



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

### Laboratory

**Metallurgical Services Private Limited, Mehta House, Ashok Silk Mills Lane, Off. L.B.S. Marg, Ghatkopar (W), Mumbai, Maharashtra**

Location 1: Mehta House, Ashok Silk Mills Lane, Off. L.B.S. Marg, Ghatkopar (W), Mumbai, Maharashtra

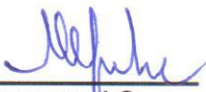
Location 2: 17, A-1, Shiv Shakti Industrial Estate, Off. L.B.S. Marg, Ghatkopar (W), Mumbai, Maharashtra

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-7586 (in lieu of T-0135, T-0136 & T-4085) **Page 23 of 49**

**Validity** 15.07.2018 to 14.07.2020 **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
II.	WATER			
1.	Packaged Drinking Water/Packaged Natural Mineral Water/Potable Drinking Water/Water for Processed Food Industry	Colour, Hazenunits	IS3025 (Part 4) 1983 (RA 2012)	0.5 Hazenunits to 500 Hazenunits
		Odour	IS3025 (Part 5) 1983 (RA 2012)	Disaggreable to Aggreable
		Turbidity, NTU	IS 3025 (Part 10)1984 (RA 2012)	0.02 NTU to 1000 NTU
		Total Dissolved solids(TDS)	IS 3025 (Part 16) 1984 (RA 2012)	10 mg/L to 1000 mg/L
		pH Value	IS 3025 (Part 11)1983 (RA 2012)	2 to 12
		Total Solids	IS 3025 (Part 15) 1984 (RA 2014)	1 mg/L to 1000 mg/L
		Barium (as Ba)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Copper (as Cu)	IS 30 IS 25 (Part 2) 2004 (RA 2014)	0.01 mg/L to 1000 mg/L
		Iron (as Fe)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Manganese (as Mn)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Nitrate (as NO <sub>3</sub> )	IS 3025 (Part 34) 1988 (RA 2014)/EPA 353.2(1993)	0.25 mg/L to 45 mg/L
		Zinc (as Zn)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Silver (as Ag)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L

  
**Venugopal C**  
 Convenor

  
**N. Venkateswaran**  
 Program Manager



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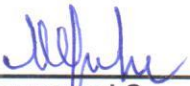
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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Aluminium (as Al)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Chloride (as Cl)	IS 3025 (Part 32)1988 (RA 2014)	0.1 mg/L to 5000 mg/L
		Selenium (as Se)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 300 mg/L
		Sulphate (as SO <sub>4</sub> )	IS 3025(Part 24) 1986 (RA 2014)	4 mg/L to 1000 mg/L
		Alkalinity (as HCO <sub>3</sub> )	IS 3025(Part 23) 1986 (RA 2014)	0.5 mg/L to 500 mg/L
		Calcium(as Ca)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Magnesium (as Mg)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Sodium (as Na)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Residual free chlorine (as Cl)	IS 3025(Part 26) 1986 (RA 2014)/EPA 330.5 (1978)	0.01 mg/L to 100 mg/L
		Oil and Grease	IS 3025 (Part 39) 1991 (RA 2014)	0.1 mg/L to 2000 mg/L
		Antimony (as Sb)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.001 mg/L to 100 mg/L
		Borates (as B)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES/EPA 212.3 (1974)	0.01 mg/L to 100 mg/L
		Total hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21)1983 (RA 2014)	1 mg/L to 5000 mg/L
		Chromium (as Cr <sup>6+</sup> )	IS 3025(Part 52) 2003 (RA 2014)	0.1 mg/L to 1000 mg/L

