

Laboratory	Goa State Pollution Control Board Laboratory, Dempo Towers, 1st & 4th Floor, EDC Plaza, Patto, Panaji – Goa		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	24.05.2014
Certificate Number	T-1666	Valid Until	23.05.2016
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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I. WATER

1.	Drinking water / Well Water / Borewell Water / Spring Water / River Water/	pH	4500-H ⁺ B APHA 22 nd Edition 2012 Pg no. 4-92	2 to 12
		Turbidity	2130 B APHA 22 nd Edition 2012 Pg no. 2-13	0.2 to 10 NTU
		Dissolved Solids	2540 C APHA 22 nd Edition 2012 Pg no. 2-65	10 to 1000 mg/l
		Conductivity	2510 B APHA 22 nd Edition 2012 Pg no. 2-54	0.2 to 100 µS/cm
		Dissolved Oxygen	4500 O C APHA 22 nd Edition 2012 Pg no. 4-139	1 to 10 mg/l
		Nitrate Nitrogen	4500 NO ₃ E, APHA 22 nd Edition 2012 Pg no. 4-125	0.2 to 1.0 mg/l
		Nitrite Nitrogen	4500 NO ₂ B APHA 22 nd Edition 2012 Pg no. 4-120	.001 to 1.0 mg/l
		Chloride	4500 Cl B APHA 22 nd Edition 2012 Pg no. 4-72	2 to 100 mg/l
		Sulphate	4500 SO ₄ ²⁻ E APHA 22 nd Edition 2012 Pg no. 4-190	2 to 40 mg/l

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Drinking water / Well Water / Borewell Water / Spring Water / River Water/	Hardness	2340 C APHA 22 nd Edition 2012 Pg no. 2-44	2 to 100 mg/l
		Calcium	3500 Ca B APHA 22 nd Edition 2012 Pg no. 3-67	2 to 50 mg/l >50 to 400 mg/l
		Magnesium	3500 Mg B APHA 22 nd Edition 2012 Pg no. 3-84	2 to 20 mg/l >20 to 200 mg/l
		Cadmium	3111 B APHA 22 nd Edition 2012 Pg no. 3-18	0.01 to 5 mg/l
		Copper	3111 B APHA 22 nd Edition 2012 Pg no. 3-18	0.01 to 5 mg/l
		Nickel	3111 B APHA 22 nd Edition 2012 Pg no. 3-18	0.01 to 5 mg/l
		Chromium	3111 B APHA 22 nd Edition 2012 Pg no. 3-18	0.01 to 5 mg/l
		Zinc	3111 B APHA 22 nd Edition 2012 Pg no. 3-18	0.01 to 5 mg/l
		Cobalt	3111 B APHA 22 nd Edition 2012 Pg no. 3-18	0.01 to 5 mg/l
		Lead	3111 B APHA 22 nd Edition 2012 Pg no. 3-18	0.01 to 5 mg/l

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Drinking water / Well Water / Borewell Water / Spring Water / River Water/	Iron	3111 B APHA 22 nd Edition 2012 Pg no. 3-18	0.01 to 5 mg/l
		Manganese	3111 B APHA 22 nd Edition 2012 Pg no. 3-18	0.01 to 5 mg/l
		Temperature	2550 B APHA 22 nd Edition 2012 Pg no. 3-18	2 to 100 °C
		Suspended Solids	2540 D APHA 22 nd Edition 2012 Pg no. 2-66	2 to 50 mg/l
		Oil & Grease	5520 B APHA 22 nd Edition 2012 Pg no. 5-40	0.2 to 100 mg/l
		Chemical Oxygen Demand	5220 B APHA 22 nd Edition 2012 Pg no. 5-17	2 to 100 mg/l
		Biochemical Oxygen Demand	5210 B APHA 22 nd Edition 2012 Pg no. 5-5 or IS 3025 (part 44) : 1993 (RA1999) Edition 2.1(2000-10) (First Revision)	3 to 100 mg/l

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2.	Waste Water / Effluent	pH	4500-H ⁺ B APHA 22 nd Edition 2012 Pg no. 4-92	2 to 12
		Turbidity	2130 B APHA 22 nd Edition 2012 Pg no. 2-13	1 to 50 NTU >50 to 1000 NTU
		Dissolved Solids	2540 C APHA 22 nd Edition 2012 Pg no. 2-65	10 to 1000 mg/l >1000 to 3000 mg/l
		Conductivity	2510 B APHA 22 nd Edition 2012 Pg no. 2-54	0.2 to 100 µS/cm >100 to 10000 µS/cm
		Dissolved Oxygen	4500 NO ₃ E APHA 22 nd Edition 2012 Pg no. 4-125	1 to 10 mg/l
		Nitrate Nitrogen	4500 NO ₃ E, APHA 22 nd Edition 2012 Pg no. 4-125	0.2 to 4.0 mg/l
		Nitrite Nitrogen	4500 NO ₂ B APHA 22 nd Edition 2012 Pg no. 4-120	0.01-3.0 mg/l
		Chloride	4500 Cl B APHA 22 nd Edition 2012 Pg no. 4-72	2 to 100 mg/l >100 to 1000 mg/l
		Sulphate	4500 SO ₄ ²⁻ E APHA 22 nd Edition 2012 Pg no. 4-190	2 to 40 mg/l

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Waste Water / Effluent	Hardness	2340 C APHA 22 nd Edition 2012 Pg no. 2-44	4 to 100 mg/l >100 to 1000 mg/l
		Calcium	3500 Ca B APHA 22 nd Edition 2012 Pg no. 3-67	2 to 1000 mg/l
		Magnesium	3500 Mg B APHA 22 nd Edition 2012 Pg no. 3-84	2 to 1000 mg/l
		Cadmium	3111 B APHA 22 nd Edition 2012 Pg no. 3-18	0.01 to 5 mg/l
		Copper	3111 B APHA 22 nd Edition 2012 Pg no. 3-18	0.01 to 5 mg/l
		Nickel	3111 B APHA 22 nd Edition 2012 Pg no. 3-18	0.01 to 5 mg/l
		Chromium	3111 B APHA 22 nd Edition 2012 Pg no. 3-18	0.01 to 5 mg/l
		Zinc	3111 B APHA 22 nd Edition 2012 Pg no. 3-18	0.01 to 5 mg/l
		Cobalt	3111 B APHA 22 nd Edition 2012 Pg no. 3-18	0.01 to 5 mg/l
		Lead	3111 B APHA 22 nd Edition 2012 Pg no. 3-18	0.01 to 5 mg/l

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Waste Water / Effluent	Iron	3111 B APHA 22 nd Edition 2012 Pg no. 3-18	0.01 to 5 mg/l
		Manganese	3111 B APHA 22 nd Edition 2012 Pg no. 3-18	0.01 to 5 mg/l
		Temperature	2550 B APHA 22 nd Edition 2012 Pg no. 2-69	2 to 100 °C
		Suspended Solids	2540 D APHA 22 nd Edition 2012 Pg no. 2-66	50 to 1000 mg/l
		Oil & Grease	5520 B APHA 22 nd Edition 2012 Pg no. 5-40	2 to 100 mg/l
		Chemical Oxygen Demand	5220 B APHA 22 nd Edition 2012 Pg no. 5-17	2 to 500 mg/l
		Biochemical Oxygen Demand	5210 B APHA 22 nd Edition 2012 Pg no. 5-5 or IS 3025 (part 44) : 1993 (RA1999) Edition 2.1(2000-10) (First Revision)	3 to 2500 mg/l

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