



Ref: SCL/EHS/LUMS/2026-27/19

Dated: 07/05/2026

To,

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

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

**Reference : MPCB/ONLINE/CTO(R-1)/EJHD/2025-26/68, Dated Shillong, the 14<sup>th</sup> 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 & Surface water monitoring reports of **DABA SAITTHAD LIMESTONE MINE (25 Ha)** of Star Cement Limited for the month of **April, 2026**.

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

Thanking you,

Yours truly,  
For **Star Cement Limited**

  
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








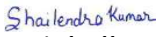


# STAR CEMENT LIMITED

Lumshnong, Meghalaya

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

	<b>STAR CEMENT LIMITED</b> DABA SAITTHAD LIMESTONE MINE (MLA 25 Ha) Lumshnong, Meghalaya		Reference No.	SCL/Env/F - 01
			Issue No.	1
			Date of Issue:	24.08.2013
	<b>AMBIENT AIR QUALITY MONITORING REPORT</b>		Revision No.	5
			Date of Rev.	01.12.2020
Reference No.: SCL/ENV/AAQM/MONTHLY/2026-27/01			Month :April'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.
Date of Sampling	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
08-04-2026	32.98	16.52	14.11	12.85
22-04-2026	Rainfall	Rainfall	Rainfall	Rainfall
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m <sup>3</sup> )	60 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )
<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	

	<b>STAR CEMENT LIMITED</b> DABA SAITTHAD LIMESTONE MINE (MLA 25 Ha) Lumshnong, Meghalaya		Reference No.	SCL/Env/F - 01
			Issue No.	1
			Date of Issue:	24.08.2013
	<b>AMBIENT AIR QUALITY MONITORING REPORT</b>		Revision No.	5
		Date of Rev.	01.12.2020	
Reference No.: SCL/ENV/AAQM/MONTHLY/2026-27/01			Month :April'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 <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> ( µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
08-04-2026	33.09	15.83	13.56	11.52
22-04-2026	Rainfall	Rainfall	Rainfall	Rainfall
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m <sup>3</sup> )	60 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )
<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

	<b>STAR CEMENT LIMITED</b> <b>DABA SAITTHAD LIMESTONE MINE (MLA 25 Ha)</b> <b>Lumshnong, Meghalaya</b>			Reference No.	SCL/Env/F - 01
	<b>AMBIENT AIR QUALITY MONITORING REPORT</b>			Issue No.	1
				Date of Issue:	24.08.2013
				Revision No.	5
Date of Rev.				01.12.2020	
Reference No.: SCL/ENV/AAQM/MONTHLY/2026-27/01				Month :April'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 <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	
08-04-2026	34.56	15.24	13.72	12.03	
22-04-2026	Rainfall	Rainfall	Rainfall	Rainfall	
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m <sup>3</sup> )	60 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )	80 (µg/m <sup>3</sup> )	
<p>Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.</p>					
 <b>Analysed by</b>		 <b>Checked By</b>		 <b>Verified By</b>	



# 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/2026-27/01

### DABA SAIITHAD LIMESTONE MINE (MLA 25 Ha)

Month - April'26

Date	Location	Fugitive Emission Results (in $\mu\text{g}/\text{m}^3$ )	As per CPCB/BIS Guideline
			Limit (in $\mu\text{g}/\text{m}^3$ )
08.04.2026	Near Drilling Point	1183	5000
08.04.2026	Near Lime Stone loading area	1139	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/2026-27/01

Date:- 08.04.2026

### DABA SAIITHAD LIMESTONE MINE (MLA 25 Ha.)


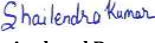
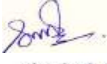
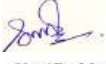
Month -April'26

