

Laboratory Ion Exchange (India) Limited - Laboratory Division, No. C-72 & 83,
ITI Ancillary Industrial Estate, Whitefield Main Road, Mahadevapura
Post, Bangalore, Karnataka

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7361

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Validity 06.06.2018 to 05.06.2020

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.	Surface/ Ground (Drinking Water, Processed Water, Packaged Drinking Water, Natural Mineral Water)	pH Value @ 25°C	IS 3025 (part 11) 1983, (RA 2012) APHA 22nd Edition 4500 H+ A B	2 to 12
		Conductivity @ 25°C	IS 3025 (part 14) 1984 Reaffirmed 2013/ APHA 22nd Edition 2510 B	5 µS/cm to 1500 µS/cm
		Turbidity	IS 3025 (part 10) 1984 (RA 2012) APHA 22nd Edition 2130 B	1 NTU to 500 NTU
		Total Suspended Solids	IS 3025 (part 17) 1984 (RA 2012) APHA 22nd Edition 2540 D	5 mg/l to 100 mg/l
		Total Dissolved Solids	IS 3025 (part 16) 1984 (RA 2012) APHA 22nd Edition 2540 C	5 mg/l to 3000 mg/l
		Total Alkalinity as CaCO ₃	IS 3025 (part 23) 1998 (RA 2014) APHA 22nd Edition 2320 B	2 mg/l to 1000 mg/l
		Total Hardness as CaCO ₃	IS 3025 (part 21) 1983 (RA 2014) 22nd Edition 2340 C EDTA Method	2 mg/l to 2000 mg/l
		Calcium as Ca	IS 3025 (part 40) 1991 (RA 2014) APHA 22nd Edition 2500Ca B EDTA Method	2 mg/l to 500 mg/l

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Program Director**

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		Magnesium as Mg	IS 3025 (part 46) 1994 (RA 2014) APHA 22nd Edition 3500 Mg B	2 mg/l to 500 mg/l
		Chloride as Cl	IS 3025 (part 32) 1993 (RA 2014) APHA 22nd Edition 4500 Cl-	2 mg/l to 2000 mg /l
		Sulphates as SO4	IS 3025 (part 24) 1986 (RA 2014) APHA 22 nd edition 4500 SO4 2- E Turbidity Method	2 mg/l to 500 mg/l
		Reactive Silica as SiO2	IS 3025 (part 35) 1988 (RA 2014) APHA 22nd Edition 4500 SiO2 C Molybdo Silicate Method	1 mg/l to 200 mg/l
		Iron as Fe	IS 3025 (part 53) 2014 / APHA 22nd Edition 3500 Fe B 1,10 Phenanthroline method	0.1 mg/l to 10 mg/l
		Sodium as Na	IS 3025 (part 45) 1993 (RA 2014) APHA 22nd Edition 3500 Na B Flame Photometric Method	1 mg/l to 500 mg/l
		Potassium as K	IS 3025 (part 45) 1993 (RA 2014) APHA 22nd edition 3500 K B, Flame Photometric Method	1 mg/l to 500 mg/l
		Free carbon Dioxide	APHA 22nd Edition 4500 CO ₂ - C	1 mg/l to 50 mg/l

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Nitrate Nitrogen as NO ₃	IS 3025 (part 34) 1998 (RA 2014) Chromotropic Acid Method	0.5 mg/l to 100 mg/l
		pH Value @ 25° C	IS 3025 (part 11) 1983, (RA 2012) APHA 22 nd Edition 4500 H+ A B	2 to 12
		Turbidity	IS 3025 (part 10) 1984 (RA 2012) APHA 22 nd Edition 2130 B	1 NTU to 1000 NTU
		Total Suspended Solids	IS 3025 (part 17) 1984 (RA 2012) APHA 22 nd Edition 2540 D	5 mg/l to 2000 mg/l
		Total Dissolved Solids	IS 3025 (part 16) 1984 (RA 2012)/ APHA 22 nd Edition 2540 C	5 mg/l to 15000 mg/l
		Chloride as Cl	IS 3025 (part 32) 1993 (RA 2014) APHA 22 nd Edition 4500 Cl-8 Argentometric Method	2 mg/l to 2000 mg /l
		Sulphates as SO ₄	IS 3025 (part 24) 1986 (RA 2014) APHA 22 nd edition 4500 SO ₄ 2E Turbidity Method	2 mg/l to 1000 mg/l
		Nitrate Nitrogen as NO ₃	IS 3025 (part 34) 1998 (RA 2014) Chromotropic Acid Method	0.1 mg/l to 100mg/l
		Biochemical Oxygen demand (3 Days @ 27° C)	IS 3025 (part 44) 1993 (RA 2014)	5 mg/l to 10000mg/l
		Chemical Oxygen Demand	IS 3025 (part 58) 2012/ APHA 22 nd Edition 5220 C	5 mg/l to 20000 mg/l

NOTE: The Laboratory has demonstrated competence for the stated scope for **WATER**. This however **does not fully cover** the specification requirements of **BIS for the Packaged Drinking Water as per IS:14543 and the Packaged Natural Mineral Water IS:13428.**

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