



Ref: SCL/EHS/LUMS/2026-27/77

Dated: 14/09/2026

To,

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

Subject : Submission of Environmental Monitoring Report for the month of August, 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 & Surface water quality monitoring reports of **DABA SAITTHAD LIMESTONE MINE (25 Ha)** of **Star Cement Limited** for the month of **August, 2026**.

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

Thanking you,

Yours truly,
For Star Cement Limited


Lokesh Kumar Bahety
Unit Head



Enclosed: a/a

STAR CEMENT LIMITED

Regd. Off. & Works: Vill.: Lumshnong, Khaliéhriat, 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

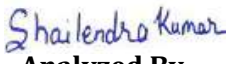
ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 CERTIFIED COMPANY.

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

	STAR CEMENT LIMITED 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/2026-27/05			Month : August'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 ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
08-08-2026	42.35	22.61	18.10	15.96
25-08-2026	35.58	19.23	15.67	11.72
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)
Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.				
 Analysed by  Checked By  Verified By				

	STAR CEMENT 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/2026-27/05			Month : August'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)
08-08-2026	44.86	23.42	19.78	13.37
25-08-2026	37.41	18.79	14.40	10.53
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)
Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.				
 Analysed by  Checked By  Verified By				

	STAR CEMENT LIMITED DABA SAIITHAD 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/2026-27/05			Month : August'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.
Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
08-08-2026	45.18	23.28	17.02	12.95
25-08-2026	38.20	18.93	15.21	12.02
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)
Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.				
 Analysed by		 Checked By		 Verified By

 STAR CEMENT Solid Setting	STAR CEMENT LIMITED Lumshnong, Meghalaya		Reference No.	SCL/Env/F – 07 (a)
			Issue No.	1
			Date of Issue:	01.12.2018
	FUGITIVE EMISSION REPORT		Revision No.	2
Date of Rev.			01.12.2020	
Ref: SCL/ENV/FUGITIVE/MONTHLY/2026-27/05				
DABA SAIITHAD LIMESTONE MINE (MLA 25 Ha)				
Month - August'26				
Date	Location	Fugitive Emission Results (in $\mu\text{g}/\text{m}^3$)	As per CPCB/BIS Guideline	
			Limit (in $\mu\text{g}/\text{m}^3$)	
25.08.2026	Near Drilling Point	1361	5000	
25.08.2026	Near Lime Stone loading area	1305	5000	
Remarks				
 Analyzed By  Checked By  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
	NOISE LEVEL MONITORING REPORT			Revision Date	

Ref: SCL/ENV/NOISE/MONTHLY/2026-27/05			Date:- 25.08.2026		
DABA SAIITHAD LIMESTONE MINE (MLA 25 Ha.)					
Month -August'26					
S. No.	Location	Measured Values dB(A) Day time (6:00am to 10:00pm)			Norms In dB(A)
		Min.	Max.	Avg.	
1	Excavator				75
	A) Operator Cabin (Door Open)				
	a) At Low engine RPM	59.7	66.6	63.2	
	b) At High engine RPM	65.0	70.1	67.6	
	B) Operator Cabin(Door Close)				
	a) At Low engine RPM	56.9	63.4	60.2	
	b) At High engine RPM	60.2	66.2	63.2	
	C) Periphery of the Engine				
	a) At 1 mtr. Distance(At low RPM)	62.0	69.6	65.8	
	b) At 1 mtr. Distance (At high RPM)	65.6	72.2	68.9	
	c) At 5 mtr. Distance (At low RPM)	59.5	66.0	62.8	
	d) At 5 mtr. Distance (At high RPM)	64.8	70.1	67.5	
	D) Behind the Engine				
	a) At 1 mtr. Distance(At low RPM)	60.5	69.5	65.0	
	b) At 1 mtr. Distance (At high RPM)	65.0	72.9	69.0	
	c) At 5 mtr. Distance (At low RPM)	57.8	67.7	62.8	
d) At 5 mtr. Distance (At high RPM)	63.2	70.5	66.9		
2	Rock Breaker				75
	A) Operator Cabin				
	a) At Low engine RPM	57.9	66.9	62.4	
	b) At High engine RPM	65.4	70.0	67.7	
	B) Rock Breaker Point (At 5 mtr. Distance)				
	a) Left Side	58.6	69.3	64.0	
	b) Right Side	60.9	70.1	65.5	
	c) Front Side	61.5	68.6	65.1	
3	Drill Machine				75
	A) Compressor				
	a) At 1 mtr. Distance	66.9	70.3	68.6	
	b) At 5 mtr. Distance	64.6	68.0	66.3	
	B) Drilling Point (At 5 mtr. Distance)				
	a) Left Side	62.8	69.4	66.1	
	b) Right Side	64.3	69.8	67.1	
	c) Front Side	64.7	68.3	66.5	

