

CSIR-INSTITUTE OF MINERALS & MATERIALS TECHNOLOGY.



(A Govt. of India Autonomous Body) **Environmental Chemical Laboratory**

Bhubaneswar, Odisha TEST REPORT

Issued to: Customer name to be decoded	Date :16.01.2023
Test report No -NABL/ECL/12125	
Source of Sample : Source to be decoded	Sample receiving Date: 14.12.2022

SI No	Characteristics	Test Method (P)of IS:3025	Requirements as p	Test Result	
			Acceptable limit	Permissible Limit	
1.	Turbidity, NTU	Part 10	1	5	0.10
2.	pH@Temp° C	Part 11	6.5-8.5	No relaxation	7.99@25.0
3.	Total Dissolved Solids mg/L	Part 16	500	2000	66.0
4.	Total Hardness (as CaCO ₃),mg/L	Part 21	200	600	20.0
5.	Calcium as Ca, mg/L	Part 40	75	200	6.81
6.	Magnesium as Mg, mg/L	Part 46	30	100	0.97
7.	Alkalinity as CaCO ₃ , mg/L	Part 23	200	600	16.0
8.	Chloride as Cl, mg/L	Part 32	250	1000	17.0
9.	Sulfate as SO ₄ , mg/L	Part 24	200	400	1.47
10.	Fluoride as F, mg/L	Part 60	1.0	1.5	0.03
11.	Iron as Fe, mg/L	Part 53	0.3	No relaxation	0.368
12.	Copper as Cu, mg/L	Part 42	0.05	1.5	0.001
13.	Manganese as Mn, mg/L	APHA(PART 3111B)	0.1	0.3	0.025
14.	Zinc as Zn, mg/L	Part 49	5.0	15.0	0.300
15.	Lead as Pb, mg/L	Part 47	0.01	No relaxation	<0.001
16.	Cadmium as Cd, mg/L	Part 41	0.003	No relaxation	<0.001
17.	Chromium as Cr, mg/L	Part 52	0.05	No relaxation	0.029
18.	Nickel as Ni, mg/l	Part 54	0.02	No relaxation	0.040

Authorized Signatory

Dr. Arakshita Majhi

र्भा २ देश अरक्षित माझि/Dr. Arakshita Majhi प्रधान वैज्ञानिक/Principal Scientist पर्यावरण एवं सम्पोषण विभाग १ Sustainability Dept.

Principal Scientist Phone: 0674-2379236, E mail - arakshita@immt.res.in

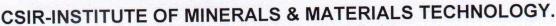
Environment & Sustainability Dept. सीएसआईआर-खनिज एवं पदार्थ प्रद्यौगिकी संस्थान CSIR-Institute of Minerals & Materials Technology

NOTES:

- 1. The sample is drawn by the client& result relates to the sample tested.
- 2. This certificate shall not be reproduced wholly or in part without prior written consent of the laboratory.
- 3. This certificate shall not be used in any advertising media or as evidence in the court of Law without prior written consent of laboratory.
- 4. Latest version of test methods used as per latest specification.
- 5. It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned in "acceptable limit" render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicate under "permissible limit" in the absence of alternative sources, above which the source will have to be rejected.

Non NABL Test report - P.T.O

'End of Test Report'



(A Govt. of India Autonomous Body) **Environmental Chemical Laboratory**

> Bhubaneswar, Odisha TEST REPORT

Date: 16.01.2023 Customer name to be decoded Issued to: Test report No -NABL/ECL/12125 14.12.2022 Sample receiving Date: Source to be decoded Source of Sample: 14.12.2022 Sample Analysis Date: Type of Sample: Drinking water 15 *Color, Hazen units 19. Part 4 Agreeable Agreeable Agreeable *Odour Part 5 20. 91 21. *Conductivity, µs/cm Part 14 0.1 *Total Suspended Solid, mg/l Part 17 22. 0.074 Part 34 23. *Nitrite as NO2,mg/L 1.698 No relaxation 45 *Nitrate as NO3, mg/L Part 34 24. 9.62 Part 45 25. Sodium, mg/l 0.52 Potassium, mg/l Part 45 26. BDL 1.0 0.2 Residual Free Chlorine, mg/l Part 26 27. 0.002 No relaxation 0.01 Part 37 Arsenic as As, mg/l 28. 6.70 Dissolved Oxygen, mg/l Part 38 29. 0.1 Biological Oxygen Demand, mg/l Part 44 30. BDL Part 58 Chemical Oxygen Demand, mg/l 31. BDL No relaxation 0.5 Oil and Grease, mg/l Part 39 32.

BDL - Below Detection Limit

Authorized Signatory

Dr. Arakshita Majhi

ॉ. अरक्षित् माझि/Dr. Arakshita Majhi प्रधान बैज्ञानिक/Principal Scientist पर्यावरण एवं सम्पोषण विभाग

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Environment & Sustainability Dept.
सीएसआईआर-खनिन एवं पहार्थ महागिको संस्थान

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Latest version of test methods used as per latest specification.

- 5. It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned in "acceptable limit" render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicate under "permissible limit" in the absence of alternative sources, above which the source will have to be rejected.
- 6. Testing parameters which are not set limitation has marked as "-".

'End of Test Report'



CSIR - Institute of Minerals and Materials Technology (Council of Scientific and Industrial Research) Bhubaneswar-751013, Odisha, India **Environmental Biology Laboratory (EBL) Environment & Sustainability Department**

Test Report

Sample code: NABL/EBL12125	Test report Date: 6.1.2023
Test Report No.: <u>ULR-TC81952100000000112/EBL1/23-2</u>	- 13 Teport Bate. 0.1.2023
Source of Somple DOM 4	
Source of Sample: DOH-4	Sample condition: Satisfactory
Date of Sampling (provided by the customer): 14.12.2022	Sample Received on: 14.12.2022
Гуре of Sample: Drinking water	
	Sample analysis started on:
	19.12.2022

Sl. No.	Test/ Parameter	Test Method	Requirements as per IS 10500:2012 (RA 2018)		Test Result with units of	Statement of
		ν	Acceptable limit	Permissible	measurement	Conformity
1.	E.coli by Membrane filtration	IS 15185 RA 2018	Shall not be detect in	Limit No relaxation	Absent per 100 ml	Conformance
2.	Total coliform by MPN	IS 1622 RA 2019	Shall not be detect in	No relaxation	<2 MPN/100mL	Conformance
3.	Fecal coliform by MPN	IS 1622 RA 2019	Shall not be detect in 100ml sample	No relaxation	<2 MPN/100 mL	Conformance

End of test report

Authorized Signatory

uality Manager

Dr. Sony Pandey (Principal Scientist, E&S Department)

> Environmental Biology Lab Lab, E&S Deptt.

Notes:

- 1. The test report relates only to the items tested.
- 2. The sample is drawn by the customer, hence EBL is not responsible for any errors arising out of faulty sample withdrawal, handling or container.
- 3. Sterile containers and aseptic handling of samples during collection and transport is necessary for correct results. EBL is not responsible for mistakes on the part of customers.
- 4. The decision rule is inherent in the standard as the acceptable and permissible limits are pre-

Contact: Head, Environment & Sustainability Department at Tel: 91-674-2379411/2379271/2379242, Mobile: 9437460626/9437290470/9337733311, email: head.es@immt.res.in, Website: www.immt.res.in <u>ULR-TC819521000000000112/EBL1/23-2</u>

Doc No. QR26

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