  
**Venugopal C**  
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**N. Venkateswaran**  
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		Mercury (as Hg)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.001 mg/L to 100 mg/L
		Cadmium (as Cd)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.005 mg/L to 100 mg/L
		Arsenic (as As)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 100 mg/L
		Lead (as Pb)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.005 mg/L to 100 mg/L
		Chromium (as Cr)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 100 mg/L
		Nickel (as Ni)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 100 mg/L
2.	<b>Reagent Grade Water (GRADE 1, 2, &amp; 3)</b>	Specific conductivity, $\mu\text{S/cm}$ at 25°C,	IS 3025 (Part 14) 1984 (RA 2013)	0.5 $\mu\text{S/cm}$ to 4000 $\mu\text{S/cm}$ at 25°C
		pH at 25 °C	IS 3025 (Part 11):1983 (RA 2012)	2 to 12 pH
		Total solids or non volatile residue at 105°C	IS 3025 (Part 15) 1984 (RA 2014)	1 mg/L to 1000 mg/L
		Silica (as SiO <sub>2</sub> )	IS 3025 (Part 35) 1988 (RA 2014)	0.01 mg/L to 1000 mg/L
		Colour retention of KMnO <sub>4</sub> at 27 x 2 °C, Minutes	IS 1070 (Annex A) 1992 (RA 2013)	Qualitative
3.	<b>Water for Construction</b>	Organic Solids	IS 3025 (Part 18) 1984 (RA 2012)	1 mg/L to 1000 mg/L
		Inorganics Solid	IS 3025 (Part 18) 1984 (RA 2012)	1 mg/L to 1000 mg/L
		Sulphates (as SO <sub>4</sub> )	IS 3025 (Part 24) 1986 (RA 2014)	1 mg/L to 1000 mg/L

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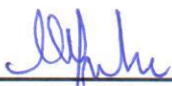
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		Chlorides (as Cl)	IS3025 (Part 32) 1988 (RA 2014)	1 mg/L to 5000 mg/L
		Suspended matter	IS3025 (Part 17) 1984 (RA 2012)	1 mg/L to 1000 mg/L
		Acidity (ml of 0.02 N NaOH) (as mg/L Ca CO <sub>3</sub> )	IS3025 (Part 22) 1986 (RA 2014)	0.1 ml to 50/100 ml 0.5 mg/L to 500 mg/L
		Alkalinity (mL of 0.02 N H <sub>2</sub> SO <sub>4</sub> ) (as mg/L Ca CO <sub>3</sub> )	IS3025 (Part 23) 1986 (RA 2014)	0.1 ml to 50 ml/100ml 0.5 mg/L to 500 mg/L
		pH Value	IS 3025 (Part 11) 1983 (RA 2012)	2 to 12
4.	<b>Water for Storage Batteries</b>	Colour	IS 3025 (Part 4) 1983 (RA 2012)	1 to 500 True Colour Units
		Odour	IS 3025 (Part 5) 1983 (RA 2012)	Qualitative
		Turbidity	IS 3025 (Part 10)1984 (RA 2012)	0.02 NTU to 1000 NTU
		Non-Volatile Solids	IS 1069 (A-2) 1993 (RA 2013)	1 mg/L to 1000 mg/L
		Chloride (as Cl)	IS 3025 (Part 32) 1988 (RA 2014)	1 mg/L to 5000 mg/L
		pH Value	IS 3025 (Part 11)1983 (RA 2012)	2 to 12
		Heavy metal (as Pb)	IS 7017:1973 (RA 2015)	0.05 mg/L to 100 mg/L
		Hardness (as CaCo <sub>3</sub> )	IS 3025 (Part 21) 1983 (RA 2014)	1 mg/L to 5000 mg/L
		Iron (as Fe)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.02 mg/L to 100 mg/L

  
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		Manganese(as Mn)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.02 mg/L to 100 mg/L
		Oxidizable matter	IS 1069 (A-3) 1993 (RA 2013)	Qualitative
		Specific electrical conductivity at 25 °C µS/cm	IS 3025 (Part 14) 1984 (RA 2013)	0.5 to 4000 µS/cm at 25°C
		Total dissolved solids(TDS)	IS 3025 (Part 16) 1984 (RA 2012)	1 mg/L to 1000 mg/L
5.	Water for swimming pools	pH	IS 3025 (Part 11)1983 (RA 2012)	2 pH to 12 pH
		Total alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part 23) 1986 (RA 2014)	0.5 mg/L to 500 mg/L
		Aluminium (as Al)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Total Residual Chlorine(Cl)	IS 3025(Part 26) 1986 (RA 2014)/EPA 330.5	0.01 mg/L to 100 mg/L
		Oxygen (as O <sub>2</sub> )absorbed in 4 hrs. at 27 °C	IS 3025(Part-63):2007 (RA 2013)	0.5 mg/L to 50 mg/L
		Total dissolved solids(TDS)	IS 3025 (Part 16) 1984 (RA 2012)	1 mg/L to 1000 mg/L
		Chloride (as Cl)	IS 3025 (Part 32) 1988 (RA 2014)	0.01 mg/L to 5000 mg/L
		Iron(as Fe)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Heavy metal (as Pb)	IS 7017:1973 (RA 2015)	0.05 mg/L to 100 mg/L
		Colour	IS 3025 (Part 4) 1983 (RA 2012)	1 Hazen to 500 Hazen Units
		Turbidity	IS 3025 (Part 10)1984 (RA 2012)	0.02 NTU to 1000 NTU

