## CSIR-INSTITUTE OF MINERALS & MATERIALS TECHNOLOGY.



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



Issued to: NISER,Bhubaneswar	NISER,Bhubaneswar Date : 28.08.2024		
Test report No -24/NABL/ECL/08253			
Source of Sample: Ganga Hostel, NISER	Sample receiving Date: 16.08.20		
Jource of Jampie . Ganga Hoster, Misel	Sample receiving Date . 10.00.20		

SI No	Characteristics	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	0.10
2.	pH@Temp° C	Part 11	6.5-8.5	No relaxation	7.45@25.0
3.	Total Dissolved Solids mg/L	Part 16	500	2000	181.0
4.	Total Hardness (as CaCO <sub>3</sub> ),mg/L	Part 21	200	600	70.0
5.	Calcium as Ca, mg/L	Part 40	75	200	18.44
6.	Magnesium as Mg, mg/L	Part 46	30	100	5.83
7.	Alkalinity as CaCO <sub>3</sub> , mg/L	Part 23	200	600	20.0
8.	Chloride as CI, mg/L	Part 32	250	1000	16.0
9.	Sulfate as SO <sub>4</sub> , mg/L	Part 24	200	400	9.67
10.	Fluoride as F, mg/L	Part 60	1.0	1.5	0.09
11.	Iron as Fe, mg/L	Part 53	0.3	No relaxation	0.054
12.	Copper as Cu, mg/L	Part 42	0.05	1.5	0.017
13.	Manganese as Mn, mg/L	APHA(PART 3111B)	0.1	0.3	0.007
14.	Zinc as Zn, mg/L	Part 49	5.0	15.0	1.394
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	<0.001
18.	Nickel as Ni, mg/	Part 54	0.02	No relaxation	<0.001

**Authorized Signatory** 

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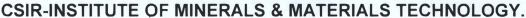
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#### NOTES:

- 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.

Non NABL Test report - P.T.O

'End of Test Report'



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

Issued to:	NISER, Bhubaneswar	Date: 28.08.2024
issueu to .	NISER, Dilubaneswai	Date . 20.00.2024

Test report No -24/NABL/ECL/08253

Sample receiving Date: Source of Sample: Ganga Hostel, NISER 16.08.2024

Type of Sample: Drinking water Sample Analysis Date: 16.08.2024

19.	*Color, Hazen units	Part 4	5	15	<5
20.	*Odour	Part 5	Agreeable	Agreeable	Agreeable
21.	*Conductivity, µs/cm	Part 14	-	-	282
22.	*Total Suspended Solid, mg/l	Part 17	-	-	2.0
23.	*Nitrite as NO2,mg/L	Part 34	-	-	0.103
24.	*Nitrate as NO <sub>3</sub> , mg/L	Part 34	45	No relaxation	6.51
25.	Sodium, mg/l	Part 45	-	£ -	81.16
26.	Potassium, mg/l	Part 45	-	-	3.77
27.	Residual Free Chlorine, mg/l	Part 26	0.2	1.0	<0.01
28.	Arsenic as As, mg/l	Part 37	0.01	No relaxation	<0.001
29.	Dissolved Oxygen, mg/l	Part 38		-	6.60
30.	Biological Oxygen Demand, mg/l	Part 44	-		BDL
31.	Chemical Oxygen Demand, mg/l	Part 58	-		BDL
32.	Oil and Grease, mg/l	Part 39	0.5	No relaxation	<0.5

### BDL - Below Detection Limit

Authorized Signatory

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- 6. Testing parameters which are not set limitation has marked as "-".

'End of Test Report'