

Laboratory	Research & Analytical Division, Saturn Quality Certifications Pvt. Ltd., V-17, Modern Industrial Estate (MIE), Red Cross Road, Bahadurgarh, Haryana		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.01.2014
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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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I. WATER

1.	Potable water/Drinking water/Raw water	Colour	IS:3025(p-4)1983 ref. 2006	1 Hazen to 500 Hazen
		pH value	IS:3025(p-11)1983 ref. 2002	1 to 14
		Turbidity	IS:3025(p-10)1984 ref. 2006	1 NTU to 200 NTU
		Total dissolved solid	IS:3025(p-16)1984 ref. 2008	1 mg/l to 1000 mg/l
		Total Hardness (as CaCO ₃)	IS:3025(p-21)2009	0.5 mg/l to 500 mg/l
		Nitrate	IS:3025(p-34)1988 ref. 2003	0.1 mg/l to 5 mg/l
		Fluoride	IS:3025(p-60)2008	0.1 mg/l to 5 mg/l
		Aluminium	IS:3025(p-55)2003	0.01 mg/l to 0.1 mg/l
		Chloride	IS:3025(p-32)1988 ref. 2007	1 mg/l to 1000 mg/l
		Sulphate	IS:3025(p-24)1986 ref. 2003	1 mg/l to 400 mg/l
		Residual free chlorine	IS:3025(p-26)1986 ref. 2003	0.1 mg/l to 1 mg/l
		Manganese	IS:3025(p-59)2006	0.1 mg/l to 0.5 mg/l
		Alkalinity as(CaCO ₃)	IS:3025(p-23)1986 ref. 2009	1 mg/l to 500 mg/l
		Calcium	IS:3025(p-40)1991 ref. 2003	1 mg/l to 500 mg/l
Magnesium	IS:3025(p-46)1994 ref. 2003	1 mg/l to 300 mg/l		

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	Potable water/Drinking water/Raw water	Phenolic Compound	IS:3025(p-43)1992 ref. 2003	0.001 mg/l to 0.1 mg/l
		Mercury	IS:3025(p-48)1994 ref. 2003	0.001 mg/l to 0.02mg/l
		Boron	IS:3025(p-57)2005 ref. 2009	0.02 mg/l to 2 mg/l
		Hexavalent Chromium	IS:3025(p-52)2003	0.05 mg/l to 1 mg/l
		Iron	IS:3025(p-53)2003 ref. 2009	0.05 mg/l to 100 mg/l
		Nitrite	IS:3025(p-34)1988 ref. 2003	0.01 mg/l to 0.1 mg/l
		Ammonical Nitrogen	IS:3025(p-34)1988 ref. 2003	1 mg/l to 600 mg/l
		Sulphide	IS:3025(p-29)1986 ref. 2003	0.5 mg/l to 2 mg/l
		Conductivity	IS:3025(p-29)1986 ref. 2003	1 µs/cm to 1000 µs/cm
2.	Swimming pool water	Colour	IS:3025(p-4)1983 ref. 2006	1 Hazen to 500 Hazen
		pH value	IS:3025(p-11)1983 ref. 2002	1 to 14
		Turbidity	IS:3025(p-10)1984 ref. 2006	1 NTU to 200 NTU
		Total dissolved Solids	IS:3025(p-16)1984 ref. 2008	1 to 1000 mg/l
		Aluminium	IS:3025(p-55)2003	0.01 mg/l to 0.1 mg/l
		Chloride	IS:3025(p-32)1988 ref. 2007	1 mg/l to 1000 mg/l
	Total Residual Chlorine	IS:3025(p-26)1986 ref. 2003	0.1 to 1 mg/l	

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4.	Packaged Drinking water, Natural Mineral water	pH Value	IS:3025 (P-11)-1983 ref. 2002	1 to 14
		Colour	IS:3025 (P-4) 1983 ref. 2006	1 Hazen to 500 Hazen
		Turbidity	IS:3025 (P-10)- 1984 ref. 2002	1 NTU to 200 NTU
		Total Dissolved Solids	IS:3025 (P-16) – 1984 ref. 2002	1 mg/l to 1000 mg/l
		Nitrate	IS:3025 (P-34) – 1988) ref. 1999	0.1 mg/l to 5 mg/l
		Fluoride	IS:3025 (P-60)- 2008	0.1 mg/l to 5mg/l
		Aluminium	IS:3025 (P-55) 2003	0.01 mg/l to 0.1mg/l
		Chloride	IS:3025 (P-32) – 1998 ref. 2003	1 mg/l to 600 mg/l
		Sulphate	IS:3025 (P-24) – 1986 ref.- 2003	1 mg/l to 400mg/l
		Alkalinity (as HCO ₃)	IS:3025 (P-23) – 1991 ref.- 2003	1.0 mg/l to 500 mg/l
		Calcium	IS:3025 (P-40) -1991 ref.- 1998	1.0 mg/l to 500 mg/l
		Magnesium	IS:3025 (P-46) – 1994 ref.- 1999	1.0 mg/l to 300 mg/l
		Phenolic Compound	IS:3025 (P-43) – 1992 , ref. 1998	0.001mg/l to 0.1mg/l
		Mercury	IS:3025 (P-48), 1994	0.001 mg/l to 0.02mg/l
Iron (as Fe)	IS:3025 (P-53) 2003	0.05 mg/l to 100 mg/l		
Residual Free chlorine	IS:3025 (P-26) – 1986 ref.-1998	0.1 mg/l to 1.0mg/l		