S. No.	Location	Measured Values dB(A) Day time (6:00am to 10:00pm)			Norms in dB(A)
		Min.	Max.	Avg.	
1	<b>Excavator</b>				75
	<b>A) Operator Cabin (Door Open)</b>				
	a) At Low engine RPM	56.1	66.6	61.4	
	b) At High engine RPM	61.4	70.1	65.8	
	<b>B) Operator Cabin(Door Close)</b>				
	a) At Low engine RPM	53.3	63.4	58.4	
	b) At High engine RPM	56.6	66.2	61.4	
	<b>C) Periphery of the Engine</b>				
	a) At 1 mtr. Distance( At low RPM)	58.4	69.6	64.0	
	b) At 1 mtr. Distance (At high RPM)	62.0	72.2	67.1	
	c) At 5 mtr. Distance (At low RPM)	55.9	66.0	61.0	
	d) At 5 mtr. Distance (At high RPM)	61.2	70.1	65.7	
	<b>D) Behind the Engine</b>				
	a) At 1 mtr. Distance( At low RPM)	56.9	69.5	63.2	
b) At 1 mtr. Distance (At high RPM)	61.4	72.9	67.2		
c) At 5 mtr. Distance (At low RPM)	54.2	67.7	61.0		
d) At 5 mtr. Distance (At high RPM)	59.6	70.5	65.1		
2	<b>Rock Breaker</b>				75
	<b>A) Operator Cabin</b>				
	a) At Low engine RPM	54.3	66.9	60.6	
	b) At High engine RPM	61.8	70.0	65.9	
	<b>B) Rock Breaker Point (At 5 mtr. Distance)</b>				
	a) Left Side	55.0	69.3	62.2	
	b) Right Side	57.3	70.1	63.7	
c) Front Side	57.9	68.6	63.3		
3	<b>Drill Machine</b>				75
	<b>A) Compressor</b>				
	a) At 1 mtr. Distance	63.3	70.3	66.8	
	b) At 5 mtr. Distance	61.0	68.0	64.5	
	<b>B) Drilling Point (At 5 mtr. Distance)</b>				
	a) Left Side	59.2	69.4	64.3	
	b) Right Side	60.7	69.8	65.3	
c) Front Side	61.1	68.3	64.7		

Shailendra Kumar  
Analyzed by

Checked By

Verified by

	<b>STAR CEMENT LIMITED</b> DABA SAITTHAD LIMESTONE MINE (MLA 25 Ha.) Lumshnong, Meghalaya			Document No.	SCL/EHS/Env/F-03
				Effective Date	01-05-2019
	<b>NOISE LEVEL MONITORING REPORT</b>			Revision No.	04
				Revision Date	01-01-2021
Ref: SCL/ENV/NOISE/MONTHLY/2026-27/01				Date:- 08.04.2026	
<b>DABA SAITTHAD LIMESTONE MINE (MLA 25 Ha.)</b>					
<b>Month -April'26</b>					
S. No.	Location	Measured Values dB(A) Day time (6:00am to 10:00pm)			Norms In dB(A)
		Min.	Max.	Avg.	
4	<b>Dozer</b>				75
	<b>A) Operator Cabin</b>				
	a) At Low engine RPM	57.6	67.3	62.5	
	b) At High engine RPM	62.6	71.2	66.9	
	<b>B) Periphery of the Engine</b>				
	a) At 1 mtr. Distance ( At low RPM)	62.0	69.9	66.0	
	b) At 1 mtr. Distance (At high RPM)	62.9	72.5	67.7	
	c) At 5 mtr. Distance (At low RPM)	58.3	67.5	62.9	
	d) At 5 mtr. Distance (At high RPM)	62.2	70.3	66.3	
	<b>c) Behind the Engine</b>				
	a) At 1 mtr. Distance ( At low RPM)	62.3	69.7	66.0	
	b) At 1 mtr. Distance (At high RPM)	63.5	71.8	67.7	
c) At 5 mtr. Distance (At low RPM)	61.1	68.0	64.6		
d) At 5 mtr. Distance (At high RPM)	61.9	69.4	65.7		
5	<b>Dumper</b>				75
	<b>A) Empty Dumper</b>				
	a) Open Window	61.3	69.3	65.3	
	b) Close Window	57.0	65.6	61.3	
	<b>B) Loaded Dumper</b>				
	a) Open Window	62.0	69.8	65.9	
b) Close Window	57.6	66.9	62.3		
6	<b>Village</b>				55
	A) Lumshnong	37.8	39.6	38.7	
	B) Umstain	36.2	38.5	37.4	
 Analysed By		 Checked By		 Verified by	



# STAR CEMENT LIMITED

Lumshnong, Meghalaya

DABA SAITTHAD LIMESTONE MINE (MLA 25 Ha)

WATER TESTING REPORT- April'26

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

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

Surface Water Analysis Results

Date of sample collection: 01.04.2026

Date of Analysis: 01.04.2026 to 11.04.2026

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

Shailendra Kumar  
Analyzed by

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, $\mu$ S/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 $\text{CaCO}_3$ ), 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 $\text{NH}_3$ ), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as $\text{NH}_3$ ), mg/l, Max.	<0.01	-	-

\*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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

**NOTE:**

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
2. Results refer only to the particular parameters tested.
3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

