

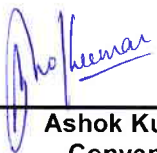


NABL

SCOPE OF ACCREDITATION

Laboratory	Aquadiagnostics Water Research & Technology Centre Limited, No. 57, Omshakthi Complex, 1 st Floor, G.B. Playa, Hosur Main Road, Bangalore, Karnataka		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	12.01.2017
Certificate Number	T-0913	Valid Until	11.01.2019
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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.	Potable Water/ Domestic Water & Packaged Drinking Water	Colour	IS 3025 (Part 4): 1983 (RA 2014) APHA (22 nd Edition) 2120 B:2012	5 Hazen to 75 Hazen
		Odour	IS 3025 (Part 5): 1983 (RA 2012)	Qualitative
		Turbidity NTU	IS 3025 (Part 10): 1984 (RA 2012) APHA (22 nd Edition) 2130 B:2012	1 NTU to 100 NTU
		pH	IS 3025 (Part 11): 1983 (RA 2012) APHA (22 nd Edition) 4500 H ⁺ B:2012	4 to 14
		Total Hardness as CaCO ₃	IS 3025 (Part 21): 1983 (RA 2014) APHA (22 nd Edition) 2340 C:2012	10 mg/L to 1000 mg/L
		Iron as Fe	IS 3025 (Part 53): 2003(RA 2014) APHA (22 nd Edition) 3500 Fe B:2012	0.1 mg/L to 50 mg/L
		Chloride as Cl	IS 3025 (Part 32): 1988 (RA 2014) APHA (22 nd Edition) 4500 Cl ⁻ B:2012	10 mg/L to 1000 mg/L
		Residual Free Chlorine as Cl ₂	IS 3025 (Part 26): 1986 (RA 2014) APHA (22 nd Edition) 4500 Cl G / F:2012	0.1 mg/L to 10 mg/L



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	Potable Water/ Domestic Water & Packaged Drinking Water	Fluoride as F	IS 3025 (Part 60): 2008 APHA (22 nd Edition) 4500 F D:2012	0.1 mg/L to 15 mg/L
		Total Dissolved Solids	IS 3025 (Part 16): 1984 (RA 2012) APHA (22 nd Edition) 2540 C:2012	10 mg/L to 10000 mg/L
		Calcium as Ca	IS 3025 (Part 40): 1991(RA 2014) APHA (22 nd Edition) 3500 Ca B:2012	10 mg/L to 1000 mg/L
		Magnesium as Mg	IS 3025 (Part 46): 1994 (RA 2014) APHA (22 nd Edition) 3500Mg B:2012	10 mg/L to 1000 mg/L
		Copper as Cu	IS 3025 (Part 42): 1992 (RA 2003) APHA (22 nd Edition) 3113 B/ 3111 C:2012	5 µg/L to 5000 µg/L
		Manganese as Mn	IS 3025 (Part 59): 2006 (RA2012) APHA (22 nd Edition) 3113 B/ 3111 C:2012	5 µg/L to 5000 µg/L
		Sulphate as SO ₄	IS 3025 (Part 24): 1986 (RA 2014) APHA (22 nd Edition) 4500 SO ₄ E:2012	5 mg/L to 1000 mg/L
		Sulphide as H ₂ S	IS 3025 (Part 29): 1986 (RA 2014) APHA (22 nd Edition) 4500 S ²⁻ F:2012	0.05 mg/L to 10 mg/L


