



Ref: SCL/EHS/LUMS/2026-27/29

Dated: 06/06/2026

To,

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

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

Reference : MPCB/ONLINE/CTO(R-1)/EJHD/2025-26/68, Dated Shillong, the 14th April, 2026.

Dear Sir,

This is in reference to above cited subject, we are herewith 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 **DABA SAITTHAD LIMESTONE MINE (25 Ha)** of Star Cement 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 Limited**

sk

Lokesh Kumar Bahety
Unit Head



Enclosed: a/a

STAR CEMENT LIMITED

Regd. Off. & Works: Vill.: Lumshnong, Khaliehriat, East Jaintia Hills, Meghalaya - 793210 | ☎: 03655-278215/16/18 | ✉: lumshnong@starcement.co.in
Corp. Off.: Century House, 2nd Floor, P-15/1, Taratala Main Road, CPT Colony, Kolkata, West Bengal - 700088 | ✉: kolkata@starcement.co.in

ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 CERTIFIED COMPANY.





CIN: L26942ML2001PLC006663 | 🌐: www.starcement.co.in








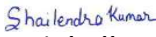


STAR CEMENT LIMITED

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 LIMITED DABA SAITTHAD LIMESTONE MINE (MLA 25 Ha) Lumshnong, Meghalaya			Reference No.	SCL/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.: SCL/ENV/AAQM/MONTHLY/2026-27/02				Month : May'26	
Location of Sampling: Between Boundary Pillar no. 6/17 & 7/17				GPS Coordinate: 25° 9'26.81"N 92°21'48.75"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)	
08-05-2026	38.21	19.97	15.25	13.02	
21-05-2026	37.52	18.33	14.36	12.96	
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)	
<p>Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.</p>					
 Analysed by		 Checked By		 Verified By	

	STAR CEMENT LIMITED DABA SAITTHAD LIMESTONE MINE (MLA 25 Ha) Lumshnong, Meghalaya		Reference No.	SCL/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.: SCL/ENV/AAQM/MONTHLY/2026-27/02			Month : May'26	
Location of Sampling: Between Boundary Pillar no. 9/17 & 10/17			GPS Coordinate: 25° 9'26.30"N 92°21'31.84"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)
08-05-2026	36.26	17.63	14.96	12.07
21-05-2026	35.18	16.85	13.87	11.42
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)
<p>Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.</p>				
 Analysed by		 Checked By		 Verified By

	STAR CEMENT LIMITED DABA SAITTHAD LIMESTONE MINE (MLA 25 Ha) Lumshnong, Meghalaya			Reference No.	SCL/Env/F - 01
	AMBIENT AIR QUALITY MONITORING REPORT			Issue No.	1
				Date of Issue:	24.08.2013
				Revision No.	5
Date of Rev.				01.12.2020	
Reference No.: SCL/ENV/AAQM/MONTHLY/2026-27/02				Month : May'26	
Location of Sampling: Between Boundary Pillar no. 16/17 & 17/17				GPS Coordinate: 25° 9'38.37"N 92°21'42.14"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)	
08-05-2026	36.57	16.02	13.41	11.95	
21-05-2026	37.02	17.36	14.05	12.23	
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)	
<p>Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.</p>					
 Analysed by		 Checked By		 Verified By	



STAR CEMENT LIMITED

Lumshnong, Meghalaya

FUGITIVE EMISSION REPORT

Reference No. SCL/Env/F – 07 (a)

Issue No. 1

Date of Issue: 01.12.2018

Revision No. 2

Date of Rev. 01.12.2020

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

DABA SAIITHAD LIMESTONE MINE (MLA 25 Ha)

Month - May'26

Date	Location	Fugitive Emission Results (in $\mu\text{g}/\text{m}^3$)	As per CPCB/BIS Guideline
			Limit (in $\mu\text{g}/\text{m}^3$)
21.05.2026	Near Drilling Point	986	5000
21.05.2026	Near Lime Stone loading area	1041	5000
Remarks			

