

Goldstone Cements Limited

CIN:U26940ML2007PLC008298

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No: GSCL/EHS/2024-25/105

Dated: 11.01.2025

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 December - 2024.

We request you to acknowledge the receipt.

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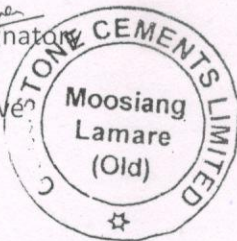
Thanking You,

Yours faithfully.

For Goldstone Cements Limited

Authorized Signatory

Encl: As above



STATE OFFICE

2nd Corporate Park, Block GP-G2, Tower-1,
1908, 1909, 19th Floor, Salt Lake, Sector-V,
1, (W.B) - 700 091, Ph. No. +91-33-40916900

**BLACK
TIGER**

SALES & MARKETING OFFICE

2nd Floor, Unit - 1, Sethi Trust Building
Opp. Roodraksh Mall, Bhanagarh
Guwahati - 781 005, Assam

Report No.: ENV/GSCL/24-25/AA-12/02

Date : 07/01/2025

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 ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
	LIMIT(S) →	---	60	100	80	80
01	Near Umtyra Mines Office	26.12.2024	37.3	65.6	<5.0	<6.0
02	Nearby Pillar 7	26.12.2024	41.7	67.9	<5.0	<6.0
03	Nearby Pillar 31B	26.12.2024	36.5	63.3	<5.0	<6.0
04	Nearby Pillar 20	26.12.2024	37.4	66.2	<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	26.12.2024	63.1	75	53.7	70
2	Near Umtyra Mines unloading Point	26.12.2024	65.4	75	56.9	70
3	Near Umtyra Mines Loading Point	26.12.2024	67.5	75	62.8	70
4	Near Umtyra Mines Haul Road	26.12.2024	69.6	75	63.5	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	26.12.2024	1284	5000

Analysis Protocol: IS 5182

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Report No.: ENV/GSCL/24-25/SW-12/03
Date : 07/01/2025

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/2024/SW-2612/03
Collected On : 26-12-2024

Sample Source : Mines Nala Upstream
Received On : 29-12-2024

Sample Type : Surface Water
Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Limits (IS 10500:2012)
1.	Colour, Hazen Units, Max.	16	5
2.	Odour	Agreeable	Agreeable
3.	Temperature	25.2	--
4.	pH Value	6.79	6.5 - 8.5
5.	Suspended Solids	46	--
6.	Total Dissolved Solids, mg/l, Max.	150	500
7.	Conductivity, $\mu\text{S}/\text{cm}$	253	--
8.	Dissolved Oxygen, mg/l, Min.	6.8	--
9.	Biochemical Oxygen Demand, mg/l, Max.	11.9	--
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 CaCO_3), mg/l, Max.	8.4	200
14.	Calcium (as Ca), mg/l, Max.	29	75
15.	Magnesium (as Mg), mg/l, Max.	<1	30
16.	Iron (as Fe), mg/l, Max.	0.075	0.3
17.	Ammonical Nitrogen (as N), mg/l, Max.	5.8	--
18.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	39	--
19.	Free Ammonia (as 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-12/04
Date : 07/01/2025

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/2024/SW-2612/04
Collected On : 26-12-2024

Sample Source : Mines Nala Downstream
Received On : 29-12-2024

Sample Type : Surface Water
Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Limits (IS 10500:2012)
1.	Colour, Hazen Units, Max.	13	5
2.	Odour	Agreeable	Agreeable
3.	Temperature	25.2	--
4.	pH Value	6.74	6.5 - 8.5
5.	Suspended Solids	38	--
6.	Total Dissolved Solids, mg/l, Max.	139	500
7.	Conductivity, $\mu\text{S}/\text{cm}$	235	--
8.	Dissolved Oxygen, mg/l, Min.	6.7	--
9.	Biochemical Oxygen Demand, mg/l, Max.	9.2	--
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 CaCO_3), mg/l, Max.	8.7	200
14.	Calcium (as Ca), mg/l, Max.	14	75
15.	Magnesium (as Mg), mg/l, Max.	<1	30
16.	Iron (as Fe), mg/l, Max.	0.055	0.3
17.	Ammonical Nitrogen (as N), mg/l, Max.	6.5	--
18.	Total Kjeldahl Nitrogen (as NH_3), mg/l, Max.	34.9	--
19.	Free Ammonia (as NH_3), mg/l, Max.	<0.01	--

Analysis Protocol: IS 3025



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

DRINKING WATER ANALYSIS RESULTS

Sample Ref. No. : GSCL/2024/DW-2612/02

Sample Source : Mines Office

Sample Type : Drinking Water

Collected On : 26-12-2024

Received On : 29-12-2024

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour , Hazen Units, Max	2	5	15
2.	Odour	Odourless	Agreeable	Agreeable
3.	Taste	Acceptable	Agreeable	Agreeable
4.	Turbidity, NTU, Max	0.07	1	5
5.	pH	6.85	6.5 – 8.5	No Relaxation
6.	Total Dissolved Solids, mg/l, Max	61	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	3.7	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	0.03	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 ₃), mg/l, Max	<0.1	45	No Relaxation
19.	Sulfate (as SO ₄), mg/l, Max	<1.0	200	400
20.	Phenolic Compounds (as C ₆ H ₅ 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/2024/DW-2612/02

Sample Source : Mines Office

Sample Type : Drinking Water

Collected On : 26-12-2024

Received On : 29-12-2024

Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
21.	Total Alkalinity(as CaCO_3) , mg/l, Max	44	200	600
22.	Total Hardness, (as CaCO_3), mg/l, Max	8.4	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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