

Laboratory	Saturn Quality Certifications Pvt. Ltd. (Research & Analytical Division), V-17, Modern Industrial Estate (M.I.E.), Red Cross Road, Bahadurgarh, Haryana		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	01.04.2016
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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/ Drinking Water/ Raw Water/ Ground Water/ Borewell Water	pH	IS 3025 (Part 11): 1983 (RA 2002) APHA (22 nd Edition) 4500-H ⁺ B: 2012	1 to 14
		Total Dissolved Solid	IS 3025 (Part 16): 1984 (RA 2006) APHA (22 nd Edition) 2540 C: 2012	1.0 mg/l to 10000 mg/l
		Conductivity	IS 3025 (Part 14): 1984 (RA 2003) APHA (22 nd Edition) 2510 B: 2012	1 μS/cm to 5 mS/cm
		Turbidity	IS 3025 (Part 10): 1984 (RA 2006) APHA (22 nd Edition) 2130 B: 2012	1 NTU to 1000 NTU
		Acidity as CaCO ₃	IS 3025 (Part 22): 1986 (RA 2003) APHA (22 nd Edition) 2310 B: 2012	1 mg/l to 500 mg/l
		Alkalinity as CaCO ₃	IS 3025 (Part 23): 1986 (RA 2009) APHA (22 nd Edition) 2320 B: 2012	1 mg/l to 1000 mg/l
		Total Hardness as CaCO ₃	IS 3025 (Part 21): 2009 APHA (22 nd Edition) 2340 C: 2012	0.5 mg/l to 1000 mg/l
		Calcium as Ca	IS 3025 (Part 40): 1991 (RA 2003) APHA (22 nd Edition) 3500 CaB: 2012	1.0 mg/l to 1000 mg/l
		Magnesium as Mg	IS 3025 (Part 46): 1994 (RA 2009) APHA (22 nd Edition) 2340B: 2012	1 mg/l to 500 mg/l
		Chloride Cl	IS 3025 (Part 32): 1988 (RA 2007) APHA (22 nd Edition) 4500-Cl- B: 2012	1.0 mg/l to 1000 mg/l

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	Potable Water/Drinking Water/Raw Water/Ground Water/Borewell Water	Temperature	IS 3025 (Part 9): 1984 (RA 2002) APHA (22 nd Edition) 2550 B: 2012	Ambient to 600 °C
		Sulphate as SO ₄	IS 3025 (Part 24): 1986 (RA 2003) APHA (22 nd Edition) 4500E: 2012	1 mg/l to 400 mg/l
		Residual Chlorine	IS 3025 (Part 26): 1986 (RA 2003) APHA (22 nd Edition) 3500 Cl- B: 2012	0.1 mg/l to 1.0 mg/l
		Phosphate as PO ₄	IS 3025 (Part 31): 1988 (RA 2003) APHA (22 nd Edition) 4500P,D: 2012	0.02 mg/l to 25 mg/l
		Sulphite as SO ₃	IS 3025 (Part 28): 1986 (RA 2003) APHA (22 nd Edition) 4500 SO ₃ -B: 2012	2 mg/l to 200mg/l
		Silica as SiO ₂	IS 3025 (Part 35): 1988 (RA 2003) APHA (22 nd Edition) 4500 SiO ₂ C: 2012	0.2 mg/l to 25 mg/l
		Iron as Fe	IS 3025 (Part 53): 2003 (RA 2009) APHA (22 nd Edition) 3111 B/C: 2012	0.02 mg/l to 100 mg/l
		Hexa Chromium as Cr ⁶⁺	IS 3025 (Part 52): 2003 APHA (22 nd Edition) 3500 Cr B: 2012	0.05 mg/l to 1 mg/l
		Color	IS 3025 (Part 4): 1983 (RA 2006) APHA (22 nd Edition) 2120 B: 2012	1 Hazen Unit to 500 Hazen Unit

