## CSIR-INSTITUTE OF MINERALS & MATERIALS TECHNOLOGY.



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



Issued to:	National Institute of Science Education and Research, Bhubaneswar		
Test report	No -24/NABL/ECL/04234		
Source of Sa	mple: Mahanadi Hostel, NISER	Sample receiving Date: 18.04.2024	
		Jampie receiving Date . 10.04.2024	

SI No	Characteristics	Test Method (P)of IS:3025	Requirements as per IS 10500:2012(Latest Version)		Test Result
			Acceptable limit	Permissible Limit	
1.	Turbidity, NTU	Part 10	1	5	0.15
2.	pH@Temp° C	Part 11	6.5-8.5	No relaxation	6.96@25.0
3.	Total Dissolved Solids mg/L	Part 16	500	2000	96.0
4.	Total Hardness (as CaCO₃),mg/L	Part 21	200	600	52.0
5.	Calcium as Ca, mg/L	Part 40	75	200	12.83
6.	Magnesium as Mg, mg/L	Part 46	30	100	4.86
7.	Alkalinity as CaCO <sub>3</sub> , mg/L	Part 23	200	600	48.0
8.	Chloride as Cl, mg/L	Part 32	250	1000	16.0
9.	Sulfate as SO <sub>4</sub> , mg/L	Part 24	200	400	8.96
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	0.044
12.	Copper as Cu, mg/L	Part 42	0.05	1.5	0.016
13.	Manganese as Mn, mg/L	APHA(PART 3111B)	0.1	0.3	0.027
14.	Zinc as Zn, mg/L	Part 49	5.0	15.0	0.234
15.	Lead as Pb, mg/L	Part 47	0.01	No relaxation	<0.001
16.	Cadmium as Cd, mg/L	Part 41	0.003	No relaxation	0.006
17.	Chromium as Cr, mg/L .	Part 52	0.05	No relaxation	0.043
18.	Nickel as Ni, mg/l	Part 54	0.02	No relaxation	<0.001

**Authorized Signatory** 

Dr. Arakshita Majhi

Dr. Arakshita Majhi Senior Principal Scientist

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(Environmental Chemical Lab) (ISO17025:2017, NABL Lab) Environmental & Sustainability Dept. E mail - arakshita@immt.res.incsIR-Institute of Minerals & Materials Technology

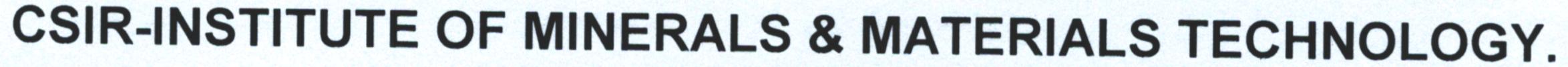
NOTES:

Bhubaneswar-751013, Odisha, INDIA

- The sample is drawn by the client& result relates to the sample tested.
- This certificate shall not be reproduced wholly or in part without prior written consent of the laboratory.
- This certificate shall not be used in any advertising media or as evidence in the court of Law without prior written consent of laboratory.
- Latest version of test methods used as per latest specification.
- It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned in "acceptable limit" render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicate under "permissible limit" in the absence of alternative sources, above which the source will have to be rejected.

Non NABL Test report - P.T.O

'End of Test Report'





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

	ued to: National Institute of and Research, Bhuket report No -24/NABL/ECL/0	Date : 24.05.2024					
Towns of Court of Cou					Sample receiving Date: 18.04.2024 Sample Analysis Date: 18.04.2024		
20.	*Odour	Part 5	Agree	able	Agreeable	Agreeable	
21.	*Conductivity, µs/cm	Part 14	-		-	132	
22.	*Total Suspended Solid, mg/l	Part 17	-		-	1.0	
23.	*Nitrite as NO <sub>2</sub> ,mg/L	Part 34	-		-	0.053	
24.	*Nitrate as NO <sub>3</sub> , mg/L	Part 34	45		No relaxation	3.47	
25.	Sodium, mg/l	Part 45	-		-	7.64	
26.	Potassium, mg/l	Part 45	-			0.71	
27.	Residual Free Chlorine, mg/l	Part 26	0.2		1.0	< 0.1	
28.	Arsenic as As, mg/l	Part 37	0.01		No relaxation	< 0.001	
29.	Dissolved Oxygen, mg/l	Part 38	-			5.60	
30.	Biological Oxygen Demand, mg/l	Part 44	-		-	0.1	
1.	Chemical Oxygen Demand, mg/l	Part 58	-		-	BDL	
32.	Oil and Grease, mg/l	Part 39	0.5		No relaxation	< 0.5	

BDL - Below Detection Limit

**Authorized Signatory** 

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

'End of Test Report'