No: GSCL/EHS/2024-25/95

Dated: 09.11.2024

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

Sub: Submission of Monthly Environmental Monitoring Reports

Dear Sir,

With reference to the above subject, we are herewith submitting monthly environmental monitoring reports of Umtyra Mines for the month of October- 2024.

We request you to acknowledge the receipt.

Thanking You,

Yours faithfully.
For Goldstone Cements Limited

Authorized Signatory

Encl: As above

& pendrary







ISO 9001:2015 Certified ISO 45001:2018 Certified

E-mail: envirocon@rediffmail.com

Report No.: ENV/GSCL/24-25/AA-10/02 Order No.: FFE/7500005406

Date : 07/11/2024 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 (μg/m³)	PM 10 (μg/m³)	SO ₂ (μg/m³)	NO ₂ (μg/m³)
	LIMIT(S) →		60	100	80	80
01	Near Umtyra Mines Office	25.10.2024	33.6	60.8	<5.0	<6.0
02	Nearby Pillar 7	25.10.2024	37.8	63.7	<5.0	<6.0
03	Nearby Pillar 31B	25.10.2024	31.9	58.7	<5.0	<6.0
04	Nearby Pillar 20	25.10.2024	32.8	61.3	<5.0	<6.0

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

- 2. Results refer only to the particular parameters tested.
- $3.\ This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi 786171, Assam.$



Report No.: ENV/GSCL/24-25/N-10/02

Envirocon Building, I.O.C.L (AOD) New Market P.O.: Digboi, Dist.: Tinsukia, Assam – 786 171 Ph: 03751-264414, 9435008657, 8876028672 E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified ISO 45001:2018 Certified

Order No.: FFE/7500005406

Date : 07/11/2024

Date : 20/06/2024

Report Issued To: GOLDSTONE CEMENTS LIMITED

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

NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Date	Day time		Night Time	
		Of Measurement	L _{eq} (dB-A)	Limit (dB-A)	L _{eq} (dB-A)	Limit (dB-A)
1	Near Umtyra Mines Office	25.10.2024	63.7	75	53.4	70
2	Near Umtyra Mines unloading Point	25.10.2024	65.8	75	56.5	70
3	Near Umtyra Mines Loading Point	25.10.2024	67.1	75	62.4	70
4	Near Umtyra Mines Haul Road	25.10.2024	69.2	75	65.1	70

Note: The results reported above are the instantaneous recorded data of sound level.



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE: 1. Results reported are valid at the time of and under the prevailing conditions of measurement.

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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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FUGITIVE EMISSION TEST RESULTS

Sl. No.	Location	Date of Sampling	SPM (μg/m³)	Limit (μg/m³)
1.	Near Loading Area Umtyra Mines	25.10.2024	1694	5000

Analysis Protocol: IS 5182



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Report No.: ENV/GSCL/24-25/SW-10/03

Date : 07/11/2024

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-2510/03 Sample Source : Mines Nala Upstream Sample Type : Surface Water

Collected On : 25-10-2024 Received On : 28-10-2024 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	24.6	
4.	pH Value	6.76	6.5 - 8.5
5.	Suspended Solids	43	
6.	Total Dissolved Solids, mg/l, Max.	146	500
7.	Conductivity, µS/cm	248	
8.	Dissolved Oxygen, mg/l, Min.	6.8	
9.	Biochemical Oxygen Demand, mg/l, Max.	11.6	
10.	Chemical Oxygen Demand, mg/l, Max.	42	
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.	8.9	200
14.	Calcium (as Ca), mg/l, Max.	25	75
15.	Magnesium (as Mg), mg/l, Max.	<1	30
16.	Iron (as Fe), mg/l, Max.	0.071	0.3
17.	Ammonical Nitrogen (as N), mg/l, Max.	5.8	
18.	Total Kjeldahl Nitrogen (as NH3), mg/l, Max.	36	
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-10/04

Date : 07/11/2024

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-2510/04 Sample Source : Mines Nala Downstream Sample Type : Surface Water

Collected On : 25-10-2024 Received On : 28-10-2024 Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Limits (IS 10500:2012)
1.	Colour, Hazen Units, Max.	11	5
2.	Odour	Agreeable	Agreeable
3.	Temperature	24.6	
4.	pH Value	6.71	6.5 - 8.5
5.	Suspended Solids	35	
6.	Total Dissolved Solids, mg/l, Max.	134	500
7.	Conductivity, µS/cm	234	
8.	Dissolved Oxygen, mg/l, Min.	6.7	
9.	Biochemical Oxygen Demand, mg/l, Max.	8.9	
10.	Chemical Oxygen Demand, mg/l, Max.	56	
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.	8.3	200
14.	Calcium (as Ca), mg/l, Max.	12	75
15.	Magnesium (as Mg), mg/l, Max.	<1	30
16.	Iron (as Fe), mg/l, Max.	0.051	0.3
17.	Ammonical Nitrogen (as N), mg/l, Max.	6.1	
18.	Total Kjeldahl Nitrogen (as NH ₃), mg/l, Max.	34.5	
19.	Free Ammonia (as NH ₃), mg/l, Max.	<0.01	

Analysis Protocol: IS 3025



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: 20/06/2024

Date

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Date : 07/11/2024

Report Issued To:

GOLDSTONE CEMENTS LIMITED

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

DRINKING WATER ANALYSIS RESULTS

Sample Ref. No.: GSCL/2024/DW-2510/02 Sample Source :Mines Ofice Sample Type : Drinking Water

Collected On : 25-10-2024 Received On : 28-10-2024 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	0.19	1	5
5.	Ph	6.83	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	3.9	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	0.014	0.3	No Relaxation
15.	Magnesium (as Mg), mg/l, Max	4	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



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Report Issued To: GOLDSTONE CEMENTS LIMITED

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

DRINKING WATER ANALYSIS RESULTS

Sample Ref. No.: GSCL/2024/DW-2510/02 Sample Source :Mines Ofice Sample Type : Drinking Water

Collected On : 25-10-2024 Received On : 28-10-2024 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	49	200	600
22.	Total Hardness, (as CaCO ₃), mg/l, Max	8.1	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.



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