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	Potable Water/Drinking Water/Raw Water/Ground Water/Borewell Water	Phenolic compounds	IS 3025 (Part 43): 1992 (RA 2003) APHA (22 nd Edition) 5530 C/D: 2012	0.01 mg/l to 0.10 mg/l
		Ammonical Nitrogen as NH ₃	IS 3025 (Part 34): 1988 (RA 2003)	1 mg/l to 100 mg/l
		Total Nitrogen as N	IS 3025 (Part 34): 1988 (RA 2003)	1 mg/l to 100 mg/l
		Nitrogen Nitrate as NO ₃	IS 3025 (Part 34): 1988 (RA 2003)	0.1 mg/l to 50.0 mg/l
		Nitrogen Nitrite as NO ₂	IS 3025 (Part 34): 1988 (RA 2003)	0.01 mg/l to 20 mg/l
		Boron as B,	IS 3025 (Part 57): 2005 (RA 2009) APHA (22 nd Edition) 4500 B: 2012	0.02 mg/l to 2 mg/l
		Anionic Surfactant	APHA (22 nd Edition) 5540 C: 2012	0.02 mg/l to 10.0 mg/l
		Fluoride as F	IS 3025 (Part 60): 2008 APHA (22 nd Edition) 4500-F- D: 2012	0.1 mg/l to 5.0 mg/l
		Sodium as Na	IS 3025 (Part 45): 1993 (RA 2003) APHA (22 nd Edition) 3500 Na B: 2012	0.5 mg/l to 100 mg/l
		Potassium as K	IS 3025 (Part 45): 1993 (RA 2003) APHA (22 nd Edition) 3500 K B: 2012	0.1 mg/l to 50 mg/l
		Aluminum	IS 3025 (Part 55): 2003 APHA (22 nd Edition) 3500 Al-B: 2012	0.03 mg/l to 0.1 mg/l

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	Potable Water/Drinking Water/Raw Water/Ground Water/Borewell Water	Sulphide	IS 3025 (Part 29): 1986 (RA 2003)	0.5 mg/l to 2 mg/l
		Total Solids	IS 3025 (Part 15): 1984 (RA 2005)	1 mg/l to 2000 mg/l
		Odour	IS 3025 (Part 5): 1983 (RA 2005)	Qualitative
		Fixed solids (Inorganic Solids)	IS 3025 (Part 18): 1984 (RA 2005)	5 mg/l to 4000 mg/l
		Manganese as Mn	IS 3025 (Part 59): 2006	0.1 mg/l to 0.5 mg/l
		Mercury	IS 3025 (Part 48): 1994 (RA 2003)	0.02 mg/l to 1.0 mg/l
		Volatile solids (Organic Solid)	IS 3025 (Part 18): 1984 (RA 2005)	1 mg/l to 1000mg/l
2.	Swimming Pool Water	pH	IS 3025 (Part 11): 1983 (RA 2002) APHA (22 nd Edition) 4500-H+ B: 2012	1 to 14
		Total Dissolved Solid	IS 3025 (Part 16): 1984 (RA 2006) APHA (22 nd Edition) 2540 C: 2012	1.0 mg/l to 10000 mg/l
		Conductivity	IS 3025 (Part 14): 1984 (RA 2003) APHA (22 nd Edition) 2510 B: 2012	1 µS/cm to 2 mS/cm
		Turbidity	IS 3025 (Part 10): 1984 (RA 2006) APHA (22 nd Edition) 2130 B: 2012	1 NTU to 1000 NTU
		Acidity as CaCO ₃	IS 3025 (Part 22): 1986(RA 2003) APHA (22 nd Edition) 2310 B: 2012	1 mg/l to 500 mg/l
		Alkalinity as CaCO ₃	IS 3025 (Part 23): 1986 (RA 2009) APHA (22 nd Edition) 2320 B: 2012	1 mg/l to 500 mg/l

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	Swimming Pool Water	Total Hardness as CaCO ₃	IS 3025 (Part 21): 2009 APHA (22 nd Edition) 2340 C: 2012	0.5 mg/l to 1000 mg/l
		Calcium as Ca	IS 3025 (Part 40): 1991 (RA 2003) APHA (22 nd Edition) 3500 CaB: 2012	1.0 mg/l to 500 mg/l
		Magnesium as Mg	IS 3025 (Part 46): 1994 (RA 2009) APHA (22 nd Edition) 2340B: 2012	1 mg/l to 300 mg/l
		Chloride Cl	IS 3025 (Part 32): 1988 (RA 2007) APHA (22 nd Edition) 4500-Cl- B: 2012	1.0 mg/l to 1000 mg/l
		Temperature	IS 3025 (Part 9): 1984 (RA 2002) APHA (22 nd Edition) 2550 B : 2012	Ambient to 600 °C
		Sulphate as SO ₄	IS 3025 (Part 24): 1986 (RA 2003) APHA (22 nd Edition) 4500E: 2012	1 mg/l to 400 mg/l
		Residual Chlorine	IS 3025 (Part 26): 1986 (RA 2003) APHA (22 nd Edition) 3500 Cl- B: 2012	0.1 mg/l to 1.0 mg/l
		Silica as SiO ₂	IS 3025 (Part 35): 1988 (RA 2003) APHA (22 nd Edition) 4500 SiO ₂ C: 2012	0.2 mg/l to 25 mg/l
		Iron as Fe	IS 3025 (Part 53): 2003 (RA 2009) APHA (22 nd Edition) 3111 B/C: 2012	0.02 mg/l to 100 mg/l

