

Laboratory	Testtex India Laboratories Pvt. Ltd., H. O. & Central Laboratory, 301-304, Premson's Industrial Estate, Caves Road, Jogeshwari (East), Mumbai, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	04.10.2014
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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
I. TEXTILE AND TEXTILE AUXILIARIES				
1.	Textiles and Textile Accessories	Colour Fastness to : -		
		a) Domestic & Commercial Washing / Laundering	ISO 105 CO6 : 2010 AATCC 61: 2013 IS 13025 : 1991 (RA 2008)	Grade 1 to 5
		b) Crocking / Rubbing	AATCC 8 : 2013 ISO 105 X12 : 2001 IS 766 : 1988 (RA 2009)	Grade 1 to 5
		c) Perspiration	ISO 105 E04 : 2013 AATCC 15:2013 IS 971:1983 (RA 2009)	Grade 1 to 5
		d) Artificial Saliva	DIN 53160-1-2010	Grade 1 to 5
		e) Water	AATCC 107: 2013 ISO 105 EO1: 2013 IS 767:1988 (RA 2009)	Grade 1 to 5
		f) Dry Cleaning	AATCC 132:2013 ISO 105 D01: 2010 IS 4802:1988 (RA 2004)	Grade 1 to 5
		g) Bleaching - Hypochlorite	ISO 105 NO1: 1993 IS 762 : 1988 (RA 2009)	Grade 1 to 5
		h) Bleaching - with Peroxide	AATCC 101:2013 ISO 105 NO2: 1993 IS 763:1988 (RA 2009)	Grade 1 to 5

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	Textiles and Textile Accessories	i) Chlorinated Pool Water	ISO 105 EO3: 2010	Grade 1 to 5
		j) Light (Xenon Arc)	AATCC 16.3-2013 ISO 105 BO2:2013 IS 2454 : 1985 (RA 2005)	Grade 1 to 5 B. W Rating 1 to 8
		Dimensional Stability to Washing	AATCC 135 : 2012 AATCC 150 : 2012 ISO 6330 : 2012/ ISO 3759:2011 ISO 5077:2007	± (0 to 25) %
		Visual Appearance after Washing / Home Laundering	TTI/IHM-016:2012 (In-house Method)	Grade 1 to 5
		Skewness Change in Fabric and Garment: Twist Resulting from Automatic Home Laundering	AATCC 179-2012	± (0 to 50) %
		Spirality after Laundering – i) Woven and Knitted Fabrics ii) Woven and Knitted Garments	ISO 16322-2:2005/Cor 1 : 2007 ISO 16322-3:2005	(0 to 50) %
		Smoothness Appearance of Fabrics after Washing/Home Laundering	AATCC 124-2011	Grade 1 to 5

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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
	Textiles and Textile Accessories	Appearance of Apparel and other Textile End-products after Washing/Home Laundering : Flat Fabrics and Seams	ISO 15487:2009 AATCC 143-2011	Grade 1 to 5 Grade 1 to 5
		Identification of Fibres	AATCC 20 :2013 IS 667 :1981 (RA 2008) IS 667: 1981 (Supplement)	Qualitative
		% Fiber Composition (Binary mixture of polyester with cotton & regenerated cellulose)	AATCC 20 A :2013 ISO 1833 -1: 2006/Cor 1 2009 & ISO 1833 – 11 :2006 IS 3416 -1 :1988 (RA 2008)	(2 to 100) %
		% Fiber Composition by Physical Separation	AATCC 20 A :2013 ISO 1833-1: 2006/Cor 1 2009 Annexure – B	
		pH of Aqueous Extract	AATCC 81 : 2012 ISO 3071:2005 IS 1390:1983 (RA 2009)	1 to 14
		Presence of Forbidden Fire Retardants:- Hexa bromo biphenyl	TTI/IHM – A-01 : 2012 (In-house Method)	Present/Absent
		Tris (Aziri Diny) Phoshin Oxide (TEPA)	TTI/IHM – A-01 : 2012 (In-house Method)	(0.5 to 100) mg/kg

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	Textiles and Textile Accessories	Total Lead in Children products – Metallic	CPSC-CH-E 1001-08.1 June 21, 2010	(1.0 to 1000) mg/kg
		Total Lead in Children products -Non Metallic	CPSC-CH-E-1002-08.1 June 21, 2010	(1.0 to 1000) mg/kg
		Total Lead in Paint & Other Surface Coating	ASTM E 1645-01(2007) & ASTM E 1613-12 CPSC-CH-E 1003-09.1 Feb. 25, 2011 16 CFR 1303: November 2011	(1.0 to 1000) mg/kg
		Release of Nickel	BS EN 1811 : 2011	(0.02 to 50) µg/cm ² / Week
		Surface Flammability of Carpets & Rugs (Charred Portion)	16 CFR 1630 :August 2002	(0 to 20.3) cm
		Surface Flammability of Small Carpets & Rugs (Charred Portion)	16 CFR 1631 :August 2002	(0 to 20.3) cm
		Inclined Flammability of apparel textiles	16 CFR 1610 : 2014	(0.1 to 999) seconds
		Determination of Free and Hydrolysed Formaldehyde	ISO 14184 – 1 : 2011	(16 to 1000) mg/kg
		Released Formaldehyde	AATCC 112 : 2008 ISO 14184 – 2 – 2011	(20 to 1000) mg/kg

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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
	Textiles and Textile Accessories	Metal Content (Total Metal Content) :- Antimony Arsenic Barium Cadmium Chromium Cobalt Copper Lead Nickel Selenium Mercury	ISO 17072-2:2011 [Total Digestion - Acid Digestion – Analysis by AAS based on ASTM E 1645–01(2007) BSEN 1122:2001 & EN 1810:1998]	(0.1 to 500) mg/kg
		Metal Content (Extractable Metals) :- Antimony Arsenic Barium Cadmium Chromium Cobalt Copper Lead Nickel Selenium Mercury	ISO 17072 – 1 : 2011 [Acid Sweat solution (ISO 105 EO4: 2008) extract – Analysis by AAS, ASTM E 1613-12]	(0.1 to 500) mg/kg
				(0.01 to 50) mg/kg

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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
	Textiles and Textile Accessories	Pentachlorophenol 2,3,5,6-Tetrachlorophenol 2,3,4,6-Tetrachlorophenol 2,3,4,5-Tetrachlorophenol Pentachlorophenol Orthophenylphenol	TTI/IHM/A-19:2013 (Ref: DIN EN ISO 17070:2007) TTI/IHM/A-21A:2013	(0.05 to 100) mg/kg
		Dimethyl Fumerate (DMFu)	TTI/IHM/A-22 : 2013 (In-house Method) ISO/TS 16186:2012	(0.01 to 100) mg/kg
		Navy Blue	TTI/IHM/A-27 : 2013 (In-house Method) BSEN ISO 16373-2:2012 Dyestuff (Draft)	(5 to 1500) mg /kg
		Carcinogenic Dyes: Acid Red 26, Basic Red 9, Basic Violet 14, Direct Black 38, Direct Blue 6, Direct Red 28, Disperse Blue 1, Disperse Orange 11, Disperse Yellow 3	DIN 54231:2005 BSEN ISO 16373-2:2012 Dyestuff (Draft)	(1 to 100) mg /kg
2.	Textile Accessories Containing Plastics	Determination of Cadmium by Wet decomposition	BS EN 1122: 2001	(1.0 to 1000) mg/kg