Shailendra Kumar
Analyzed By

[Signature]
Checked By

[Signature]
Verified By



STAR CEMENT LIMITED

DABA SAIITHAD LIMESTONE MINE (MLA 25 Ha.)
Lumshnong, Meghalaya

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

NOISE LEVEL MONITORING REPORT

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

Date:- 21.05.2026

DABA SAIITHAD LIMESTONE MINE (MLA 25 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	56.8	63.3	60.1	
	b) At High engine RPM	62.1	66.8	64.5	
	B) Operator Cabin(Door Close)				
	a) At Low engine RPM	54.0	60.1	57.1	
	b) At High engine RPM	57.3	62.9	60.1	
	C) Periphery of the Engine				
	a) At 1 mtr. Distance(At low RPM)	59.1	66.3	62.7	
	b) At 1 mtr. Distance (At high RPM)	62.7	68.9	65.8	
	c) At 5 mtr. Distance (At low RPM)	56.6	62.7	59.7	
	d) At 5 mtr. Distance (At high RPM)	61.9	66.8	64.4	
	D) Behind the Engine				
	a) At 1 mtr. Distance(At low RPM)	57.6	66.2	61.9	
b) At 1 mtr. Distance (At high RPM)	62.1	69.6	65.9		
c) At 5 mtr. Distance (At low RPM)	54.9	64.4	59.7		
d) At 5 mtr. Distance (At high RPM)	60.3	67.2	63.8		
2	Rock Breaker				75
	A) Operator Cabin				
	a) At Low engine RPM	55.0	63.6	59.3	
	b) At High engine RPM	62.5	66.7	64.6	
	B) Rock Breaker Point (At 5 mtr. Distance)				
	a) Left Side	55.7	66.0	60.9	
	b) Right Side	58.0	66.8	62.4	
c) Front Side	58.6	65.3	62.0		
3	Drill Machine				75
	A) Compressor				
	a) At 1 mtr. Distance	64.0	67.0	65.5	
	b) At 5 mtr. Distance	61.7	64.7	63.2	
	B) Drilling Point (At 5 mtr. Distance)				
	a) Left Side	59.9	66.1	63.0	
	b) Right Side	61.4	66.5	64.0	
c) Front Side	61.8	65.0	63.4		

Shailendra Kumar
Analyzed by

Checked By

Verified by

	STAR CEMENT LIMITED DABA SAITTHAD LIMESTONE MINE (MLA 25 Ha.) Lumshnong, Meghalaya			Document No.	SCL/EHS/Env/F-03
				Effective Date	01-05-2019
	NOISE LEVEL MONITORING REPORT			Revision No.	04
				Revision Date	01-01-2021
Ref: SCL/ENV/NOISE/MONTHLY/2026-27/02				Date:- 21.05.2026	
DABA SAITTHAD LIMESTONE MINE (MLA 25 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.	
4	Dozer				75
	A) Operator Cabin				
	a) At Low engine RPM	58.3	64.0	61.2	
	b) At High engine RPM	63.3	67.9	65.6	
	B) Periphery of the Engine				
	a) At 1 mtr. Distance(At low RPM)	62.7	66.6	64.7	
	b) At 1 mtr. Distance (At high RPM)	63.6	69.2	66.4	
	c) At 5 mtr. Distance (At low RPM)	59.0	64.2	61.6	
	d) At 5 mtr. Distance (At high RPM)	62.9	67.0	65.0	
	c) Behind the Engine				
	a) At 1 mtr. Distance(At low RPM)	63.0	66.4	64.7	
	b) At 1 mtr. Distance (At high RPM)	64.2	68.5	66.4	
c) At 5 mtr. Distance (At low RPM)	61.8	64.7	63.3		
d) At 5 mtr. Distance (At high RPM)	62.6	66.1	64.4		
5	Dumper				75
	A) Empty Dumper				
	a) Open Window	62.0	66.0	64.0	
	b) Close Window	57.7	62.3	60.0	
	B) Loaded Dumper				
	a) Open Window	62.7	66.5	64.6	
b) Close Window	58.3	63.6	61.0		
6	Village				55
	A) Lumshnong	36.2	38.6	37.4	
	B) Umstain	35.4	37.3	36.4	
 Analysed By		 Checked By		 Verified by	