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	Swimming Pool Water	Hexa Chromium as Cr ⁶⁺	IS 3025 (Part 52): 2003 APHA (22 nd Edition) 3500 Cr B: 2012	0.05 mg/l to 1 mg/l
		Color	IS 3025 (Part 4): 1983 (RA 2006) APHA (22 nd Edition) 2120 B: 2012	1 Hazen Unit to 500 Hazen Unit
		Nitrogen Nitrate as NO ₃	IS 3025 (Part 34): 1988 (RA 2003)	0.1 mg/l to 50.0 mg/l
		Boron as B,	IS 3025 (Part 57): 2005 (RA 2009) APHA (22 nd Edition) 4500 B : 2012	0.02 mg/l to 2 mg/l
		Fluoride as F	IS 3025 (Part 60): 2008 APHA (22 nd Edition) 4500-F- D: 2012	0.1 mg/l to 5.0 mg/l
		Sodium as Na	IS 3025 (Part 45): 1993 (RA 2003) APHA (22 nd Edition) 3500 Na B: 2012	0.5 mg/l to 100 mg/l
		Potassium as K	IS 3025 (Part 45): 1993 (RA 2003) APHA (22 nd Edition) 3500 K B: 2012	0.1 mg/l to 50 mg/l
		Total Solids	IS 3025 (Part 15): 1984 (RA 2005)	1 mg/l to 2000 mg/l
3.	Water For Food Processing Industry	pH	IS 3025 (Part 11): 1983 (RA 2002)) APHA (22 nd Edition) 4500-H+ B: 2012	1 to 14
		Total Dissolved Solid	IS 3025 (Part 16): 1984 (RA 2006) APHA (22 nd Edition) 2540 C: 2012	1.0 mg/l to 10000 mg/l

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	Water For Food Processing Industry	Conductivity	IS 3025 (Part 14): 1984 (RA 2003) APHA (22 nd Edition) 2510 B: 2012	1 µS/cm to 2 mS/cm
		Turbidity	IS 3025 (Part 10): 1984 (RA 2006) APHA (22 nd Edition) 2130 B: 2012	1 NTU to 1000 NTU
		Acidity as CaCO ₃	IS 3025 (Part 22): 1986 (RA 2003) APHA (22 nd Edition) 2310 B: 2012	1 mg/l to 500 mg/l
		Alkalinity as CaCO ₃	IS 3025 (Part 23): 1986 (RA 2009) APHA (22 nd Edition) 2320 B: 2012	1 mg/l to 500 mg/l
		Total Hardness as CaCO ₃	IS 3025 (Part 21): 2009 APHA (22 nd Edition) 2340 C: 2012	0.5 mg/l to 1000 mg/l
		Calcium as Ca	IS 3025 (Part 40): 1991 (RA 2003) APHA (22 nd Edition) 3500 CaB: 2012	1.0 mg/l to 500 mg/l
		Magnesium as Mg	IS 3025 (Part 46): 1994 (RA 2009) APHA (22 nd Edition) 2340B: 2012	1 mg/l to 300 mg/l
		Chloride Cl	IS 3025 (Part 32): 1988 (RA 2007) APHA (22 nd Edition) 4500-Cl- B: 2012	1.0 mg/l to 1000 mg/l
		Temperature	IS 3025 (Part 9): 1984 (RA 2002) APHA (22 nd Edition) 2550 B : 2012	Ambient to 600 °C
		Sulphate as SO ₄	IS 3025 (Part 24): 1986 (RA 2003) APHA (22 nd Edition) 4500E: 2012	1 mg/l to 400 mg/l
		Residual Chlorine	IS 3025 (Part 26): 1986 (RA 2003) APHA (22 nd Edition) 3500 Cl- B: 2012	0.1 mg/l to 1.0 mg/l

