

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/2026-27/42

Dated: 14/09/2026

To,

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

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

Reference : MPCB/ONLINE/RCTO(R-2)EJHD/2021/2026-2027/21, Dtd: Shillong, the 24th July, 2026.

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 quality monitoring reports of **Brishyrrnot Limestone Mine-I (MLA 42.051 Ha)** of **Star Cement Meghalaya Limited** for the month of **August, 2026**.

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

Thanking You,

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


 **Lokesh Kumar Bahety**
Unit Head



Enclosed: a/a



STAR CEMENT MEGHALAYA LIMITED

Lumshnong, Meghalaya

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

	STAR CEMENT MEGHALAYA LIMITED Brishynrot 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/2026-27/05			Month : August'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)
14-08-2026	42.86	21.65	18.22	11.96
29-08-2026	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.				
 Analysed by		 Checked By		 Verified By

	STAR CEMENT MEGHALAYA LIMITED Brishyrrnot 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
	AMBIENT AIR QUALITY MONITORING REPORT		Date of Rev.	01.12.2020
Reference No.: SCML/ENV/AAQM/MONTHLY/2026-27/05				
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)
14-08-2026	41.57	20.96	17.45	13.22
29-08-2026	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.				
 Analysed by		 Checked By		 Verified By

	STAR CEMENT MEGHALAYA LIMITED Brishyrrnot Limestone Mine - I (MLA 42.051 Ha) Lumshnong, Meghalaya			Reference No.	SCML/Env/F – 01
				Issue No.	1
	AMBIENT AIR QUALITY MONITORING REPORT			Date of Issue:	24.08.2013
				Revision No.	5
				Date of Rev.	01.12.2020
Reference No.: SCML/ENV/AAQM/MONTHLY/2026-27/05				Month : August'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/m³)	PM _{2.5} (µg/m³)	SO ₂ (µg/m³)	NO ₂ (µg/m³)	
14-08-2026	35.95	19.62	15.41	11.82	
29-08-2026	Rainfall	Rainfall	Rainfall	Rainfall	
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m³)	60 (µg/m³)	80 (µg/m³)	80 (µg/m³)	
Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.					
 Analysed by  Checked By  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
	AMBIENT AIR QUALITY MONITORING REPORT		Date of Rev.	01.12.2020
Reference No.: SCML/ENV/AAQM/MONTHLY/2026-27/05			Month : August'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/m³)	PM _{2.5} (µg/m³)	SO ₂ (µg/m³)	NO ₂ (µg/m³)
01-08-2026	Rainfall	Rainfall	Rainfall	Rainfall
05-08-2026	Rainfall	Rainfall	Rainfall	Rainfall
11-08-2026	Rainfall	Rainfall	Rainfall	Rainfall
13-08-2026	39.77	20.17	14.08	10.54
17-08-2026	Rainfall	Rainfall	Rainfall	Rainfall
21-08-2026	40.41	21.89	12.74	10.15
24-08-2026	37.55	21.00	15.33	11.60
28-08-2026	Rainfall	Rainfall	Rainfall	Rainfall
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m³)	60 (µg/m³)	80 (µg/m³)	80 (µg/m³)
Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.				
 Analysed by		 Checked by		 Verified By

	STAR CEMENT MEGHALAYA LIMITED Lumshnong, Meghalaya		Reference No.	SCML/Env/F – 07 (a)
			Issue No.	1
			Date of Issue:	01.12.2018
	FUGITIVE EMISSION REPORT		Revision No.	2
Date of Rev.			01.12.2020	
Ref: SCML/ENV/FUGITIVE/MONTHLY/2026-27/05				
Brishyrnot Limestone Mine - I (MLA 42.051 Ha)				
Month - August'26				
Date	Location	Fugitive Emission Results	As per CPCB/BIS Guideline	
		(in $\mu\text{g}/\text{m}^3$)	Limit	(in $\mu\text{g}/\text{m}^3$)
14.08.2026	Near Drilling Point	1395	5000	
14.08.2026	Near Lime Stone loading area	1263	5000	
 Analyzed By  Checked By  Verified By				

