

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/2026-27/13

Dated: 06/06/2026

To,

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

Subject : Submission of Environmental Monitoring Report for the month of May, 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, Ground water & Surface water quality monitoring reports of **Brishyrnot Limestone Mine-I (MLA 42.051 Ha) of Star Cement Meghalaya Limited** 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
			Total	522.1



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/2026-27/02 Month : May'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)
13-05-2026	41.22	21.34	17.54	12.81
28-05-2026	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

[Signature]
Checked By

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Verified By



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/2026-27/02		Month : May'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)
13-05-2026	40.31	20.59	17.74	10.55
28-05-2026	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/2026-27/02				Month : May'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)	
13-05-2026	41.74	19.36	16.11	10.24	
28-05-2026	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/2026-27/02 Month : May'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)
02-05-2026	Rainfall	Rainfall	Rainfall	Rainfall
07-05-2026	41.53	23.24	21.99	19.03
11-05-2026	41.98	23.38	21.61	20.78
15-05-2026	Rainfall	Rainfall	Rainfall	Rainfall
20-05-2026	40.58	20.24	21.17	20.80
22-05-2026	40.22	23.08	20.02	18.30
25-05-2026	Rainfall	Rainfall	Rainfall	Rainfall
29-05-2026	39.03	20.74	21.33	18.61
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/2026-27/02

Brishyrnot Limestone Mine - I (MLA 42.051 Ha)

Month - May'26

Date	Location	Fugitive Emission Results (in $\mu\text{g}/\text{m}^3$)	As per CPCB/BIS Guideline
			Limit (in $\mu\text{g}/\text{m}^3$)
13.05.2026	Near Drilling Point	1108	5000
13.05.2026	Near Lime Stone loading area	987	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/2026-27/02

Date:-13.05.2026

Brishyrnot Limestone Mine - I (MLA 42.051 Ha.)


Month -May'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	54.7	67.3	61.0	
	b) At High engine RPM	62.8	69.9	66.4	
	B) Operator Cabin(Door Close)				
	a) At Low engine RPM	52.6	63.5	58.1	
	b) At High engine RPM	60.7	65.9	63.3	
	C) Periphery of the Engine				
	a) At 1 mtr. Distance(At low RPM)	57.7	63.5	60.6	
	b) At 1 mtr. Distance (At high RPM)	63.4	69.6	66.5	
	c) At 5 mtr. Distance (At low RPM)	56.6	61.8	59.2	
	d) At 5 mtr. Distance (At high RPM)	60.6	65.8	63.2	
	D) Behind the Engine				
	a) At 1 mtr. Distance(At low RPM)	55.8	64.5	60.2	
b) At 1 mtr. Distance (At high RPM)	62.7	67.2	65.0		
c) At 5 mtr. Distance (At low RPM)	53.3	62.5	57.9		
d) At 5 mtr. Distance (At high RPM)	60.6	64.1	62.4		
2	Rock Breaker				75
	A) Operator Cabin				
	a) At Low engine RPM	60.3	64.6	62.5	
	b) At High engine RPM	63.0	67.9	65.5	
	B) Rock Breaker Point (At 5 mtr. Distance)				
	a) Left Side	60.7	63.9	62.3	
	b) Right Side	61.0	63.5	62.3	
c) Front Side	60.4	63.8	62.1		

Shailendra Kumar
Analyzed By

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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/2026-27/02 Date:-13.05.2026

Brishyrnot Limestone Mine - I (MLA 42.051 Ha.)

Month -May'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	62.6	66.6	64.6	
	b) At 5 mtr. Distance	61.3	65.6	63.5	
	B) Drilling Point (At 5 mtr. Distance)				
	a) Left Side	62.3	67.2	64.8	
	b) Right Side	59.9	66.2	63.1	
4	Dozer				75
	A) Operator Cabin				
	a) At Low engine RPM	55.4	62.5	59.0	
	b) At High engine RPM	64.7	69.3	67.0	
	B) Periphery of the Engine				
	a) At 1 mtr. Distance (At low RPM)	61.4	66.9	64.2	
	b) At 1 mtr. Distance (At high RPM)	65.2	69.4	67.3	
	c) At 5 mtr. Distance (At low RPM)	60.3	65.5	62.9	
	d) At 5 mtr. Distance (At high RPM)	62.4	68.2	65.3	
	c) Behind the Engine				
	a) At 1 mtr. Distance (At low RPM)	56.8	67.8	62.3	
	b) At 1 mtr. Distance (At high RPM)	61.2	70.2	65.7	
	c) At 5 mtr. Distance (At low RPM)	55.3	65.9	60.6	
d) At 5 mtr. Distance (At high RPM)	59.6	68.0	63.8		
5	Dumper				
	A) Empty Dumper				
	a) Open Window	62.3	65.9	64.1	
	b) Close Window	55.4	61.6	58.5	
	B) Loaded Dumper				
	a) Open Window	60.4	67.1	63.8	
b) Close Window	56.6	62.2	59.4		

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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.