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	Water For Food Processing Industry	Phosphate as PO ₄	IS 3025 (Part 31): 1988 (RA 2003) APHA (22 nd Edition) 4500PD: 2012	0.02 mg/l to 25 mg/l
		Sulphite as SO ₃	IS 3025 (Part 28): 1986 (RA 2003) APHA (22 nd Edition) 4500 SO ₃ -B: 2012	2 mg/l to 200 mg/l
		Silica as SiO ₂	IS 3025 (Part 35): 1988 (RA 2003) APHA (22 nd Edition) 4500 SiO ₂ C: 2012	0.2 mg/l to 25 mg/l
		Iron as Fe	IS 3025 (Part 53): 2003 (RA 2009) APHA (22 nd Edition) 3111 B/C: 2012	0.02 mg/l to 100 mg/l
		Hexa Chromium as Cr ⁶⁺	IS 3025 (Part 52): 2003 APHA (22 nd Edition) 3500 Cr B: 2012	0.05 mg/l to 1 mg/l
		Color	IS 3025 (Part 4): 1983 (RA 2006) APHA (22 nd Edition) 2120 B: 2012	1.0 Hazen Unit to 500 Hazen Unit
		Phenolic compounds	IS 3025 (Part 43): 1992 (RA 2003) APHA (22 nd Edition): 2012 5530 C/D	0.01 mg/l to 0.10 mg/l
		Ammonical Nitrogen as NH ₃	IS 3025 (Part 34): 1988 (RA 2003)	1 mg/l to 100 mg/l
		Total Nitrogen as N	IS 3025 (Part 34): 1988 (RA 2003)	1 mg/l to 100 mg/l
		Nitrate as NO ₃	IS 3025 (Part 34): 1988 (RA 2003)	0.1 mg/l to 50.0 mg/l
		Nitrite as NO ₂	IS 3025 (Part 34): 1988 (RA 2003)	0.01 mg/l to 20 mg/l

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	Water For Food Processing Industry	Boron as B,	IS 3025 (Part 57): 2005 (RA 2009) APHA (22 nd Edition) 4500 B : 2012	0.02 mg/l to 2 mg/l
		Anionic Surfactant	APHA (22 nd Edition) 5540 C: 2012	0.02 mg/l to 10.0 mg/l
		Fluoride as F	IS 3025 (Part 60): 2008 APHA (22 nd Edition) 4500-F- D: 2012	0.1 mg/l to 5.0 mg/l
		Sodium as Na	IS 3025 (Part 45): 1993 (RA 2003) APHA (22 nd Edition) 3500 Na B: 2012	0.5 mg/l to 100 mg/l
		Potassium as K	IS 3025 (Part 45): 1993 (RA 2003) APHA (22 nd Edition) 3500 K B: 2012	0.1 mg/l to 50 mg/l
		Aluminum	IS 3025 (Part 55): 2003 APHA (22 nd Edition) 3500 Al-B: 2012,	0.03 mg/l to 0.1 mg/l
		Sulphide	IS 3025 (Part 29): 1986 (RA 2003)	0.5 mg/l to 2 mg/l
		Total Solids	IS 3025 (Part 15): 1984 (RA 2005)	1 mg/l to 2000 mg/l
		Odour	IS 3025 (Part 5): 1983 (RA 2006)	Qualitative
	4. Packaged Drinking Water/ Natural Mineral Water	pH	IS 3025 (Part 11): 1983 (RA 2002) APHA (22 nd Edition) 4500-H+ B: 2012	1 to 14
		Total Dissolved Solid	IS 3025 (Part 16): 1984 (RA 2006) APHA (22 nd Edition) 2540 C: 2012	1.0 mg/l to 10000 mg/l

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	Packaged Drinking Water/ Natural Mineral Water	Conductivity	IS 3025 (Part 14): 1984 (RA 2003) APHA (22 nd Edition) 2510 B: 2012	1 µS/cm to 2 mS/cm
		Turbidity	IS 3025 (Part 10): 1984 (RA 2006) APHA (22 nd Edition) 2130 B: 2012	1NTU to 1000 NTU
		Acidity as CaCO ₃	IS 3025 (Part 22): 1986 (RA 2003) APHA (22 nd Edition) 2310 B: 2012	1 mg/l to 500 mg/l
		Alkalinity as HCO ₃	IS 3025 (Part 23): 1986 (RA 2009) APHA (22 nd Edition) 2320 B: 2012	1 mg/l to 500 mg/l
		Total Hardness as CaCO ₃	IS 3025 (Part 21): 2009 APHA (22 nd Edition) 2340 C: 2012	0.5 mg/l to 1000 mg/l
		Calcium as Ca	IS 3025 (Part 40): 1991 (RA 2003) APHA (22 nd Edition) 3500 CaB: 2012	1.0 mg/l to 500 mg/l
		Magnesium as Mg	IS 3025 (Part 46): 1994 (RA 2009) APHA (22 nd Edition) 2340B: 2012	1 mg/l to 300 mg/l
		Chloride Cl	IS 3025 (Part 32): 1988 (RA 2007) APHA (22 nd Edition) 4500-Cl- B: 2012	1.0 mg/l to 1000 mg/l
		Temperature	IS 3025 (Part 9): 1984 (RA 2002) APHA (22 nd Edition) 2550 B : 2012	Ambient to 600 °C
		Sulphate as SO ₄	IS 3025 (Part 24): 1986 (RA 2003) APHA (22 nd Edition) 4500E: 2012	1 mg/l to 400 mg/l

