

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/2026-27/09

Dated: 07/05/2026

To,

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

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

Reference : MPCB/ONLINE/RCTO(R-I)/EJHD/2021/2023-2024/30, Dtd: Shillong, the 27th September, 2023.

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, Fugitive Emission, Noise & Surface water monitoring reports of **Brishyrnot Limestone Mine -I (MLA 42.051 Ha) of Star Cement Meghalaya Limited** for the month of **April, 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



STAR CEMENT MEGHALAYA LIMITED

Lumshnong, Meghalaya

Date (DD-MM-YYYY)	Pressure (mmHg)	Relative Humidity (%)	Temp. (C)	Manual Rain (mm)
01-04-2026	1003.0	84.4	24.2	7.6
02-04-2026	1001.8	90.9	23.9	40.8
03-04-2026	1002.4	85.4	26.8	0.0
04-04-2026	999.1	90.5	23.9	0.5
05-04-2026	1001.1	90.0	23.4	8.6
06-04-2026	998.1	88.2	21.2	0.0
07-04-2026	1004.7	83.3	21.2	4.4
08-04-2026	1001.2	81.7	20.5	0.0
09-04-2026	995.1	82.3	21.3	10.3
10-04-2026	1002.9	83.6	21.1	38.1
11-04-2026	999.4	83.6	19.4	0.0
12-04-2026	1003.5	79.1	24.8	11.9
13-04-2026	1000.2	96.4	20.8	29.5
14-04-2026	1005.4	87.7	23.2	18.6
15-04-2026	1003.5	84.5	25.0	20.5
16-04-2026	1011.8	79.4	25.8	5.3
17-04-2026	989.3	86.6	24.3	0.0
18-04-2026	1000.9	82.7	25.8	0.0
19-04-2026	1003.8	83.3	26.0	13.2
20-04-2026	1009.2	96.3	23.3	117.6
21-04-2026	1004.9	91.4	23.7	95.0
22-04-2026	1008.0	87.2	26.1	102.2
23-04-2026	997.5	87.8	24.2	0.0
24-04-2026	985.3	89.2	24.9	0.0
25-04-2026	996.4	76.1	27.2	0.0
26-04-2026	1002.9	86.2	22.8	6.4
27-04-2026	1000.7	94.4	19.9	34.0
28-04-2026	997.0	90.6	21.8	9.6
29-04-2026	996.2	94.6	20.5	9.8
30-04-2026	986.3	94.5	19.9	3.0
			Total	586.9



STAR CEMENT MEGHALAYA LIMITED
Brishyrnot Limestone Mine - I (MLA 42.051 Ha)
Lumshnong, Meghalaya

AMBIENT AIR QUALITY MONITORING REPORT

Reference No.	SCML/Env/F - 01
Issue No.	1
Date of Issue:	24.08.2013
Revision No.	5
Date of Rev.	01.12.2020

Reference No.: SCML/ENV/AAQM/MONTHLY/2026-27/01 Month :April'26

Location of Sampling: Near Boundary Pillar no. 07 GPS Coordinate: 25°10'27.28"N 92°25'21.48"E

Sampling Duration:	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.
Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
04-04-2026	40.25	20.89	16.07	11.63
27-04-2026	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

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Checked By

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Verified By



STAR CEMENT MEGHALAYA LIMITED
Brishyrnot Limestone Mine - I (MLA 42.051 Ha)
Lumshnong, Meghalaya

Reference No.	SCML/Env/F - 01
Issue No.	1
Date of Issue:	24.08.2013
Revision No.	5
Date of Rev.	01.12.2020

AMBIENT AIR QUALITY MONITORING REPORT





Reference No.: SCML/ENV/AAQM/MONTHLY/2026-27/01		Month :April'26		
Location of Sampling: Near Boundary Pillar no.18		GPS Coordinate: 25°10'18.01" N 92°25'32.35"E		
Sampling Duration:	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.
Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
04-04-2026	37.56	18.79	14.51	11.27
27-04-2026	Rainfall	Rainfall	Rainfall	Rainfall
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)

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

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	STAR CEMENT MEGHALAYA LIMITED Brishyrnot Limestone Mine - I (MLA 42.051 Ha) 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/2026-27/01				Month :April'26	
Location of Sampling: Between Boundary Pillar no.27 & 28				GPS Coordinate: 25°10'17.95"N 92°25'02.643"E	
Sampling Duration:	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.
Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	
04-04-2026	39.22	18.64	14.51	12.45	
27-04-2026	Rainfall	Rainfall	Rainfall	Rainfall	
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)	
Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.					
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STAR CEMENT MEGHALAYA LIMITED
Brishyrnot Limestone Mine - I (MLA 42.051 Ha)
Lumshnong, Meghalaya

AMBIENT AIR QUALITY MONITORING REPORT

Reference No.	SCML/Env/F - 01
Issue No.	1
Date of Issue:	24.08.2013
Revision No.	5
Date of Rev.	01.12.2020