  
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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
		Odour	IS 3025 (Part 5) 1983 (RA 2012)	Qualitative
6.	CPCB class a-drinking water source without conventional treatment but after disinfection, cpcb class b-outdoor bathing (organised), Cpcb Class c-drinking water source after conventional treatment and disinfection, cpcb Class d-water for propagation of wild life and fisheries	pH	IS 3025 (Part 11)1983 (RA 2012)	2 to 12
		Dissolved oxygen (DO)	IS 3025 (Part 38) 1989 (RA 2014)	0.5 mg/L to 10 mg/L
		Biochemical Oxygen Demand (BOD), 3 days 27 °C	IS 3025 (Part 44) 1993 (RA 2014)	0.5 mg/L to 500 mg/L
		Free Ammonia(as NH3)	IS 3025 (part 34) 1988 (RA 2014)	0.5 mg/L to 500 mg/L
7.	Cpcb Class E-Water For Irrigation, Industrial Cooling, Controlled Waste Disposal	pH	IS 3025 (Part 11)1983 (RA 2012)	2 to 12
		Electrical Conductivity at 25°C	IS 3025 (Part 14) 1984 (RA 2013)	0.5 µS/cm to 4000 µS/cm at 25°C
		Sodium Adsorption Ratio(SAR)	Clause 4.1.2 of IS 11624:1986 (RA 2009)	0.5 to 30 me/L
		Boron (as B)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES EPA 212.3(1974)	0.01 mg/L to 100 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
8.	Feed Water At Economizer Inlet	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21):1983 (RA 2014)	1 mg/L to 5000 mg/L
		pH value	IS 3025 (Part 11):1983 (RA 2012)	2 to 12
		Oxygen (as O <sub>2</sub> )	25 of IS 3550:1965	0.5 mg/L to 50 mg/L
		Iron (as Fe)	A-1 & A-2 of IS 10496:1983 (RA 2012)	0.01 mg/L to 1000 mg/L
		Copper(as Cu)	A-1 & A-2 of IS 10496:1983 (RA 2012)	0.01 mg/L to 1000 mg/L
		Silica (as SiO <sub>2</sub> )	A-3 of IS 10496:1983 (RA 2012)	0.01 mg/L to 10000 mg/L
		Residual hydrazine (as N <sub>2</sub> H <sub>4</sub> )	26 of IS 3550:1965 (RA 2014)	0.02 mg/L to 500 mg/L
		Conductivity after passing through cation exchanger column at 25 °C	7 of IS 3550:1965 (RA 2014)	0.5 µS/cm to 4000 µS/cm at 25 °C
	Oxygen (as O <sub>2</sub> )consumed in 4 hour	IS 3025(Part-63):2007 (RA 2013)	0.5 mg/L to 50 mg/L	
9.	Feed Water At Boiler	Phosphate (as PO <sub>4</sub> )	IS 3025 (Part 31) 1988 (RA 2014)	0.05 mg/L to 1000 mg/L
		Caustic, alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part 23):1964 (RA 2014)	0.5 mg/L to 500 mg/L
		Total alkalinity (as CaCO <sub>3</sub> )	13 of IS 3025:1964 (RA 2014)	0.5 mg/L to 500 mg/L
		Silica (as SiO <sub>2</sub> )	A-3 of IS 10496:1983 (RA 2014)	0.01 mg/L to 10000 mg/L
		Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21):1983 (RA 2014)	1 mg/L to 5000 mg/L

