CSIR-INSTITUTE OF MINERALS & MATERIALS TECHNOLOGY.

(A Govt. of India Autonomous Body)
Environmental Chemical Laboratory
Bhubaneswar, Odisha

TEST REPORT

Sample Code: 2026/NABL/ECL/013	**Date : 20.03.2026**
Test report No –202601ECL012	
Source of Sample : Water Work, NISER	**Sample receiving Date : 17.02.2026**
Type of Sample : Drinking Water	**Sample Analysis Date : 17.02.2026**

Sl No	parameters	Units	Test Method (P)of IS:3025	Requirements as per IS 10500:2012 (Latest Version)		Test Result
				Acceptable limit	Permissible Limit	
1.	Turbidity	NTU	Part 10	1	5	0.85
2.	pH Value (at 25.0° C)	--	Part 11	6.5-8.5	No relaxation	7.65
3.	Total Dissolved Solids	mg/l	Part 16	500	2000	142.0
4.	Total Hardness as $CaCO_3$	mg/l	Part 21	200	600	86.0
5.	Calcium as Ca	mg/l	Part 40	75	200	25.65
6.	Magnesium as Mg	mg/l	Part 46	30	100	5.35
7.	Total Alkalinity as $CaCO_3$	mg/l	Part 23	200	600	88.0
8.	Chloride as Cl	mg/l	Part 32	250	1000	14.0
9.	Sulfate as SO_4	mg/l	Part 24	200	400	19.64
10.	Fluoride as F	mg/l	Part 60	1.0	1.5	0.12
11.	Iron as Fe	mg/l	Part 53	0.3	No relaxation	BDL(LDL 0.1)
12.	Copper as Cu	mg/l	Part 42	0.05	1.5	BDL(LDL 0.1)
13.	Manganese as Mn	mg/l	APHA 3111B	0.1	0.3	BDL(LDL 0.1)
14.	Zinc as Zn	mg/l	Part 49	5.0	15.0	BDL(LDL 0.05)
15.	Lead as Pb	mg/l	Part 47	0.01	No relaxation	BDL(LDL 0.5)
16.	Cadmium as Cd	mg/l	Part 41	0.003	No relaxation	BDL(LDL 0.05)
17.	Chromium as Cr	mg/l	Part 52	0.05	No relaxation	BDL(LDL 0.5)
18.	Nickel as Ni	mg/l	Part 54	0.02	No relaxation	BDL(LDL 0.3)

BDL = Below Detection Limit, LDL = Lower Detection Limit

Reviewed & Authorized by

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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.

'End of Test Report'

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				Acceptable limit	Permissible Limit	
19.	Colour	Hazen units	Part 4	5	15	<5
20.	Odour	--	Part 5	Agreeable	Agreeable	Agreeable
21.	Conductivity	µs/cm	Part 14	-	-	217.0
22.	Total Suspended Solid	mg/l	Part 17	-	-	<1.0
23.	Nitrite as NO_2	mg/l	Part 34	-	-	0.056
24.	Nitrate as NO_3	mg/l	Part 34	45	No relaxation	2.47
25.	Sodium,	mg/l	Part 45	-	-	10.21
26.	Potassium	mg/l	Part 45	-	-	0.77
27.	Residual Free Chlorine	mg/l	Part 26	0.2	1.0	BDL
28.	Arsenic as As	mg/l	Part 37	0.01	No relaxation	BDL
29.	Dissolved Oxygen	mg/l	Part 38	-	-	6.30
30.	Biological Oxygen Demand	mg/l	Part 44	-	-	0.10
31.	Chemical Oxygen Demand	mg/l	Part 58	-	-	BDL
32.	Mineral Oil	mg/l	Part 39	0.5	No relaxation	<0.5

BDL = Below Detection Limit

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