Reference No.: SCML/ENV/AAQM/MONTHLY/2026-27/01 Month :April'26

Location of Sampling: Star Public School GPS Coordinate: 25°10'27.46"N 92°23.8'65"E

Sampling Duration:	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.
Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
03-04-2026	32.07	16.53	12.06	11.76
09-04-2026	Rainfall	Rainfall	Rainfall	Rainfall
11-04-2026	35.07	18.56	11.74	11.67
14-04-2026	Rainfall	Rainfall	Rainfall	Rainfall
17-04-2026	33.67	15.42	11.30	11.22
21-04-2026	Rainfall	Rainfall	Rainfall	Rainfall
25-04-2026	30.45	14.37	12.74	10.69
29-04-2026	28.41	15.92	11.46	10.50
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.

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STAR CEMENT MEGHALAYA LIMITED
Lumshnong, Meghalaya

Reference No.	SCML/Env/F – 07 (a)
Issue No.	1
Date of Issue:	01.12.2018
Revision No.	2
Date of Rev.	01.12.2020

FUGITIVE EMISSION REPORT

Ref: SCML/ENV/FUGITIVE/MONTHLY/2026-27/01

Brishyrnot Limestone Mine - I (MLA 42.051 Ha)

Month - April'26

Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline
		(in $\mu\text{g}/\text{m}^3$)	Limit
27.04.2026	Near Drilling Point	1141	5000
27.04.2026	Near Lime Stone loading area	1025	5000

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STAR CEMENT MEGHALAYA LIMITED
(42.051 Ha.)
Lumshnong, Meghalaya

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

NOISE LEVEL MONITORING REPORT

Ref: SCML(LM)/ENV/NOISE/MONTHLY/2026-27/01

Date:-27.04.2026

Brishyrnot Limestone Mine - I (MLA 42.051 Ha.)


Month -April'26

S. No.	Location	Measured Values dB(A) Day time (6:00am to 10:00pm)			Norms In dB(A)
		Min.	Max.	Avg.	
1	Excavator				75
	A) Operator Cabin (Door Open)				
	a) At Low engine RPM	58.9	69.8	64.4	
	b) At High engine RPM	67.0	72.4	69.7	
	B) Operator Cabin(Door Close)				
	a) At Low engine RPM	56.8	66.3	61.6	
	b) At High engine RPM	64.9	68.7	66.8	
	C) Periphery of the Engine				
	a) At 1 mtr. Distance(At low RPM)	61.9	66.3	64.1	
	b) At 1 mtr. Distance (At high RPM)	67.6	72.0	69.8	
	c) At 5 mtr. Distance (At low RPM)	60.8	64.6	62.7	
	d) At 5 mtr. Distance (At high RPM)	64.8	68.6	66.7	
	D) Behind the Engine				
	a) At 1 mtr. Distance(At low RPM)	60.0	67.3	63.7	
b) At 1 mtr. Distance (At high RPM)	66.9	70.0	68.5		
c) At 5 mtr. Distance (At low RPM)	57.5	65.3	61.4		
d) At 5 mtr. Distance (At high RPM)	64.8	66.9	65.9		
2	Rock Breaker				75
	A) Operator Cabin				
	a) At Low engine RPM	64.5	67.4	66.0	
	b) At High engine RPM	67.2	70.7	69.0	
	B) Rock Breaker Point (At 5 mtr. Distance)				
	a) Left Side	64.9	66.7	65.8	
	b) Right Side	65.2	66.3	65.8	
c) Front Side	64.6	66.6	65.6		

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	STAR CEMENT MEGHALAYA LIMITED (42.051 Ha.) Lumshnong, Meghalaya	Document No.	SCML/EHS/Env/F-03
		Effective Date	01-05-2019
	NOISE LEVEL MONITORING REPORT	Revision No.	04
		Revision Date	01-01-2021


Ref: SCML(LM)/ENV/NOISE/MONTHLY/2026-27/01

Date:-27.04.2026

Brishyrnot Limestone Mine - I (MLA 42.051 Ha.)

