

No: GSCL/EHS/2024-25/112

Dated: 08.03.2025

To,  
The Member Secretary,  
Meghalaya State Pollution Control Board,  
Arden, Lumpynggad,  
Shillong, Meghalaya - 793014

Sub: Submission of Monthly Environmental Monitoring Reports of the Umtyra Mines.

Dear Sir,

With reference to the above subject, we are herewith submitting monthly environmental monitoring reports for the month of February - 2025.

We request you to acknowledge the receipt.

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Thanking You,

Yours faithfully,  
For Goldstone Cements Limited

Authorized Signatory

Encl: As above



Report No.: ENV/GSCL/24-25/AA-02/02

Date : 07/03/2025

Order No.: FFE/7500005406

Date : 20/06/2024

Report Issued To : **GOLDSTONE CEMENTS LIMITED**

Village- Musiang Lamare (Old), P. O.: Khliehriat, Meghalaya- 793200

**AMBIENT AIR QUALITY TEST RESULTS**

Sl. No.	LOCATION(S) ↓	Date of Sampling	PM 2.5 ( $\mu\text{g}/\text{m}^3$ )	PM 10 ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )
	LIMIT(S) →	---	60	100	80	80
01	Near Umtyra Mines Office	24.02.2025	51.6	86.2	7.6	10.4
02	Nearby Pillar 7	24.02.2025	53.8	89.2	<5.0	<6.0
03	Nearby Pillar 31B	24.02.2025	55.9	91.4	<5.0	<6.0
04	Nearby Pillar 20	24.02.2025	52.4	85.3	<5.0	<6.0

Analysis Protocol: IS 5182

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.

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**NOISE LEVEL MEASUREMENT RESULTS**

Sl. No.	Location(s)	Date Of Measurement	Day time		Night Time	
			Leq (dB-A)	Limit (dB-A)	Leq (dB-A)	Limit (dB-A)
1	Near Umtyra Mines Office	24.02.2025	61.7	75	50.5	70
2	Near Umtyra Mines unloading Point	24.02.2025	63.1	75	52.7	70
3	Near Umtyra Mines Loading Point	24.02.2025	66.2	75	59.4	70
4	Near Umtyra Mines Haul Road	24.02.2025	64.6	75	62.1	70

**Note:** The results reported above are the instantaneous recorded data of sound level.Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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### FUGITIVE EMISSION TEST RESULTS

Sl. No.	Location	Date of Sampling	SPM ( $\mu\text{g}/\text{m}^3$ )	Limit ( $\mu\text{g}/\text{m}^3$ )
1.	Near Loading Area Umtyra Mines	24.02.2025	3956	5000

Analysis Protocol: IS 5182



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Report No.: ENV/GSCL/24-25/SW-02/03

Date : 07/03/2025

Order No.: FFE/7500005406

Date : 20/06/2024

Report Issued To : **GOLDSTONE CEMENTS LIMITED**

Village- Musiang Lamare (Old), P. O.: Khliehriat, Meghalaya- 793200

**SURFACE WATER ANALYSIS RESULTS**

Sample Ref. No. : GSCL/2025/SW-2302/03

Sample Source : Mines Nala Upstream

Sample Type : Surface Water

Collected On : 23-02-2025

Received On : 26-02-2025

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Limits (IS 10500:2012)
1.	Colour, Hazen Units, Max.	18	5
2.	Odour	Agreeable	Agreeable
3.	Temperature	25.3	--
4.	pH Value	6.77	6.5 - 8.5
5.	Suspended Solids	44	--
6.	Total Dissolved Solids, mg/l, Max.	152	500
7.	Conductivity, $\mu\text{S}/\text{cm}$	255	--
8.	Dissolved Oxygen, mg/l, Min.	6.8	--
9.	Biochemical Oxygen Demand, mg/l, Max.	11.7	--
10.	Chemical Oxygen Demand, mg/l, Max.	46	--
11.	Oil and Grease, mg/l, Max.	<4.0	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2
13.	Total Hardness (as $\text{CaCO}_3$ ), mg/l, Max.	30	200
14.	Calcium (as Ca), mg/l, Max.	17	75
15.	Magnesium (as Mg), mg/l, Max.	<1.0	30
16.	Iron (as Fe), mg/l, Max.	0.072	0.3
17.	Ammonical Nitrogen (as N), mg/l, Max.	5.8	--
18.	Total Kjeldahl Nitrogen (as $\text{NH}_3$ ), mg/l, Max.	40	--
19.	Free Ammonia (as $\text{NH}_3$ ), mg/l, Max.	<0.01	--

Analysis Protocol: IS 3025

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

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Report No.: ENV/GSCL/24-25/SW-02/04

Date : 07/03/2025

Order No.: FFE/7500005406

Date : 20/06/2024

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Village- Musiang Lamare (Old), P. O:- Khliehriat, Meghalaya- 793200