**Venugopal C**  
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		Hydrazine (as N <sub>2</sub> H <sub>4</sub> )	26 of IS 3550:1965	0.02 mg/L to 500 mg/L
		Total dissolved solids(TDS)	IS 3025 (Part 16) 1984 (RA 2012)	1 mg/L to 1000 mg/L
		Chloride (as NaCl)	A-5 of IS 10496:1983 (RA 2012)	1 mg/L to 5000 mg/L
		pH value	IS 3025 (Part 11)1983 (RA 2012)	2 to 12
10.	Feed Water At Economizer Inlet	pH value	IS 3025 (Part 11)1983 (RA 2012)	2 to 12
		Total Hardness (as CaCo <sub>3</sub> )	IS 3025 (Part 21)1983 (RA 2014)	1 mg/L to 5000 mg/L
		Silica (as SiO <sub>2</sub> )	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Iron (as Fe)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Manganese(as Mn)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Ammonia (as NH <sub>3</sub> )	IS 3025 (Part 34) 1988 (RA 2014)	0.5 mg/L to 500 mg/L
		Sodium (as Na) mg/L	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Dissolved oxygen(DO) (as O <sub>2</sub> )	IS 3025 (Part 38) 1989 (RA 2014)	0.5 mg/L to 10 mg/L
11.	Water for fermentation Industry	Colour	IS 3025 (Part 4) 1983 (RA 2012)	1 Hazen to 500 Hazen units
		Odour	IS 3025 (Part 5) 1983 (RA 2012)	Qualitative

  
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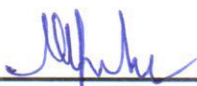
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		Turbidity, NTU, Max	IS 3025 (Part 10)1984 (RA 2012)	0.02 NTU to 1000 NTU
		Total Dissolved solids(TDS)	IS 3025 (Part 16) 1984 (RA 2012)	1 mg/L to 1000 mg/L
		pH Value	IS 3025 (Part 11)1983 (RA 2012)	2 to 12
		Total Hardness (as Ca CO <sub>3</sub> )	IS 3025 (Part 21)1983 (RA 2014)	1 mg/L to 5000 mg/L
		Copper (as Cu)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Iron (as Fe)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Manganese (as Mn)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Nitrate (as NO <sub>3</sub> )	IS 3025 (Part 34) 1988 (RA 2014)	0.25 mg/L to 45 mg/L
		Chloride (as Cl)	IS 3025 (Part 32) 1988 (RA 2014)	1 mg/L to 500 mg/L
		Selenium (as Se)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 300 mg/L
		Sulphates (as SO <sub>4</sub> )	IS 3025 (Part 24) 1986 (RA 2014)	0.1 mg/L to 1000 mg/L
		Magnesium (as Mg)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Zinc (as Zn)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Arsenic (as As)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 100 mg/L
		Lead (as Pb)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.005 mg/L to 100 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
		Chromium (as Cr)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 100 mg/L
12.	<b>Water for Brewing And Water For Distillery Industry</b>	Total Dissolved solids(TDS)	IS 3025 (Part 16) 1984 (RA 2012)	1 mg/L to 1000 mg/L
		Carbonate hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21)1983 (RA 2014)	1 mg/L to 5000 mg/L
		Alkalinity (asCaCO <sub>3</sub> )	IS 3025 (Part 23) 1986 (RA 2014)	0.5 mg/L to 500 mg/L
		Calcium (as Ca)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Chloride (as NaCl)	Clause 24 of IS 3025:1964	1 mg/L to 5000 mg/L
		pH Value	IS 3025 (Part 11)1983 (RA 2012)	1 pH to 13 pH
		Manganese (as Mn)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
13.	<b>Water for Tanning Industry</b>	Colour, (Hazenunits)	IS 3025 (Part 4) 1983 (RA 2012)	1 Hazen to 500 Hazen unit
		Turbidity	IS 3025 (Part 10)1984 (RA 2012)	0.02 NTU to 1000 NTU
		pH	IS 3025 (Part 11)1983 (RA 2012)	2 to 12
		Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part 23) 1986 (RA 2014)	0.5 mg/L to 500 mg/L
		Total hardness (asCaCO <sub>3</sub> )	IS 3025 (Part 21)1983 (RA 2014)	1 mg/L to 5000 mg/L
		Iron(as Fe)	IS 3025 (Part-2)	0.01 mg/L to 1000 mg/L
		Manganese(as Mn)	IS 3025 (Part-2)	0.01 mg/L to 1000 mg/L
	Chlorides(as Cl)	IS 3025 (Part 23) 1986 (RA 2014)	1 mg/L to 5000 mg/L	