Report No.: ENV/SCL/ML/26-27/SW-11

Date : 06/05/2026

Order No.: 5300027955

Date : 17/04/2026

Report Issued To: **STAR CEMENT LIMITED**

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/SW-260405/11 Sample Source : Daba Saitthad Limestone Mine 25 Ha 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.	7	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.4	-	-
4.	pH Value	6.73	6.5 - 8.5	No Relaxation
5.	Suspended Solids	42	-	-
6.	Total Dissolved Solids, mg/l, Max.	112	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	179	-	-
8.	Dissolved Oxygen, mg/l, Min.	6.1	-	-
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.	15	200	600
14.	Calcium (as Ca), mg/l, Max.	7	75	200
15.	Magnesium (as Mg), mg/l, Max.	<1.0	30	100
16.	Iron (as Fe), mg/l, Max.	<0.001	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.
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Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs
Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No.: ENV/SCL/ML/26-27/FR-11

Date : 08/06/2026

Order No.: 5300027955

Date : 17/04/2026

Report Issued To : **STAR CEMENT LIMITED**

Lumshnong, 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.	Daba Saitthad Limestone Mine 25 Ha	11.05.2026	28.3



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

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

Order No.: 5300027955

Date : 06/05/2026

Date : 17/04/2026

Report Issued To: **STAR CEMENT LIMITED**

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/SW-260405/12

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**

NOTE:

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

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

Date : 08/06/2026

Order No.: 5300027955

Date : 17/04/2026

Report Issued To : **STAR CEMENT LIMITED**

Lumshnong, 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)	12.05.2026	43.6



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

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Report No.: ENV/SCI/ML/26-27/SW-13

Date : 06/05/2026

Order No.: 5300027955

Date : 17/04/2026

Report Issued To: **STAR CEMENT LIMITED**

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/SW-260405/13

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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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/FR-13

Date : 08/06/2026

Order No.: 5300027955

Date : 17/04/2026

Report Issued To : **STAR CEMENT LIMITED**

Lumshnong, 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)	12.05.2026	44.8



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/SCL/ML/26-27/SW-14

Date : 06/05/2026

Order No.: 5300027955

Date : 17/04/2026

Report Issued To: **STAR CEMENT LIMITED**

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/SW-260405/14

Sample Source : Seshympa 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.	9	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.4	-	-
4.	pH Value	6.69	6.5 - 8.5	No Relaxation
5.	Suspended Solids	59	-	-
6.	Total Dissolved Solids, mg/l, Max.	152	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	248	-	-
8.	Dissolved Oxygen, mg/l, Min.	6.2	-	-
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.	55	200	600
14.	Calcium (as Ca), mg/l, Max.	19	75	200
15.	Magnesium (as Mg), mg/l, Max.	2	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:

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Report No.: ENV/SCL/ML/26-27/FR-14

Date : 08/06/2026

Order No.: 5300027955

Date : 17/04/2026

Report Issued To : **STAR CEMENT LIMITED**

Lumshnong, 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.	Seshympa River (Upstream)	12.05.2026	47.6



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Report No.: ENV/SCL/ML/26-27/SW-15

Date : 06/05/2026

Order No.: 5300027955

Date : 17/04/2026

Report Issued To: **STAR CEMENT LIMITED**

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/SW-260405/15

Sample Source : Seshympa 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.	7	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	51	-	-
6.	Total Dissolved Solids, mg/l, Max.	148	500	2000
7.	Conductivity, $\mu\text{S/cm}$	242	-	-
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.	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.	<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/FR-15

Date : 08/06/2026

Order No.: 5300027955

Date : 17/04/2026

Report Issued To : **STAR CEMENT LIMITED**

Lumshnong, 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.	Seshympa River (Downstream)	12.05.2026	49.2