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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
3.	Textiles and Textile Accessories (Metallic and Non-Metallic)	Aromatic Amines derived from Azo colorants:- 1. 4-Aminobiphenyl 2. Benzidine 3. 4-Chloro-o-toluidine 4. 2-Naphthylamine 5. O-Aminoazotoluene 6. 2-Amino-4-nitrotoluene 7. p-Chloroaniline 8. 2,4-Diaminoanisole 9. 4,4'- Diaminobiphenylmethane 10. 3,3'-Dichlorobenzidine 11. 3,3'-Dimethoxybenzidine 12. 3,3'-Dimethylbenzidine 13. 3,3'-Dimethyl - 4,4'- diaminobiphenylmethane 14. p-Kresidin 15. 4,4' Methylene-bis - (2-Chloroaniline) 16. 4,4' -Oxydianiline 17. 4,4' -Thiodianiline 18. O-Toluidine 19. 2,4-Toluyldiamine 20. 2,4,5-Trimethylaniline 21. o-Anisidine 22. 2,4 -Xylidine 23. 2,6 -Xylidine 24. 4-Aminoazobenzene	EN 14362-1:2012 EN 14362-3:2012	(5 to 1000) mg/kg

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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
4.	Textiles & Textile articles (Children toys & children articles)	Phthalates :- Dibutyl Phthalate (DBP) Benzyl butyl Phthalate (BBP) BIS 2-Ethyl hexyl Phthalate (DEHP) Di-N-Octyl Phthalate (DNOP) Diiso nonyl Phthalate (DINP) Diiso decyl Phthalate (DIDP) Diisoheptyl Phthalate Diisobutyl Phthalate Di-N-Hexyl Phthalate Bis-2 methoxyethyl Phthalate	BS EN 15777:2009 CPSC-CH-C1001-09.3 April 1, 2010	(20 to 1500) mg/kg
II. LEATHER				
1.	Leather & Leather Accessories	Colour Fastness to Crocking / Rubbing	AATCC 8 : 2007 ISO 105 X12 : 2001	Grade 1 to 5
		Colour Fastness to Perspiration	ISO 105 E04 : 2013 AATCC 15:2009	Grade 1 to 5
		Colour Fastness to Dry Cleaning	AATCC 132:2009 ISO 105 D01: 2010	Grade 1 to 5
		Colour Fastness to Light (Xenon Arc)	AATCC 16.3-2012 ISO 105 BO2:2013	Grade 1 to 5 B. W Rating 1 to 8
		Presence of Forbidden Fire Retardants:- Hexa bromo biphenyl	TTI/IHM – A-01 : 2012 (In-house Method)	Present/Absent

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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
	Leather & Leather Accessories	Tris (Aziri Dinyl) Phoshin Oxide (TEPA)	TTI/IHM – A-01 : 2012 (In-house Method)	(0.5 to 100) mg/kg
2.	Leather Accessories Containing Plastics	Determination of Cadmium by Wet decomposition	BS EN 1122: 2001	(1.0 to 1000) mg/kg
3.	Leather and Leather Accessories (Metallic / Non-Metallic)	Aromatic Amines derived from Azo colorants:- 1. 4-Aminobiphenyl 2. Benzidine 3. 4-Chloro-o-toluidine 4. 2-Naphthylamine 5. O-Aminoazotoluene 6. 2-Amino-4-nitrotoluene 7. p-Chloroaniline 8. 2,4-Diaminoanisole 9. 4,4'- Diaminobiphenylmethane 10. 3,3'-Dichlorobenzidine 11. 3,3'-Dimethoxybenzidine 12. 3,3'-Dimethylbenzidine 13. 3,3'-Dimethyl - 4,4'- diaminobiphenylmethane 14. p-Kresidin 15. 4,4' Methylene-bis- (2-Chloroaniline)	ISO 17234-1:2010 EN 14362-3:2012	(5 to 1000) mg/kg

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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	
	Leather and Leather Accessories (Metallic / Non-Metallic)	16. 4,4' -Oxydianiline	ISO 17234-1:2010	(5 to 1000) mg/kg	
		17. 4,4' -Thiodianiline	EN 14362-3:2012		
		18. O-Toluidine			
		19. 2,4-Toluyldiamine			
		20. 2,4,5-Trimethylaniline			
		21. o-Anisidine			
		22. 2,4 -Xylidine			
		23. 2,6 -Xylidine			
		24. 4-Aminoazobenzene			
		Total Lead in Children products – Metallic	CPSC-CH-E 1001-08.1 June 21, 2010		(1.0 to 1000) mg/kg
		Total Lead in Children products - Non Metallic	CPSC-CH-E-1002-08.1 June 21, 2010		(1.0 to 1000) mg/kg
		Total Lead in Paint & Other Surface Coating	ASTM E 1645-01(2007) & ASTM E 1613-12 CPSC-CH-E 1003-09.1 Feb. 25, 2011 16 CFR 1303: November 2011		(1.0 to 1000) mg/kg
		Release of Nickel	BS EN 1811 : 2011		(0.02 to 50) µg/cm ² / Week

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4.	Leather & Leather articles (Children toys & children articles)	Phthalates :- Dibutyl Phthalate (DBP) Benzyl butyl Phthalate (BBP) Bis- 2-Ethyl hexyl Phthalate (DEHP) Di-N-Octyl Phthalate (DNOP) Diiso nonyl Phthalate (DINP) Diiso decyl Phthalate (DIDP) Diisoheptyl Phthalate Diisobutyl Phthalate Di-N-Hexyl Phthalate Bis- 2 methoxyethyl Phthalate	BS EN 15777:2009 CPSC-CH-C1001-09.3, April 1, 2010	(20 to 1500) mg/kg
5.	Leather & Leather Products	Pentachlorophenol 2,3,5,6-Tetrachlorophenol 2,3,4,6-Tetrachlorophenol 2,3,4,5-Tetrachlorophenol Pentachlorophenol Orthophenylphenol Dimethyl Fumerate (DMFu) Navy Blue Volatile Matter (Moisture) of Leather by Oven Drying	DIN EN ISO 17070:2007 TTI/IHM/A-21B/2013 (Ref: DIN EN ISO 17070:2007) TTI/IHM/A-22 : 2013 (In-house Method) TTI/IHM/A-27:2013 (In-house Method) ASTM D 3790 : 79 (2012)	(0.05 to 100) mg/kg (0.01 to 100) mg /kg (5 to 1500) mg /kg (0.1 to 25) %

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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
	Leather & Leather Products	Total Ash content	ASTM D 2617 : 2012	(0.1 to 25) %
		pH	ISO 4045: 2008	0.1 to 14
		Formaldehyde Content	ISO 17226-2 : 2008	(20 to 500) mg/kg
		Pentachlorophenol	DIN EN ISO 17070:2007	(0.05 to 100) mg/kg
		Chromium (VI) Content	ISO 17075 : 2007	(1.0 to 1000) mg/kg
		Release of Nickel	BS EN 1811 : 2011	(0.02 to 50) µg/cm ² / Week
		Metal Content (Total Metal Content) :-		
		Antimony	ISO 17072-2:2011	(0.1 to 500) mg/kg
		Arsenic		
		Barium		
	Cadmium			
	Chromium			
	Cobalt			
	Copper			
	Lead			
	Nickel			
	Selenium			
	Mercury		(0.01 to 50) mg/kg	

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	Leather & Leather Products	Metal Content (Extractable Metals):		
		Antimony	ISO 17072-1:2011	(0.1 to 500) mg/kg
		Arsenic		
		Barium		
		Cadmium		
		Chromium		
		Cobalt		
		Copper		
		Lead		
		Nickel		
		Selenium		
		Mercury		(0.01 to 50) mg/kg
III.	TOYS	Migration of Certain Elements:-		
		Aluminium	EN 71 Part 3 : 2013	(0.1 to 500) mg/kg
		Antimony		
		Arsenic		
		Barium		
		Boron		
		Cadmium		
		Chromium (III)		
		Chromium (VI)		
		Cobalt		
		Copper		
		Lead		
		Manganese		
		Mercury		