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	Packaged Drinking Water/ Natural Mineral Water	Residual Chlorine	IS 3025 (Part 26): 1986 (RA 2003) APHA (22 nd Edition) 3500 Cl- B: 2012	0.1 mg/l to 1.0 mg/l
		Phosphate as PO ₄	IS 3025 (Part 31): 1988 (RA 2003) APHA (22 nd Edition) 4500PD: 2012	0.02 mg/l to 25 mg/l
		Sulphite as SO ₃	IS 3025 (Part 28): 1986 (RA 2003) APHA (22 nd Edition) 4500 SO ₃ -B: 2012	2 mg/l to 200mg/l
		Silica as SiO ₂	IS 3025 (Part 35): 1988 (RA 2003) APHA (22 nd Edition) 4500 SiO ₂ C: 2012	0.2 mg/l to 25 mg/l
		Iron as Fe	IS 3025 (Part 53): 2003 (RA 2009) APHA (22 nd Edition) 3111 B/C: 2012	0.02 mg/l to 100 mg/l
		Hexa Chromium as Cr ⁶⁺	IS 3025 (Part 52): 2003 APHA (22 nd Edition) 3500 Cr B: 2012	0.05 mg/l to 1 mg/l
		Color	IS 3025 (Part 4): 1983 (RA 2006) APHA (22 nd Edition) 2120 B: 2012	1.0 Hazen Units to 500 Hazen Unit
		Phenolic compounds	IS 3025 (Part 43): 1992 (RA 2003) APHA (22 nd Edition): 2012 5530 C/D	0.01 mg/l to 0.10 mg/l
		Ammonical Nitrogen as NH ₃	IS 3025 (Part 34): 1988 (RA 2003)	1 mg/l to 100 mg/l
		Total Nitrogen as N	IS 3025 (Part 34): 1988 (RA 2003)	1 mg/l to 100 mg/l

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	Packaged Drinking Water/ Natural Mineral Water	Nitrogen Nitrate as NO ₃	IS 3025 (Part 34): 1988 (RA 2003)	0.1 mg/l to 50.0 mg/l
		Nitrogen Nitrite as NO ₂	IS 3025 (Part 34): 1988 (RA 2003)	0.01 mg/l to 20 mg/l
		Borate	IS 13428: 2005 Annexure H	1.0 mg/l to 10 mg/l
		Anionic Surfactant	APHA (22 nd Edition) 5540 C: 2012	0.02 mg/l to 10.0 mg/l
		Fluoride as F	IS 3025 (Part 60): 2008 APHA (22 nd Edition) 4500-F- D: 2012	0.1 mg/l to 5.0 mg/l
		Sodium as Na	IS 3025 (Part 45): 1993 (RA 2003) APHA (22 nd Edition) 3500 Na B: 2012	0.5 mg/l to 100 mg/l
		Potassium as K	IS 3025 (Part 45): 1993 (RA 2003) APHA (22 nd Edition) 3500 K B: 2012	0.1 mg/l to 50 mg/l
		Aluminum	IS 3025 (Part 55): 2003 APHA (22 nd Edition) 3500 Al-B: 2012,	0.03 mg/l to 0.1 mg/l
		Sulphide	IS 3025 (Part 29): 1986 (RA 2003)	0.5 mg/l to 2 mg/l
		Total Solids	IS 3025 (Part 15): 1984 (RA 2005)	1 mg/l to 2000 mg/l
		Odour	IS 3025 (Part 5): 1983 (RA 2006)	Qualitative
		Manganese as Mn	IS 3025 (Part 59): 2006	0.1 mg/l to 0.5 mg/l
		Mercury	IS 3025 (Part 48): 1994 (RA 2003)	0.02 mg/l to 1.0 mg/l