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

Report No.: ENV/SCL/ML/26-27/SW-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 $\text{CaCO}_3$ ), mg/l, Max.	32	200	600
14.	Calcium (as Ca), mg/l, Max.	15	75	200
15.	Magnesium (as Mg), mg/l, Max.	<1.0	30	100
16.	Iron (as Fe), mg/l, Max.	0.06	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	<0.1	-	-
19.	Total Kjeldahl Nitrogen (as $\text{NH}_3$ ), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as $\text{NH}_3$ ), mg/l, Max.	<0.01	-	-

\*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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

**NOTE:**

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
2. Results refer only to the particular parameters tested.
3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

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

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

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-260405/13

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 $\text{CaCO}_3$ ), mg/l, Max.	34	200	600
14.	Calcium (as Ca), mg/l, Max.	16	75	200
15.	Magnesium (as Mg), mg/l, Max.	<1.0	30	100
16.	Iron (as Fe), mg/l, Max.	0.05	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	<0.1	-	-
19.	Total Kjeldahl Nitrogen (as $\text{NH}_3$ ), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as $\text{NH}_3$ ), mg/l, Max.	<0.01	-	-

\*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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

**NOTE:**

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
2. Results refer only to the particular parameters tested.
3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

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

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

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-260405/14

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, $\mu\text{S/cm}$	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 $\text{CaCO}_3$ ), 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 $\text{NH}_3$ ), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as $\text{NH}_3$ ), mg/l, Max.	<0.01	-	-

\*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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

**NOTE:**

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
2. Results refer only to the particular parameters tested.
3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

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

Report No.: ENV/SCL/ML/26-27/SW-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, $\mu\text{S}/\text{cm}$	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 $\text{CaCO}_3$ ), mg/l, Max.	51	200	600
14.	Calcium (as Ca), mg/l, Max.	17	75	200
15.	Magnesium (as Mg), mg/l, Max.	2	30	100
16.	Iron (as Fe), mg/l, Max.	0.04	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	<0.1	-	-
19.	Total Kjeldahl Nitrogen (as $\text{NH}_3$ ), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as $\text{NH}_3$ ), mg/l, Max.	<0.01	-	-

\*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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

**NOTE:**

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
2. Results refer only to the particular parameters tested.
3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

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

Report No.: ENV/SCL/ML/26-27/SW-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, $\mu$ 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 $\text{CaCO}_3$ ), 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 $\text{NH}_3$ ), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as $\text{NH}_3$ ), mg/l, Max.	<0.01	-	-

\*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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

**NOTE:**

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
2. Results refer only to the particular parameters tested.
3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

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

Report No.: ENV/SCL/ML/26-27/SW-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, $\mu$ 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 $\text{CaCO}_3$ ), mg/l, Max.	28	200	600
14.	Calcium (as Ca), mg/l, Max.	14	75	200
15.	Magnesium (as Mg), mg/l, Max.	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 $\text{NH}_3$ ), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as $\text{NH}_3$ ), mg/l, Max.	<0.01	-	-

\*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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

**NOTE:**

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
2. Results refer only to the particular parameters tested.
3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

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

Report No.: ENV/SCL/ML/26-27/SW-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, $\mu$ 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 $\text{CaCO}_3$ ), 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 $\text{NH}_3$ ), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as $\text{NH}_3$ ), mg/l, Max.	<0.01	-	-

\*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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

**NOTE:**

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
2. Results refer only to the particular parameters tested.
3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

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

Report No.: ENV/SCL/ML/26-27/SW-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, $\mu$ S/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 $\text{CaCO}_3$ ), 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 $\text{NH}_3$ ), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as $\text{NH}_3$ ), mg/l, Max.	<0.01	-	-

\*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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

**NOTE:**

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
2. Results refer only to the particular parameters tested.
3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

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

Report No.: ENV/SCL/ML/26-27/SW-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, $\mu\text{S}/\text{cm}$	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 $\text{CaCO}_3$ ), 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 $\text{NH}_3$ ), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as $\text{NH}_3$ ), mg/l, Max.	<0.01	-	-

\*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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

**NOTE:**

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
2. Results refer only to the particular parameters tested.
3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

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

Report No.: ENV/SCL/ML/26-27/SW-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, $\mu$ 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 <sub>3</sub> ), 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 <sub>3</sub> ), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as NH <sub>3</sub> ), mg/l, Max.	<0.01	-	-

\*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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

**NOTE:**

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
2. Results refer only to the particular parameters tested.
3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

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