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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
	TOYS	Nickel Selenium Strontium Tin Organic Tin Zinc	EN 71 Part 3 : 2013	(0.1 to 500) mg/kg
IV.	WATER			
1.	Packaged Drinking water, Packaged Natural mineral water, Drinking water, Water for Swimming Pool & Processed Food Industry	Colour	IS 3025 (Part 4) :1983 (RA 2006)	(1 to 25) Hazen
		Odour	IS 3025 (Part 5): 1983 (RA 2006)	Agreeable/ Disagreeable
		Taste	IS 3025 (Part 8): 1984 (RA 2006)	Agreeable/ Disagreeable
		Turbidity	IS 3025 (Part 10):1984 (RA 2006)	(0.5 to 40) NTU
		Total dissolved solids	IS 3025 (Part 16): 1984 (RA 2006)	(5 to 2000) mg/l
		pH	IS 3025 (Part 11):1983 (RA 2006)	1 to 14
		Barium	IS 15302:2003 (RA 2009)	(0.05 to 2.5) mg/l
		Copper	IS 3025 (Part 42):1992 (RA 2009)	(0.005 to 0.5) mg/l

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	Packaged Drinking water, Packaged Natural mineral water, Drinking water, Water for Swimming Pool & Processed Food Industry	Iron	IS 3025 (Part 53):2003 (RA 2009)	(0.005 to 0.5) mg/l
		Manganese	IS 3025 (Part 59):2006 (RA 2012)	(0.01 to 1) mg/l
		Nitrate	IS 3025 (Part 34): 1988 (RA 2009)	(0.1 to 100) mg/l
		Nitrite	IS 3025 (Part 34): 1988 (RA 2009)	(0.002 to 1) mg/l
		Fluoride	IS 3025 (Part 60):2008	(0.1 to 10) mg/l
		Zinc	IS 3025 (Part 49):1994 (RA 2009)	(0.05 to 10) mg/l
		Silver	Annex J of IS 13428:2005	(0.005 to 0.05) mg/l
		Aluminum	IS 3025 (Part 55):2003 (RA 2009)	(0.01 to 0.3) mg/l
		Chloride	IS 3025 (Part 32):1988 (RA 2009)	(5 to 1000) mg/l
		Selenium	IS 15303:2003 (RA 2009)	(0.001 to 0.02) mg/l
	Sulphate	IS 3025 (Part 24):1986 (RA 2009)	(5 to 500) mg/l	

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	Packaged Drinking water, Packaged Natural mineral water, Drinking water, Water for Swimming Pool & Processed Food Industry	Alkalinity	IS 3025 (Part 23) :1986 (RA 2009)	(5 to 1000) mg/l
		Calcium	IS 3025 (Part 40): 1991	(0.25 to 1000) mg/l
		Magnesium	IS 3025 (Part 46):1994 (RA 2009)	(0.1 to 500) mg/l
		Total Hardness	IS 3025 (Part 21):2009	(5 to 2000) mg/l
		Sodium	IS 3025 (Part 45):1993 (RA 2003)	(2 to 500) mg/l
		Residual Free Chlorine	IS 3025 (Part 26):1986 (RA 2009)	(0.1 to 50) mg/l
		Phenolic Compounds	IS 3025 (Part 43):1992 (RA 2009)	(0.001 to 1) mg/l
		Mineral Oil	IS 3025 (Part 39):1991 (RA 2009)	(0.01 to 1) mg/l
		Anionic Surface Active Agents	Annex K of IS 13428:2005 (RA 2009)	(0.1 to 0.5) mg/l
		Sulphide	IS 3025 (Part 29):1986 (RA 2009)	(0.02 to 0.25) mg/l
	Antimony	IS 15303:2003 (RA 2009)	(0.002 to 0.1) mg/l	

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	Packaged Drinking water, Packaged Natural mineral water, Drinking water, Water for Swimming Pool & Processed Food Industry	Borates	Annex H of IS 13428:2005 (RA 2009)	(0.1 to 10) mg/l
		Mercury	IS 3025 (Part 48):1994 (RA 2009)	(0.001 to 0.1) mg/l
		Cadmium	IS 3025 (Part 41):1992 (RA 2009)	(0.002 to 0.1) mg/l
		Arsenic	IS 3025 (Part 37):1988 (RA 2009)	(0.002 to 0.1) mg/l
		Cyanide	IS 3025 (Part 27):1986 (RA 2009)	(0.02 to 0.1) mg/l
		Lead	IS 3025 (Part 47):1994 (RA 2009)	(0.005 to 0.1) mg/l
		Chromium	Annex J of IS 13428:2005 (RA 2009)	(0.02 to 0.1) mg/l
		Nickel	Annex L of IS 13428:2005 (RA 2009)	(0.01 to 0.1) mg/l

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	Packaged Drinking water, Packaged Natural mineral water, Drinking water, Water for Swimming Pool & Processed Food Industry	Polychlorinated biphenyl (PCB):		
		2,4,4'-Trichlorobiphenyl	TTI/A-12 : 2012	(0.05 to 100) µg/l
		2-2'-5-5'-Tetrachloro-biphenyl	(In-house Method)	
		2-2'-4-5-5'-Pentachloro-biphenyl	Ref. USEPA 525.2 : 1995	
		2,3',4,4',5- Pentachlorobiphenyl		
		2,2',3,4,4',5'- Hexachlorobiphenyl		
		2,2',4,4',5,5'- Hexachlorobiphenyl		
		2,2',3,4,4',5,5'- Heptachlorobiphenyl		
		Polynuclear Aromatic Hydrocarbons:		
		Acenaphthene	TTI/A-11 : 2012	(0.05 to 100) µg/l
		Acenaphthylene	(In-house Method):	
		Anthracene	Ref. APHA 6440 : 22 nd edition :	
		1,2-Benzanthracene	2012	
		Benzo(b)Fluoranthene		
		Benzo(k)Fluoranthene		
		1,12-Benzoperylene		
		Benzo(a)pyrene		
		Chrysene		
		1,2:5,6-Dibenzanthracene		
		Fluoranthene		
	Fluorene			
	Indeno(1,2,3-C,D) pyrene			
	Naphthalene			
	Phenanthrene			
	Pyrene			

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	Packaged Drinking water, Packaged Natural mineral water, Drinking water, Water for Swimming Pool & Processed Food Industry	Ammonia	IS 3025 (Part 34) :1988 (RA 2009)	(0.1 to 10) mg/l
		Boron as B	Annex. F of IS 13428-2005	(0.01 to 100) mg/l
		Chloramines as Cl ₂	IS 3025 (Part 26) :1986 (RA 2009)	(1.0 to 50) mg/l
		Molybdenum as Mo	ASTM – D3372-12	(0.02 to 1) mg/l
		Trihalomethanes :		
		Bromoform	ASTM D 3871-84 (2011)	(0.02 to 1) mg/l
		Dibromochloromethane		(0.02 to 1) mg/l
		Bromodichloromethane		(0.02 to 1) mg/l
		Chloroform		(0.05 to 2) mg/l
		Pesticide Residues :-		
		P,P'-DDT	TTI/A-13 : 2012	(0.02 to 100) µg/l
		Lindane	(In-house Method):	
		Alachlor	Ref. USEPA 525.2	
		β-Endosulfan		
		Chlorpyrifos		
		Butachlor		
		Dieldrin		
		Aldrin		
		O,P'-DDT		
		α-Endosulfan		
	δ-HCH			
	O,P'-DDD			
	P,P'DDE			
	O,P'-DDE			
	α-HCH			
	β- HCH			
	Endosulfan sulfate			
	P,P'DDD			

