

Laboratory	Auriga Research Ltd., Vill. Bagbania, The-Nalagarh, Distt-Solan, Himachal Pradesh		
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I.	COSMETICS & ESSENTIAL OILS			
1.	Tooth Paste/ Tooth Powder/ Skin Powder	Homogeneity	IS 6356: 2001 (RA 2006)	Qualitative
		Stability	IS 6356: 2001 (RA 2006)	Qualitative
		Tube Inertness	IS 6356: 2001 (RA 2006)	Qualitative
		Hard and Sharp Edged Particle	IS 6356: 2001 (RA 2006) IS 5383: 2006	Qualitative
		Spreadibility	IS 6356: 2001 (RA 2006)	0 to 8 cm
		Fineness/ Sieve Analysis	IS 6356: 2001 (RA 2006) IS 5383: 2006 IS 5339: 1978 IS 3959: 1991	0.5 to 2.0
		pH Of Aqueous Solution	IS 6356: 2001 (RA 2006) IS 5383: 2006 IS 5339: 1978 IS 3959: 1991	1 to 14
		Heavy Metals (Lead)	IS 6356: 2001 (RA 2006) IS 5383: 2006 IS 5339: 1978 IS 3959: 1991	Qualitative
		Arsenic	IS 6356: 2001 (RA 2006) IS 5383: 2006 IS 5339: 1978 IS 3959: 1991	Qualitative
		Foaming Power	IS 6356: 2001 (RA 2006) IS 5383: 2006	10 ml to 150.0 ml

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	Tooth Paste/ Tooth Powder/ Skin Powder	Fluoride	IS 6356: 2001 (RA 2006)	10 mg/l to 1000 mg/l
		Moisture & Volatiles	IS 5383: 2006 IS 5339: 1978 IS 3959: 1991	1.0 % to 50.0 %
		Matter Insoluble in Boiling Water	IS 5339: 1978 (RA 2009)	1.0 % to 100.0 %
2.	Shaving Cream	Homogeneity	IS 9740: 1981 (RA 2006)	Qualitative
		Stability	IS 9740: 1981 (RA 2006)	Qualitative
		Effect on Container	IS 9740: 1981 (RA 2006)	Qualitative
		Total Fatty Matter	IS 9740: 1981 (RA 2006)	1 % to 90.0 %
		Water Content	IS 9740: 1981 (RA 2006)	10 % to 90.0 %
		Foaming Power	IS 9740: 1981 (RA 2006)	100.0 ml to 250.0ml
		Free Caustic Alkalinity	IS 9740: 1981 (RA 2006)	Qualitative
3.	Lipstick	Softening Point	IS 9875: 1990 (RA 2005)	25 ^o C to 100 ^o C
		Rancidity (Peroxide Value)	IS 9875: 1990 (RA 2005)	2.0 meq to 20.0 meq
		Particle Size	IS 9875: 1990 (RA 2005)	10.0 % to 50.0 % (1 UM to 225 UM)
		Pay off Test	IS 9875: 1990 (RA 2005)	Qualitative
		Heavy Metals (Lead)	IS 9875: 1990 (RA 2005)	Qualitative
		Arsenic	IS 9875: 1990 (RA 2005)	Qualitative

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4.	Hair Dyes-Powder	pH of 5% Solution	IS 10350: 1984 (RA 2009)	1.0 to 14.0
		Active Matter as PPD.	IS 10350: 1984 (RA 2009)	1 % to 40.0 %
5.	Henna Powder	Sieve Analysis	IS 11142: 1995 (RA 2005)	10.0 % to 100.0 %
		Moisture and Volatile Matter	IS 11142: 1995 (RA 2005)	1 % to 25.0 %
		Cold Water Extract	IS 11142: 1995 (RA 2005)	5 % to 90.0 %
		Crude Fibre	IS 11142: 1995 (RA 2005)	2.0 % to 30.0 %
		Mineral Matter	IS 11142: 1995 (RA 2005)	1.0 % to 25.0 %
		Acid Insoluble Ash	IS 11142: 1995 (RA 2005)	1.0 % to 20.0 %
		Extraneous Sand	IS 11142: 1995 (RA 2005)	0.1 % to 25.0 %
		Extraneous Dyes	IS 11142: 1995 (RA 2005)	Qualitative
		Lawson Content	IS 11142: 1995 (RA 2005)	0.1 % to 5.0 %
		6.	Skin Cream	Thermal Stability
pH	IS 6608: 2004 (RA 2009)			1.0 to 14.0
Total Fatty Substances	IS 6608: 2004 (RA 2009)			1.0 % to 50.0 %
Total Residue	IS 6608: 2004 (RA 2009)			0.1 % to 90.0 %
Heavy Metals (Lead)	IS 6608: 2004 (RA 2009)			Qualitative
Arsenic	IS 6608: 2004 (RA 2009)			Qualitative

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7.	Shampoo	Physical Characteristics	IS 7884: 1992 (RA 2009)	Qualitative
		Non-Volatile Alcohol Soluble Matter	IS 7884: 1992 (RA 2009)	1 % to 50 %
		Active Detergent	IS 7884: 1992 (RA 2009)	1.0 % to 50.0 %
		pH	IS 7884: 1992 (RA 2009)	1.0 to 14.0
		Foam Height	IS 7884: 1992 (RA 2009)	Min 15.0ml
8.	Nail Polish	Non-Volatile Matter	IS 9245: 1994 (RA 2005)	1.0 % to 70.0%
		Drying Time	IS 9245: 1994 (RA 2005)	Min. 0.5 minutes
		Adhesion Test	IS 9245: 1994 (RA 2005)	Qualitative
		Scratch Test	IS 9245: 1994 (RA 2005)	Qualitative
		Blush Test	IS 9245: 1994 (RA 2005)	Qualitative
		Heavy Metals (Lead)	IS 9245: 1994 (RA 2005)	Qualitative
		Arsenic	IS 9245: 1994 (RA 2005)	Qualitative
9.	Hair Oil	Acid Value	IS 7123: 1993 (RA 2009)	1 meq to 15meq
		Peroxide Value	IS 7123: 1993 (RA 2009)	1 to 10