 Analyzed by	 Checked By	 Verified by
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	STAR CEMENT LIMITED DABA SAIITHAD 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/2026-27/05 Date:- 25.08.2026					
DABA SAIITHAD LIMESTONE MINE (MLA 25 Ha.)					
Month -August'26					
S. No.	Location	Measured Values dB(A) Day time (6:00am to 10:00pm)			Norms In dB(A)
		Min.	Max.	Avg.	
4	Dozer				75
	A) Operator Cabin				
	a) At Low engine RPM	61.2	67.3	64.3	
	b) At High engine RPM	66.2	71.2	68.7	
	B) Periphery of the Engine				
	a) At 1 mtr. Distance(At low RPM)	65.6	69.9	67.8	
	b) At 1 mtr. Distance (At high RPM)	66.5	72.5	69.5	
	c) At 5 mtr. Distance (At low RPM)	61.9	67.5	64.7	
	d) At 5 mtr. Distance (At high RPM)	65.8	70.3	68.1	
	c) Behind the Engine				
	a) At 1 mtr. Distance(At low RPM)	65.9	69.7	67.8	
	b) At 1 mtr. Distance (At high RPM)	67.1	71.8	69.5	
5	Dumper				75
	A) Empty Dumper				
	a) Open Window	64.9	69.3	67.1	
	b) Close Window	60.6	65.6	63.1	
	B) Loaded Dumper				
	a) Open Window	65.6	69.8	67.7	
6	Village				55
	A) Lumshnong	36.9	42.5	39.7	
	B) Umstain	38.1	42.6	40.4	
 Analysed By  Checked By  Verified by					

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

Date : 12/09/2026

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-260819/11

Sample Source : Daba Saitthad Limestone Mine 25 Ha

Sample Type : Surface Water

Collected On : 19-08-2026

Received On : 22-08-2026

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	10	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.9	-	-
4.	pH Value	6.76	6.5 - 8.5	No Relaxation
5.	Suspended Solids	46	-	-
6.	Total Dissolved Solids, mg/l, Max.	132	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	240	-	-
8.	Dissolved Oxygen, mg/l, Min.	5.8	-	-
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.	53	200	600
14.	Calcium (as Ca), mg/l, Max.	18	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



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/FR-32

Date : 12/09/2026

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	13.08.2026	38.7

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

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

Date : 12/09/2026

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-260819/12

Sample Source : Lubha River (Upstream)

Sample Type : Surface Water

Collected On : 19-08-2026

Received On : 22-08-2026

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	13	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.9	-	-
4.	pH Value	6.75	6.5 - 8.5	No Relaxation
5.	Suspended Solids	66	-	-
6.	Total Dissolved Solids, mg/l, Max.	141	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	256	-	-
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.	62	200	600
14.	Calcium (as Ca), mg/l, Max.	20	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



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

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Report No.: ENV/SCL/ML/26-27/FR-33

Date : 12/09/2026

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)	13.08.2026	50.2

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

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Report No.: ENV/SCI/ML/26-27/SW-34

