

January - 2021

CSIR-INSTITUTE OF MINERALS & MATERIALS TECHNOLOGY.

(A Govt. of India Autonomous Body)

Environmental Chemical Laboratory

Bhubaneswar, Odisha



TEST REPORT

Date: 05.02.2021

Issued to: NISER, Bhubaneswar

Test Report No. 2101CH134

Source of Sample : Health Centre

Bottle Seal no if any: 01

Type of Sample : Raw Water

Sample Received on: 15.01.2021

Letter Reference :

Sl No	Characteristics	Test Method (P) of IS:3025	Requirements as per IS 10500:2012(Latest Version)		Test Result
			Acceptable limit	Permissible Limit	
1.	*Color, Hazen units	Part 4	5	15	<5
2.	*Odour	Part 5	Agreeable	Agreeable	Agreeable
3.	Turbidity, NTU	Part 10	1	5	0.01
4.	pH @ Temp °C	Part 11	6.5-8.5	No relaxation	6.64 @ 25.3
5.	*Conductivity, µs/cm	Part 14	-	-	87.2
6.	*Total Suspended Solid, mg/l	Part 17	-	-	0.01
7.	Total Dissolved Solids mg/L	Part 16	500	2000	70.0
8.	Total Hardness (as CaCO ₃), mg/L	Part 21	200	600	22.66
9.	Calcium as Ca, mg/L	Part 40	75	200	5.92
10.	Magnesium as Mg, mg/L	Part 46	30	100	1.92
11.	Alkalinity as CaCO ₃ , mg/L	Part 23	200	600	12.90
12.	Chloride as Cl, mg/L	Part 32	250	1000	18.13
13.	Sulfate as SO ₄ , mg/L	Part 24	200	400	0.51
14.	Fluoride as F, mg/L	Part 60	1.0	1.5	0.04
15.	*Nitrite as NO ₂ , mg/L	Part 34	-	-	0.0042
16.	*Nitrate as NO ₃ , mg/L	Part 34	45	No relaxation	1.427
17.	*Residual free chlorine, mg/L	Part 26	0.02	1.0	BDL
18.	Sodium, mg/l	Part 45	-	-	5.24

1 of 2

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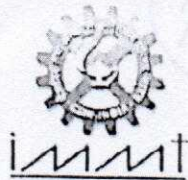
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19.	Potassium,mg/l	Part 45	-	-	1.28
20.	Iron as Fe, mg/L	Part 53	0.3	No relaxation	0.370
21.	Copper as Cu, mg/L	Part 42	0.05	1.5	0.030
22.	Manganese as Mn, mg/L	Part 59	0.1	0.3	0.038
23.	Zinc as Zn, mg/L	Part 49	5.0	15.0	0.033
24.	Lead as Pb, mg/L	Part 47	0.01	No relaxation	<0.001
25.	Cadmium as Cd, mg/L	Part 41	0.003	No relaxation	0.004
26.	Chromium as Cr, mg/L	Part 52	0.05	No relaxation	<0.001
27.	Nickel as Ni, mg/l	Part 54	0.02	No relaxation	<0.001
28.	Free CO ₂ , mg/l	Part 59	-	-	10.0
29.	Dissolved Oxygen, mg/l	Part 38	-	-	7.10
30.	Biological Oxygen Demand, mg/l	Part 44	-	-	0.10
31.	Chemical Oxygen Demand, mg/l	Part 58	-	-	5.0

➤ BDL- Below Detection Limit

NOTES:

1. The sample is drawn by the customer & 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. Testing parameters which are not in NABL Scope has marked as "*".
6. Testing parameters which are not set limitation has marked as "--".

Authorized Signatory

(Signature)
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