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5.	Construction Water	pH	IS 3025 (Part 11): 1983 (RA 2002) APHA (22 nd Edition) 4500-H+ B: 2012	1 to 14
		Total Suspended Solid	IS 3025 (Part 17): 1984 (RA 2002) APHA (22 nd Edition): 2012 2540 D	1 mg/l to 1000 mg/l
		Acidity as CaCO ₃	IS 3025 (Part 22): 1986 (RA 2003) APHA (22 nd Edition) 2310 B: 2012	1 mg/l to 500 mg/l
		Alkalinity as CaCO ₃	IS 3025 (Part 23): 1986 (RA 2009) APHA (22 nd Edition) 2320 B: 2012	1 mg/l to 500 mg/l
		Total Hardness as CaCO ₃	IS 3025 (Part 21): 2009 APHA (22 nd Edition) 2340 C: 2012	0.5 mg/l to 1000 mg/l
		Chloride Cl	IS 3025 (Part 32): 1988 (RA 2007) APHA (22 nd Edition) 4500-Cl- B: 2012	1.0 mg/l to 1000 mg/l
		Temperature	IS 3025 (Part 9): 1984 (RA 2002) APHA (22 nd Edition) 2550 B: 2012	Ambient to 600 °C
		Sulphate as SO ₄	IS 3025 (Part 24): 1986 (RA 2003) APHA (22 nd Edition) 4500E: 2012	1 mg/l to 400 mg/l
		Residual Chlorine	IS 3025 (Part 26): 1986 (RA 2003) APHA (22 nd Edition) 3500 Cl- B: 2012	0.1 mg/l to 1.0 mg/l
		Total Solids	IS 3025 (Part 15): 1984 (RA 2005)	1 mg/l to 2000 mg/l
		Fixed solids (Inorganic Solid)	IS 3025 (Part 18): 1984 (RA 2005)	5 mg/l to 4000 mg/l
		Volatile solids (Organic Solid)	IS 3025 (Part 18): 1984 (RA 2005)	1 mg/l to 1000 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
II. POLLUTION & ENVIRONMENT				
1.	Waste Water	pH	IS 3025 (Part 2): 1983 (RA 2002) APHA (22 nd Edition) 4500-H+ B: 2012	0.1 to 14
		Total Suspended Solid	IS 3025 (Part 17): 1984 (RA 2002) APHA (22 nd Edition) 2540 D: 2012	1 mg/l to 1000 mg/l
		Temperature	IS 3025 (Part 9): 1984 (RA 2002) APHA (22 nd Edition) 2550 B : 2012	Ambient to 600 °C
		Chlorine demand	IS 3025 (Part 26): 1986 (RA 2003) APHA (22 nd Edition) 3500 Cl- B: 2012	0.2 mg/l to 5.0 mg/l
		Color	IS 3025 (Part 4): 1983 (RA 2006) APHA (22 nd Edition) 2120 B: 2012	5 Hazen Unit to 100 Hazen Unit
		Ammonical Nitrogen as NH₃	IS 3025 (Part 34): 1988 (RA 2003)	1 mg/l to 100 mg/l
		Total Nitrogen as N	IS 3025 (Part 34): 1988 (RA 2003)	1 mg/l to 100 mg/l
		Dissolved Oxygen	IS 3025 (Part 38): 1989 (RA 2003) APHA (22 nd Edition) 4500 O B: 2012	1.0 mg/l to 12.0 mg/l
		BOD (3 days, 27 °C)	IS 3025 (Part 44): 1993 (RA 2003) 3 Day BOD Test, 5210 B	1 mg/l to 50000 mg/l
		COD	IS 3025 (Part 58), 2006)/ APHA (22 nd Edition) 5220 B: 2012	1 mg/l to 100000 mg/l

