

Laboratory	Erec India Research Laboratory (Environmental Laboratory), MPG Complex, R-2, Rupnagar, Guwahati, Assam		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	03.02.2015
Certificate Number	T-2418	Valid Until	02.02.2017
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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
I.	WATER			
1.	Drinking Water	Colour	IS 3025 (Part 4): 1983 (RA 2002) Platinum Cobalt Method	1 Hazan Units to 500 Hazan Units
		Odour	IS 3025 (Part 5): 1983 (RA 2002)	
		Turbidity	IS 3025 (Part 10): 1984 (RA 2002)	1 NTU to 100 NTU
		pH	IS 3025 (Part 11): 1983 (RA 2002) Electrometric Method	1 to 14
		Total Hardness	IS 3025 EDTA Titrimetric Method	1 mg/l to 500 mg/l
		Sulphate	IS 3025 (Part 24): 1986 (RA 2003) Turbidity Method	1 mg/l to 40 mg/l
		Chloride	IS 3025 (Part 32): 1988 (RA 2003) Argentometric Method	0.15 mg/l to 200 mg/l
		Fluoride	APHA 22 nd Edition 4500-F·D. SPADNS Method	0.001 mg/l to 1.4 mg/l
		Total Dissolved Solid	IS 3025 (Part 16): 1984 (RA 2006)	1 mg/l to 2000 mg/l
		Residual Chlorine	IS 3025 (Part 26): 1986 (RA 2003) Iodometric Method	0.7 mg/l to 100 mg/l
		Alkalinity	IS 3025 (Part 23): 1986 (RA 2003)	1 mg/l to 2000 mg/l
		Iron	IS 3025 (Part 53): 2003 1,10 Phenanthroline Method	0.1 mg/l to 10 mg/l
		Calcium	IS 3025 (Part 40): 1991 (RA 2003) EDTA Titrimetric Method	1 mg/l to 500 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	Magnesium	IS 3025 (Part 46): 1994 (RA 2003) Volumetric Method using EDTA	1 mg/l to 500 mg/l
		Sulphide	IS 3025 (Part 29): 1986 (RA 2003) Methylene Blue Method	1 mg/l to 20 mg/l
		Nitrogen as nitrate	IS 3025 (Part 34): 1988 (RA 2003) Chromotropic acid Method	9 mg/l to 100 mg/l
		Nitrogen as nitrite	IS 3025 (Part 34): 1988 (RA 2003) NED Dihydrochloride Method	0.02 mg/l to 0.5 mg/l
		Copper	IS 3025 (Part 42): 1992 (RA 2003) Neocuproine Method	0.06 mg/l to 100 mg/l
		Sodium	APHA 22 nd Edition 3500- Na B Flame Emission Photometric Method	0.1 mg/l to 100 mg/l
		Arsenic	IS 3025 (Part 37): 1988 (RA 2003)	0.001 mg/l to 0.1 mg/l
		Manganese	IS 3025 (Part 59): 2006 Formaloxime Spectrometric Method	0.3 mg/l to 5 mg/l
		Phenolic compound	IS 3025 (Part 43): 1992 (RA 2003) 4- Aminoantipyrine Method with Chloroform Extraction	0.002 mg/l to 0.1 mg/l
		Aluminium	IS 3025 (Part 55): 2003 Erichrome Cyanine R Method	0.02 mg/l to 12 mg/l
		Mercury	IS 3025 (Part 48): 1994 (RA 2003) Colometric Dithizone Method	0.001 mg/l to 0.1 mg/l
		Potassium	APHA 22 nd Edition 3500- Na B Flame Emission Photometric Method	0.1 mg/l to 100 mg/l

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