Date : 12/09/2026

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-260819/13

Sample Source : Lubha River (Downstream)

Sample Type : Surface Water

Collected On : 19-08-2026

Received On : 22-08-2026

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	14	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.9	-	-
4.	pH Value	6.77	6.5 - 8.5	No Relaxation
5.	Suspended Solids	72	-	-
6.	Total Dissolved Solids, mg/l, Max.	150	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	273	-	-
8.	Dissolved Oxygen, mg/l, Min.	6.0	-	-
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.	79	200	600
14.	Calcium (as Ca), mg/l, Max.	25	75	200
15.	Magnesium (as Mg), mg/l, Max.	4	30	100
16.	Iron (as Fe), mg/l, Max.	0.04	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	<0.1	-	-
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as NH_3), mg/l, Max.	<0.01	-	-

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025

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

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

Report No.: ENV/SCL/ML/26-27/FR-34

Date : 12/09/2026

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)	14.08.2026	59.3

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

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

Date : 12/09/2026

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-260819/14

Sample Source : Seshympa River (Upstream)

Sample Type : Surface Water

Collected On : 19-08-2026

Received On : 22-08-2026

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	8	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.9	-	-
4.	pH Value	6.72	6.5 - 8.5	No Relaxation
5.	Suspended Solids	62	-	-
6.	Total Dissolved Solids, mg/l, Max.	149	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	271	-	-
8.	Dissolved Oxygen, mg/l, Min.	6.1	-	-
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.	61	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.	0.05	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-35

Date : 12/09/2026

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)	14.08.2026	55.8

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

NOTE:

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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/SW-36

Date : 12/09/2026

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-260819/15

Sample Source : Seshympa River (Downstream)

Sample Type : Surface Water

Collected On : 19-08-2026

Received On : 22-08-2026

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	11	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.9	-	-
4.	pH Value	6.76	6.5 - 8.5	No Relaxation
5.	Suspended Solids	65	-	-
6.	Total Dissolved Solids, mg/l, Max.	156	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	284	-	-
8.	Dissolved Oxygen, mg/l, Min.	5.7	-	-
9.	Biochemical Oxygen Demand, mg/l, Max.	<1.0	-	-
10.	Chemical Oxygen Demand, mg/l, Max.	21	-	-
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.	85	200	600
14.	Calcium (as Ca), mg/l, Max.	26	75	200
15.	Magnesium (as Mg), mg/l, Max.	5	30	100
16.	Iron (as Fe), mg/l, Max.	0.06	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	<0.1	-	-
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as NH_3), mg/l, Max.	<0.01	-	-

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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

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Report No.: ENV/SCL/ML/26-27/FR-36

Date : 12/09/2026

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)	14.08.2026	60.2

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

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Report No.: ENV/SCL/ML/26-27/SW-37

Date : 12/09/2026

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-260819/16

Sample Source : Umtyrngai Nala (Upstream)

Sample Type : Surface Water

Collected On : 19-08-2026

Received On : 22-08-2026

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	12	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.9	-	-
4.	pH Value	6.75	6.5 - 8.5	No Relaxation
5.	Suspended Solids	61	-	-
6.	Total Dissolved Solids, mg/l, Max.	157	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	285	-	-
8.	Dissolved Oxygen, mg/l, Min.	5.7	-	-
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.	66	200	600
14.	Calcium (as Ca), mg/l, Max.	23	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

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

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Report No.: ENV/SCL/ML/26-27/FR-37

Date : 12/09/2026

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)	14.08.2026	49.8

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

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Report No.: ENV/SCL/ML/26-27/SW-38

Date : 12/09/2026

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-260819/17

Sample Source : Umtyrnga Nala (Downstream)