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II. SOAP DETERGENTS AND TOILETERIES				
1.	Shaving Soap/Laundry Soaps/Toilet Soap/Liquid Toilet Soap/Antibacterial Toilet Soap (Solid Cake & Liquid)/Bathing Bar	Moistures & Volatiles	IS 5784: 2001 (RA 2006)	1.0 % to 50.0 %
		Matter Insoluble In Alcohols	IS 5784: 2001 (RA 2006) IS 285: 1992 IS 286: 1978 IS 2888: 1983	0.1 % to 50 %
		Free Caustic Alkali as Sodium Hydroxide, K ₂ O	IS 5784: 2001 (RA 2006) IS 285: 1992 IS 286: 1978 IS 2888: 1983	0.005 to 0.01
		Chlorides	IS 5784: 2001 (RA 2006)	0.1 to 5.0
		Unsaponified Fatty Matter	IS 5784: 2001 (RA 2006) IS 285: 1992	0.1 to 10.0
		Total Fatty Matter	IS 5784: 2001 (RA 2006) IS 285: 1992 IS 2888: 1983 IS 286: 1978 IS 11479 (Part 1): 2001 IS 13489: 1997 IS 11479 (Part 1): 2001	1 % to 90.0 %
		Titre of Total Fatty Acids	IS 5784: 2001 (RA 2006) IS 285: 1992	40°C to 50°C
		Rosin Acids	IS 5784: 2001 (RA 2006) IS 285: 1992 IS 2888: 1983 IS 11479 (Part 2): 2001	Qualitative (Absent)

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	Shaving Soap/Laundry Soaps/Toilet Soap/Liquid Toilet Soap/Antibacterial Toilet Soap (Solid Cake & Liquid)/Bathing Bar	Free Carbonated Alkali	IS 2888: 1983 IS 286: 1978	0.02 % to 2.0 %
		Lather	IS 2888: 1983	1 % to 25 %
		Synthetic Detergents	IS 4955	0.1 to 5.0%
		Keeping Quality	IS 4199: 1990	Qualitative
		Active Ingredient	IS 286: 1978 (RA 2008)	1 % to 40 %
		Foaming Power	IS 286: 1978 (RA 2008)	1 % to 35 %
III. DRUGS AND PHARMACEUTICALS				
1.	Raw Materials and Drug Intermediates	Description	IP 2014	Qualitative
		Solubility	IP 2014	Qualitative
		Identification	IP 2014	Qualitative
		Clarity and Colour of Solution	IP 2014	Qualitative
		Limits of Heavy Metals	IP 2014	Qualitative
		Specific Optical Rotation	IP 2014	0° to 360°
		Weight /ml	IP 2014	1 g/ml to 5 g/ml
		Acid Insoluble Ash	IP 2014	0.01 % to 5 %
	Loss on Drying	IP 2014	1 % to 11 %	

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	Raw Materials and Drug Intermediates	Water by K.F.	IP 2014	1 % to 20 %
		pH	IP 2014	0 to 14
2.	Pharmaceutical formulation (Finished Products)	Average Weight/ Average Filled Weight	IP 2014	Qualitative
		Identification	IP 2014	NA
		pH	IP 2014	0 to 14
		Specific Optical Rotation	IP 2014	0° to 360°
		Water by K.F.	IP 2014	1 % to 8 %
		Alkalinity of Solution	IP 2014	Qualitative
		Weight per ml.	IP 2014	1 g/ml to 5 g/ml
		Uniformity of Weight	IP 2014	2.5 % to 10%
3.	Specific Drug			
	Albendazole Tablets I.P., Amikacin Sulphate Injection I.P., Amoxicillin Capsules I.P., Paracetamol Tablets IP, Povidone Iodine Solution, Gentamicin Sulphate Eye Drops IP, Paracetamol Syrup IP	Identification	IP 2014	Qualitative
		Average Weight/ Average Filled Weight	IP 2014	50 mg to 1500 mg
		pH	IP 2014	0 to 14
		Specific Optical Rotation	IP 2014	0° to 360°
		Water by K.F.	IP 2014	1 % to 8 %

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	Specific Drug	Assay	IP 2014	90 % to 110 %
	Albendazole Tablets I.P., Amikacin Sulphate Injection I.P., Amoxicillin Capsules I.P., Paracetamol Tablets IP, Povidone Iodine Solution, Gentamicin Sulphate Eye Drops IP, Paracetamol Syrup IP	Dissolution	IP 2014	NLT 80 %
		Weight per ml	IP 2014	1 mg/ml to 5 mg/ml
		Uniformity of Weight	IP 2014	5 % to 10 %
		Uniformity of content	IP 2014	85 to 120%
		Disintegration Test	IP 2014	3 to 180min
		Residual Solvent	IP 2014	Qualitative
		Ethanol (if Present)	IP 2014	90 % to 110%
		Related Substances	IP 2014	Qualitative
4.	Natural Drugs (Medicinal Plant Preparation)			
	Ayush and Homeopathic Product (Raw & Finished) (Ayurvedic Pharmacy India)	Water Soluble Extractives	API (Part 1) Vol. IV, Appendix 2.2.7	1 % to 80 %
		Arsenic	API (Part 1) Vol. VII, Appendix 3.2.8	Qualitative
		Lead	API (Part 1) Vol. VII, Appendix 3.2.2	0.2 mg/l to 100 mg/l
		Cadmium	API (Part 1) Vol. VII, Appendix 3.2.2	0.2 mg/l to 100 mg/l
		Mercury	API (Part 1) Vol. VII, Appendix 3.2.9	0.2 mg/l to 100 mg/l