Month -April'26

S. No.	Location	Measured Values dB(A) Day time (6:00am to 10:00pm)			Norms In dB(A)
		Min.	Max.	Avg.	
3	Drill Machine				75
	A) Compressor				
	a) At 1 mtr. Distance	66.8	69.4	68.1	
	b) At 5 mtr. Distance	65.5	68.4	67.0	
	B) Drilling Point (At 5 mtr. Distance)				
	a) Left Side	66.5	70.0	68.3	
	b) Right Side	64.1	69.3	66.7	
4	c) Front Side	65.8	69.4	67.6	75
	Dozer				
	A) Operator Cabin				
	a) At Low engine RPM	59.6	65.3	62.5	
	b) At High engine RPM	68.9	70.2	69.6	
	B) Periphery of the Engine				
	a) At 1 mtr. Distance(At low RPM)	65.6	69.7	67.7	
	b) At 1 mtr. Distance (At high RPM)	69.4	71.1	70.3	
	c) At 5 mtr. Distance (At low RPM)	64.5	68.3	66.4	
	d) At 5 mtr. Distance (At high RPM)	66.6	69.2	67.9	
	c) Behind the Engine				
a) At 1 mtr. Distance(At low RPM)	61.0	70.4	65.7		
b) At 1 mtr. Distance (At high RPM)	65.4	71.5	68.5		
c) At 5 mtr. Distance (At low RPM)	59.5	68.5	64.0		
d) At 5 mtr. Distance (At high RPM)	63.8	70.0	66.9		
5	Dumper				
	A) Empty Dumper				
	a) Open Window	66.5	68.5	67.5	
	b) Close Window	59.6	64.2	61.9	
	B) Loaded Dumper				
	a) Open Window	64.6	69.7	67.2	
b) Close Window	60.8	64.8	62.8		


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STAR CEMENT MEGHALAYA LIMITED

Lumshnong, Meghalaya

Brishyrnot Limestone Mine - I (MLA 42.051 Ha.)

WATER TESTING REPORT- April'26

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

Reference No.: SCML/ENV/WATER/MONTHLY/2026-27/01

Surface Water Analysis Results

Date of sample collection: 01.04.2026

Date of Analysis: 01.04.2026 to 11.04.2026

S.No.	Parameter	Unit	Umtyrgai Nallah		Umutha Nallah		Umso Nalah	Seshympa	Lunar	Lukha	Umbadoh	Tongseng	Lumshnong	Wahiajer	Standards norms as per IS 2296
			Up Stream	Down Stream	Up Stream	Down Stream	Down Stream								
1	pH	-	6.8	6.9	7.1	6.9	7.3	7.2	7.3	7.2	7.5	7.6	7.2	7.3	6.5 - 8.5
2	Colour	Hazen	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	Yellowish	10
3	Odour	-	Unobjectionable												
4	Chloride	mg/L	19.2	20.5	19.9	22.0	20.7	19.6	20.9	20.5	20.9	22.4	22.8	21.6	250
5	Total Hardness as CaCO ₃	mg/L	174.2	182.9	131.3	148.6	142.1	125.2	140.5	134.8	139.2	132.6	138.4	164.2	300
6	Suspended Solids	mg/L	61.8	64.2	62.8	64.8	62.7	56.8	62.6	68.7	58.9	56.2	64.8	59.1	-
7	Total Dissolve Solids	mg/L	227.5	235.1	228.6	247.2	243.9	211.3	220.8	195.6	204.8	186.2	213.5	199.6	500
8	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0
9	Oil & Grease	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-
10	Temperature	° C	23.5	23.7	24.1	23.9	24.5	26.7	25.8	26.2	24.4	23.9	24.7	23.8	-
11	Conductivity	µS/cm	237.5	231.5	234.2	201.5	224.3	202.5	232.9	218.6	199.5	226.2	232.8	211.4	-
12	Flow	L / Min	435.9	711.3	435.2	601.5	401.8	12955.2	5896.2	100568.4	879.6	574.5	986.4	743.1	-

Shailendra Kumar
Analyzed by

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Report No.: ENV/SCL/ML/26-27/SW-12

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-260405/12 Sample Source : 42.051 Ha Brishyrnot Limestone Mine
Seasonal Nala 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.	15	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.4	-	-
4.	pH Value	6.76	6.5 - 8.5	No Relaxation
5.	Suspended Solids	53	-	-
6.	Total Dissolved Solids, mg/l, Max.	122	500	2000
7.	Conductivity, μ S/cm	205	-	-
8.	Dissolved Oxygen, mg/l, Min.	5.9	-	-
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.	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 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

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.

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/SCL/ML/26-27/SW-13

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-260405/13 Sample Source : 42.051 Ha Brishyrnot Limestone Mine 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.	10	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.5	-	-
4.	pH Value	6.76	6.5 - 8.5	No Relaxation
5.	Suspended Solids	38	-	-
6.	Total Dissolved Solids, mg/l, Max.	116	500	2000
7.	Conductivity, µS/cm	186	-	-
8.	Dissolved Oxygen, mg/l, Min.	5.8	-	-
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.	25	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.	0.04	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



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.: 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 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 NH_3), mg/l, Max.	3.6	--	--
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/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, $\mu\text{S}/\text{cm}$	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_3), 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_3), mg/l, Max.	4.2	--	--
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/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, $\mu\text{S}/\text{cm}$	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 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 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/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 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 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



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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 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 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/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, $\mu\text{S/cm}$	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 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 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



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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 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 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/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 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 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



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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, $\mu\text{S}/\text{cm}$	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 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 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



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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 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 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



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