  
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### Laboratory

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14.	Water for Paper And Pulp Industry	Colour, (Hazenunits)	IS 3025 (Part 4) 1983 (RA 2012)	1 to 500
		Turbidity	IS 3025 (Part 10)1984 (RA 2012)	0.02 NTU to 1000 NTU
		Total Dissolved solids(TDS)	IS 3025 (Part 16) 1984 (RA 2012)	1 mg/L to 1000 mg/L
		Total hardness (asCaCO <sub>3</sub> )	IS 3025 (Part 21)1983 (RA 2014)	1 mg/L to 5000 mg/L
		Iron (as Fe)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Manganese (as Mn)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Total Residual Chlorine (as Cl)	IS 3025 (Part 26) 1986 (RA 2014)/EPA 330.5	0.01 mg/L to 100 mg/L
15.	Water for Rayon Manufacturing Industry	Colour, (Hazenunits)	IS 3025 (Part 4) 1983 (RA 2012)	1 to 500
		Turbidity	IS 3025 (Part 10)1984 (RA 2012)	0.02 mg/L to 1000 mg/L
		Total Dissolved solids(TDS)	IS 3025 (Part 16) 1984 (RA 2012)	1 mg/L to 1000 mg/L
		Total Alkalinity (asCaCO <sub>3</sub> )	IS 3025 (Part 23) 1986 (RA 2014)	0.5 mg/L to 500 mg/L
		Total hardness (asCaCO <sub>3</sub> )	IS 3025 (Part 21)1983 (RA 2014)	1 mg/L to 5000 mg/L
		Silica (as SiO <sub>2</sub> )	IS 3025 (Part 35):1988 (RA 2014)	0.01 mg/L to 10000 mg/L
		Iron (as Fe)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L

