloride (as Cl), mg/l, Max	6.1	250	1000
9.	Copper (as Cu), mg/l, Max	<0.001	0.05	1.5
10.	Fluorides (as F), mg/l, Max	<0.1	1.0	1.5
11.	Free Residual Chlorine, mg/l, Min	<0.01	0.2	1
12.	Iron (as Fe), mg/l, Max	0.22	0.3	No Relaxation
13.	Magnesium (as Mg), mg/l, Max	5	30	100
14.	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3
15.	Zinc (as Zn), mg/l, Max	<0.01	5.0	15
16.	Nitrate (as NO <sub>3</sub> ), mg/l, Max	5.6	45	No Relaxation
17.	Sulfate (as SO <sub>4</sub> ), mg/l, Max	<1.0	200	400
18.	Total Alkalinity(as CaCO <sub>3</sub> ), mg/l, Max	63	200	600
19.	Total Hardness (as CaCO <sub>3</sub> ), mg/l, Max	88	200	600
20.	Total Arsenic (as As), mg/l, Max	<0.001	0.01	0.05
21.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
22.	Faecal Coliforms/ 100 ml	Absent	Absent	Absent
23.	E. Coli / 100 ml	Absent	Absent	Absent

\*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/GWL-02

Date : 08/06/2026

Order No.: 5300027956

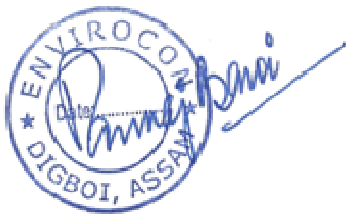
Date : 17/04/2026

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

### GROUND WATER LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Well Type	Date Of Measurement	Total Depth (m)	M.P. (m)	W.L. (m)
1.	Umbadoh Village	Bore Well	17.05.2026	195	113	82

M. P.: Measuring Point, W. L.: Water Level



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

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Report No.: ENV/SCML/ML/26-27/GW-03

Date : 08/06/2026

Order No.: 5300027956

Date : 17/04/2026

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

### GROUND WATER ANALYSIS RESULTS

Sample Ref. No. : SCML/GW-260517/03

Sample Source : Near P. H. E.

Sample Type : Ground Water

Collected On : 17-05-2026

Received On : 19-05-2026

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max	4	5	15
2.	Odour	Odourless	Agreeable	Agreeable
3.	Taste	Acceptable	Agreeable	Agreeable
4.	Turbidity, NTU, Max	0.27	1	5
5.	pH	6.78	6.5 – 8.5	No Relaxation
6.	Total Dissolved Solids, mg/l, Max	99	500	2000
7.	Calcium (as Ca), mg/l, Max	31	75	200
8.	Chloride (as Cl), mg/l, Max	4.6	250	1000
9.	Copper (as Cu), mg/l, Max	<0.001	0.05	1.5
10.	Fluorides (as F), mg/l, Max	<0.1	1.0	1.5
11.	Free Residual Chlorine, mg/l, Min	<0.01	0.2	1
12.	Iron (as Fe), mg/l, Max	0.27	0.3	No Relaxation
13.	Magnesium (as Mg), mg/l, Max	5	30	100
14.	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3
15.	Zinc (as Zn), mg/l, Max	<0.01	5.0	15
16.	Nitrate (as NO <sub>3</sub> ), mg/l, Max	4.1	45	No Relaxation
17.	Sulfate (as SO <sub>4</sub> ), mg/l, Max	<1.0	200	400
18.	Total Alkalinity(as CaCO <sub>3</sub> ), mg/l, Max	74	200	600
19.	Total Hardness (as CaCO <sub>3</sub> ), mg/l, Max	101	200	600
20.	Total Arsenic (as As), mg/l, Max	<0.001	0.01	0.05
21.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
22.	Faecal Coliforms/ 100 ml	Absent	Absent	Absent
23.	E. Coli / 100 ml	Absent	Absent	Absent

\*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/GWL-03

Date : 08/06/2026

Order No.: 5300027956

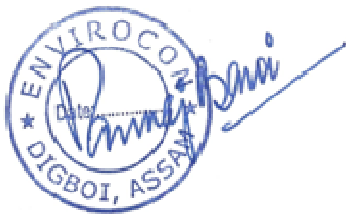
Date : 17/04/2026

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

**GROUND WATER LEVEL MEASUREMENT RESULTS**

Sl. No.	Location(s)	Well Type	Date Of Measurement	Total Depth (m)	M.P. (m)	W.L. (m)
1.	Near P. H. E.	Bore Well	17.05.2026	189	115	74

