

CSIR-INSTITUTE OF MINERALS & MATERIALS TECHNOLOGY.

(A Govt. of India Autonomous Body) **Environmental Chemical Laboratory** Bhubaneswar, Odisha



TEST REPORT

Date :02.05.2022		
Sample receiving Date: 28.03.2022		
Sample Analysis Date: 28.03.2022		

SI No	Characteristics	Test Method (P)of IS:3025	Requirements as per IS 10500:2012(Latest Version)		Test Result
			Acceptable limit	Permissible Limit	7
1.	Turbidity, NTU	Part 10	1	5	0.05
2.	pH@Temp ° C	Part 11	6.5-8.5	No relaxation	6.78@25.0
3.	Total Dissolved Solids mg/L	Part 16	500	2000	80.0
4.	Total Hardness (as CaCO ₃),mg/L	Part 21	200	600	36.0
5.	Calcium as Ca, mg/L	Part 40	75	200	8.0
6.	Magnesium as Mg, mg/L	Part 46	30	100	3.89
7.	Alkalinity as CaCO3, mg/L	Part 23	200	600	30.0
8.	Chloride as Cl, mg/L	Part 32	250	1000	12.0
9.	Sulfate as SO ₄ , mg/L	Part 24	200	400	13.0 3.9
10.	Fluoride as F, mg/L	Part 60	1.0	1.5	0.04
11.	Iron as Fe, mg/L	Part 53	0.3	No relaxation	0.250
12.	Copper as Cu, mg/L	Part 42	0.05	1.5	<0.001
13.	Manganese as Mn, mg/L	APHA (PART 3111B)	0.1	0.3	0.011
14.	Zinc as Zn, mg/L	Part 49	5.0	15.0	0.088
15.	Lead as Pb, mg/L	Part 47	0.01	No relaxation	0.171
16.	Cadmium as Cd, mg/L	Part 41	0.003	No relaxation	0.003
17.	Chromium as Cr, mg/L	Part 52	0.05	No relaxation	<0.001
8.	Nickel as Ni, mg/l	Part 54	0.02	No relaxation	<0.001
	orized Signatory Or Arakshita Majhi	An	मासि मासि Dr. Arakshit मासि Dr. Arakshit मासि मासि Drincipal Sci मासि मासि सम्मोबण विश्	Majhi entist im Dept.	

Principal Scientist

NOTES:

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Latest version of test methods used as per latest specification.

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'End of Test Report'

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Issued to:	Customer name to be decoded	Date :02.05.2022
Tost report	No. NADL/ECL/0000	

Test report No – NABL/ECL/0368

Source of Sample: Borewell 28.03.2022 Sample receiving Date :

Type of Sample: Treated Water 28.03.2022 Sample Analysis Date:

9.	Color, Hazen units	Part 4	5	15	<5
20.	Odour	Part 5	Agreeable	Agreeable	Agreeabl
21.	Conductivity, µs/cm	Part 14	-	-	118
22.	Nitrite as NO ₂ ,mg/L	Part 34	-	-	0.019
23.	Nitrate as NO ₃ , mg/L	Part 34	45	No relaxation	2.698
24.	Residual free chlorine, mg/L	Part 26	0.02	1.0	BDL
25.	Sodium, mg/l	Part 45	-	-	7.96
26.	Potassium, mg/l	Part 45	-	-	2.0
27.	Dissolved Oxygen, mg/l	Part 38	-	-	5.90
28.	Biological Oxygen Demand, mg/l	Part 44	-	-	BDL
29.	Chemical Oxygen Demand, mg/l	Part 58	-	-	2.0
30.	Arsenic as As, mg/l	Part 37	0.01	No relaxation	0.010
31.	Oil and Grease, mg/l	Part 39	0.5	No relaxation	BDL

Dr Arakshita Majhi

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NOTES:

प्यावरण एवं सम्पाषण विष्ण Environment & Sustainability Dept. हिंदिन प्रतिकार के प्रतिकारी महोगित्री संस्थान सोर्सामा असर विनिध्न एवं । त्याव महोगित्री Technology सोर्सामा का Millerals कि Materials Technology (SIR-Institute of Millerals (Materials Technology) साम्बर्ग करा सामाजवार, (Materials Technology) बेब्दु sol (8t:nps us 2 kg () 2 TUT 3 Inating of Willerap & Walfillap lectur 1. The sample is drawn by the client & result relates to the sample tested.

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हर्ते असीक्षत् मान्त्रि Dr. Arakshiva मान्त्रि पानि Principal Scientist प्रधान क्षेत्रान्ति Principal क्षिमा प्रधान सम्पानिक विभाग D प्रधान सम्पानिक श्रिक्ता क्षेत्रिकी

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4. Latest version of test methods used as per latest specification.

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

'End of Test Report'