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		Manganese (as Mn)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
16.	Water for Ice Manufacturing Industry	Heavy metal (as Pb)	IS 7017:1973 (RA 2015)	0.05 mg/L to 100 mg/L
		Colour	IS 3025 (Part 4) 1983 (RA 2012)	1 Hazen to 500 Hazen units
		Odour	IS3025 (Part 5) 1983 (RA 2012)	Qualitative
		Turbidity	IS 3025 (Part 10)1984 (RA 2012)	0.02 NTU to 1000 NTU
		Total solids	IS 3025 (Part 16) 1984 (RA 2012)	1 mg/L to 1000 mg/L
		pH	IS 3025 (Part 11)1983 (RA 2012)	2 pH to 12 pH
		Alkalinity ((asCaCO3)	IS 3025 (Part 23) 1986 (RA 2014)	0.5 mg/L to 500 mg/L
		Total hardness (asCaCO3)	IS 3025 (Part 21)1983 (RA 2014)	1 mg/L to 5000 mg/L
		Copper (as Cu)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Iron (as Fe)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
	Manganese (as Mn)	IS 3025(Part 2) 2004 (RA 2014)	0.01 mg/L to 1000 mg/L	
	Chloride (as Cl)	IS 3025 (Part 32)1988 (RA 2014)	1 mg/L to 500 mg/L	
	Selenium (as Se)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 300 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
		Sulphates (as SO <sub>4</sub> )	IS 3025(Part 24) 1986 (RA 2014)	0.1 mg/L to 1000 mg/L
		Magnesium (as Mg)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Zinc (as Zn)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Lead (as Pb)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.005 mg/L to 100 mg/L
		Arsenic (as As)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.001 mg/L to 100 mg/L
		Chromium (as Cr)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 100 mg/L
17.	Ground Water/ Borewell Water	pH	IS 3025 (Part 11)1983 (RA 2012)	2 pH to 12 pH
		Temperature	IS 3025 (Part 9) 1984 (RA 2012)	10 degC to 100 degC
		Specific electrical conductivity at 25°C (µS/cm)	IS 3025 (Part14) 1984 (RA 2013)	0.5 µS/cm to 4000 µS/cm
		Turbidity	IS 3025 (Part 10)1984 (RA 2012)	0.02 NTU to 1000 NTU
		Total Suspended Solids(TSS)	IS 3025 (Part 17) 1984 (RA 2012)	1 mg/L to 1000 mg/L
		Total Dissolved solids(TDS)	IS 3025 (Part 16) 1984 (RA 2012)	1 mg/L to 1000 mg/L
		Alkalinity (as HCO <sub>3</sub> )	IS 3025(Part 23) 1986 (RA 2014)	0.5 mg/L to 500 mg/L
		Nitrate (as NO <sub>3</sub> )	IS 3025 (Part 34) 1988 (RA 2014) EPA 353.2 (1992)	0.25 mg/L to 45 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
		Ammonical nitrogen (as NH3)	IS 3025 (Part 34) 1988 (RA 2014)	0.5 mg/L to 500 mg/L
		Total nitrogen (as N)	IS 3025 (Part 34) 1988 (RA 2014)	0.5 mg/L to 500 mg/L
		Hardness (as CaCo3)	IS 3025 (Part 21)1983 (RA 2014)	1 mg/L to 5000 mg/L
		Chloride (as Cl)	IS 3025 (Part 32)1988 (RA 2014)	1 mg/L to 500 mg/L
		Sulphate (as SO4)	IS 3025 (Part 24) 1986 (RA 2014)	0.1 mg/L to 1000 mg/L
		Phosphate (as PO4)	IS 3025 (Part 31) 1988 (RA 2014)	0.05 mg/L to 1000 mg/L
		Sodium (as Na)	IS 3025(Part 2) 2004 (RA 2014)	0.01 mg/L to 1000 mg/L
		Potassium (as K)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Calcium (as Ca)	IS 3025(Part 2) 2004 (RA 2014)	0.01 mg/L to 1000 mg/L
		Magnesium (as Mg)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Borates (as B)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES /EPA 212.3	0.01 mg/L to 100 mg/L
		Biochemical oxygen demand (BOD) (3 days at 27°C)	IS 3025 (Part 44) 1993 (RA 2014)	1 mg/L to 500 mg/L
		Chemical oxygen demand (COD)	IS 3025 (Part 58) 2006 (RA 2012)	0.5 mg/L to 1000 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
18.	Water for Textile Industry	Colour	IS 3025 (Part 4) 1983 (RA 2012)	1 Hazen to 500 Hazen units
		Turbidity	IS 3025 (Part 10)1984 (RA 2012)	0.02 NTU to 1000 NTU
		pH Value	IS 3025 (Part 11)1983 (RA 2012)	2 to 12
		Total Hardness (as CaCO3)	IS 3025 (Part 21)1983 (RA 2014)	1 mg/L to 5000 mg/L
		Iron (as Fe)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Manganese (as Mn)	IS 3025(Part 2) 2004 (RA 2014)	0.01 mg/L to 1000 mg/L
		Aluminium (as Al)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Sulphate (as SO4)	IS 3025 (Part 24) 1986 (RA 2014)	0.1 mg/L to 1000 mg/L
		Chloride (as Cl)	IS 3025 (Part 32)1988 (RA 2014)	1 mg/L to 5000 mg/L
		Total alkalinity (as CaCO3)	IS 3025 (Part 23) 1986 (RA 2014)	0.5 mg/L to 500 mg/L
19.	Water for Fish Processing Industry	Colour	IS 3025 (Part 4) 1983 (RA 2012)	1 Hazen to 500 Hazen units
		Odour	IS 3025 (Part 5) 1983 (RA 2012)	Qualitative
		Turbidity	IS 3025 (Part 10)1984 (RA 2012)	0.02 NTU to 1000 NTU
		pH	IS 3025 (Part 11)1983 (RA 2012)	2 pH to 12pH