M. P.: Measuring Point, W. L.: Water Level



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

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Report No.: ENV/SCML/ML/26-27/GW-04

Date : 08/06/2026

Order No.: 5300027956

Date : 17/04/2026

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

### GROUND WATER ANALYSIS RESULTS

Sample Ref. No. : SCML/GW-260517/04

Sample Source : Lumshnong Village

Sample Type : Ground Water

Collected On : 17-05-2026

Received On : 19-05-2026

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max	6	5	15
2.	Odour	Odourless	Agreeable	Agreeable
3.	Taste	Acceptable	Agreeable	Agreeable
4.	Turbidity, NTU, Max	0.24	1	5
5.	pH	6.82	6.5 – 8.5	No Relaxation
6.	Total Dissolved Solids, mg/l, Max	83	500	2000
7.	Calcium (as Ca), mg/l, Max	25	75	200
8.	Chloride (as Cl), mg/l, Max	6.2	250	1000
9.	Copper (as Cu), mg/l, Max	<0.001	0.05	1.5
10.	Fluorides (as F), mg/l, Max	<0.1	1.0	1.5
11.	Free Residual Chlorine, mg/l, Min	<0.01	0.2	1
12.	Iron (as Fe), mg/l, Max	0.26	0.3	No Relaxation
13.	Magnesium (as Mg), mg/l, Max	5	30	100
14.	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3
15.	Zinc (as Zn), mg/l, Max	<0.01	5.0	15
16.	Nitrate (as NO <sub>3</sub> ), mg/l, Max	2.9	45	No Relaxation
17.	Sulfate (as SO <sub>4</sub> ), mg/l, Max	<1.0	200	400
18.	Total Alkalinity(as CaCO <sub>3</sub> ), mg/l, Max	79	200	600
19.	Total Hardness (as CaCO <sub>3</sub> ), mg/l, Max	86	200	600
20.	Total Arsenic (as As), mg/l, Max	<0.001	0.01	0.05
21.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
22.	Faecal Coliforms/ 100 ml	Absent	Absent	Absent
23.	E. Coli / 100 ml	Absent	Absent	Absent

\*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/GWL-04

Date : 08/06/2026

Order No.: 5300027956

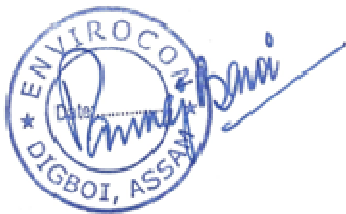
Date : 17/04/2026

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

**GROUND WATER LEVEL MEASUREMENT RESULTS**

Sl. No.	Location(s)	Well Type	Date Of Measurement	Total Depth (m)	M.P. (m)	W.L. (m)
1.	Lumshnong Village	Bore Well	17.05.2026	192	118	74

M. P.: Measuring Point, W. L.: Water Level



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

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Report No.: ENV/SCML/ML/26-27/GW-05

Date : 08/06/2026

Order No.: 5300027956

Date : 17/04/2026

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

### GROUND WATER ANALYSIS RESULTS

Sample Ref. No. : SCML/GW-260517/05

Sample Source : Brishyrot Village

Sample Type : Ground Water

Collected On : 17-05-2026

Received On : 19-05-2026

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max	5	5	15
2.	Odour	Odourless	Agreeable	Agreeable
3.	Taste	Acceptable	Agreeable	Agreeable
4.	Turbidity, NTU, Max	0.23	1	5
5.	pH	6.76	6.5 – 8.5	No Relaxation
6.	Total Dissolved Solids, mg/l, Max	83	500	2000
7.	Calcium (as Ca), mg/l, Max	32	75	200
8.	Chloride (as Cl), mg/l, Max	5.4	250	1000
9.	Copper (as Cu), mg/l, Max	<0.001	0.05	1.5
10.	Fluorides (as F), mg/l, Max	<0.1	1.0	1.5
11.	Free Residual Chlorine, mg/l, Min	<0.01	0.2	1
12.	Iron (as Fe), mg/l, Max	0.24	0.3	No Relaxation
13.	Magnesium (as Mg), mg/l, Max	6	30	100
14.	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3
15.	Zinc (as Zn), mg/l, Max	<0.01	5.0	15
16.	Nitrate (as NO <sub>3</sub> ), mg/l, Max	2.7	45	No Relaxation
17.	Sulfate (as SO <sub>4</sub> ), mg/l, Max	<1.0	200	400
18.	Total Alkalinity(as CaCO <sub>3</sub> ), mg/l, Max	106	200	600
19.	Total Hardness (as CaCO <sub>3</sub> ), mg/l, Max	93	200	600
20.	Total Arsenic (as As), mg/l, Max	<0.001	0.01	0.05
21.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
22.	Faecal Coliforms/ 100 ml	Absent	Absent	Absent
23.	E. Coli / 100 ml	Absent	Absent	Absent