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	Packaged Drinking water, Natural Mineral water	Manganese (as Mn)	Is-3025(P-59)2006	0.1 mg/l to 0.5mg/l
		Borate	Annex-H IS-13428-2005	1.0 mg/l to 10mg/l
		Sodium	IS:3025 (P-45) ref.-2003	0.5 mg/l to 100mg/l
		Nitrite	IS:3025 (P-34)1988 ref.-2003	0.01 mg/l to 0.1 mg/l
		Sulphide	IS:3025 (P-29)1986 ref.2003	0.5 mg/l to 2.0 mg/l
5.	Waste Water	Total Solids	IS:3025 (P-15)-1984 ref. 1998	5 mg/l to 2000mg/l
		Total Suspended Solids (TSS)	IS:3025 (P-17) 1984 ref. 2006	6 mg/l to 1000mg/l
		Chemical Oxygen Demand (COD)	IS:3025 (P-58)-2006, APHA 22 nd edition	5 mg/l to 20000mg/l
		Biochemical Oxygen Demand (BOD)	IS:3025 (P-44) -1993 ref. 2003	4 mg/l to 20000mg/l
		Oil & Grease	IS:3025 (P-39) - 1991 ref. 2003	4 mg/l to 200 mg/l
		Sodium	IS:3025 (P-45)1993	0.5 mg/l to 100mg/l
		Potassium	IS:3025 (P-45)1993 ref. 2003	0.5 mg/l to 100mg/l
		Temperature °C	IS:3025 (P- 9), 1984, ref. 2001	25 ⁰ C to 30 ⁰ C
		Bromide	APHA 22 nd edition IS:3025 (P-30)1988 ref. 2003	0.1 mg/l to 2.0mg/l

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	Waste Water	Ammonical Nitrogen(NH ₃ -N)	IS-3025(P-34)1998 ref.2003	1 mg/l to 600mg/l
		Dissolve Oxygen	IS-3025(P-38)1989 ref.1999	1 mg/l to 500mg/l
		Chlorine Demand	IS-3025(P-25)1986 Ref. 2003	0.2 mg/l to 1.0mg/l
		Volatile solids/organic solids	IS-3025(P-18)1984 Ref. 2006	5.0 mg/l to 1000mg/l
		Fixed residue/ inorganic solids	IS-3025(P-18)1984 Ref. 2006	5.0 mg/l to 4000mg/l
		Phosphorus	IS-3025(P-31)1988 Ref. 2001	0.05 mg/l to 1.0 mg/l
		Silica as SiO ₂	IS-3025(P-35)1988, Ref. 2003	1.0 mg/l to 10 mg/l
		Sulphite	IS-3025 (P-28)1986, Ref. 2003	1.0 mg/l to 5.0mg/l
6.	Construction water	PH value	IS:3025 (P-15)-1984 ref. 1998	1 to 14
		Total Suspended Solids (TSS)	IS:3025 (P-17) 1984 ref. 2002	5 mg/l to 100mg/l
		Sulphate	IS:3025 (P-24) 1986 ref. 2003	1 mg/l to 400mg/l
		Chloride	IS:3025 (P-32) 1998 ref. 2003	1 mg/l to 3000 mg/l
		Volatile solids/organic solids	IS-3025(P-18)1984	5.0 mg/l to 1000mg/l
		Fixed residue/ inorganic solids	IS-3025(P-18)1984	5.0 mg/l to 4000mg/l
		Acidity (ml)	IS-3025(P-22)2003	1.0 mg/l to 10mg/l
		Alkalinity (ml)	IS-3025(P-23)2009	1.0 mg/l to 100mg/l

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II. FOOD & AGRICULTURAL PRODUCTS

1. Bakery & Confectionery Products

a. Biscuits	Moisture	IS:1011-2002, RA 2009 Annex-B	2% to 20 %
	Acid insoluble ash	IS:1011-2002, RA 2009 Annex-C	0.5% to 5%
	Acidity of extracted fat	IS:1011-2002, RA 2009 Annex-D	0.05% to 2%

2. Cereals, Pulses & Cereal 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	0.02% to 5.0%
	Gluten	IS:1009-1979 Appendix-D	5% to 20%
	Alcoholic acidity	IS:1009-1979 Appendix-F	0.03% to 1 %
b. Wheat Atta	Moisture	IS:1155-1968, RA 2010Annex-A	5% to 30 %
	Total ash	IS:1155-1968, RA 2010Annex-B	0.5% to 5%
	Acid insoluble ash	IS:1155-1968, RA 2010Annex-C	0.02% to 1 %
	Gluten	IS:1155-1968, RA 2010Annex-D	5% to 12 %
	Alcoholic acidity	IS:1155-1968, RA 2010Annex-F	0.02% to 1 %

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3.	Milk & Dairy Products			
a.	Milk Powder	Moisture	IS:11623-2008, RA 2013	1.0% to 6.0%
		Total solids	IS:11623-2008, RA 2013	90% to 100%
		Acidity	Annex B of IS:1165-2002	0.5% to 3%
		Fat	IS:11721-2013	0.5% to 30%
		Insolubility index	IS 12759-1989, RA2010	0.05% to 5%
		Total Ash	Annex A of IS:1165-2002	0.5% to 20%
4.	Ready To Eat Protein Rich Extruded Foods and Protein rich food supplements for Infants and Preschool Children	Protein	IS 7219 : 1973, RA 2005	1.0% to 70 %
		Moisture	IS 1011 : 1968, Appendix- A	1% to 20 %
		Total ash	IS 1547-1968 Appendix E	1% to 15 %
		Acid insoluble ash	IS 1011 : 1968, RA 2009 Appendix- E	0.2% to 5%
		Fat content	IS 4684 : 1968, RA 2005 Appendix- F	1% to 50 %

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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**.