Sample Type : Surface Water

Collected On : 19-08-2026

Received On : 22-08-2026

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	15	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.9	-	-
4.	pH Value	6.78	6.5 - 8.5	No Relaxation
5.	Suspended Solids	66	-	-
6.	Total Dissolved Solids, mg/l, Max.	163	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	296	-	-
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.	88	200	600
14.	Calcium (as Ca), mg/l, Max.	27	75	200
15.	Magnesium (as Mg), mg/l, Max.	5	30	100
16.	Iron (as Fe), mg/l, Max.	0.03	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	<0.1	-	-
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as NH_3), mg/l, Max.	<0.01	-	-

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025

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

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Report No.: ENV/SCL/ML/26-27/FR-38

Date : 12/09/2026

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)	17.08.2026	53.4

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Report No.: ENV/SCL/ML/26-27/SW-39

Date : 12/09/2026

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-260819/18

Sample Source : Ummutha Nala (Upstream)

Sample Type : Surface Water

Collected On : 19-08-2026

Received On : 22-08-2026

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	12	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.9	-	-
4.	pH Value	6.74	6.5 - 8.5	No Relaxation
5.	Suspended Solids	58	-	-
6.	Total Dissolved Solids, mg/l, Max.	162	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	295	-	-
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.	60	200	600
14.	Calcium (as Ca), mg/l, Max.	19	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



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

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Report No.: ENV/SCL/ML/26-27/FR-39

Date : 12/09/2026

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)	17.08.2026	46.9

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

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Report No.: ENV/SCL/ML/26-27/SW-40

Date : 12/09/2026

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-260819/19

Sample Source : Ummutha Nala (Downstream)

Sample Type : Surface Water

Collected On : 19-08-2026

Received On : 22-08-2026

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	15	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.9	-	-
4.	pH Value	6.79	6.5 - 8.5	No Relaxation
5.	Suspended Solids	67	-	-
6.	Total Dissolved Solids, mg/l, Max.	174	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	316	-	-
8.	Dissolved Oxygen, mg/l, Min.	6.1	-	-
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.	74	200	600
14.	Calcium (as Ca), mg/l, Max.	23	75	200
15.	Magnesium (as Mg), mg/l, Max.	4	30	100
16.	Iron (as Fe), mg/l, Max.	0.07	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	<0.1	-	-
19.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	<0.1	-	-
20.	Free Ammonia (as NH_3), mg/l, Max.	<0.01	-	-

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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

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Report No.: ENV/SCL/ML/26-27/FR-40

Date : 12/09/2026

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)	17.08.2026	51.2

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

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Report No.: ENV/SCL/ML/26-27/SW-41

Date : 12/09/2026

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-260819/20

Sample Source : Umso Nala (Upstream)

Sample Type : Surface Water

Collected On : 19-08-2026

Received On : 22-08-2026

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	11	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.9	-	-
4.	pH Value	6.77	6.5 - 8.5	No Relaxation
5.	Suspended Solids	63	-	-
6.	Total Dissolved Solids, mg/l, Max.	166	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	302	-	-
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.	0.02	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-41

Date : 12/09/2026

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)	17.08.2026	38.7



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

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Report No.: ENV/SCL/ML/26-27/SW-42

Date : 12/09/2026

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-260819/21

Sample Source : Umso Nala (Downstream)

Sample Type : Surface Water

Collected On : 19-08-2026

Received On : 22-08-2026

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	14	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.9	-	-
4.	pH Value	6.79	6.5 - 8.5	No Relaxation
5.	Suspended Solids	71	-	-
6.	Total Dissolved Solids, mg/l, Max.	179	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	325	-	-
8.	Dissolved Oxygen, mg/l, Min.	6.1	-	-
9.	Biochemical Oxygen Demand, mg/l, Max.	<1.0	-	-
10.	Chemical Oxygen Demand, mg/l, Max.	22	-	-
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.	80	200	600
14.	Calcium (as Ca), mg/l, Max.	24	75	200
15.	Magnesium (as Mg), mg/l, Max.	5	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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2. Results refer only to the particular parameters tested.
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Report No.: ENV/SCL/ML/26-27/FR-42

Date : 12/09/2026

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)	17.08.2026	40.2

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

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