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	Packaged Drinking water, Packaged Natural mineral water, Drinking water, Water for Swimming Pool & Processed Food Industry	Ethion	TTI/A-14:2012 (In-house Method): Ref. USEPA 8141 A	(0.02 to 100) µg/l
		Methyl parathion		
		Malathion		
		Phorate		
		Monochrotophos		
		Atrazine		
		Phorate sulphoxide		
		Phorate sulfone		
		Methyl paraoxon		
		Malaoxon		
		Isoproturon	TTI/A-15 :2012 Ref. USEPA 532	(0.05 to 100) µg/l
		2,4 -D	(In-house Method): TTI/A-16:2012 Ref. USEPA 515.1	(0.05 to 100) µg/l
V.	FOOD & AGRICULTURAL PRODUCTS			
1.	Milk & Milk Products	Moisture	DGHS Manual 1-2005 (2.1.1,4.1.1,9.1.1,11.0.2, 12.02,15.1)	(0.1 to 20) g /100 g (0.1 to 20) g /100 ml
a)	Milk, Cheese, Paneer, Khava/ Mawa, Butter, Curd, Ghee, Pedha, Burfi, Shrikhand, Milk Powder, Ice Cream, Energy Drink, Flavoured Milk, Ice Cream	Milk Protein [Nx6.38]	IS 7219:2005 AOAC 19 th edition 991.20 TTI/A/74:2014	(0.5 to 20.0) g /100 g (20 to 50) g /100 g
		Milk Fat [On Dry Basis]	DGHS Manual 1- 2005 (1.7.3)	(10.0 to 50.0) g/100 g

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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
	Mix, Weaning Food, Infant Formula, Condensed Milk, Partly Skimmed And Skimmed Milk, Processed Cereal based Food, UHT based Condensed Milk , Whey Powder and Products, Cream	Total Ash (On dry basis)	DGHS Manual 1-2005 (9.6.0)	(0.01 to 20) g /100 g
		Titratable Acidity as Lactic Acid	DGHS Manual 1-2005 (8.5, 9.3.0)	(0.1 to 10) g / 100 g
		Total Milk Solids	DGHS Manual 1-2005 (9.7.5)	(1 to 99) g /100 g
		Sucrose	IS 4079:1967 IS 1166:1986 (RA 2009) TTI/A/33:2014	(1 to 50) g/100 g
		Milk Solids not Fat (SNF)	AOAC (990.21) 19 th Edition : 2012	(5 to 95) g /100 g
		Calorific Value	TTI/A /26 : 2014	(50 to 1000) kcals/100 g
		Carbohydrate	IS 1656:2007	(5.0 to 80.0) g/100 g
		Lactose	IS 1479 (Part 2):1960 (RA 2009) TTI/A/51:2014	(5.0 to 80.0) g /100 g
		pH (in 10.0% aqueous solution)	AOAC 19 th edition 2012: 981.12 IS 1479 (Part 2) : 1961	2.0 to 10
		Phosphorous as P	AOAC 19th edition 991.25 TTI/A/34:2014	(1 to 10000) mg/kg
	Total Solids	DGHS Manual no 1-2005 [1.6, 3.0, 6.2, 8.1, 9.7]	(15 to 99) g/100 g	

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b)	Milk Powder, Dairy Whitener, Milk Cereal based Weaning Food, Skimmed Milk Powder Std. Grade, Skimmed Milk Powder Extra Grade, Partly Skimmed Milk Powder Infant Milk Substitute	Moisture	IS 11623:2008 IS 16072:2012	(0.1 to 20) g/100 g
		Total Solids	IS 11623:1986	(70 to 99) g/100 g
		Milk Fat	IS 11721:2013	(0.2 to 10) g/100 g
		Total Ash (on dry basis)	Annex B of IS 14433 (Part 1):2007 Annex A of IS 1165:2002	(1 to 10) g/100 g (0.1 to 10) g/100 g
		Titratable Acidity as Lactic Acid	IS 11766:1986 Annex B of IS 1165:2002 IS 1166:1986	(0.1 to 2) g/100 g (0.1 to 5) g /100 g
		Insolubility Index	IS 12759 : 1989 (RA 2010)	(0.1 to 2.0) ml
		Scorched Particle	IS 13500 : 1992 (RA 2008)	(7.5 to 32.5) mg 4 Step Scale
		Lactic Acid	IS 11202 : 2005	(0.01 to 20) mg/ 100 g
		Milk Solids Not Fat	IS 11766-1986	(5 to 95) g /100 g
		Acid Insoluble Ash [On Dry Basis]	IS 14433:2007	(0.01 to 3.0) g/100 g

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c)	Liquid Milk	Milk Protein [Nx6.38]	IS 7219:2005 AOAC 19 th edition 991.20 TTI/A/74:2014	(0.5 to 20.0) g /100 g
		Total Solids	IS 1479 (Part 2):1961 (RA 2009)	(5 to 50) g/100 g
		Milk Solids not Fat (SNF)	IS 1479 (Part 1):1961 (RA 2009) AOAC (990.21) 19 TH Edition : 2012	(5 to 40) g /100 g
		Neutralisers in Milk [Rosalic Acid, Alkanity of Ash]	DGHS manual no 1 –2005 [1.2.11.0]	Present / Absent
		Preservatives in Milk [Formalin in Milk, Hydrogen Peroxide, Boric Acid & Borates, Salicylic Acid]	DGHS manual no 1 –2005 [1.3]	Present/Absent
d)	Adulteration in Milk & Milk Products	Added Starch	IS 1479 (Part-1):1960 (RA 2009) DGHS manual 1-1.2.2.0 TTI/A/31:2014	Present / Absent
		Alkyl Benzene Sulphonic acid	DGHS Manual 1-2005 (1.2.14) IS:8401-1977	Present/Absent
		Added Formaldehyde	IS 1479 (Part-1):1960 (RA 2009) TTI/A/32:2014	Present / Absent

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	Adulteration in Milk & Milk Products	Total added Sugar	DGHS Manual 1-2005 (8.3)	Present / absent
		Sodium Chloride	DGHS Manual 1-1.2.7 TTI/A/53 :2014	Present / Absent
		Ammonium Sulphate	DGHS Manual 1-2005 (1.2.5)	Present / Absent
		Detection of Urea	DGHS Manual 1-2005 (2.4.1)	Present / Absent
e)	Condensed Milk	Milk Fat	IS 11762:2013	(10.0 to 50.0) g /100 g
		Accelerated Storage Test	IS 1166:1986	Pass/ Fail
		Total Milk Solids	IS 1166:1986 (RA 2013)	(15 to 90) g/100 g
f)	Ice Cream	Weight per Unit Volume	IS 2802:1964	(200 to 800) mg/l
g)	Cheese, Cheese powder, Butter	Salt as Nacl	TTI/A/52:2014	(0.1 to 10.0) g/100 g
h)	Ghee	Refractive Index at 40°C	IS 3508 (Method 6):1966 (RA 2013)	1.3 to 1.8
		Reichert- Meissl Value	IS 3508 (Method 12):1966 (RA 2013)	10 to 35
		Baudouin Test	IS 3508 (Method 21):1966 (RA 2013)	Present / Absent
		Free Fatty Acid as Oleic Acid	IS 3508 [method 2]:1966 (RA 2013)	(0.01 to 30) g /100 g

