

CSIR-INSTITUTE OF MINERALS & MATERIALS TECHNOLOGY.

(A Govt. of India Autonomous Body)

Environmental Chemical Laboratory

Bhubaneswar, Odisha

(An NABL Accredited Laboratory)



Certificate No. : T-8091

TEST REPORT

Date:29.09.2020

Issued to: NISER , Bhubaneswar

Test Report No. 2009CH075

Source of Sample : HEALTH CENTRE

Sample Received on: 02.09.2020

Bottle Seal no if any:01

Type of Sample : Drinking Water

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	0.02
4.	pH@Temp ° C	Part 11	6.5-8.5	No relaxation	6.65 @25.5
5.	*Conductivity, µs/cm	Part 14	-	-	83.9
6.	*Total Suspended Solid, mg/l	Part 17	-	-	0.1
7.	Total Dissolved Solids mg/L	Part 16	500	2000	59.0
8.	Total Hardness (as CaCO ₃),mg/L	Part 21	200	600	23.53
9.	Calcium as Ca, mg/L	Part 40	75	200	6.68
10.	Magnesium as Mg, mg/L	Part 46	30	100	1.72
11.	Alkalinity as CaCO ₃ , mg/L	Part 23	200	600	17.17
12.	Chloride as Cl, mg/L	Part 32	250	1000	16.34
13.	Sulfate as SO ₄ , mg/L	Part 24	200	400	2.69
14.	Fluoride as F, mg/L	Part 60	1.0	1.5	0.02
15.	*Nitrite as NO ₂ ,mg/L	Part 34	-	-	0.0086
16.	*Nitrate as NO ₃ , mg/L	Part 34	45	No relaxation	6.245
17.	*Residual free chlorine, mg/L	Part 26	0.02	1.0	<0.001
18.	Sodium, mg/l	Part 45	-	-	3.75

1 of 2

Laboratory: Acharya Vihar, Bhubaneswar, Odisha-751013. Tel: 0674-2379236, Mobile: 9760387460.

Ab
05.10.2020

Principal Scientist
Environmental & Sustainable Lab
NABL Accredited Lab ISO/IEC 17025:2005.
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19.	Potassium,mg/l	Part 45	-	-	1.44
20	Dissolved Oxygen, mg/l	Part 38	-	-	6.30
21	Biological Oxygen Demand, mg/l	Part 44	-	-	BDL
22	Chemical Oxygen Demand, mg/l	Part 58	-	-	1.6
23	Free CO ₂ , mg/l	Part 61	-	-	12.0
24	Iron as Fe, mg/L	Part 53	0.3	No relaxation	0.299
25	Copper as Cu, mg/L	Part 42	0.05	1.5	0.065
26	Manganese as Mn, mg/L	Part 59	0.1	0.3	0.027
27	Zinc as Zn, mg/L	Part 49	5.0	15.0	0.555
28	Lead as Pb, mg/L	Part 47	0.01	No relaxation	<0.001
29	Cadmium as Cd, mg/L	Part 41	0.003	No relaxation	0.009
30	Chromium as Cr, mg/L	Part 52	0.05	No relaxation	0.037
31	Nickel as Ni, mg/l	Part 54	0.02	No relaxation	0.144

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


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डॉ अरक्षिता माझी/Dr. Arakshita Majhi

प्रधान वैज्ञानिक/Principal Scientist

पर्यावरण एवं संपोषण विभाग

Environmental & Sustainability Dept.

सीएसआईआर-खनिज एवं पदार्थ प्रौद्योगिकी संस्थान

CSIR Institute of Minerals & Materials Technology

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2of 2

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