# **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. 2005CH055

Source of Sample : Chemical Building Sample Received on: 10.07.2020

Bottle Seal no if any:01

Type of Sample: Drinking Water

Letter Reference:

SI 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	7.18@25.1
5.	*Conductivity, µs/cm	Part 14	-	-	93
6.	*Total Suspended Solid, mg/l	Part 17	-	-	0.74
7.	Total Dissolved Solids mg/L	Part 16	500	2000	61.0
8.	Total Hardness (as CaCO <sub>3</sub> ),mg/L	Part 21	200	600	23.53
9.	Calcium as Ca, mg/L	Part 40	75	200	7.07
10.	Magnesium as Mg, mg/L	Part 46	30	100	1.47
11.	Alkalinity as CaCO <sub>3</sub> , mg/L	Part 23	200	600	14.14
12.	Chloride as Cl, mg/L	Part 32	250	1000	19.22
13.	Sulfate as SO <sub>4</sub> , mg/L	Part 24	200	400	0.89
14.	Fluoride as F, mg/L	Part 60	1.0	1.5	0.02
15.	*Nitrite as NO <sub>2</sub> ,mg/L	Part 34	-	-	0.0053
16.	*Nitrate as NO <sub>3</sub> , mg/L	Part 34	45	No relaxation	18.45
17.	*Residual free chlorine, mg/L	Part 26	0.02	1.0	< 0.001
18.	Sodium, mg/l	Part 45	-	-	5.46

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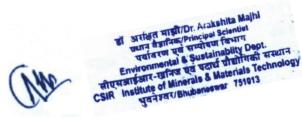
## **TEST REPORT**

19.	Potassium,mg/l	Part 45	-	-	1.73
20	Dissolved Oxygen, mg/l	Part 38	-	-	6.40
21	Biological Oxygen Demand, mg/l	Part 44	-	-	BDL
22	Chemical Oxygen Demand, mg/l	Part 58	-	-	2.4
23	Free CO <sub>2</sub> , mg/l	Part 61	-	-	10.0
24	Iron as Fe, mg/L	Part 53	0.3	No relaxation	0.184
25	Copper as Cu, mg/L	Part 42	0.05	1.5	0.041
26	Manganese as Mn, mg/L	Part 59	0.1	0.3	0.015
27	Zinc as Zn, mg/L	Part 49	5.0	15.0	0.257
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	0.006
30	Chromium as Cr, mg/L	Part 52	0.05	No relaxation	0.068
31	Nickel as Ni, mg/l	Part 54	0.02	No relaxation	0.129
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#### **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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