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

Date : 06/05/2026

Order No.: 5300027955

Date : 17/04/2026

Report Issued To: **STAR CEMENT LIMITED**

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/SW-260405/16

Sample Source : Umtyrngai Nala (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.	14	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	72	-	-
6.	Total Dissolved Solids, mg/l, Max.	162	500	2000
7.	Conductivity, $\mu\text{S/cm}$	263	-	-
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.	24	200	600
14.	Calcium (as Ca), mg/l, Max.	11	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.	<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/FR-16

Date : 08/06/2026

Order No.: 5300027955

Date : 17/04/2026

Report Issued To : **STAR CEMENT LIMITED**

Lumshnong, 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.	Umtyrngai Nala (Upstream)	13.05.2026	38.6



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Report No.: ENV/SCL/ML/26-27/SW-17

Date : 06/05/2026

Order No.: 5300027955

Date : 17/04/2026

Report Issued To: **STAR CEMENT LIMITED**

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/SW-260405/17

Sample Source : Umtyrngai Nala (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.	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	62	-	-
6.	Total Dissolved Solids, mg/l, Max.	153	500	2000
7.	Conductivity, μ S/cm	248	-	-
8.	Dissolved Oxygen, mg/l, Min.	5.9	-	-
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.	28	200	600
14.	Calcium (as Ca), mg/l, Max.	14	75	200
15.	Magnesium (as Mg), mg/l, Max.	3	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



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

Date : 08/06/2026

Order No.: 5300027955

Date : 17/04/2026

Report Issued To : **STAR CEMENT LIMITED**

Lumshnong, 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.	Umtyrngai Nala (Downstream)	13.05.2026	40.7



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Report No.: ENV/SCL/ML/26-27/SW-18

Date : 06/05/2026

Order No.: 5300027955

Date : 17/04/2026

Report Issued To: **STAR CEMENT LIMITED**

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/SW-260405/18

Sample Source : Ummutha Nala (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	6.72	6.5 - 8.5	No Relaxation
5.	Suspended Solids	63	-	-
6.	Total Dissolved Solids, mg/l, Max.	178	500	2000
7.	Conductivity, μ S/cm	279	-	-
8.	Dissolved Oxygen, mg/l, Min.	6.1	-	-
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.	19	200	600
14.	Calcium (as Ca), mg/l, Max.	7	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



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

Date : 08/06/2026

Order No.: 5300027955

Date : 17/04/2026

Report Issued To : **STAR CEMENT LIMITED**

Lumshnong, 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.	Ummutha Nala (Upstream)	14.05.2026	36.6



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Report No.: ENV/SCL/ML/26-27/SW-19

Order No.: 5300027955

Date : 06/05/2026

Date : 17/04/2026

Report Issued To: **STAR CEMENT LIMITED**

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/SW-260405/19

Sample Source : Ummutha Nala (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	6.76	6.5 - 8.5	No Relaxation
5.	Suspended Solids	59	-	-
6.	Total Dissolved Solids, mg/l, Max.	172	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	271	-	-
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.	12	200	600
14.	Calcium (as Ca), mg/l, Max.	6	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



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

Date : 08/06/2026

Order No.: 5300027955

Date : 17/04/2026

Report Issued To : **STAR CEMENT LIMITED**

Lumshnong, 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.	Ummutha Nala (Downstream)	14.05.2026	37.8



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Report No.: ENV/SCL/ML/26-27/SW-20

Date : 06/05/2026

Order No.: 5300027955

Date : 17/04/2026

Report Issued To: **STAR CEMENT LIMITED**

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/SW-260405/20

Sample Source : Umso Nala (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.	14	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	61	-	-
6.	Total Dissolved Solids, mg/l, Max.	182	500	2000
7.	Conductivity, μ S/cm	283	-	-
8.	Dissolved Oxygen, mg/l, Min.	5.8	-	-
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.	18	200	600
14.	Calcium (as Ca), mg/l, Max.	8	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/FR-20

Date : 08/06/2026

Order No.: 5300027955

Date : 17/04/2026

Report Issued To : **STAR CEMENT LIMITED**

Lumshnong, 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.	Umso Nala (Upstream)	15.05.2026	33.8