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2.	Iodized Salt including Vacuum Evaporated or Refined Iodized Salt	Moisture	Annex A of IS 7224: 2006	(0.2 to 5) g/100 g
		Water Insoluble Matter	Annex C of IS 7224: 2006	(0.5 to 5) g /100 g
		Chloride Content (as NaCl)	Annex D of IS 7224: 2006	(55 to 100) g /100 g
		Water Soluble Matter other than NaCl	Annex E of IS 7224: 2006	(0.5 to 5) g/100 g
		Calcium (as Ca)	Annex F of IS 7224: 2006	(0.05 to 1) g/100 g
		Magnesium(as Mg)	Annex F of IS 7224: 2006	(0.05 to 1) g/100g
		Sulphate (as SO ₄)	Annex G of IS 7224: 2006	(0.1 to 5) g/100g
		Iodine content	Annex H of IS 7224: 2006	(10 to 100) mg/kg
		Alkalinity (as Na ₂ CO ₃)	Annex J of IS 7224: 2006	(0.1 to 2) g/100g
		Lead (as Pb)	Annex K of IS 7224: 2006	(0.5 to 100) mg/kg
		Arsenic (as As)	Annex L of IS 7224: 2006	(0.1 to 100) mg/kg
		Iron (as Fe)	Annex M of IS 7224: 2006	(1 to 100) mg/kg
	Ferrocyanide	IS 253:1985 IS 7224:2006	Present/Absent	

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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
3.	Bakery Products			
a)	Bread, Cakes, Cookies, Nankatai, Bread Sticks, Toast	Protein	TTI/A/74:2014 IS 7219:2005	(1 to 50) g/100g
		Moisture	IS 12711:1989	(0.2 to 80) g/100 g
		Fat		(0.5 to 40) g/100 g
		Ash [on Dry Basis]		(0.1 to 5) g/100 g
		Crude fiber		(5 to 40) g/100 g
		Alcoholic Acidity as H ₂ SO ₄	TTI/A/54 : 2014	(0.05 to 5) g/100 g
		Acidity of Extracted Fat Oleic Acid	IS 12711:1989	(0.1 to 3) g/100 g
		Acid Insoluble Ash[on dry basis]		(0.01 to 1) g/100 g
b)	Biscuit	Moisture	IS 1011: 2002 (RA 2009)	(0.5 to 10) g/100 g
		Acidity of extracted fat		(0.1 to 2) g/100 g
		Acid Insoluble Ash		(0.01 to 1) g/100 g
4.	Spices & Condiments			
a)	Whole/ Powder Extraneous Matter /Inorganic Caraway, Cardamom, Chillies, Cinnamon, Cassia, Cloves,	Extraneous Matter/ Inorganic Foreign Matter	TTI/A 25 : 2014	(0.1 to 40) g/100 g
		Moisture	IS 1797 –1985 (RA 2009) DGHS Manual 10-2005 (3.0)	(0.1 to 20) g/100 g
		Total Ash [on Dry Basis]	IS 1797:1985 (RA 2009) DGHS Manual 10-2005 (4.0)	(5 to 16) g/100 g

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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
	Coriander, Cumin, Kalonji, Fennel [Saunf], Fenugreek, Dry ginger, Mace, Mustard, Nutmeg, Black & White Pepper, Saffron, Turmeric, Dehydrated Onion, Asafoetida, Whole-Poppy Seeds, Garlic, Celery, Ajwain, Star Anise, Curry Masala	Acid Insoluble Ash [on Dry Basis]	IS 1797:1985 (RA 2009) DGHS Manual 10-2005 (5.0)	(0.01 to 10) g/100 g
		Water Insoluble Ash [on Dry Basis]	IS 1797 – 1985 (RA 2009)	(0.1 to 30) g/100g
		Water Soluble Ash [on Dry Basis]	IS 1797 – 1985 (RA 2009)	(0.5 to 2.5) g/100g
		Crude Fibre	IS 1797 – 1985 (RA 2009)	(0.5 to 30) g/ 100g
		Non volatile Ether Extract	IS 1797 – 1985 (RA 2009)	(1 to 35) ml/ 100g
		Alcohol Soluble Extract	IS 1797 – 1985 (RA 2009)	(0.5 to 20) g/ 100g
		Light and Heavy Filth in Spices and Condiments	AOAC 19 th edition 975.48	Present/Absent
		Bulk Density	DGHS Manual 10-2005 (13.1)	(1.0 to 800) g/l
		Cold Water Soluble Extract	IS 1797:1985 (RA 2009)	(0.1 to 40) g/100 g
		Volatile Oil	IS 1797:1985 (RA 2009)	(0.1 to 20) ml/100 g
b)	Turmeric	Starch	IS 4706 (Part 2) : 1978 IS 3576: 2010	(40 to 60) g/100 g
		Curcumine Content	IS 10925:1984 (RA 2007)	(1 to 10) g/100 g
		Chromate Test	IS 3576 : 2010	Qualitative

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c)	Black Pepper	Mineral oil in Black Pepper	DGHS Manual 10-2005 (13.0)	Present/Absent
		Papaya Seeds in Black Pepper		(0.1 to 50) g/100 g
d)	Curry Masala	Salt as NaCl	IS 1797 – 1985 (RA 2009)	(0.05 to 20) g/100 g
5.	Cereals and Cereal Products, Pulses and pulses products			
a)	Wheat, Rice, Chana, Moong, Rajma, Wheat Flour, Maida, Besan, Barley, Oats, Peas Black, Green & White, Masoor, Corn Flakes, Ready to Eat Cereal Based Products, Rawa, Lapshi [Daliya], Urad Dal , Tur Dal, Masoor Dal, Maida, Barley Flour, Corn	Shrivelled/ Shrunken, Broken, Insect / Weevilled Damaged, Damaged & Discolored, Foreign Matter / Admixture, Other Food / Edible Grains, Rodent Hair and Excreta, Other than Foreign Matter	IS 4333:1996 (RA 2012)	(0.1 to 20) g/100g
		Granularity [Pass through Sieve]	IS 1155:1968 (RA 2010) IS 1010-1968 (RA 2010) IS 1009-1979 (RA 2010)	(0.1 to 100) g/100 g
		Moisture [on Dry Basis]	D.G.H.S Manual No.3 –(2.0,8.2)	(1 to 25) g/100 g
		Total Ash [on Dry Basis]	D.G.H.S Manual No.3 –(8.3) GAFTA 130 12:0-2014	(0.1 to 10) g/100 g

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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
	Wheat, Rice, Chana, Moong, Rajma, Wheat Flour, Maida, Besan, Barley, Oats, Peas Black, Green & White, Masoor, Corn Flakes, Ready to Eat Cereal Based Products, Rawa, Lapshi [Daliya], Urad Dal , Tur Dal, Masoor Dal, Maida, Barley Flour, Corn	Total Insoluble Ash in Dilute HCl [on Dry Basis]	D.G.H.S Manual No.3-(8.4) GAFTA 130 13:0-2003 IS 1155:1968 (RA 2010)	(0.01 to 5) g/100 g
		Alcoholic Acidity (with 90% Alcohol) expressed as H ₂ SO ₄	DGHS Manual 3-2005 (8.6) IS 1155-1968 (RA 2010)	(0.05 to 1.0) g/100 g
		Crude Protein [N x 5.7]	TTI/A/74:2014	(0.1 to 50) g/100 g
		Crude Fibre	DGHS Manual 3-2005 (8.9) GAFTA 130 12:0-2014	(1 to 25) g/100 g
		Uric Acid	IS 4333 (Part 5):1970 (RA 2010) DGHS Manual 3-2005(3.0)	(1 to 200) mg/kg
		Total Fat	DGHS Manual-3-2005 (14.4) GAFTA 130 3:0-2003	(0.1 to 25) g/100 g
		Calcium	TTI/A /39 : 2014	(0.01 to 100) mg/kg
b)	Kidney Beans	Hydrocyanic Acid	DGHS Manual 3-2005 (5.0)	(2 to 20) mg/kg
c)	Wheat, Maida, Rawa	Gluten Content	DGHS Manual 3-2005 (8.5) IS 1155:1968 (RA 2010)	(5 to 20) g/100 g

