CSIR-INSTITUTE OF MINERALS & MATERIALS TECHNOLOGY.



(A Govt. of India Autonomous Body) Environmental Chemical Laboratory

Bhubaneswar, Odisha

TEST REPORT

TEST REPORT NO- NABL/ECL/0722

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 Part 10	Agreeable 1	Agreeable 5	Agreeable 0.05
3.	Turbidity, NTU				
4.	pH@Temp ° C	Part 11	6.5-8.5	No relaxation	6.93@25.0
5.	*Conductivity, µs/cm	Part 14	-	-	90.0
6.	*Total Suspended Solid, mg/l	Part 17	-	-	0.1
7.	Total Dissolved Solids mg/L	Part 16	500	2000	88.0
8.	Total Hardness (as CaCO ₃),mg/L	Part 21	200	600	20.30
9.	Calcium as Ca, mg/L	Part 40	75	200	5.53
10.	Magnesium as Mg, mg/L	Part 46	30	100	1.58
11.	Alkalinity as CaCO ₃ , mg/L	Part 23	200	600	11.91
12.	Chloride as Cl, mg/L	Part 32	250	1000	9.31
13.	Sulfate as SO ₄ , mg/L	Part 24	200	400	0.66
14.	Fluoride as F, mg/L	Part 60	1.0	1.5	0.03
15.	*Nitrite as NO2,mg/L	Part 34	-	-	0.026
16.	*Nitrate as NO ₃ , mg/L	Part 34	45	No relaxation	2.596
17.	*Residual free chlorine, mg/L	Part 26	0.02	1.0	BDL
18.	Sodium, mg/l	Part 45	-	-	6.51
19.	Potassium,mg/l	Part 45	-	-	2.79
20.	Dissolved Oxygen, mg/l	Part 38	-	-	6.50
21.	Biological Oxygen Demand, mg/l	Part 44	-	-	BDL
22.	Chemical Oxygen Demand, mg/l	Part 58	-	-	2.0
23.	Free CO ₂ , mg/l	Part 60	-	-	9.0

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24.	Iron as Fe, mg/L	Part 53	0.3	No relaxation	0.185
25.	Copper as Cu, mg/L	Part 42	0.05	1.5	0.013
26.	Manganese as Mn, mg/L	Part 59	0.1	0.3	<0.001
27.	Zinc as Zn, mg/L	Part 49	5.0	15.0	0.197
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	0.002
30.	Chromium as Cr, mg/L	Part 52	0.05	No relaxation	0.010
31.	Nickel as Ni, mg/l	Part 54	0.02	No relaxation	<0.001
32.	Oil and Grease, mg/l	Part 39	0.5	No relaxation	BDL

> BDL- BELOW DETECTION LIMITS

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 " \ast ".

6. Testing parameters which are not set limitation has marked as "-".

Authorized Signatory

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डॉ अरक्षित माझी/Dr. Arakshita Majhi ष्यान वैज्ञानिक/Principal Scientiet पर्यावरण एवं सम्पाधण विभाग Environmental & Sustainability Dept. सीएसआईआर-खनिज एवं षदार्थ प्रौद्योगिकी संस्थान CSIR Institute of Minerals & Materials Technology भूवनंश्वर/Bhubaneswar 751013