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

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Report No.: ENV/SCL/ML/26-27/SW-21

Order No.: 5300027955

Date : 06/05/2026

Date : 17/04/2026

Report Issued To: **STAR CEMENT LIMITED**

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

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/SW-260405/21

Sample Source : Umso Nala (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.	12	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.5	-	-
4.	pH Value	6.74	6.5 - 8.5	No Relaxation
5.	Suspended Solids	56	-	-
6.	Total Dissolved Solids, mg/l, Max.	176	500	2000
7.	Conductivity, μ S/cm	279	-	-
8.	Dissolved Oxygen, mg/l, Min.	5.6	-	-
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.	14	200	600
14.	Calcium (as Ca), mg/l, Max.	6	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/SCL/ML/26-27/FR-21

Date : 08/06/2026

Order No.: 5300027955

Date : 17/04/2026

Report Issued To : **STAR CEMENT LIMITED**

Lumshnong, 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.	Umso Nala (Downstream)	15.05.2026	35.3



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

Date : 08/06/2026

Order No.: 5300027955

Date : 17/04/2026

Report Issued To: **STAR CEMENT LIMITED**

Lumshnong, P. O.: Khilehriat, Dist.: East Jaintia Hills, Meghalaya

GROUND WATER ANALYSIS RESULTS

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

Sample Source : Daba Saitthad Limestone Mine 25 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	5	5	15
2.	Odour	Odourless	Agreeable	Agreeable
3.	Taste	Acceptable	Agreeable	Agreeable
4.	Turbidity, NTU, Max	0.38	1	5
5.	pH	6.79	6.5 – 8.5	No Relaxation
6.	Total Dissolved Solids, mg/l, Max	132	500	2000
7.	Calcium (as Ca), mg/l, Max	37	75	200
8.	Chloride (as Cl), mg/l, Max	24	250	1000
9.	Copper (as Cu), mg/l, Max	<0.001	0.05	1.5
10.	Fluorides (as F), mg/l, Max	<0.1	1.0	1.5
11.	Free Residual Chlorine, mg/l, Min	<0.01	0.2	1
12.	Iron (as Fe), mg/l, Max	0.24	0.3	No Relaxation
13.	Magnesium (as Mg), mg/l, Max	4	30	100
14.	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3
15.	Zinc (as Zn), mg/l, Max	<0.01	5.0	15
16.	Nitrate (as NO ₃), mg/l, Max	1.6	45	No Relaxation
17.	Sulfate (as SO ₄), mg/l, Max	<1.0	200	400
18.	Total Alkalinity(as CaCO ₃) , mg/l, Max	89	200	600
19.	Total Hardness, (as CaCO ₃), mg/l, Max	107	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/SCL/ML/26-27/GWL-02

Date : 08/06/2026

Order No.: 5300027955

Date : 17/04/2026

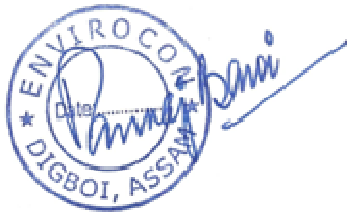
Report Issued To : **STAR CEMENT LIMITED**

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.	Daba Saitthad Limestone Mine 25 Ha.	Bore Well	17.05.2026	195	112	83

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



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

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Report No.: ENV/SCL/ML/26-27/GW-19

Date : 08/06/2026

Order No.: 5300027955

Date : 17/04/2026

Report Issued To: **STAR CEMENT LIMITED**

Lumshnong, P. O.: Khilehriat, Dist.: East Jaintia Hills, Meghalaya

GROUND WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/GW-260517/19

Sample Source : B. P. Petrol Pump Tongseng

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	1.2	1	5
5.	pH	6.78	6.5 – 8.5	No Relaxation
6.	Total Dissolved Solids, mg/l, Max	134	500	2000
7.	Calcium (as Ca), mg/l, Max	35	75	200
8.	Chloride (as Cl), mg/l, Max	22	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	8	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	1.5	45	No Relaxation
17.	Sulfate (as SO ₄), mg/l, Max	<1.0	200	400
18.	Total Alkalinity(as CaCO ₃) , mg/l, Max	93	200	600
19.	Total Hardness, (as CaCO ₃), mg/l, Max	121	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/SCL/ML/26-27/GWL-19