	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/2026-27/05 Date:-14.08.2026						
Brishyrnot Limestone Mine - I (MLA 42.051 Ha.)						
Month -August'26						
S. No.	Location	Measured Values dB(A) Day time (6:00am to 10:00pm)			Norms In dB(A)	
		Min.	Max.	Avg.		
1	Excavator					
	A) Operator Cabin (Door Open)					
	a) At Low engine RPM	56.7	66.9	61.8	75	
	b) At High engine RPM	64.8	69.5	67.1		
	B) Operator Cabin(Door Close)					
	a) At Low engine RPM	54.6	63.1	58.8		
	b) At High engine RPM	62.7	65.5	64.1		
	C) Periphery of the Engine					
	a) At 1 mtr. Distance(At low RPM)	59.7	63.1	61.4		
	b) At 1 mtr. Distance (At high RPM)	65.4	69.2	67.3		
	c) At 5 mtr. Distance (At low RPM)	58.6	61.4	60.0		
	d) At 5 mtr. Distance (At high RPM)	62.6	65.4	64.0		
	D) Behind the Engine					
	a) At 1 mtr. Distance(At low RPM)	57.8	64.1	60.9		
	b) At 1 mtr. Distance (At high RPM)	64.7	66.8	65.7		
c) At 5 mtr. Distance (At low RPM)	55.3	62.1	58.7			
d) At 5 mtr. Distance (At high RPM)	62.6	63.7	63.1			
2	Rock Breaker					
	A) Operator Cabin					
	a) At Low engine RPM	62.3	64.2	63.2	75	
	b) At High engine RPM	65.0	67.5	66.2		
	B) Rock Breaker Point (At 5 mtr. Distance)					
	a) Left Side	62.7	63.5	63.1		
	b) Right Side	63.0	63.1	63.0		
	c) Front Side	62.4	63.4	62.9		


 Analyzed By


 Checked By


 Verified By

	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/2026-27/05 Date:-14.08.2026					
Brishyrnot Limestone Mine - I (MLA 42.051 Ha.)					
Month -August'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	64.6	66.2	65.4	
	b) At 5 mtr. Distance	63.3	65.2	64.2	
	B) Drilling Point (At 5 mtr. Distance)				
	a) Left Side	64.3	66.8	65.5	
	b) Right Side	61.9	65.8	63.8	
	c) Front Side	63.6	66.2	64.9	
4	Dozer				75
	A) Operator Cabin				
	a) At Low engine RPM	57.4	62.1	59.7	
	b) At High engine RPM	66.7	68.9	67.8	
	B) Periphery of the Engine				
	a) At 1 mtr. Distance(At low RPM)	63.4	66.5	64.9	
	b) At 1 mtr. Distance (At high RPM)	67.2	70.9	69.0	
	c) At 5 mtr. Distance (At low RPM)	62.3	65.1	63.7	
	d) At 5 mtr. Distance (At high RPM)	64.4	67.8	66.1	
	c) Behind the Engine				
	a) At 1 mtr. Distance(At low RPM)	58.8	67.4	63.1	
	b) At 1 mtr. Distance (At high RPM)	63.2	70.8	67.0	
c) At 5 mtr. Distance (At low RPM)	57.3	65.5	61.4		
d) At 5 mtr. Distance (At high RPM)	61.6	67.6	64.6		
5	Dumper				
	A) Empty Dumper				
	a) Open Window	64.3	65.5	64.9	
	b) Close Window	57.4	61.2	59.3	
	B) Loaded Dumper				
	a) Open Window	62.4	66.7	64.5	
b) Close Window	58.6	61.8	60.2		
 Analyzed by  Checked by  Verified By					

Report No.: ENV/SCI/ML/26-27/SW-35

Date : 11/09/2026

Order No.: 5300027956

Date : 17/04/2026

Report Issued To: **STAR CEMENT MEGHALAYA LIMITED**

Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/SW-260818/12 Sample Source : 42.051 Ha Brishyrnot Limestone Mine

Seasonal Nala

Sample Type : Surface Water

Collected On : 18-08-2026

Received On : 22-08-2026

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	12	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.5	-	-
4.	pH Value	6.78	6.5 - 8.5	No Relaxation
5.	Suspended Solids	54	-	-
6.	Total Dissolved Solids, mg/l, Max.	133	500	2000
7.	Conductivity, $\mu\text{S/cm}$	238	-	-
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.	36	200	600
14.	Calcium (as Ca), mg/l, Max.	13	75	200
15.	Magnesium (as Mg), mg/l, Max.	1.1	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**

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.

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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/FR-27

Date : 11/09/2026

Order No.: 5300027956

Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**

Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER FLOW RESULTS

Sl. No.	Locations	Date of Measurement	Flow Rate (m ³ /s)
1.	42.051 Ha Brishyrnot Limestone Mine Seasonal Nala	10.08.2026	48.7

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

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Report No.: ENV/SCML/ML/26-27/SW-24

Date : 11/09/2026

Order No.: 5300027956

Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**

Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCML/SW-260818/01

Sample Source : Lunar (Downstream)

Sample Type : Surface Water

Collected On : 18-08-2026

Received On : 22-08-2026

Collected By : Envirocon Representative

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

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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

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Report No.: ENV/SCML/ML/26-27/FR-16

Date : 11/09/2026

Order No.: 5300027956

Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**

Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER FLOW RESULTS

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

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

- NOTE:**
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Report No.: ENV/SCML/ML/26-27/SW-25

Date : 11/09/2026

Order No.: 5300027956

Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**

Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCML/SW-260818/02

Sample Source : Lunar (Upstream)

Sample Type : Surface Water

Collected On : 18-08-2026

Received On : 22-08-2026

Collected By : Envirocon Representative

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

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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