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Natural Drugs (Medicinal Plant Preparation)				
	Ayush and Homeopathic Product (Raw & Finished) (Ayurvedic Pharmacy India)	Iron	API (Part 1) Vol. VII, Appendix 3.1.4	Qualitative
		Copper	API (Part 1) Vol. VII, Appendix 3.2.2	0.2 mg/l to 100 mg/l
		Zinc	API (Part 1) Vol. VII, Appendix 3.2.2	0.2 mg/l to 100 mg/l
		TIN	DGHS Manual 9 Chapter-3.8, API (Part 1) Vol. VII, Appendix 3.2.3	0.2 mg/l to 100 mg/l
		Cobalt	API (Part 1) Vol. VII, Appendix 3.2.2	0.2 mg/l to 100 mg/l
		Loss on Drying	API (Part 1) Vol. IV, Appendix 2.2.9	1 % to 40 %
		Ash	API (Part 1) Vol. IV, 2004 Appendix 2.2.3	0.1 % to 30 %
		Foreign Matter	API (Part 1) Vol. IV, 2004 Appendix 2.2.2	0.1 % to 2 %
		Acid Insoluble Ash	API (Part 1) Vol. IV, Appendix 2.2.4	0.1 % to 20 %
		Alcohol Soluble Extractives	API (Part 1) Vol. IV, Appendix 2.2.6	1 % to 85 %
	Oil Content	API (Part 1) Vol. IV, Appendix 2.2.8	0.1 % to 20 %	

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Natural Drugs (Medicinal Plant Preparation)				
	Ayush and Homeopathic Product (Raw & Finished) (Ayurvedic Pharmacy India)	Volatile Oil	API (Part 1) Vol. IV, Appendix 2.2.10	0.5 % to 20 %
		TLC	API (Part 1), Vol. IV, Appendix 2.2.12	Qualitative
		Water Soluble Ash	API (Part 1) Vol. IV	0.002 % to 2.5 %
IV. FOODS AND AGRICULTURAL PRODUCTS				
1.	Nutritional Value in Food	Carbohydrate	IS 4079, IS 1656: 1997 (RA 2009) AOAC (18 th Edition) Chapter 50	0.5 % to 5.0 %
		Protein	IS 7219: 1973 (RA 2010)	10.0 % to 70.0 %
		Fat	IS 7874: 1975	0.1 % to 30 %
		Fatty Acid Profile	AOAC 996.06	10.0 % to 90 %
		Saturated Fat	AOAC 996.06	0.1 % to 15 %
		Monosaturated Fat	AOAC 996.06	0.1 to 80%
		Polysaturated Fat	AOAC 996.06	0.1 to 10%
		Monounsaturated Fat	AOAC 996.06	0.1 to 80%
		Polyunsaturated Fat	AOAC 996.06	0.1 to 10%
		Omega -3 Fatty Acids	DGHS Manual 2, Clause. 20.0	5 mg/kg (min)

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	Nutritional Value in Food	Crude Fiber	IS 5898: 1981 IS 1656: 1969	0.5 (min.)
		Determination of Sugars	D.G.H.S. Manual 2005 (Lab Manual 5) Clause. 2.6 Non Alcoholic Beverages, IS 2346: 1992	0.1 % to 20 %
		Total Sugar	IS 4079: 1967 (RA 2009)	0.1 % to 24.5 %
		Energy or Calories	IS 14433 Ref AOAC 986.25, IS 1684: 1968, IS 1011: 1968, DGHS Manual 1 Clause. 9.7.0	By Calculation
2.	Vitamins in Food			
	Food Product, Bakery Product Processed Food, Fruits, Herbal & Vegetables Products, Cereals and Grains, Oil and Fats	Vitamin C (Ascorbic Acid)	IS 5838: 1970 (RA 2010)	30 mg to 200 mg/ 100 g
		Thiamine	IS 5398: 1969 AACC 86: 90	0.2 mg to 5 mg/ 100 g
		Riboflavin	IS 5399: 1969 AACC 86: 90	0.5 mg to 100 mg/100 g
		Vitamin B6	AACC 86: 90 IS 7530	0.5 mg to 50 mg/100 g
		Vitamin B12	IS 14433 IS 7529	0.7 mcg to 5 mcg / 100 g

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	Vitamins in Food			
	Food Product, Bakery Product Processed Food.	Vitamin D	AOAC 981.17 IS 5835: 1970	1 mcg to 20 mcg / 100 g
	Fruits, Herbal & Vegetables	Vitamin A	AACC-86: 06 IS 5886: 1970 (RA 2010)	200 IU to 4000 IU / 100 g
	Product s, Cereals and Grains, Oil and Fats	Folic acid	In house Method: ARLB/STP/MC-008 Issue No.-01,Date-26-04-2012	10 to 2000 mcg/100 g
3.	Oil seeds & by-products			
	Oil, Oil Seeds, Fats and Related Products	Ash Content	IS 4684: 1995 (RA 2005) Appendix D	0.001 % to 1 %
		Melting Point	DGHS Manual 2 Pg-20 Chapter-8	30 to 50
		BR Value	IS 548 (Part 1): 1964	0 to 100
		Acid Value	IS 548 (Part 1), DGHS Manual 2 Clause. 11.0	0.2 to 120
		Bellier Test (Turbidity Temperature) Acetic Acid Method	DGHS Manual 2 Clause. 14.0	2*c to30*c
		Richert Missel Value	DGHS Manual 2 Chapter. 13	0.01 % to 30%
		Polensky Value	DGHS Manual 2 Chapter.13	0.01 to 5.0

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Oil seeds & by-products				
	Oil, Oil Seeds, Fats and Related Products	Saponification Value	DGHS Manual 2 Chapter.9	2 to 200
		Unsaponification Value/ Unsaponifiable Matter	DGHS Manual 2 Chapter.10	0.1 gm to 15 gm/kg
		Specific Gravity	DGHS Manual 4 Clause. 6.3 AOAC (18 th Edition) Chapter. 24, 26	0.5 % to 10 %
		Refractive Index	IS 4941: 1994 (RA 2008) DGHS Manual 2 Clause. 5.0	1 % to 60 %
		Per Oxide Value	IS 548(Part 1): 1964 (RA 2006)	0.1 meq to 10 meq
		Iodine Value	IS 548 (Part 1): 1964 (RA 2006)	1 mg/kg (min.)
4.	Bakery & Confectionary Product			
	Bakery & Confectionary Product, Proprietary Food (Raw & Processed)	Moisture	IS 1011: 2002 (RA 2009)	0.5 % to 50 %
		pH	IS 1483: 1988 (RA 1999) AOAC (19 th Edition) Chapter. 32 (943.02)	0 to 14
		Ash Content	AOAC (19 th Edition) Chapter. 32 (923.03)	0.001 % to 1 %
		Total Ash (Excluding NaCl)	DGHS Manual 3 Chapter. 32 AOAC (19 th Edition) (923.03)	0.02 % to 2 %