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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
		Total Dissolved Solids(TDS)	IS 3025 (Part 16) 1984 (RA 2012)	1 mg/L to 1000 mg/L
		Alkalinity (as CaCO <sub>3</sub> ) mg/L	IS 3025 (Part 23) 1986 (RA 2014)	0.5 mg/L to 500 mg/L
		Chloride (as NaCl)	IS 3025 (Part 32)1988 (RA 2014)	1 mg/L to 5000 mg/L
		Sulphates (as SO <sub>4</sub> )	IS 3025 (Part 24) 1986 (RA 2014)	0.1 mg/L to 1000 mg/L
		Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21)1983 (RA 2014)	1.0 mg/L to 5000 mg/L
		Iron (as Fe)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Copper (as Cu)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 1000 mg/L
		Lead (as Pb))	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.005 mg/L to 100 mg/L
		Mercury (as Hg)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.001 mg/L to 100 mg/L
		Cadmium (as Cd)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.005 mg/L to 100 mg/L
		Arsenic (as As)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 100 mg/L
		Chromium (as Cr)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 100 mg/L
		Selenium (as Se)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 300 mg/L
		Free chlorine(as Cl)	IS 3025(Part 26) 1986 (RA 2014)/EPA 330.5 (1978)	0.01 mg/L to 100 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
III.	<b>POLLUTION &amp; EFFLUENTS(ENVIRONMENT)</b>			
1.	<b>Industrial Effluents</b>	Colour	IS 3025 (Part 4) 1983 (RA 2012)	1 to 500 true colour units
		Odour	IS 3025 (Part 5) 1983 (RA 2012)	(Qualitative) Disagreeable to Agreeable
		Total Suspended solids	IS 3025 (Part 17) 1984 (RA 2012)	1 mg/L to 1000 mg/L
		pH Value	IS 3025 (Part 11)1983 (RA 2012)	1 to 13
		Temperature °C	IS 3025 (Part 9) 1984 (RA 2012)	10 degC to 60 degC
		Nitrate (as NO3)	IS 3025 (Part 34) 1988 (RA 2014)EPA 353.2 (1993)	0.25 mg/L to 45 mg/L
		Total residual chlorine (as Cl)	IS 3025(Part 26) 1986 (RA 2014) EPA330.5(1978)	0.01 mg/L to 100 mg/L
		Manganese (as Mn)	IS 3025 (Part 2) 2004 (RA 2014) ICP-OES	0.1 mg/L to 20 mg/L
		Copper (as Cu)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	1 mg/L to 200 mg/L
		Zinc (as Zn)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.1 mg/L to 25 mg/L
	Iron (as Fe)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.1 mg/L to 20 mg/L	
	Vanadium (as V)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.1 mg/L to 20 mg/L	

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		Amonical nitrogen (as NH <sub>3</sub> )	IS 3025 (Part 34) 1988 (RA 2014)	3 mg/L to 100 mg/L
		Biochemical oxygen demand (BOD) (3 days at 27°C)	IS 3025 (Part 44) 1993 (RA 2014)	5 mg/L to 500 mg/L
		Chemical oxygen demand (COD)	IS 3025 (Part 58) 2006 (RA 2012)	5 mg/L to 1000 mg/L
		Selenium (as Se)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 300 mg/L
		Oil & Grease	IS 3025(Part 39) 1991 (RA 2014)	4 mg/L to 100 mg/L
		Arsenic (as As)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.01 mg/L to 100 mg/L
		Cadmium (as Cd)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.1 mg/L to 10 mg/L
		Chromium (as Cr)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.1 mg/L to 20 mg/L
		Hexavalent chromium (as Cr+6)	IS 3025 (Part 52) 2003 (RA 2014)	0.2 mg/L to 100 mg/L
		Mercury (as Hg)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.5 mg/L to 10 mg/L
		Lead (as Pb)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.005 mg/L to 100 mg/L
		Nickel (as Ni)	IS 3025 (Part 2) 2004 (RA 2014)/ICP-OES	0.1 mg/L to 20 mg/L
		Dissolved phosphates (as P)	IS 3025(Part 31) 1988 (RA 2014)	0.1 mg/L to 50 mg/L

  
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