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6.	Fresh & processed Fruit & vegetable Products			
a)	Fruit Juice [Concentrate & Ready to Serve], Fruit Pulp, Puree, Chutney/ Culinary Paste, Sauces, Ketchups, Ready to eat Vegetables, Canned Fruit & Vegetables, Dehydrated, Instant drink powder, Jam, Jellies, Pickles, Vegetable Soup Powders, Murabba, Tooty Fruity, Thermally Processed Fruits & Vegetables, Curried Vegetables, Squashes, Crushes, Sharbat, Syrups, Marmalades	Extraneous Matter	TTI/A /25 : 2014	Present /Absent
		Brix	TTI/A /56 : 2014	0.5 to 80
		Total Solids	AOAC 19 th edition 2012:920.151 DGHS Manual 5-2005 (2.1)	(1.0 to 80) g/100 g
		Total Soluble Solids	DGHS Manual 5-2005 (1.6) IS 13815-1993	(5 to 85) g/100 g
		Acidity expressed as Citric Acid / Total Acidity	IS 2860:1964 (RA 2008) DGHS Manual 5-2005(2.4)	(0.01 to 5) g/100 g
		Acidity expressed as Acetic Acid	IS 2860:1964 (RA 2008) DGHS Manual 5-2005 (2.4)	(0.1 to 5) g/100 g
		Added Sugars as Sucrose Reducing Sugar	TTI/A/33:2014	(0.5 to 80) g/100 g
		Added Starch	AOAC 925.38 19 th edition : 2012	Present/Absent
		Specific Gravity at 25°C	IS 2860:1964 (RA 2008)	0.5 to 2
		Vitamin C as Ascorbic Acid	AOAC 967.21- 19 th edition 2012 DGHS Manual 5-2005 (2.8)	(0.0005 to 0.5) g/100 g
		pH at 25 °C	IS 2860:1964 (RA 2008) DGHS Manual 5-2005 (2.3,11.2)	1.0 to 14.0

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b)	Thermally Processed Container	Fill of the Container at 20°C	DGHS Manual 5-2005 (1.3)	(80 to 100) g/100 g
		Drained Weight / Drain Mass of Can	IS 2860:1964 (RA 2008) DGHS Manual 5-2005 (1.4,1.7)	(30 to 80) g/100 g
		Sodium Chloride (Brine)		(0.25 to 20) g/100 g
c)	Dehydrated Fruits and Vegetables	Peroxidase	DGHS Manual 5-2005 (17.5)	Present / Absent
7.	Nut & Nut Products			
a)	Groundnut, Cashew, Walnut, Hazelnut, Pista, Almonds, Chikkies	Extraneous Matter (Damaged Kernel, Damaged Raisins, Sugared Raisins)	TTI/A 25 : 2014	(0 to 100) g/100 g
		Moisture	AOAC 19th edition 2012: 925.40	(1 to 25) g/100 g
		Fat	AOAC 19 th edition 2012: 948.22	(1 to 75) g/100 g
		Protein [NX6.25]	IS 7219: 2005 TTI/A/74: 2014	(0.1 to 25) g/100 g
		Total Ash [on Dry Basis]	AOAC 19 th edition 2012- 950.49	(0.1 to 10) g/100 g
		Ash Insoluble in dil. HCl [on Dry Basis]	TTI/A/65: 2014	(0.02 to 2) g/100 g
		Crude Fiber	IS 10226 [Part 1]:1982	(0.1 to 30) g/100 g
Salt as NaCl	AOAC 19 th edition 2012: 950.52	(0.1 to 25) g/100 g		

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b)	Nuts	Acidity expressed as Oleic Acid of Extracted Fat	TTI/A/62:2014	(0.1 to 5) g/100 g
8.	Sugar Confectionary Products	Ash Sulphated	IS 6287:1985 (RA 2010)	(0.1 to 10) g/100 g
		Total Ash	TTI/A/46:2014	(0.1 to 10) g/100 g
		Ash Insoluble in HCl	IS 6287:1985 (RA 2010)	(0.01 to 5) g/100 g
		Sucrose Content	TTI/A/33:2014	(1 to 99.0) g/100 g
		Moisture (Loss on Drying)	IS 6287:1985 (RA 2010)	(0.2 to 50.0) g/100 g
	Chewing Gum	Gum [base Content]	IS 6747:1981 (RA 2010)	(12.5 to 14.0) g/100 g
9.	Honey	Specific gravity at 27 °C, Min.	IS 4941:1994, Annex-A (RA 2008)	1.1 to 1.5
		Moisture [on Dry Basis]	IS 4941:1994 Annex-B (RA 2008)	(5.0 to 30) g/100 g
		Total Reducing Sugar	IS 4941:1994, Annex-C (RA 2008)	(40 to 80) g/100 g
		Sucrose	IS 4941:1994, Annex-C (RA 2008)	(0.5 to 10) g/100 g
		Fructose-Glucose Ratio	IS 4941:1994 Annex-C (RA 2008)	0.9 to 1.47

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	Honey	Ash	IS 4941:1994 Annex-D (RA 2008)	(0.01 to 1.5) g/100 g
		Acidity (expressed as Formic Acid)	IS 4941:1994,Annex-E (RA 2008)	(0.05 to 0.5) g/100 g
		Fiche's Test	IS 4941:1994 Annex-F (RA 2008)	Positive / Negative
		Hydroxymethyl Furfural (HMF)	IS 4941:1994, Annex-F (RA 2008)	(0.1 to 100) mg/kg
		Optical Density,at 660 nm	IS 4941:1994, Annex-H (RA 2008)	0.05 to 0.5
10.	Animal Feeds & Feeding Stuff- Fish Meal and all other type of Animal Products	Moisture [on Dry Basis]	IS 7874 (Part 1):1975 (RA 2009)	(1 to 25) g/100 g
		Total Ash [on Dry Basis]		(0.1 to 25) g/100g
		Acid Insoluble Ash [on Dry Basis]		(0.1 to 21) g/100g
		Crude Fat		(1 to 15) g/100g
		Crude Protein [N X6.25]	TTI/A/74:2014	(1 to 80) g/100 g
		pH	AOAC 19 th edition, 2012 :981.12	5 to 9
		Crude Fibre	IS 7874 (Part 2):1975 (RA 2009)	(1 to 25) g/100 g
		Salt as NaCl		(0.1 to 15) g/100 g
		Phosphorous as P	IS 14828:2000 GAFTA 130 09:0-2003	(0 to 10) g/100 g