\*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/GWL-05

Date : 08/06/2026

Order No.: 5300027956

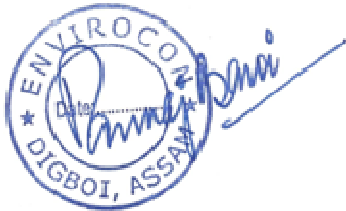
Date : 17/04/2026

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

### GROUND WATER LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Well Type	Date Of Measurement	Total Depth (m)	M.P. (m)	W.L. (m)
1.	Brishyrnot Village	Bore Well	17.05.2026	178	101	77

M. P.: Measuring Point, W. L.: Water Level



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

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Report No.: ENV/SCML/ML/26-27/GW-06

Date : 08/06/2026

Order No.: 5300027956

Date : 17/04/2026

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

### GROUND WATER ANALYSIS RESULTS

Sample Ref. No. : SCML/GW-260517/06    Sample Source : Near Dalmia Cement Petrol Pump    Sample Type : Ground Water  
Collected On : 17-05-2026    Received On : 19-05-2026    Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max	6	5	15
2.	Odour	Odourless	Agreeable	Agreeable
3.	Taste	Acceptable	Agreeable	Agreeable
4.	Turbidity, NTU, Max	0.27	1	5
5.	pH	6.79	6.5 – 8.5	No Relaxation
6.	Total Dissolved Solids, mg/l, Max	104	500	2000
7.	Calcium (as Ca), mg/l, Max	26	75	200
8.	Chloride (as Cl), mg/l, Max	5.8	250	1000
9.	Copper (as Cu), mg/l, Max	<0.001	0.05	1.5
10.	Fluorides (as F), mg/l, Max	<0.1	1.0	1.5
11.	Free Residual Chlorine, mg/l, Min	<0.01	0.2	1
12.	Iron (as Fe), mg/l, Max	0.23	0.3	No Relaxation
13.	Magnesium (as Mg), mg/l, Max	4	30	100
14.	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3
15.	Zinc (as Zn), mg/l, Max	<0.01	5.0	15
16.	Nitrate (as NO <sub>3</sub> ), mg/l, Max	5.6	45	No Relaxation
17.	Sulfate (as SO <sub>4</sub> ), mg/l, Max	<1.0	200	400
18.	Total Alkalinity(as CaCO <sub>3</sub> ), mg/l, Max	88	200	600
19.	Total Hardness (as CaCO <sub>3</sub> ), mg/l, Max	84	200	600
20.	Total Arsenic (as As), mg/l, Max	<0.001	0.01	0.05
21.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
22.	Faecal Coliforms/ 100 ml	Absent	Absent	Absent
23.	E. Coli / 100 ml	Absent	Absent	Absent

\*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/GWL-06

Date : 08/06/2026

Order No.: 5300027956

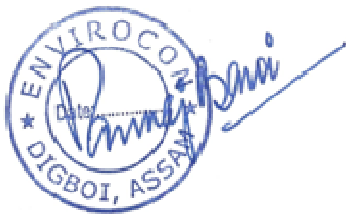
Date : 17/04/2026

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

**GROUND WATER LEVEL MEASUREMENT RESULTS**

Sl. No.	Location(s)	Well Type	Date Of Measurement	Total Depth (m)	M.P. (m)	W.L. (m)
1.	Near Dalmia Cement Petrol Pump	Bore Well	17.05.2026	196	111	85

M. P.: Measuring Point, W. L.: Water Level



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

**NOTE:**

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**Core Services:** Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs  
**Associate Services:** Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No.: ENV/SCML/ML/26-27/WW-07

Date : 08/06/2026

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-260516/01

Sample Source : ETP 20 KL Outlet (SCML)

Sample Type : ETP Treated Water

Collected On : 16-05-2026

Received On : 19-05-2026

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	25.8	°C	Shall not exceed 5°C above the receiving water temperature
3.	Bio-chemical Oxygen Demand (3 days at 27°C)	18	mg/l	30
4.	Chemical Oxygen Demand	63	mg/l	250
5.	Total Suspended Solids	12	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)	3.6	mg/l	50
9.	Total Kjeldahl Nitrogen (as NH <sub>3</sub> )	14	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-08

Date : 08/06/2026

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-260516/02

Sample Source : ETP 20 KL Inlet (SCML)

