

Laboratory Institute of Health Systems Laboratory, Ground Floor, HACA Bhavan,
Saifabad, Hyderabad, Telangana

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7658

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Validity 06.08.2018 to 05.08.2020

Last Amended on -

Sl.	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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CHEMICAL TESTING

I.	WATER			
1.	Drinking Water, Potable and Domestic water, Ground water, Surface Water, Irrigation water, Industrial Water, Construction water, Packaged drinking water, Water from purifiers, Swimming Pool Water.	Color	IS 3025 (Part-4) 1983 (RA 2012) Platinum Cobalt (Visual Comparison Method)	1 to 100 Hazen Units
		Turbidity	IS 3025 (Part-10) 1984 (RA 2012) Nepheloturbidimetric Method	0.5 NTU to 40 NTU
		pH@25 °C	IS 3025 (Part-11) 1983 (RA 2012), Electrometric Method	4 to 13
		Electrical Conductivity @25 °C	IS 3025 (Part-14) 2013 (RA 2012), Electrometric Method	1 µS/cm to 10000 µS/cm
		Total Dissolved Solids@105 °C	IS 3025 (Part-16) 1984 (RA 2012), Gravimetric Method	10 mg/L to 5000 mg/L
		Phenolphthalein Alkalinity as CaCO ₃	IS 3025 (Part-23) 1986 (RA 2014), Indicator Method	2 mg/L to 250 mg/l
		Total Alkalinity as CaCO ₃	IS 3025 (Part-23) 1986 (RA 2014), Indicator Method	5 mg/L to 1000 mg/L
		Total Hardness as CaCO ₃	IS 3025 (Part-21) 2009 (RA 2014)	5 mg/L to 1000 mg/L
		Calcium as Ca	IS 3025 (Part-40) 1991 (RA 2014), Titrimetric Method	2 mg/L to 500 mg/L
		Magnesium as Mg	IS 3025 (Part-46) 1994 (RA 2014)	2 mg/L to 200 mg/L

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		Ammonical Nitrogen as NH ₃ -N	IS 3025 (Part-34) 1988 (RA 2014), Nesslerisation Method	0.1 mg/L to 25 mg/L
		Nitrate as NO ₃	APHA 23 rd Edition 2017 - 4500-NO ₃ -B Ultraviolet spectrophotometric screening Method.	1 mg/L to 100 mg/L
		Nitrite as NO ₂	APHA 23 rd Edition 2017 4500-NO ₂ -B Colorimetric method.	0.01 mg/L to 5mg/L
		Chloride as Cl	IS 3025 (Part-32) 1988 (RA 2014), Argentometric Method	2 mg/L to 2000 mg/L
		Fluoride as F	APHA 23 rd Edition 2017 - 4500-F D (SPADNS Method)	0.2 mg/L to 10mg/L
		Sulphate as SO ₄	IS 3025 (Part-24) 1986 (RA 2014) Turbidity Method	4 mg/L to 1000 mg/L
		Iron as Fe	IS 3025 (Part-53) 2003 (RA 2014) 1, 10 Phenanthroline Method	0.02 mg/L to 10mg/L
		Manganese as Mn	IS 3025 (Part 59) 2006 (RA 2012) Formaloxine Spectrometric method	0.02 mg/L to 10 mg/L
		Phosphate as PO ₄	IS 3025 (part 31) 1988 (RA 2014) Stannous Chloride Method	0.05 mg/L to 25mg/L
		Sodium as Na	IS 3025 (Part 45) 1993 (RA 2014) Flame Photometric Method	1 mg/L to 500 mg/L

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		Potassium as K	IS 3025 (Part 45) 1993 (RA 2014) Flame Photometric Method	1 mg/L to 100 mg/L