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11.	Alcoholic Drinks (Beer, Wine, Whisky, Vodka, Rum, Gin, Champagne, Taquila)	Ethyl Alcohol Content	TTI/A/73: 2014	(1.0 to 80) ml/100 ml
		Residue on Evaporation	IS 3752: 2005 (RA 2009)	(0.1 to 5) g/100 ml
		Total Ash		(0.1 to 1) g/100 ml
		Total Acidity as Tartaric Acid		(0.1 to 200) g/100 l
		Volatile Acidity as Acetic Acid		(0.1 to 200) g/100 l
		Methyl Alcohol		(1 to 50) g/100 l
12.	Carbonated Beverages	Sugar as Sucrose	TTI/A/ 33:2014	(0.5 to 50) g/100 g
		pH at 25°C	TTI/A/ 69:2014	1 to14
		Caffeine	TTI/A/ 68:2014	(5 to 200) mg/100 ml
13.	Oils & Fats (Edible Oil and Fats, Margarine, Fat Spread, Coconut Oil, Sesame Seed Oil , Olive Oil, Palm Oil, Cotton Seed, Maize Oil, Almond Oil, Palm Kernel Oil, Safflower Oil, Rice Bran Oil, Ground Nut Oil , Sunflower Oil Mustard Soyabean Oil, Palmolein Oil	Test of Presence of Rancidity	DGHS Manual 2-2005(37.0)	Present / Absent
		Test for Adulterant: Presence of Karanja Oil	IS 548 Part -2-1976-Method 9 (RA 2012) DGHS Manual-2 -2005 (31.0)	Present/Absent
		Presence of Argemone	IS 548 Part -2-Method 10-1976 (RA 2012) DGHS Manual 2-2005 (30.0)	Present/Absent [upto 0.1%]
		Presence of Hydrocyanic acid	IS 548 Part -2-1976 -Method11 (RA 2012) DGHS Manual 2-2005 (32.0)	Present/Absent

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	Oils & Fats (Edible Oil and Fats, Margarine, Fat Spread, Coconut Oil, Sesame Seed Oil , Olive Oil, Palm Oil, Cotton Seed, Maize Oil, Almond Oil, Palm Kernel Oil, Safflower Oil, Rice Bran Oil, Ground Nut Oil , Sunflower Oil Mustard Soyabean Oil, Palmolein Oil	Presence of Mineral Oil	IS 548 Part -2-1976-Method 12 DGHS Manual 2 -2005(28.0)	Present/Absent
		Presence of Groundnut oil	IS 548 Part -2-1976 (RA 2012)	Present/Absent
		Presence of Kusum Oil	IS 548 Part -2-1976-Method 14 (RA 2012)	Present/Absent
		Presence of Castor oil	IS 548 Part 2-1976-Method 15 (RA 2012) DGHS Manual-2-2005(29.0)	Present/Absent
		Presence of Neem Oil	IS 548 Part -2-1976-Method 16 (RA 2012)	Present/Absent
		Presence of Animal Fat in Vegetable	IS 548 Part -2-1976-Method 18 (RA 2012) DGHS Manual-2-2005(21.0)	Present/Absent
		Colour on Lovibond scale	Method 13 of IS : 548 (Part 1), 1964 (RA 2010)	0.1 to 40
		Moisture & Volatile Matter	IS: 548 (Part 1)1964 (RA 2010)	(0.01 to 10) g/100 g
		Refractive Index at 40° C		1.40 to 1.7
		Free Fatty Acids		0.01 to 30
	Acid Value		0.01 to 30	
	Iodine Value		2 to 250	
	Peroxide Value		(0.2 to 20) meq of oxygen /kg	
	Saponification Value		(150 to 260) mg KOH /g	
	Unsaponifiable Matter		(0.3 to 1.0) g/100 g	
	Specific Gravity at 30° C		0.5 to 2.0	

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		Cloud Point Flash Point	DGHS Manual 2-2005 (6.0, 17.0)	(5 to 30) °C (120 to 500) °C
		Hexane	TTI/A/50:2014	(1 to 100) mg/kg
		B.R Reading at 40° C	IS 548 (Part 1):1964 (RA 2010)	(0 to 100) °C
		Bellier Test	IS 548 (Part 2): 1964 (RA 2010)	(10 to 50) °C
		Phosphorus as P	TTI/A/34 :2014	(10 to 400) mg/kg
	Olive Oil	Test for teaseed oil in olive oil	DGHS Manual 2-2005 (24.0)	Present/Absent
		Presence of Olive Pomace Oil in Olive Oil	DGHS Manual 2-2005 (25.0)	Present/Absent
		Presence of Semisiccative Oil in Olive Oil	DGHS Manual 2-2005 (26.0)	Present/Absent
	Soyabean Oil	Insoluble Bromide Test	Annex-D of IS 4276:1977	Qualitative
	Rice Bran Oil	Oryzanol	Annex C of IS 3448:1984	0.5 to 2
	Mustard Oil	Polybromide Test	Annex C of IS 546: 1975 (RA 2009)	Qualitative
		Natural Essential Oil, percent by mass (as Allyl Isothcyanate)	Method 17 of IS 548 (Part 1) : 1964 (RA 2010)	(0.1 to 1) ml/100 g

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14.	Oil seeds [Oilseed & Oilseed By product]	Damaged & Weevilled seeds / Kernels, Slightly Damaged Seeds / Kernels, Shrivelled & Immature and Dark Seeds / Kernels, Split or Cracked Seeds / Split & Broken Kernels, Impurities)	IS 3579:1966 (RA 2010)	(0 to 40) g/100 g
		Moisture Content [on Dry Basis] Oil Content Acid Value of Free Fatty Acid of Extracted Fat	IS 3579:1966 (RA 2010)	(0 to 15) g/100 g (10 to 65) g/100 g (0.1 to 20) mg of KOH/g
		Ash [on Dry Basis]	GAFTA 130 12:0-2014	(0.5 to 40) g/100 g
		Acid Insoluble Ash	GAFTA 130 13:0-2003	(0.05 to 10) g/100 g
15.	Tea & Tea Products & Coffee, Chicory, Cocoa & its products	Moisture	TTI/A/36:2014	(1 to 20) g/100 g
		Total Ash (on Dry Basis)	TTI/A/46:2014	(0.2 to 10) g/100 g
		Crude fiber	IS 10226:1982 (Part-1) DGHS Manual 4-2005 (5.8)	(10 to 30) g/100 g
		Acid Insoluble Ash (on Dry Basis)	TTI/A/38:2014	(0.1 to 5) g/100 g
Tea		Water Soluble Ash (on Dry Basis)	IS 13855-1994	(30 to 80) g/100 g

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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
	Tea	Alkalinity of Water Soluble Ash (on Dry Basis as K ₂ O ₂)	IS 13856-1993 (RA 2009)	(1 to 10) g/100 g
		Water Extract (on Dry Basis)	IS 13862-1999 (RA 2009)	(20 to 80) g/100 g
		Iron Particles	IS 3633-2003 (RA 2008)	Present/Absent
	Coffee & Chicory	Solubility in Cold Water	IS 2791-1992 (RA 2009)	Present/Absent
		Solubility in Boiling Water	IS 2791-1992 (RA 2009)	Present/Absent
		Extraneous Matter & Impurities / Foreign Matter	IS 3077-1992 (RA 2011)	Present/Absent
		Water Soluble Matter	IS 3077-1992 Annex K (RA 2011)	(30.0 to 50.0) g/100 g
		Petroleum Ether Extract	IS 3077-1992 (RA 2011)	(2 to 20) g/100 g
		Caffeine Content	DGHS Manual No.4, 2005 (1.8,2.7,3.3)	(0.1 to 10) g/100 g
16.	Snacks/ Savouries, Namkeens, Chips	Moisture	IS 15271:2003	(0.1 to 20) g/100 g
		Ash	TTI/A/46:2014 IS 15271: 2003	(0.1 to 20) g/100 g
		Acid Insoluble Ash	IS 15271:2003	(0.01 to 5) g/100 g
		Fat	IS 15271:2003	(0.1 to 50) g/100 g

