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

Issued to: NISER, Bhubaneswar

Date:26.08.2020

Sample Received on: 10.07.2020

Test Report No. 2005CH055

Source of Sample : Chemical Building

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	- 120 Table 1	-	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 ₃),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 ₃ , mg/L	Part 23	200	600	14.14
12.	Chloride as Cl, mg/L	Part 32	250	1000	19.22
13.	Sulfate as SO ₄ , mg/L	Part 24	200	400	0.89
14.	Fluoride as F, mg/L	Part 60	1.0	1.5	0.02
5.	*Nitrite as NO2,mg/L	Part 34	-	<u>-</u>	
6.	*Nitrate as NO ₃ , mg/L	Part 34	45	No relaxation	0.0053 18.45
7.	*Residual free chlorine, mg/L	Part 26	0.02	1.0	<0.001
8.	Sodium, mg/l	Part 45	_		5.46

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Laboratory: Acharya Vihar, Bhubaneswar. Odisha-751013 Tol-0674 2270226

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19.	Potassium,mg/l	Part 45	-		
20	Dissolved Oxygen, mg/l	Part 38			1.73
21		1 411 36			6.40
-1	Biological Oxygen Demand, mg/l	Part 44	-	- 235	BDL
22	Chemical Oxygen Demand, mg/l	Part 58		-	2.4
23	Free CO ₂ , mg/l	Part 61			
24	Iron as Fe, mg/L				10.0
2.5		Part 53	0.3	No relaxation	0.184
25	Copper as Cu, mg/L	Part 42	0.05	1.5	
26	Manganese as Mn, mg/L	B	(19 Very 19 Ve	1.5	0.041
27		Part 59	0.1	0.3	0.015
27	Zinc as Zn, mg/L	Part 49	5.0	15.0	
28	Lead as Pb, mg/L	David 47		13,0	0.257
29		Part 47	0.01	No relaxation	< 0.001
.9	Cadmium as Cd, mg/L	Part 41	0.003	No relaxation	0.006
0	Chromium as Cr, mg/L	Part 52	0.05		0.006
1		1 01 (52	0.03	No relaxation	0.068
	Nickel as Ni, mg/l	Part 54	0.02	No relaxation	0.129

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
- 4. Latest version of test methods used as per latest specification.
- 5. Testing parameters which are not in NABL Scope has marked as " \ast " .
- Testing parameters which are not set limitation has marked as "-".

Authorized Signatory

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