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	Waste Water	Oil & grease	IS 3025 (Part 39): 1991 (RA 2003) APHA (22 nd Edition) 5520B: 2012	0.4 mg/l to 500 mg/l
		Sulphide	IS 3025 (Part 29): 1986 (RA 2003)	0.1 mg/l to 20 mg/l
		Total Solids	IS 3025 (Part 15): 1984 (RA 2005)	5 mg/l to 2000 mg/l
		Sodium as Na	IS 3025 (Part 45): 1993 (RA 2003) APHA (22 nd Edition) 3500 Na B: 2012	0.5 mg/l to 100 mg/l
		Potassium as K	IS 3025 (Part 45): 1993 (RA 2003) APHA (22 nd Edition) 3500 K B: 2012	0.1 mg/l to 50 mg/l
		Bromide	APHA (22 nd Edition): 2012 IS 3025 (Part 30): 1988 (RA 2003)	0.1 mg/l to 2.0 mg/l
		Fixed solids (Inorganic Solid)	IS 3025 (Part 18): 1984 (RA 2005)	5 mg/l to 4000 mg/l
		Volatile solids (Organic Solid)	IS 3025 (Part 18): 1984 (RA 2005)	1 mg/l to 1000 mg/l
		Phosphate as PO ₄	IS 3025 (Part 31): 1988 (RA 2003) APHA (22 nd Edition) 4500PD: 2012	0.02 mg/l to 25 mg/l
		Sulphite as SO ₃	IS 3025 (Part 28): 1986 (RA 2003) APHA (22 nd Edition): 2012 4500 SO ₃ -B	2 mg/l to 200mg/l
		Silica as SiO ₂	IS 3025 (Part 35): 1988 (RA 2003) APHA (22 nd Edition) 4500 SiO ₂ C: 2012	0.2 mg/l to 25 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
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III. FOOD & AGRICULTURAL PRODUCTS

1. Bakery & Confectionery Products

a. Biscuits	Moisture	IS 1011: 2002 (RA 2009) Annexure B	2 % to 20 %
	Total Ash	IS 1011: 2002 (RA 2009) Annexure C	0.1 % to 15 %
	Acid insoluble ash	IS 1011: 2002 (RA 2009) Annexure C	0.01 % to 1 %
	Protein	IS 7219: 1973 (RA 2010)	1 % to 25 %
	Fat	IS 4684: 1975 (RA 2000) Appendix F	1 % to 50 %
	Sugar	IS 4079: 1967 (2000)	1 % to 75 %
	Acidity of extracted fat	IS 1011: 2002 (RA 2009) Annexure D	0.05 % to 2 %

2. Cereals Products

a. Maida	Moisture	IS 1009: 1979 Appendix A	5.0 % to 30 %
	Total ash	IS 1009: 1979 Appendix B	0.5 % to 3.0 %
	Acid insoluble ash	IS 1009: 1979 Appendix C	0.01 % to 5.0 %
	Gluten	IS 1009: 1979 Appendix D	5 % to 30 %
	Protein	IS 7219: 1973 (RA 2010)	1 % to 25 %

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	Maida	Fat	IS 4684: 1975 (RA 2000) Appendix F	0.5 % to 10 %
		Alcoholic acidity	IS 1009: 1979 Appendix F	0.03 % to 1 %
b.	Wheat Atta	Moisture	IS 1155: 1968 (RA 2010) Annexure A	5 % to 30 %
		Total ash	IS 1155: 1968 (RA 2010) Annexure B	0.1 % to 5 %
		Acid insoluble ash	IS 1155: 1968 (RA 2010) Annexure C	0.02 % to 1 %
		Gluten	IS 1155: 1968 (RA 2010) Annexure D	5 % to 12 %
		Protein	IS 7219: 1973 (RA 2010)	1 % to 25 %
		Fat	IS 4684: 1975 (RA 2000) Appendix F	0.5 % to 10 %
		Crude Fibre	IS 4684: 1975 (RA 2000) Appendix H	0.01 % to 30 %
		Alcoholic acidity	IS 1155: 1968 (RA 2010) Annexure F	0.02 % to 1 %
3.	Milk Powder (Skimmed or Partly Skimmed)	Moisture	IS 1165: 2002 IS 11623: 2008 FSSAI lab manual-1(10.2)	1.0 % to 6.0 %
		Total Ash	IS 1165: 2002 Annexure A	0.1 % to 10 %

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	Milk Powder (Skimmed or Partly Skimmed)	Protein	IS 7219: 1973 (RA 2010)	0.1 % to 40 %
		Fat	IS 1165: 2002 IS 11721: 2013	0.5 % to 80 %
		Total solids	IS 1165: 2002	1 % to 99 %
		Titrateable Acidity	IS 1165: 2002 Annexure B	0.2 % to 3 %
4.	Snacks Products			
a.	Namkeen/Bhujiya	Moisture	Annexure B of IS 15271: 1998 (Reaff.2010)	0.5 % to 25 %
		Total Ash	IS 15271: 1998 (RA 2010) Annexure C	0.2 % to 10 %
		Acid insoluble ash	IS 15271: 1998 (RA 2010) Annexure C	0.01 % to 5 %
		Protein	IS 7219:1973 (RA 2010)	1 % to 30 %
		Fat	IS 15271: 1998 (RA 2010) Annexure D	1 % to 60 %
		Acidity of extracted fat	IS 15271: 1998 (RA 2010) Annexure E	0.01 % to 2.0 %
		Peroxide value	IS 15271: 1998 (RA 2010) Annexure F	1 meq/kg to 30 meq/kg
5.	Ready To Eat Food Products	Protein	IS 4684 :1975 (RA 2010) Annexure C	0.1 % to 70 %
		Moisture	IS 4684 :1975 (RA 2000) Annexure B	0.1 % to 30.0 %

