

CSIR-INSTITUTE OF MINERALS & MATERIALS TECHNOLOGY.

(A Govt. of India Autonomous Body)

Environmental Chemical Laboratory

Bhubaneswar, Odisha



TEST REPORT

TEST REPORT NO- NABL/ECL/0724

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	0.01
4.	pH@Temp * C	Part 11	6.5-8.5	No relaxation	8.08@25.0
5.	*Conductivity, $\mu\text{s}/\text{cm}$	Part 14	-	-	101
6.	*Total Suspended Solid, mg/l	Part 17	-	-	0.1
7.	Total Dissolved Solids mg/L	Part 16	500	2000	80.0
8.	Total Hardness (as CaCO_3), mg/L	Part 21	200	600	30.30
9.	Calcium as Ca, mg/L	Part 40	75	200	9.31
10.	Magnesium as Mg, mg/L	Part 46	30	100	1.72
11.	Alkalinity as CaCO_3 , mg/L	Part 23	200	600	20.79
12.	Chloride as Cl, mg/L	Part 32	250	1000	8.41
13.	Sulfate as SO_4 , mg/L	Part 24	200	400	1.28
14.	Fluoride as F, mg/L	Part 60	1.0	1.5	0.03
15.	*Nitrite as NO_2 , mg/L	Part 34	-	-	0.0042
16.	*Nitrate as NO_3 , mg/L	Part 34	45	No relaxation	1.596
17.	*Residual free chlorine, mg/L	Part 26	0.02	1.0	BDL
18.	Sodium, mg/l	Part 45	-	-	6.89
19.	Potassium, mg/l	Part 45	-	-	3.48
20.	Dissolved Oxygen, mg/l	Part 38	-	-	5.80
21.	Biological Oxygen Demand, mg/l	Part 44	-	-	0.10
22.	Chemical Oxygen Demand, mg/l	Part 58	-	-	4.0
23.	Iron as Fe, mg/L	Part 53	0.3	No relaxation	0.454

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भारतीय खनिज एवं सामग्री प्रौद्योगिकी संस्थान, भुवनेश्वर-751013

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16.08.21



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24.	Copper as Cu, mg/L	Part 42	0.05	1.5	<0.001
25.	Manganese as Mn, mg/L	Part 59	0.1	0.3	<0.001
26.	Zinc as Zn, mg/L	Part 49	5.0	15.0	0.3251
27.	Lead as Pb, mg/L	Part 47	0.01	No relaxation	0.004
28.	Cadmium as Cd, mg/L	Part 41	0.003	No relaxation	0.002
29.	Chromium as Cr, mg/L	Part 52	0.05	No relaxation	<0.001
30.	Nickel as Ni, mg/l	Part 54	0.02	No relaxation	<0.001
31.	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 "*" .
6. Testing parameters which are not set limitation has marked as "—" .

Authorized Signatory

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