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Bakery & Confectionary Product				
	Bakery & Confectionary Product, Proprietary Food (Raw & Processed)	Acid Insoluble Ash	IS 1011: 2002 DGHS Manual 3 Clause. 8.4	0.1 % to 5 %
		Acidity	IS 1011: 2002	0.1 % to 25 %
		Acidity of Extracted Fats	IS 1011: 2002 DGHS Manual 3 Clause. 14.4	0.1 % to 5 %
		Alcoholic Acidity	DGHS Manual 3 Clause. 8.6	0.01 % to 5.0 %
		Sucrose	IS 1163: 1992 (RA 2009)	1 % to 50 %
		Milk Fat	IS 1163: 1992 (RA 2009)	1 % to 15 %
		Milk Solid	IS 1163: 1992 (RA 2009)	1 % to 10 %
5.	Sugar and by Products			
	Sugar and by Products (Invert Syrups, Caramel, Refined Sugar, Soft Sugar, Jaggery) Glucose/ Liquid Glucose	Moisture	IS 15279: 2003 (RA 2008)	0.5 % to 50 %
		pH	ICUMSA-GS2/9-37	0 to 14
		Total Ash	AOAC (19 th Edition) Chapter.14 Page 3	0.02 % to 2 %
		Reducing Sugar	IS 15279: 2003 (RA 2008)	1 % to 15 %
		Conductivity Ash	IS 15279: 2003 (RA 2008)	1.0 to 14.0
		Colour	IS 15279: 2003 (RA 2008)	Qualitative

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Sugar and by Products				
	Sugar and by Products (Invert Syrups, Caramel, Refined Sugar, Soft Sugar, Jaggery) Glucose/ Liquid Glucose	Polarization	IS 15279: 2003 (RA 2008)	0.1 to 2.0
		Invert Sugars	IS 15279: 2003 (RA 2008)	0.1 % to 25 %
		Determination of Sulphur Dioxide	IS 15279: 2003 (RA 2008)	1 % to 23 %
6.	Milk and Dairy products			
	Milk and Dairy products , Curd , Powder, Ice-Cream & Cheese	Moisture	AOAC (18 th Edition) D.G.H.S. Manual 1 Clause 2.1.1,4.1.1 5.1.1 7.1, 9.1.1 10.02, 11.02, 15.1	0.5 % to 50%
		pH	IS 1166: 1973 (RA 2009) DGHS. Manual 2005 (Lab Manual 1)	0 to 14
		Ash Content	IS 14433: 2007, DGHS Manual 1 Clause 13.06 & 15.4	0.001 % to 1%
		Acid Insoluble Ash	IS 14433: 2007 Annexure B, DGHS Manual 1, Clause 9.7.1	0.1 % to 5%
		Acidity	IS 14433: 2007 Annexure C, DGHS Manual 1, Clause 9.3.0	0.1 to 25%

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Milk and Dairy products				
	Milk and Dairy products , Curd , Powder, Ice-Cream & Cheese	Weight in Gram	IS 2802: 1964 (RA 2006)	1 to 4.50
		Titration Acidity as Lactic Acid	IS 1165: 2002 (RA 2012) DGHS Manual 1 Clause 9.3.0	1 % to 15 %
		Appearance	Visual	Qualitative test
		Total Solids (Curd)	DGHS Manual 1 Clause 3.4.0	0 to 1 %
		Milk Protein in Milk Solids not Fat	DGHS Manual 2005 (Lab Manual 1) Clause 2.1.3	2.1 % to 35 %
		BR Value	IS 3508: 1966	30 to 50
		Baudouind Test	IS 3508: 1966	Qualitative
		Chloride	IS 1479 (Part II): 1961 (RA 2008)	1 % to 20 %
		Alkalinity	IS 5345: 1996	Qualitative
		Sucrose	IS 2802: 1964 (RA 2006) IS 13688: 1999 (RA 2010)	0 % to 20 %
		Added Salt	IS 2785: 1979 (RA 2006)	0.1 % to 3%
		Total Solids	DGHS Manual 1, Clause 3.4.0, 8.1.0, 9.7.5, 2.1	0.2 % to 2%
		Total Soluble Solids (Degree Brix)	AOAC (18 th Edition) Chapter 44	1.0 mg/kg

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Milk and Dairy products				
	Milk and Dairy products , Curd , Powder, Ice-Cream & Cheese	Milk Fat	IS 11721: 2005 (RA 2010), IS 2785: 1979 (RA 2006), IS 2802: 1964 (RA 2006), IS 2802: 1964 (RA 2006)	10 % to 80%
		Calcium	IS 5949: 1990 (RA 2010)	0.2 mg/l to 100 mg/l
		Acid Insoluble Ash (on Moisture, Fat and Sugar Free Basis)	IS 2802: 1964 (RA 2006)	0.1 % to 1 %
		Total added sugar	IS 4079: 1967 (RA 2009)	0.1 % to 24.5 %
7.	Spices & Condiments			
	Spices & Condiments, Salt, Saffron	Moisture	DGHS Manual 2005 (Lab Manual 10), Clause 14.4, 16.2, IS 1797: 1984 (RA 2009)	0.5 % to 50 %
		Ash Content	IS 1797: 1984 (RA 2009), DGHS Manual 10, Clause 4, IS 5453: 1996 (RA 2009)	0.001 % to 1 %
		Acid Insoluble Ash	IS 1797: 1984 (RA 2009), DGHS Manual 10, 4, IS 5453: 1996 (RA 2009)	0.1 % to 5 %
		Acid Insoluble Matter	IS 7224: 2006 Annexure H	0.001 % to 5 %
		Matter Soluble in Water Other Than Sodium Chloride	IS 7224: 2006	0.001 % to 5 %