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	Ready To Eat Food Products	Total ash	IS 4684 :1975 (RA 2000) Annexure D	0.01 % to 20 %
		Acid insoluble ash	IS 4684 :1975 (RA 2000) Annexure E	0.01 % to 10 %
		Fat	IS 4684 :1975 (RA 2000) Annexure F	0.1 % to 50 %
6.	Spices And Condiments (Whole & Ground)			
a.	Zeera	Moisture	IS 1797: 1984 (RA 2009)	1 % to 40 %
		Total ash	IS 1797: 1984 (RA 2009)	0.1 % to 20 %
		Acid insoluble ash	IS 1797: 1984 (RA 2009)	0.02 % to 10 %
		Volatile oil contents	IS 1797: 1984 (RA 2009)	0.1 % to 25 %
		Crude fibre	IS 10226 (Part 1): 1982 (RA 2005)	0.2 % to 35 %
		Non Volatile Ether Extract	IS 1797: 1984 (RA 2009)	0.5 % to 50 %
b.	Large Cardamom	Moisture	IS 1797: 1984 (RA 2009)	1 % to 40 %
		Total ash	IS 1797: 1984 (RA 2009)	0.1 % to 20 %
		Acid insoluble ash	IS 1797: 1984 (RA 2009)	0.02 % to 10 %
		Volatile oil contents	IS 1797: 1984 (RA 2009)	0.1 % to 25 %
c.	Ginger Powder	Moisture	IS 1797: 1984 (RA 2009)	1 % to 40 %
		Total ash	IS 1797: 1984 (RA 2009)	0.1 % to 20 %

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	Ginger Powder	Acid insoluble ash	IS 1797: 1984 (RA 2009)	0.02 % to 10 %
		Volatile oil contents	IS 1797: 1984 (RA 2009)	0.1 % to 25 %
		Water soluble ash	IS 1797: 1984 (RA 2009)	0.5 % to 10 %
		Alcohol soluble extract	IS 1797: 1984 (RA 2009)	0.1 % to 50 %
		Cold Water Soluble Extract	IS 1797: 1984 (RA 2009)	0.02 % to 80 %
d.	Turmeric Powder	Moisture	IS 1797: 1984 (RA 2009)	1 % to 40 %
		Total ash	IS 1797: 1984 (RA 2009)	0.1 % to 20 %
		Acid insoluble ash	IS 1797: 1984 (RA 2009)	0.02 % to 10 %
		Volatile oil contents	IS 1797: 1984 (RA 2009)	0.1 % to 25 %
		Curcumine	IS 3576, IS 10925 Annexure B	0.01 % to 15 %
7.	Oils & Fats	Moisture	IS 548 (Part 1): 1964 (RA 2002)	0.1 % to 5 %
		Acid value	IS 548 (Part 1): 1964 (RA 2002)	0.1 to 10.0
		Iodine value	IS 548 (Part 1): 1964 (RA 2002)	1 to 500
		Saponification value	IS 548 (Part 1): 1964 (RA 2002)	1 to 500
		Unsaponifiable matter	IS 548 (Part 1): 1964 (RA 2002)	0.2 % to 5.0 %

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IV. ANIMAL FOOD & FEEDS				
1.	Animal Feed	Moisture	IS 7874 (Part 1) :1975 (RA 1990)	0.1 % to 20 %
		Total ash	IS 7874 (Part 1):1975 (RA 1990)	0.5 % to 25 %
		Acid insoluble ash	IS 7874 (Part 1) :1975 (RA 1990)	0.01 % to 10 %
		Protein	IS 7874 (Part 1) :1975 (RA 1990)	0.1 % to 70 %
		Crude fat	IS 7874 (Part 1) :1975 (RA 1990)	0.05 % to 10 %
		Crude fibre	IS 10226 (Part 1): 1982 (RA 2005)	0.01 % to 40 %

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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**.