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

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 ³ /s)
1.	42.051 Ha Brishyrnot Limestone Mine Seasonal Nala	17.05.2026	36.4



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

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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 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 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-13

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



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

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



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



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

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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 ³ /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 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/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 ³ /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 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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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 ³ /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 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



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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 ³ /s)
1.	Lunar (Downstream)	12.05.2026	43.6



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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, μ 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 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/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 ³ /s)
1.	Lunar (Upstream)	12.05.2026	42.2



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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, μ 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 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



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 ³ /s)
1.	Tongseng Spring	15.05.2026	42.2



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



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

NOTE:

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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 ³ /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, μ 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 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/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 ³ /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 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/SCML/ML/26-27/FR-04

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 ³ /s)
1.	Wahiajer Spring	13.05.2026	38.4



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Report No.: ENV/SCML/ML/26-27/GW-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**GROUND WATER ANALYSIS RESULTS**

Sample Ref. No. : SCML/GW-260517/08

Sample Source : Brishyrnot Limestone Mine - 1 (42.051 Ha)

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	0.24	1	5
5.	pH	6.83	6.5 – 8.5	No Relaxation
6.	Total Dissolved Solids, mg/l, Max	111	500	2000
7.	Calcium (as Ca), mg/l, Max	28	75	200
8.	Chloride (as Cl), mg/l, Max	6.6	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	0.21	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 ₃), mg/l, Max	4.4	45	No Relaxation
17.	Sulfate (as SO ₄), mg/l, Max	<1.0	200	400
18.	Total Alkalinity(as CaCO ₃), mg/l, Max	91	200	600
19.	Total Hardness (as CaCO ₃), mg/l, Max	76	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-08

Date : 08/06/2026

Order No.: 5300027956

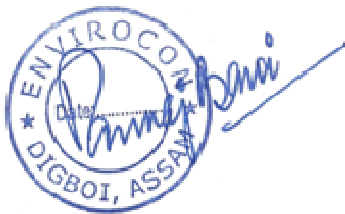
Date : 17/04/2026

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

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 Limestone Mine - 1 (42.051 Ha)	Bore Well	17.05.2026	178	103	75

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 ₃), mg/l, Max	4.1	45	No Relaxation
17.	Sulfate (as SO ₄), mg/l, Max	<1.0	200	400
18.	Total Alkalinity(as CaCO ₃), mg/l, Max	68	200	600
19.	Total Hardness (as CaCO ₃), 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



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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



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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 ₃), mg/l, Max	5.6	45	No Relaxation
17.	Sulfate (as SO ₄), mg/l, Max	<1.0	200	400
18.	Total Alkalinity(as CaCO ₃), mg/l, Max	63	200	600
19.	Total Hardness (as CaCO ₃), 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

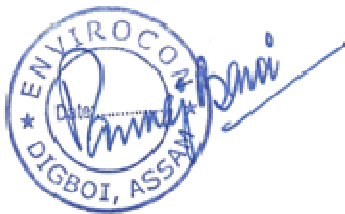
Date : 17/04/2026

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 ₃), mg/l, Max	4.1	45	No Relaxation
17.	Sulfate (as SO ₄), mg/l, Max	<1.0	200	400
18.	Total Alkalinity(as CaCO ₃), mg/l, Max	74	200	600
19.	Total Hardness (as CaCO ₃), 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

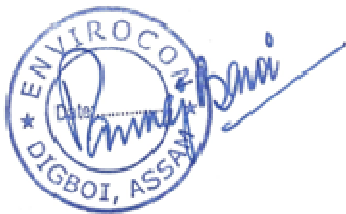
Date : 17/04/2026

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 ₃), mg/l, Max	2.9	45	No Relaxation
17.	Sulfate (as SO ₄), mg/l, Max	<1.0	200	400
18.	Total Alkalinity(as CaCO ₃), mg/l, Max	79	200	600
19.	Total Hardness (as CaCO ₃), 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

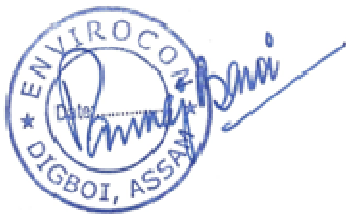
Date : 17/04/2026

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 ₃), mg/l, Max	2.7	45	No Relaxation
17.	Sulfate (as SO ₄), mg/l, Max	<1.0	200	400
18.	Total Alkalinity(as CaCO ₃), mg/l, Max	106	200	600
19.	Total Hardness (as CaCO ₃), 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

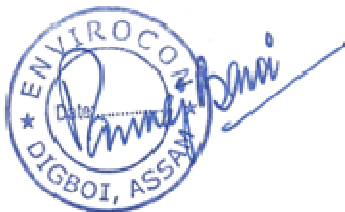
Date : 17/04/2026

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



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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 ₃), mg/l, Max	5.6	45	No Relaxation
17.	Sulfate (as SO ₄), mg/l, Max	<1.0	200	400
18.	Total Alkalinity(as CaCO ₃), mg/l, Max	88	200	600
19.	Total Hardness (as CaCO ₃), 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

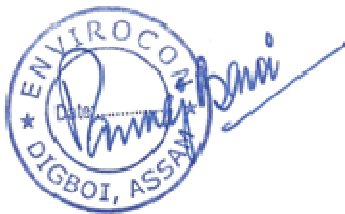
Date : 17/04/2026

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



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