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Spices & Condiments				
	Spices & Condiments, Salt, Saffron	Common Salt (NaCl)	IS 1797: 1985	1 % to 110 %
		Cold Water Extract	DGHS Manual 10, Clause 6.0	2.0 % to 4%
		Alcohol Soluble Extract	DGHS Manual 10, Clause 7.0	(1 g to 99 g)/100g
		Determination of Extraneous Matter and Other Refraction in Whole Spices	DGHS Manual 10, Clause 2.0	0.5 % to 15 %
		Volatile Acidity	AOAC (18 th Edition) Chapter 41	0.1 % to 24%
		Non-Volatile Ether Extract	IS 1797: 1984, AOAC (18 th Edition) Chapter 4	0.1 % to 50.0%
		Volatile Contents	IS 1797: 1984	0.1 % to 25%
		Crude Fiber	IS 1797: 1985 (RA 1994) DGHS Manual	1 % to 20%
		Added color	IS 1797: 1985 (RA 1994)	Qualitative (Present/Absent)
8.	Honey and Honey Products	Specific Gravity at 27°C	IS 4941: 1994 (RA 2008) Annexure A	1 to 2
		Total Reducing Sugar, Percent by Mass	IS 4941: 1994 (RA 2008) Annexure C	10 % to 90.0 %

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	Honey and Honey Products	Moisture, Percent by Mass	IS 4941: 1994 (RA 2008) Annexure B	12.0 % to 30 %
		Fructose-Glucose Ratio	IS 4941: 1994 (RA 2008) Annexure A	0.5 to 2
		Acidity (as Expressed as Formic Acid), Percent by Mass	IS 4941: 1994 (RA 2008) Annexure E	0.1 % to 2 %
		Sucrose, Percent by Mass	IS 4941: 1994 (RA 2008) Annexure C	1.0 % to 10 %
		Ash, Percent by Mass	IS 4941: 1994 (RA 2008) Annexure D	0.1 % to 5%
		Fiehe's Test	IS 4941: 1994 (RA 2008) Annexure F	Qualitative
		Hydroxy Methyl Furfural Test (HMF)	IS 4941: 1994 (RA 2008) Annexure F	10 mg/kg to 100 mg/kg
		Density	IS 4941: 1994	0.5 % to 30%
9.	Tea, Tea Products and Coffee, Cocoa and by Products	Ash Content	DGHS Manual 4, Clause 1.3, IS 13854: 1994 IS 1164: 1986	0.001 % to 1%
		Acid Insoluble Ash	DGHS Manual 4, Clause 1.5 IS 1164: 1986	0.1 % to 5%
		Water Soluble Ash	IS 13862: 1999, DGHS Manual 4, Clause 6.0	1.0 % to 2.2%

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	Tea, Tea Products and Coffee, Cocoa and by Products	Moisture	DGHS Manual 3, Clause 4.2	4.0 % to 10 %
		Alkalinity of Water Soluble Ash	IS 13856: 1993 (RA 2010), IS 1164: 1986, Manual 2005 (Lab Manual 4) Clause 1.6	25.0 % to 70%
		Determination of Water Extract	IS 13862: 1999, DGHS Manual 2005 (Lab Manual 4) Clause 2.5	2.0 % to 40%
		Caffeine Content	DGHS Manual 4, Clause 2.7	Min. 1%
		Alkalinity of Ash	IS 1164: 1986 (RA 2007)	1.0 % to 12%
		Cocoa Butter	IS 1164: 1986, DGHS Manual 4 Clause 4.3	1 % to 50 %
		Crude Fiber	IS 1164: 1986 , DGHS Manual 4, Clause 5.8	2.0 % to 10%
10.	Alcoholic Drinks	pH	IS 3865: 2001 (RA 2009)	0 to 14
		Ash Content	IS 3752: 2005 (RA 2009)	0.001 % to 1%
		Alcohol Content	IS 3752: 2005 (RA 2009)	5 % to 70% v/v
		Higher Alcohols	IS 3752: 2005 (RA 2009)	10 g/l to 250 g/l
		Methanol Content	IS 3752: 2005 (RA 2009)	0.5 mg/l (min.)

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	Alcoholic Drinks	Aldehydes	IS 3752: 2005 (RA 2009)	10 g/l to 50 g/l
		Furfural	IS 3752: 2005 (RA 2009)	10 g/l to 20 g/l
		Esters	IS 3752: 2005 (RA 2009)	0.1 g/l to 20 g/l
		Appearance	Visual	Qualitative
		Ethyl Alcohol	IS 3811: 2005 IS 3865: 2001	1 % to 10 %
		Volatile Acidity	IS 3752: 2005	0.1 % to 24 %
		Residue on Evaporation	IS 3752: 2005 (RA 2009)	Max. 5.0
		Total Acids as Tartaric Acid (Expressed in Terms of 100 l of Absolute Alcohol)	IS 3752: 2005 (RA 2009)	Max.250
		Volatile Acids as Acetic Acid (Expressed in Terms of 100 l of Absolute Alcohol)	IS 3752: 2005 (RA 2009)	Max. 100
11.	Soft drinks			
	Non Alcoholic Carbonated and Non Carbonated Beverages and Concentrates (Soft Drinks, Fruit Drinks Concentrates)	Volatile Acids	DGHS Manual 5 Clause 2.5	1 to 50 %
		Determination of Fruit Content	DGHS Manual-5 Clause 9.2, 15.3	2.0 to 5.0 %
		Total Soluble Solids	IS 13815: 1993 (RA 2008), DGHS Manual 2005 (Lab Manual 5) Clause 2.2, 8.1, 6.2, 15.1 (Fruits & Vegetable Products)	0.1 % to 10%