NOTE:

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Report No.: ENV/SCML/ML/26-27/FR-17

Date : 11/09/2026

Order No.: 5300027956

Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**

Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER FLOW RESULTS

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

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

NOTE:

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

Date : 11/09/2026

Order No.: 5300027956

Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**

Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCML/SW-260818/03

Sample Source : Umlong River

Sample Type : Surface Water

Collected On : 18-08-2026

Received On : 22-08-2026

Collected By : Envirocon Representative

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

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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

NOTE:

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Report No.: ENV/SCML/ML/26-27/FR-18

Date : 11/09/2026

Order No.: 5300027956

Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**

Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER FLOW RESULTS

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

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

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

Date : 11/09/2026

Order No.: 5300027956

Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**

Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCML/SW-260818/04

Sample Source : Wahiajer Spring

Sample Type : Surface Water

Collected On : 18-08-2026

Received On : 22-08-2026

Collected By : Envirocon Representative

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

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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

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Report No.: ENV/SCML/ML/26-27/FR-19

Date : 11/09/2026

Order No.: 5300027956

Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**

Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER FLOW RESULTS

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

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

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Report No.: ENV/SCL/ML/26-27/SW-28

Date : 11/09/2026

Order No.: 5300027956

Date : 17/04/2026

Report Issued To: **STAR CEMENT MEGHALAYA LIMITED**

Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/SW-260818/05

Sample Source : Lubha River (Upstream)

Sample Type : Surface Water

Collected On : 18-08-2026

Received On : 22-08-2026

Collected By : Envirocon Representative

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

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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

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Report No.: ENV/SCML/ML/26-27/FR-20

Date : 11/09/2026

Order No.: 5300027956

Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**

Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER FLOW RESULTS

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



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

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Report No.: ENV/SCI/ML/26-27/SW-29

Date : 11/09/2026

Order No.: 5300027956

Date : 17/04/2026

Report Issued To: **STAR CEMENT MEGHALAYA LIMITED**

Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/SW-260818/06

Sample Source : Lubha River (Downstream)

Sample Type : Surface Water

Collected On : 18-08-2026

Received On : 22-08-2026

Collected By : Envirocon Representative

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

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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

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Report No.: ENV/SCML/ML/26-27/FR-21

Date : 11/09/2026

Order No.: 5300027956

Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**

Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER FLOW RESULTS

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

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

NOTE:

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Report No.: ENV/SCI/ML/26-27/SW-30

Date : 11/09/2026

Order No.: 5300027956

Date : 17/04/2026

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/SW-260818/07

Sample Source : Lukha River

Sample Type : Surface Water

Collected On : 18-08-2026

Received On : 22-08-2026

Collected By : Envirocon Representative

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

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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

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Report No.: ENV/SCML/ML/26-27/FR-22

Date : 11/09/2026

Order No.: 5300027956

Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**

Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER FLOW RESULTS

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

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

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Report No.: ENV/SCI/ML/26-27/SW-31

Date : 11/09/2026

Order No.: 5300027956

Date : 17/04/2026

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/SW-260818/08

Sample Source : Umbadoh Spring

Sample Type : Surface Water

Collected On : 18-08-2026

Received On : 22-08-2026

Collected By : Envirocon Representative

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

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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

NOTE:

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Report No.: ENV/SCML/ML/26-27/FR-23

Date : 11/09/2026

Order No.: 5300027956

Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**

Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER FLOW RESULTS

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



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

NOTE:

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Report No.: ENV/SCI/ML/26-27/SW-32

Date : 11/09/2026

Order No.: 5300027956

Date : 17/04/2026

Report Issued To: **STAR CEMENT MEGHALAYA LIMITED**

Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/SW-260818/09

Sample Source : Tongseng Spring

Sample Type : Surface Water

Collected On : 18-08-2026

Received On : 22-08-2026

Collected By : Envirocon Representative

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

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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

NOTE:

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Report No.: ENV/SCML/ML/26-27/FR-24

Date : 11/09/2026

Order No.: 5300027956

Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**

Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER FLOW RESULTS

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

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

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Report No.: ENV/SCI/ML/26-27/SW-33

Date : 11/09/2026

Order No.: 5300027956

Date : 17/04/2026

Report Issued To: **STAR CEMENT MEGHALAYA LIMITED**

Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/SW-260818/10

Sample Source : Lumshnong Spring

Sample Type : Surface Water

Collected On : 18-08-2026

Received On : 22-08-2026

Collected By : Envirocon Representative

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

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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

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Report No.: ENV/SCML/ML/26-27/FR-25

Date : 11/09/2026

Order No.: 5300027956

Date : 17/04/2026

Report Issued To : **STAR CEMENT MEGHALAYA LIMITED**

Village & P. O.: Lumshnong, Dist.: East Jaintia Hills, Meghalaya - 793210

SURFACE WATER FLOW RESULTS

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

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

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