**SURFACE WATER ANALYSIS RESULTS**

Sample Ref. No. : GSCL/2025/SW-2302/04

Sample Source : Mines Nala Downstream

Sample Type : Surface Water

Collected On : 23-02-2025

Received On : 26-02-2025

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Limits (IS 10500:2012)
1.	Colour, Hazen Units, Max.	14	5
2.	Odour	Agreeable	Agreeable
3.	Temperature	25.3	--
4.	pH Value	6.75	6.5 - 8.5
5.	Suspended Solids	34	--
6.	Total Dissolved Solids, mg/l, Max.	137	500
7.	Conductivity, $\mu\text{S}/\text{cm}$	236	--
8.	Dissolved Oxygen, mg/l, Min.	6.9	--
9.	Biochemical Oxygen Demand, mg/l, Max.	8.9	--
10.	Chemical Oxygen Demand, mg/l, Max.	59	--
11.	Oil and Grease, mg/l, Max.	<4.0	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2
13.	Total Hardness (as $\text{CaCO}_3$ ), mg/l, Max.	36	200
14.	Calcium (as Ca), mg/l, Max.	19	75
15.	Magnesium (as Mg), mg/l, Max.	<1.0	30
16.	Iron (as Fe), mg/l, Max.	0.052	0.3
17.	Ammonical Nitrogen (as N), mg/l, Max.	6.2	--
18.	Total Kjeldahl Nitrogen (as $\text{NH}_3$ ), mg/l, Max.	33.4	--
19.	Free Ammonia (as $\text{NH}_3$ ), mg/l, Max.	<0.01	--

Analysis Protocol: IS 3025

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

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**DRINKING WATER ANALYSIS RESULTS**

Sample Ref. No. : GSCL/2025/DW-2302/02

Sample Source : Mines Office

Sample Type : Drinking Water

Collected On : 23-02-2025

Received On : 26-02-2025

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour , Hazen Units, Max	3	5	15
2.	Odour	Odourless	Agreeable	Agreeable
3.	Taste	Acceptable	Agreeable	Agreeable
4.	Turbidity, NTU, Max	0.05	1	5
5.	Ph	6.84	6.5 – 8.5	No Relaxation
6.	Total Dissolved Solids, mg/l, Max	58	500	2000
7.	Aluminium (as Al), mg/l, Max.	<0.001	0.03	0.2
8.	Boron (as B), mg/l, Max.	<0.001	0.5	1.0
9.	Calcium (as Ca), mg/l, Max	13	75	200
10.	Chloride (as Cl), mg/l, Max	3.4	250	1000
11.	Copper (as Cu), mg/l, Max	<0.001	0.05	1.5
12.	Fluorides (as F), mg/l, Max	<0.1	1.0	1.5
13.	Free Residual Chlorine, mg/l, Min	<0.01	0.2	1
14.	Iron (as Fe), mg/l, Max	0.04	0.3	No Relaxation
15.	Magnesium (as Mg), mg/l, Max	2	30	100
16.	Manganese (as Mn), mg/l, Max	<0.001	0.1	0.3
17.	Zinc (as Zn), mg/l, Max	<0.01	5.0	15
18.	Nitrate (as NO <sub>3</sub> ), mg/l, Max	<0.1	45	No Relaxation
19.	Sulfate (as SO <sub>4</sub> ), mg/l, Max	<1.0	200	400
20.	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH), mg/l, Max.	<0.001	0.001	0.002
				--Continued--

\*Limits as per IS 10500:2012

Analysis Protocol: IS 3025

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

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Village- Musiang Lamare (Old), P. O.: Khliehriat, Meghalaya- 793200

**DRINKING WATER ANALYSIS RESULTS**

Sample Ref. No. : GSCL/2025/DW-2302/02

Sample Source : Mines Office

Sample Type : Drinking Water

Collected On : 23-02-2025

Received On : 26-02-2025

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
21.	Total Alkalinity(as CaCO <sub>3</sub> ) , mg/l, Max	41	200	600
22.	Total Hardness, (as CaCO <sub>3</sub> ), mg/l, Max	8.3	200	600
23.	Cadmium (as Cd), mg/l, Max.	<0.001	0.003	No Relaxation
24.	Cyanide (as CN), mg/l, Max.	<0.001	0.05	No Relaxation
25.	Lead (as Pb), mg/l, Max.	<0.001	0.01	No Relaxation
26.	Mercury (as Hg), mg/l, Max.	<0.001	0.001	No Relaxation
27.	Selenium (as Se), mg/l, Max.	<0.001	0.01	No Relaxation
28.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
29.	Anionic Detergents (as MBAS), mg/l	<0.001	0.2	1.0
30.	Total Arsenic (as As), mg/l, Max	<0.001	0.01	0.05
31.	Molybdenum (as Mo), mg/l, Max	<0.001	0.07	No Relaxation
32.	Faecal Coliforms/ 100 ml	Absent	Absent	Absent
33.	E. Coli / 100 ml	Absent	Absent	Absent
				--End of Report--

\*Limits as per IS 10500:2012

Analysis Protocol: IS 3025

**Remarks:** Drinking water from the above source is fit for drinking.Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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