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12.	Cereals, pulses and their by products			
	Cereals, Pulses and their by Products, Proprietary Food & Animal Feed	Moisture	DGHS Manual 2005 (Lab Manual 3) Clause 2.0, 14.3, 15.2, 16.0	0.5 % to 50%
		Ash Content	DGHS Manual 10, Clause 4.0, IS 1155: 1968	0.001 % to 1%
		Acid Insoluble Ash	DGHS Manual 3, Clause 14.4, 15.4, DGHS Manual 10	0.1 % to 5%
		Gluten	DGHS Manual 3, Clause 8.5 IS 1155: 1968	0.05 % to 2%
		Alcoholic Acidity	DGHS Manual-3, Clause 8.6,15.3, IS1155 : 1968	0.01 % to 5.0%
		Appearance	Visual	Qualitative test
		Foreign Matter (Organic/Inorganic)	IS 4333 (Part 1): 1996 (RA 2009)	0.02 % to 5.0%
		Mineral Matter	IS 4333 (Part 1): 1996, DGHS Manual 3, Clause 1.1.2.2	0.01 % to 6.0%
		Sieve Analysis	IS 1010: 1968 (RA 2010)	0.5 % to 5%

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13.	Fish, Meat and their Products			
	Fish, Sea Foods, Meat	Moisture	DGHS Manual 2005 (Lab Manual 6) Chapter-2.2	0.5 % to 50%
		Acid Insoluble Ash	IS 5960: 2000 (RA 2009), DGHS Manual 6, Clause 2.4	0.1 % to 5%
		Total Volatile Base (Nitrogen)	DGHS Manual 6 Chapter-1.2	0 mg to 100 mg/100 g
		Protein/ Nitrogen	DGHS Manual 6	1 % to 5%
14.	Fruits and Vegetable			
	Unprocessed/ Processed/ Frozen/Fresh Fruits & Veg. & Dehydrated Fruit/ veg. & Their Products, Fruit Juices And Concentrate	Moisture	DGHS Manual 2005 (Lab Manual 5) Cl. 4.1	0.5 % to 50 %
		pH	DGHS Manual 5 Cl. 2.3	1 to 14
		Ash Content	IS 13846: 1993	0.001 % to 1 %
		Acid Insoluble Ash	DGHS Manual 5, IS 13846: 1993	0.1 % to 5 %
		Total Ash Soluble in Dilute HCl	DGHS Manual 5, Clause 5.3	1 % to 20 %
		Acidity	IS 13844: 2003 (RA 2008), DGHS Manual 5, Clause 2.4 (Fruits & Vegetable Products), IS 1165: 1992, IS 13690: 1992, IS 2860: 1994 (RA 2008)	0.1 % to 25 %

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Fruits and Vegetable				
	Unprocessed/ Processed/ Frozen/Fresh Fruits & Veg. & Dehydrated Fruit/ veg. & Their Products,Fruit Juices And Concentrate	Common Salt (NaCl)	DGHS Manual 5, Chapter-1.7	1 % to 20 %
		Appearance	Visual	Qualitative Test
		Drained Weight	DGHS Manual 5, Clause 1.4 (Fruits & Vegetable Product)	0.1 % to 80%
		Blemishes	DGHS Manual 5	Qualitative
		Determination of pH of Brine	DGHS Manual 2, Clause 19.3 (Fruits & Vegetables)	1 to 14
		Determination of Acidity of Brine	DGHS Manual-4, Clause 19.3, AOAC (18 th Edition) Chapter 27	0 to 10
		Acidity (as Citric Acid)	AOAC (18 th Edition), DGHS Manual 5, Clause 6.8	0.2 % to 8.0 %
		Total Soluble Solids	DGHS Manual 2005 (Lab Manual 5) Clause 2.2	0.1 % to 10%
		Determination of Sulphur dioxide	DGHS Manual 2005, Clause 17.7 (Fruit)	1 to 23%
		Cold water soluble extract	DGHS Manual 5	1.0 to 100%
		Free from Stalks, Peels, Stems and Extraneous Matter	Visual	NA

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	Fruits and Vegetable			
	Unprocessed/ Processed/ Frozen/Fresh Fruits & Veg. & Dehydrated Fruit/ veg. & Their Products,Fruit Juices And Concentrate	Free from any Other Harmful Substances Coloring Matter	Visual D.G.H.S. Manual 8 Clause 4.0 Color & Preservatives, AOAC (18 th Edition) Chapter 26, 30, 32	NA Qualitative (Present/ Absent)
15.	Aflatoxins			
	Food Product, Bakery product Processed food. Fruits, Herbal & Veg. products, Cereals and Grains, Oil and Fats	Aflatoxin , mcg/kg	ARLB/STP/MC/009, Issue No. 02 & Issue date 28-08-2014	1.75mcg/kg (min.)
16.	Food Additives			
	Antioxidants	Colouring matter	D.G.H.S. Manual 8 Clause 4.0 Color & Preservatives, IS 11766: 1986 (RA 2008), AOAC (18 th Edition) Chapter 26, 30, 32	Qualitative (Present/Absent)

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17.	Adulterants			
a.	Oil, fats and related products	Test for Presence of Sesame oil (Baudouin Test)	IS 548 (Part 2): 1976, DGHS Manual 2, Clause 15.0	Qualitative (Present/ Absent)
		Test for Presence of Cottonseed oil (Halphen's Test)	IS 548(Part 2): 1976, DGHS Manual 2, Clause 16.0	Qualitative (Present/Absent)
		Determination of Cloud Point	DGHS Manual 2, Clause 17.0	1.0 to 52 %
		Test for of Rice-Bran Oil	IS 548 (Part 2): 1976, DGHS Manual 2, Clause 18.0	Qualitative (Present/ Absent)
		Test for Presence of Linseed Oil (Hexabromide Test)	IS 548(Part 2): 1976, DGHS Manual 2, Clause 19.0	Qualitative (Present/ Absent)
		Polybromide Test for Mustard Oil	DGHS Manual 2, Clause 19A.0	Qualitative (Present/ Absent)
		Test for Presence of Olive Residue (Pomace) oil in Olive oil	DGHS Manual 2, Clause 24.0	Qualitative (Present/ Absent)
		Test for Semi-Siccative Oil in Olive Oil	IS: 548 (Part 2) 1976, DGHS Manual 2, Clause 26.0	Qualitative (Present/ Absent)
		Test for presence of Mineral Oil	IS: 548 (Part2) 1976 DGHS Manual 2, Clause 28.0	Qualitative (Present/ Absent)

