

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:26.08.2020

Issued to: NISER , Bhubaneswar

Test Report No. 2008CH063

Source of Sample : Water Tank

Bottle Seal no if any:01

Type of Sample : Drinking Water

Sample Received on: 07.08.2020

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	0.10
4.	pH@Temp ° C	Part 11	6.5-8.5	No relaxation	5.99@25.1
5.	*Conductivity, µs/cm	Part 14	-	-	71
6.	*Total Suspended Solid, mg/l	Part 17	-	-	0.45
7.	Total Dissolved Solids mg/L	Part 16	500	2000	46.0
8.	Total Hardness (as CaCO ₃),mg/L	Part 21	200	600	13.73
9.	Calcium as Ca, mg/L	Part 40	75	200	3.14
10.	Magnesium as Mg, mg/L	Part 46	30	100	1.47
11.	Alkalinity as CaCO ₃ , mg/L	Part 23	200	600	6.06
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	-	-	0.0072
16.	*Nitrate as NO ₃ , mg/L	Part 34	45	No relaxation	9.562
17.	*Residual free chlorine, mg/L	Part 26	0.02	1.0	<0.001
18.	Sodium, mg/l	Part 45	-	-	4.46

1 of 2

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

E-Mail: dir@immt.res.in.

NABL Accredited Lab/ISO/IEC 17025:2005.

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

19.	Potassium,mg/l	Part 45	-	-	1.28
20	Dissolved Oxygen, mg/l	Part 38	-	-	5.80
21	Biological Oxygen Demand, mg/l	Part 44	-	-	BDL
22	Chemical Oxygen Demand, mg/l	Part 58	-	-	5.4
23	Free CO ₂ , mg/l	Part 61	-	-	9.0
24	Iron as Fe, mg/L	Part 53	0.3	No relaxation	0.395
25	Copper as Cu, mg/L	Part 42	0.05	1.5	0.006
26	Manganese as Mn, mg/L	Part 59	0.1	0.3	0.045
27	Zinc as Zn, mg/L	Part 49	5.0	15.0	0.007
28	Lead as Pb, mg/L	Part 47	0.01	No relaxation	0.043
29	Cadmium as Cd, mg/L	Part 41	0.003	No relaxation	0.004
30	Chromium as Cr, mg/L	Part 52	0.05	No relaxation	0.053
31	Nickel as Ni, mg/l	Part 54	0.02	No relaxation	0.032

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


डॉ अरक्षिता माझी/Dr. Arakshita Majhi
प्रधान वैज्ञानिक/Principal Scientist
पर्यावरण एवं सस्योपण विभाग
Environmental & Sustainability Dept.
सीएसआईआर-खनिज एवं पदार्थ प्रौद्योगिकी संस्थान
CSIR Institute of Minerals & Materials Technology
भुवनेश्वर/Bhubaneswar 751013

Dr Arakshita Majhi

Principal Scientist

Phone : 0674-2379236

E mail - arakshita@immt.res.in

2of 2

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

E-Mail: dir@immt.res.in.

NABL Accredited Lab/ISO/IEC 17025:2005.