

CSIR-INSTITUTE OF MINERALS & MATERIALS TECHNOLOGY.

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



Sample Code: 2026/NABL/ECL/025

Date : 06.06.2026

Test report No -202604ECL026

Source of Sample : Yamuna hostel, NISER

Sample receiving Date : 29.04.2026

Type of Sample : Drinking Water

Sample Analysis Date : 29.04.2026

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	0.76
2.	pH Value (at 25.0° C)	--	Part 11	6.5-8.5	No relaxation	7.93
3.	Total Dissolved Solids	mg/l	Part 16	500	2000	162.0
4.	Total Hardness as CaCO ₃	mg/l	Part 21	200	600	102.0
5.	Calcium as Ca	mg/l	Part 40	75	200	24.03
6.	Magnesium as Mg	mg/l	Part 46	30	100	10.21
7.	Total Alkalinity as CaCO ₃	mg/l	Part 23	200	600	94.0
8.	Chloride as Cl ⁻	mg/l	Part 32	250	1000	17.0
9.	Sulphate as SO ₄	mg/l	Part 24	200	400	10.6
10.	Fluoride as F	mg/l	Part 60	1.0	1.5	0.23
11.	Iron as Fe	mg/l	Part 53	0.3	No relaxation	0.030
12.	Copper as Cu	mg/l	Part 42	0.05	1.5	0.012
13.	Manganese as Mn	mg/l	APHA 3111B	0.1	0.3	BDL
14.	Zinc as Zn	mg/l	Part 49	5.0	15.0	0.025
15.	Lead as Pb	mg/l	Part 47	0.01	No relaxation	BDL
16.	Cadmium as Cd	mg/l	Part 41	0.003	No relaxation	BDL
17.	Chromium as Cr	mg/l	Part 52	0.05	No relaxation	BDL
18.	Nickel as Ni	mg/l	Part 54	0.02	No relaxation	0.018

BDL = Below Detection Limit, LDL = Lower Detection Limit

Reviewed & Authorized by

Dr. Arakshita Majhi

Senior Principal Scientist

Environmental Chemical Lab (ISO 17025:2017, NABL Lab)

Senior Principal Scientist, Environmental & Sustainability Dept.

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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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TEST REPORT

Sample Code: 2026/NABI/EC1/025

Date : 06.06.2026

Test report No - 202604EC1.026

Source of Sample : Yamuna hostel, NISER

Sample receiving Date : 29.04.2026

Type of Sample : Drinking Water

Sample Analysis Date : 29.04.2026

Sl. No	parameters	Units	Test Method (P) of IS:3025	Requirements as per IS 10500:2012 (Latest Version)		Test Result
				Acceptable limit	Permissible Limit	
19.	Colour	Hazen units	Part 4	5	15	<5
20.	Odour	-	Part 5	Agreeable	Agreeable	Agreeable
21.	Conductivity	μ S/cm	Part 14	-	-	230.0
22.	Total Suspended Solid	mg/l	Part 17	-	-	<1.0
23.	Nitrite as NO ₂	mg/l	Part 34	-	-	0.088
24.	Nitrate as NO ₃	mg/l	Part 34	45	No relaxation	4.11
25.	Sodium	mg/l	Part 45	-	-	10.56
26.	Potassium	mg/l	Part 45	-	-	0.94
27.	Residual Free Chlorine	mg/l	Part 26	0.2	1.0	<0.1
28.	Arsenic as As	mg/l	Part 37	0.01	No relaxation	BDL
29.	Dissolved Oxygen	mg/l	Part 38	-	-	6.50
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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Senior Principal Scientist

(Environmental Chemical Lab) (EC1/025/2017, NABL Lab)

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End of Test Report