Sample Type : ETP Treated Water

Collected On : 16-05-2026

Received On : 19-05-2026

Collected By : ENVIROCON Representative

S. No.	Parameters	Results	Units	Limits [G.S.R. 422(E), 19.05.1993]
1.	pH	6.63	--	5.5 – 9.0
2.	Temperature	25.8	°C	Shall not exceed 5°C above the receiving water temperature
3.	Bio-chemical Oxygen Demand (3 days at 27°C)	46	mg/l	30
4.	Chemical Oxygen Demand	458	mg/l	250
5.	Total Suspended Solids	231	mg/l	100
6.	Oil & Grease	7.6	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 <sub>3</sub> )	59	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-09

Date : 08/06/2026

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-260516/03      Sample Source : STP Inlet (SCML)      Sample Type : STP Un-treated Water  
Collected On : 16-05-2026      Received On : 19-05-2026      Collected By : ENVIROCON Representative

S. No.	Parameters	Results	Units	Limits [G.S.R. 422(E), 19.05.1993]
1.	pH	7.68	--	5.5 – 9.0
2.	Temperature	25.8	°C	Shall not exceed 5°C above the receiving water temperature
3.	Bio-chemical Oxygen Demand (3 days at 27°C)	58	mg/l	30
4.	Chemical Oxygen Demand	389	mg/l	250
5.	Total Suspended Solids	266	mg/l	100
6.	Oil & Grease	8.3	mg/l	10
7.	Total Residual Chlorine	0.29	mg/l	1.0
8.	Ammonical Nitrogen (as N)	41	mg/l	50
9.	Total Kjeldahl Nitrogen (as NH <sub>3</sub> )	78	mg/l	100
10.	Free Ammonia	0.29	mg/l	5.0



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

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Report No.: ENV/SCML/ML/26-27/WW-10

Date : 08/06/2026

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-260516/04      Sample Source : STP Outlet (SCML)      Sample Type : STP Treated Water  
Collected On : 16-05-2026      Received On : 19-05-2026      Collected By : ENVIROCON Representative

S. No.	Parameters	Results	Units	Limits [G.S.R. 422(E), 19.05.1993]
1.	pH	7.12	--	5.5 – 9.0
2.	Temperature	25.8	°C	Shall not exceed 5°C above the receiving water temperature
3.	Bio-chemical Oxygen Demand (3 days at 27°C)	22	mg/l	30
4.	Chemical Oxygen Demand	125	mg/l	250
5.	Total Suspended Solids	29	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)	14	mg/l	50
9.	Total Kjeldahl Nitrogen (as NH <sub>3</sub> )	34	mg/l	100
10.	Free Ammonia	0.06	mg/l	5.0



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

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

Date : 08/06/2026

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-260516/05

Sample Source : Coal Neutralization Pit (SCML)

Sample Type : Waste Water (Un-treated)

Collected On : 16-05-2026

Received On : 19-05-2026

Collected By : ENVIROCON Representative

S. No.	Parameters	Results	Units	Limits [G.S.R. 422(E), 19.05.1993]
1.	pH	6.13	--	5.5 – 9.0
2.	Temperature	25.7	°C	Shall not exceed 5°C above the receiving water temperature
3.	Bio-chemical Oxygen Demand (3 days at 27°C)	8	mg/l	30
4.	Chemical Oxygen Demand	91	mg/l	250
5.	Total Suspended Solids	142	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)	21	mg/l	50
9.	Total Kjeldahl Nitrogen (as NH <sub>3</sub> )	78	mg/l	100
10.	Free Ammonia	0.33	mg/l	5.0



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

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Report No.: ENV/SCML/ML/26-27/WW-12

Date : 08/06/2026

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-260516/06

Sample Source : Coal Neutralization Pit (SCML)

Sample Type : Waste Water (Treated)

Collected On : 16-05-2026

Received On : 19-05-2026

Collected By : ENVIROCON Representative

S. No.	Parameters	Results	Units	Limits [G.S.R. 422(E), 19.05.1993]
1.	pH	6.72	--	5.5 – 9.0
2.	Temperature	25.8	°C	Shall not exceed 5°C above the receiving water temperature
3.	Bio-chemical Oxygen Demand (3 days at 27°C)	5	mg/l	30
4.	Chemical Oxygen Demand	46	mg/l	250
5.	Total Suspended Solids	51	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)	14	mg/l	50
9.	Total Kjeldahl Nitrogen (as NH <sub>3</sub> )	45	mg/l	100
10.	Free Ammonia	0.09	mg/l	5.0



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

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