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Adulterants				
b.	Oil, fats and related products	Test for Presence of Castor Oil	IS: 548 (Part2) 1976, DGHS Manual 2, Clause 29.0	Qualitative (Present/ Absent)
		Determination of Nickel in Vanaspati (by AAS)	DGHS Lab Manual 2, Clause 35.0	1 mg/kg to 20 mg/kg
		Test for Presence of Rancidity	DGHS Manual 2, Clause 37.0	Qualitative
		Determination of Carotenoid Content of Raw Palm Oil	DGHS Manual 2, Clause 36.0	Qualitative (Present/ Absent)
c.	Spices and condiments	Detection of Papaya Seeds in Black pepper	DGHS Manual 10, Clause 20.0	Qualitative (Present/ Absent)
		Presence of Chromates	DGHS Manual 10, Clause 15.6	Qualitative (Present/ Absent)
		Determination of Dyes	IS 5453: 1996	0.1 % to 95 %
		Added Coloring Matter-Synthetic	DGHS Manual 3, Clause 18.0	Qualitative
d.	Milk and dairy products	Test for Presence of Starch	DGHS Manual 1, Clause 1.2.2.3	Qualitative/Quantitative
		Urea	AOAC (18 th Edition), Chapter 4, 14, DGHS Manual 1, Clause 1.2.4.0	Qualitative (Present/ Absent)

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	Milk and dairy products	Water in Milk	IS 11623: 2008, DGHS Manual 1, Clause 1.0	Qualitative (Present/ Absent)
		Test for Glucose/ Invert Sugar	DGHS Manual 1, Clause 1.2	Qualitative/Quantitative
		Ammonium Sulphate	DGHS Manual 1, Clause 1.2	Qualitative (Present/ Absent)
		Salt (NaCl)	DGHS Manual 1, Clause 1.2	Qualitative (Present/ Absent)
		Hydrogen Peroxide	DGHS Manual 1, Clause 1.3	Qualitative (Present/ Absent)
		Sugar	DGHS Manual 1, Clause 1.3, IS 1479 (Part 1): 1960, IS 1166: 1973	Qualitative/Quantitative
		Boric Acid	AOAC (18 th Edition) Chapter 47	Qualitative (Present/ Absent)
e.	Fruits and vegetable products	Test for Presence of Caramel	DGHS Manual 5, Clause 14.7 (Fruits & Vegetable)	Qualitative (Present/ Absent)
f.	Beverages	Determination of Cocoa Butter	DGHS Manual 4, Clause 26.0	Qualitative (Present/ Absent)

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18.	Heavy Metals & Elements			
a.	Food Product, Bakery product Processed food. Fruits, Herbal & Veg. product s, Cereals and grains, Oil and fats.	Lead	AOAC (19 th Edition) (M-999.11)	0.1 mg/kg to 20 mg/kg
		Arsenic	DGHS Manual 9, Clause 3.1, AOAC 912.01	0.1 mg/kg to 20 mg/kg
		Cadmium	AOAC (19 th Edition) (M-999.11)	0.1 mg/kg to 20 mg/kg
		Nickel	AOAC (19 th Edition) (M-990.05)	0.1 mg/kg to 20 mg/kg
		Mercury	DGHS Manual 9, Clause 3.1	0.1 mg/kg to 20 mg/kg
		Copper	AOAC (19 th Edition) (M-999.11)	0.1 mg/kg to 20 mg/kg
		Tin	DGHS Manual 9, Clause 2.1	Qualitative
		Calcium	AOAC (19 th Edition) Chapter-50 (M-985.35)	0.1 mg/kg to 20 mg/kg
		Phosphorous	AOAC (19 th Edition) Chapter-45 (M-995.11)	0.1 mg/kg to 20 mg/kg
		Sodium	AOAC (19 th Edition) Chapter-50 (M-985.35)	0.1 mg/kg to 20 mg/kg
	Potassium	AOAC (19 th Edition) Chapter-50 (M-985.35)	0.1 mg/kg to 20 mg/kg	

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Heavy Metals & Elements				
	Food Product, Bakery product Processed food. Fruits, Herbal & Veg. product s, Cereals and grains, Oil and fats.	Magnesium	AOAC (19 th Edition) Chapter-50 (M-985.35)	0.1 mg/kg to 20 mg/kg
		Manganese	AOAC (19 th Edition) Chapter-50 (M-985.35)	0.1 mg/kg to 20 mg/kg
		Iron	AOAC (19 th Edition) Chapter-50 (M-985.35)	0.1 mg/kg to 20 mg/kg
		Zinc	AOAC (19 th Edition) Chapter-50 (M-985.35)	0.1 mg/kg to 20 mg/kg
Ready to Eat Foods				
b.	Ready to Eat Foods, Traditional Sweets	Moisture	IS 1011: 2002 (RA 2009)	0.5 % to 50%
		Total ash	IS 4684: 1975 (RA 2005) Appendix-D	0.001 % to 1%
		Acid insoluble ash, % w/w	IS 4684: 1975 (RA 2005)	0.1 to 5
		Copper	AOAC (19 th Edition) (M-999.11)	≥1 mg/kg
		Arsenic	DGSH Manual 9 Chapter-3	Qualitative
		Tin	DGSH Manual 9 Chapter-3.8	Qualitative
		Zinc	AOAC (19 th Edition) (M-999.11)	0 to 20 mg/kg

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Ready to Eat Foods				
	Ready to Eat Foods, Traditional Sweets	Cadmium	AOAC (19 th Edition) (M-999.11)	≥0.1 mg/kg
		Mercury	DGSH Manual 9 Chapter 2.2	≥0.01mg/kg
		Added Coloring Matter-Synthetic	DGHS Manual 3, Clause 4.2	Qualitative
V. WATER				
1.	Drinking Water – Packaged Drinking Water , Packaged Natural Mineral Water , Water for processed Food Industries	Color	IS 3025 (Part 4): 1983 (RA 2012)	Qualitative
		Odour	IS 3025 (Part 5): 1983 (RA 2012)	Qualitative
		Turbidity	IS 3025 (Part 10): 1984 (RA 2012)	1 to100, >100 NTU
		Total solids	IS 3025 (Part 15): 1984 (RA 2009)	5 to 1000, > 1000 mg/l
		pH Value	IS 3025 (Part 11): 1983 (RA 2012)	1 to 14
		Total Hardness	IS 3025 (Part 21): 2009	1 mg/l to 1500 mg/l
		Nitrate (as NO ₃)	IS 3025 (Part 34): 1988 (RA 2009)	0.1 to 5, > 5mg/l
		Nitrite (as NO ₂)	IS 3025 (Part 34): 1988 (RA 2009)	0.01 mg/l to 10 mg/l