Date : 08/06/2026

Order No.: 5300027955

Date : 17/04/2026

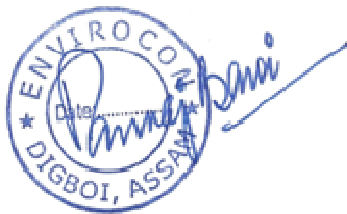
Report Issued To : **STAR CEMENT LIMITED**

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.	B. P. Petrol Pump Tongseng	Bore Well	17.05.2026	192	114	78

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



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Report No.: ENV/SCL/ML/26-27/GW-13

Date : 08/06/2026

Order No.: 5300027955

Date : 17/04/2026

Report Issued To: **STAR CEMENT LIMITED**

Lumshnong, P. O.: Khilehriat, Dist.: East Jaintia Hills, Meghalaya

GROUND WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/GW-260517/13 Sample Source : Tongseng 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	0.74	1	5
5.	pH	6.81	6.5 – 8.5	No Relaxation
6.	Total Dissolved Solids, mg/l, Max	133	500	2000
7.	Calcium (as Ca), mg/l, Max	29	75	200
8.	Chloride (as Cl), mg/l, Max	23	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	9	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	1.9	45	No Relaxation
17.	Sulfate (as SO ₄), mg/l, Max	<1.0	200	400
18.	Total Alkalinity(as CaCO ₃) , mg/l, Max	82	200	600
19.	Total Hardness, (as CaCO ₃), mg/l, Max	110	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/SCL/ML/26-27/GWL-13

Date : 08/06/2026

Order No.: 5300027955

Date : 17/04/2026

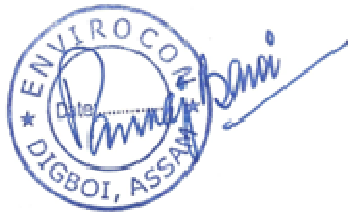
Report Issued To : **STAR CEMENT LIMITED**

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.	Tongseng Village	Bore Well	17.05.2026	189	107	82

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



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Report No.: ENV/SCL/ML/26-27/GW-15

Date : 08/06/2026

Order No.: 5300027955

Date : 17/04/2026

Report Issued To: **STAR CEMENT LIMITED**

Lumshnong, P. O.: Khilehriat, Dist.: East Jaintia Hills, Meghalaya

GROUND WATER ANALYSIS RESULTS

Sample Ref. No. : SCL/GW-260517/15

Sample Source : Wahiajer Narpuh 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	0.71	1	5
5.	pH	6.80	6.5 – 8.5	No Relaxation
6.	Total Dissolved Solids, mg/l, Max	124	500	2000
7.	Calcium (as Ca), mg/l, Max	24	75	200
8.	Chloride (as Cl), mg/l, Max	28	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	9	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	1.9	45	No Relaxation
17.	Sulfate (as SO ₄), mg/l, Max	<1.0	200	400
18.	Total Alkalinity(as CaCO ₃), mg/l, Max	80	200	600
19.	Total Hardness, (as CaCO ₃), mg/l, Max	97	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/SCL/ML/26-27/GWL-15

Date : 08/06/2026

Order No.: 5300027955

Date : 17/04/2026

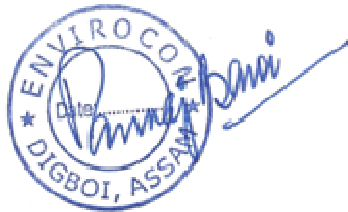
Report Issued To : **STAR CEMENT LIMITED**

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.	Wahiajer Narpuh Village	Bore Well	17.05.2026	162	97	65

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



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