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	Potable Water/ Domestic Water & Packaged Drinking Water	Nitrate as NO ₃	IS 3025 (Part 34): 1988 (RA 2014) APHA (22 nd Edition) 4500 NO ₃ B:2012	5 mg/L to 500 mg/L
		Nitrite as NO ₂	IS 3025 (Part 34): 1988 (RA 2014) APHA (22 nd Edition) 4500 NO ₂ B:2012	0.1 mg/L to 50 mg/L
		Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43): 1992 (RA 2014) APHA (22 nd Edition) 5530 C:2012	0.03 mg/L to 5.0 mg/L
		Mercury as Hg	IS 3025 (Part 48): 1994 (RA 2014) APHA (22 nd Edition) 3112 B:2012	1 µg/L to 1000 µg/L
		Cadmium as Cd	IS 3025 (Part 41): 1992 (RA 2014) APHA (22 nd Edition) 3113 B/ 3111 C:2012	2 µg/L to 1000 µg/L
		Selenium as Se	IS 3025 (Part 56): 2003 (RA 2014) APHA (22 nd Edition) 3113B/ 3111 C:2012	5 µg/L to 1000 µg/L
		Arsenic as As	IS 3025 (Part 37): 1988 (RA 2014) APHA (22 nd Edition) 3113 B / 3111 C:2012	5 µg/L to 1000 µg/L
		Cyanide as CN	IS 3025 (Part 27): 1986 (RA 2014) APHA (22 nd Edition) 4500 CN D, CN E:2012	0.05 mg/L 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
	Potable Water/ Domestic Water & Packaged Drinking Water	Lead as Pb	IS 3025 (Part 47): 1994 (RA 2014) APHA (22 nd Edition) 3113 B / 3111 C:2012	5 µg/L to 1000 µg/L
		Zinc as Zn	IS 3025 (Part 49): 1994 (RA 2014) APHA (22 nd Edition) 3113 B/ 3111 C:2012	0.005 mg/L to 10 mg/L
		Silver as Ag	IS 13428: 2005 (RA2014) Annexure J APHA (22 nd Edition) 3113 B/ 3111 C:2012	5 µg/L to 1000 µg/L
		Barium as Ba	IS 13428: 2005 (RA 2014) Annexure F APHA (22 nd Edition) 3113B / 3111 C:2012	5 µg/L to 5000 µg/L
		Antimony as Sb	IS 13428: 2005 (RA2014) Annexure G APHA (22 nd Edition) 3113 B/ 3111 C:2012	5 µg/L to 1000 µg/L
		Nickel as Ni	IS 13428: 2005 (RA2014) Annexure L APHA (22 nd Edition) 3113 B/ 3111 C:2012	5 µg/L to 1000 µg/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
	Potable Water/ Domestic Water & Packaged Drinking Water	Sodium as Na	IS 3025 (Part 45): 1993 (RA 2014) APHA (22 nd Edition) 3500 Na B:2012	10 mg/L to 1000 mg/L
		Anionic Surface Active Agents as MBAs	IS 13428: 2005 (RA 2014) Annexure K APHA (22 nd Edition) 5540 C:2012	0.05 mg/L to 10 mg/L
		Chromium Total as Cr	IS 13428: 2005 (RA 2014) Annexure J APHA (22 nd Edition) 3113 B /3111 C:2012	5 µg/L to 1000 µg/L
		Total Alkalinity as CaCO ₃	IS 3025 (Part 23): 1986 (RA 2014) APHA (22 nd Edition) 2320 B:2012	10 mg/L to 1000 mg/L
		Aluminium as Al	IS 3025 (Part 55): 2003 (RA 2014) APHA (22 nd Edition) 3113 B/ 3113 C:2012	5 µg/L to 1000 µg/L
		Boron as B	IS 13428: 2005 (RA 2014) Annexure H APHA (22 nd Edition) 4500 BC & BB:2012	0.1 mg/L to 10 mg/L
		Ammonia (as Total NH ₃ -N)	IS 3025 (Part 34):1988 (RA 2014) APHA (22 nd Edition) 4500 NH3F:2012	0.1 mg/L to 10 mg/L


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	Potable Water/ Domestic Water & Packaged Drinking Water	Mineral Oil	IS 3025 (Part 39): 1991 (RA 2014) Clause 5.0 APHA (22 nd Edition) 5520 B:2012	0.5 mg/L to 10 mg/L
		Molybdenum as Mo	APHA (22nd Edition) 3313 B / 3113 C:2012	5 µg/L to 1000 µg/L
		Chloramine as Cl ₂	APHA (22nd Edition) 4500 Cl F:2012	0.05 mg/L to 10 mg/L
		Potassium as K	IS 3025 (Part 45):1993 (RA 2014) APHA (22nd Edition) 3500 K B :2012	10 mg/L to 1000 mg/L

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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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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	12.01.2017
Certificate Number	T-0914	Valid Until	11.01.2019
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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.	Potable Water / Domestic Water	Total Coliforms MPN	IS 1622: 1981 (RA 2009)	(2 MPN to 1600 MPN)/100 mL
		Faecal Coliforms	IS 1622: 1981 (RA 2009)	(2 MPN to 1600 MPN)/100 mL
		E.coli	IS 1622: 1981 (RA 2009)	Qualitative (Presence or Absence/100 mL)
		Standard Plate Count	IS 1622: 1981 (RA 2009)	≥ 1 cfu/mL
2.	Packaged Drinking Water	Total Coliforms MPN	IS 5401 (Part 1): 2002 IS 15185: 2002	Presence or Absence / 250 mL
		E.coli Presence or Absence	IS 15185: 2002 IS 5887 (Part 1): 1976	Presence or Absence / 250 mL
		Aerobic Microbial count at 37 °C / 24 hrs At 20 °C to 22 °C / 72 hrs	IS 5402: 2002	≥ 1 cfu/mL
		Faecal Streptococci	IS 5887 (Part 2): 1976 IS 15186: 2002	Presence or Absence / 250 mL
		Staphylococcus aureus	IS 5887 (Part 2): 1976	Presence or Absence / 250 mL
		Sulphite Reducing Anaerobes	IS 13428: 2005 (RA 2014) Annex C	Presence or Absence / 50 mL
		Pseudomonas aeruginosa	IS 13428: 2005 (RA 2014) Annex D	Presence or Absence / 250 mL

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Discipline	Biological Testing	Issue Date	12.01.2017
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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
	Packaged Drinking Water	Yeast and Mould	IS 5403: 1999 IS 14543: 2004 (RA 2009)	Presence or Absence / 250 mL
		Salmonella	IS 5887 (Part 3): 1999 IS 15187: 2002 IS 14543: 2004 (RA 2009)	Presence or Absence / 250 mL
		Shigella	IS 5887 (Part 7): 1999 IS 14543: 2004 (RA 2009)	Presence or Absence / 250 mL
		Vibrio Cholera and Vibrio Parahaemolyticus	IS 5887 (Part 5): 1976 IS 14543: 2004 (RA 2009)	Presence or Absence / 250 mL

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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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