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	Drinking Water – Packaged Drinking Water , Packaged Natural Mineral Water , Water for processed Food Industries	Sulfide as H ₂ S	IS 3025 (Part 29): 1986 (RA 2009)	0.02 mg/l to 10 mg/l
		Copper	IS 3025 (Part 42): 1992 (RA 2004)	0.02 mg/l to 5.0 mg/l
		Manganese	IS 3025: (Part 59): 2006 (RA 2012)	0.04 mg/l to 5.0 mg/l
		Zinc	IS 3025 (Part 49): 1994 (RA 2009)	0.01 mg/l to 2.0 mg/l
		Fluoride	IS 3025 (Part 60): 2008 (RA 2013)	0.2 mg/l to 5.0 mg/l , > 5.0 mg/l
		Barium	IS 15302: 2003	1 mg/l to 20 mg/l
		Ammonia (Total NH ₃ -N)	IS 3025 (Part 34): 1988 (RA 2009)	0.1 mg/l to 10 mg/l
		Residual Chlorine (as Cl ₂)	IS 3025 (Part 26): 1986 (RA 2009)	0.5 mg/l to 5.0 mg/l
		Silver	IS 13428: 2005 (RA 2011)	0.1 mg/l to 4 mg/l
		Chloride	IS 3025 (Part 32): 1988 (RA 2009) Turbidity Method	1 to 500, >500 mg/l
		Sulfates	IS 3025 (Part 24): 1986 (RA 2009)	1 to 40 , > 40 mg/l
		Calcium	IS 3025 (Part 40): 1991 (RA 2009)	1 mg/l to 1500 mg/l

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	Drinking Water – Packaged Drinking Water , Packaged Natural Mineral Water , Water for processed Food Industries	Magnesium	IS 3025 (Part 46): 1994 (RA 2009)	1 mg/l to 1000 mg/l
		Alkalinity	IS 3025 (Part 23): 1986 (RA 2009)	1 to 500, >500 mg/l
		Selenium	IS 15303: 2003, IS 3025 (Part 56): 2005 (RA 2009)	1 mg/l to 10 mg/l
		Mineral oil (IR)	IS 3025 (Part 39): 1991 (RA 2009)	0.1 mg/l to 40 mg/l
		Cadmium	IS 3025 (Part 41): 1992 (RA 2009)	0.05 mg/l to 2.0 mg/l
		Lead	IS 3025 (Part 47): 1994 (RA 2009)	0.05 mg/l to 10 mg/l
		Chromium (Total)	IS 13428: 2005 (RA 2009)	0.02 mg/l to 20 mg/l
		Nickel	IS 3025 (Part 54): 2005 (RA 2009)	0.3 mg/l to 10 mg/l
		Boron	IS 3025 (Part 57): 2005 (RA 2012)	0.02 mg/l to 0.2 mg/l
		Iron	IS 3025: (Part 53): 2003 (RA 2009)	0.01 mg/l to 10 mg/l
2.	Effluent Water	Suspended Solids	IS 3025 (Part 15): 1984 (RA 2009)	5 to 1000 , >1000 mg/l
		pH Value	IS 3025 (Part 11): 1983 (RA 2012)	1 to 14

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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
	Effluent Water	Oil & Grease	IS 3025 (Part 39): 1991 (RA 2009)	0.1 mg/l to 40 mg/l
		Total residual chlorine	IS 3025 (Part 26): 1986 (RA 2009)	0.5 mg/l to 5.0 mg/l, > 5.0 mg/l
		Ammonical nitrogen	IS 3025 (Part 34): 1988 (RA 2009)	0.1 mg/l to 10 mg/l
		Total Kjeldhal Nitrogen	IS 3025 (Part 34): 1988 (RA 2009)	0.1 to 100, >100 mg/l
		Chemical Oxygen Demand (COD)	IS 3025 (Part 58): 2006 (RA 2012)	2 to 400, >400 mg/l
		Lead	IS 3025(Part 47): 1994 (RA 2009)	0.05 mg/l to 10 mg/l
		Cadmium	IS 3025 (Part 41): 1992 (RA 2009)	0.05 mg/l to 2.0 mg/l
		Chromium	IS 13428: 2005 (RA 2009)	0.4 mg/l to 200 mg/l
		Copper	IS 3025 (Part 42): 1992 (RA 2004)	0.02 mg/l to 5.0 mg/l
		Selenium	IS 3025 (Part 56): 2003 (RA 2009) IS 15303: 2003	1 mg/l to 10 mg/l
		Nickel	IS 3025 (Part 54): 2005 (RA 2009)	0.3 mg/l to 10 mg/l
		Fluoride	IS 3025 (Part 60): 2008 (RA 2013)	0.1 mg/l to 5.0 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
	Effluent Water	Phosphorus	IS 3025 (Part 31): 1988 (RA 2009)	0.2 mg/l to 2.0 mg/l
		Sulphide	IS 3025 (Part 29): 1986 (RA 2009)	0.02 mg/l to 10 mg/l
		Manganese	IS 3025 (Part 59): 2006 (RA 2012)	0.01 mg/l to 5.0 mg/l
		Iron	IS 3025 (Part-53): 2003 (RA 2009)	0.01 mg/l to 10 mg/l
		Nitrate Nitrogen	IS 3025 (Part 34): 1988 (RA 2009)	0.1 mg to 5 mg ,>5mg/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 IS14543 and the Packaged Natural Mineral Water IS13428.**