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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
	Snacks/ Savouries, Namkeens, Chips	Peroxide Value	IS 15271:2003	(0.1 to 50) meq/ kg oxygen
		Acidity / Acidity of Extracted Fat of Oleic Acid	IS 15271:2003	(0.01 to 50) g/100 g
		Salt	IS 15271: 2003 TTI/A/49:2014	(1 to 5) g/100 g
17.	Instant Mix	Moisture [on Dry Basis]	IS:2234 -1989, Annex C (RA 2010)	(0.1 to 80) g/100 g
		Ash [on Dry Basis]	IS:2234 -1989, Annex D (RA 2010)	(0.1 to 20) g/100g
		Acid Insoluble Ash [on Dry Basis]	IS:2234 -1989, Annex E (RA 2010)	(0.01 to 5) g/100g
		Total Protein [N X6.25]	IS:2234 -1989, Annex F TTI/A/74:2014	(1.0 to 20) g/100 g
		Carbohydrate	IS:1656 -2007	(50 to 90) g/100 g
		Crude Fibre	IS:2234 -1989, Annex G (RA 2010)	(0.5 to 30) g/100 g
	Instant Mix Products	Leavening Index	IS:2234 -1989, Annex H (RA 2010)	(0.5 to 5) g/100 g

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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
18.	Starch and Starch Products	Moisture [on Dry Basis]	IS 4706 (Part 2):1978 (RA 2010)	(0.1 to 20) g/100 g
		Ash [on Dry Basis]	IS 4706 (Part 2):1978 (RA 2010)	(0.1 to 10) g/100 g
		Acid Insoluble Ash [on Dry Basis]	IS 4706 (Part 2):1978 (RA 2010)	(0.01 to 2) g/100 g
		pH of Aqueous Extract	IS 4706 (Part 2):1978 (RA 2010)	1.0 to 14.0
		Alcoholic Acidity	IS 4706 (Part 2):1978 (RA 2010)	(0.01 to 5) g/100 g
		Starch Content	IS 4706 (Part 2):1978 (RA 2010)	(30 to 95) g/100 g
19.	Fish and Fishery Product	Total Volatile Nitrogen	AOAC 19 th edition 999.01 DGHS Manual 6-2005 (1.2)	(15 to 400) mg N/ 100 g
		Histamine	DGHS Manual 6-2005 (1.3)	Present/Absent [upto 50 ppb]
20.	Flavours [Liquid & Powdered] Natural Flavours Natural Identical Flavours Synthetic Flavours	Total Soluble Solids Refractive Index at 40°C	IS 13815 – 1993 DGHS Manual 5-2005 TTI/A/56:2014	(0 to 80) g/100 g 1.3 to 1.7
		Specific Gravity at 20 °C	DGHS Manual 5-2005 TTI/A/70:2014	0.5 to 2

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21.	Milk & Milk a) Products	Aflatoxin M1	AOAC 19 th edition 2000.08 AOAC 19 th edition 980.21 TTI/A/40:2014	(0.05 to 1000) µg/kg
	b) Food & Agri products [Oil & Oilseeds, Spices, Nuts, Cereal & Pulses]	Total Aflatoxin Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2	AOAC 19 th edition 991.31 TTI/A/41:2014	(0.3 to 1000) µg/kg
22.	Metal contaminants (Milk Products, Pulses & Cereal Products, Bakery & Confectionery, Spices, Fruit & Vegetable Products, Starch & Starchy Products, Oil, Snacks, Meat & Meat Products, Fruit Juices & Concentrates, Food Ingredients, Essential Oils, Edible Oil, Infant Food, Food Supplement)	Lead Cadmium Arsenic Mercury Tin	TTI/A/39:2014 IS 1699:1995 IS 12074:1987 AOAC 19 th edition 999.11	(0.1 to 1000) mg/kg (0.02 to 500) mg/kg (0.03 to 10.0) mg/kg (0.1 to 2.0) mg/kg (1 to 500) mg/kg

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23.	Pesticide Residues (Fruits & Vegetable)	Alpha BHC Beta BHC Gamma BHC S BHC Aldrin Dieldrin OP-DDE, PP-DDE, OP-DDD, PP-DDD, OP-DDT, PP-DDT	AOAC 19 th edition 2007.01 TTI/A/44:2014	(0.02 to 5) mg/kg
a)		Phenthoate Phorate, Phorate Sulfone, Phorate Sulfoxide Triazophos Metolachlor Oxyfluorfen Metribucin Pendimethaline Nutrition Labeling	AOAC 19 th edition 2007.01 TTI/A/45:2014	(0.005 to 2) mg/kg (0.02 to 5) mg/kg (0.01 to 2) mg/kg (0.01 to 2) mg/kg (0.01 to 2) mg/kg (0.02 to 2) mg/kg (0.01 to 2) mg/kg
b)	Pesticides in Edible Oil			
24.	Packaged Food Products	Nutrition Labeling : Moisture	DGHS Manual No. 3, 5, & 10 – 2005 TTI/A/42:2014	(0.1 to 10) g/100 g
		Ash	AOAC 19 th edition 900.02 TTI/A/46:2014	(0.1 to 10) g/100 g
		Total fat	IS 12711:1989 TTI/A/47:2014	(0.1 to 5) g/100 g

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	Packaged Food Products	Fatty acid profile: MUFA PUFA Saturated fat Trans FAT	IS 548 (Part 3) : 1976 AOAC 996.06, 19 th edition TTI/A/37:2014	(0.05 to 100) g/100 g
		Protein [N X6.25]	AOAC 19th edition 2012: 984.13 IS 7219 :1973 TTI/A/74:2014	(1.0 to 50) g/100 g
		Carbohydrate	IS 1656:2007	(50 to 90) g/100 g
		Calorific Value	TTI/A /26 : 2014	(100 to 800) Kcal/100 g
		Salt as NaCl	IS 1797:1985 TTI/A/49:2014	(0.5 to 2) g/100 g
		Cholesterol	AOAC 19th edition 2012: 994.10 TTI/A/35:2014	(0 to 0.1) g/100 g
		Crude Fibre	IS 10226:1982 (Part-1)	(10 to 30) g/100 g
		Calcium as Ca	AOAC 19th edition 2012: 991.25 TTI/A/39:2014	(0.05 to 20) mg/100 g
		Total Phosphorous	AOAC 19th edition 2012: 991.25 TTI/A/34:2014	(0.01 to 5) g/100 g
		Iron as Fe	AOAC 19th edition 2012: 999.11 TTI/A/39:2014	(0.01 to 10) mg/100 g

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	Packaged Food Products	Sodium as Na Potassium as K	AOAC 19th edition 2012: 990.23 TTI/A/39:2014	(0.05 to 10) g/100 g (0.05 to 10) g/100 g
		Magnesium as Mg	AOAC 19th edition 2012: 968.08 TTI/A/39:2014	(0.05 to 10) g/100 g
		Copper as Cu	AOAC 19th edition 2012: 996.17 TTI/A/39:2014	(0.1 to 10) g/100 g
		Zinc as Zn	IS 1699:1995	(0.05 to 10) mg/100 g
		Vitamin C as Ascorbic acid	AOAC 19th edition 2012: 985.33 AOAC 19th edition 2012: 967.21 DGHS Manual No. 5 - 2005 TTI/A/71:2014	(0.005 to 10) g/100 g
25.	Food Additives, Preservatives (In Process Foods)	Benzoic Acid	DGHS Manual 8 – 2005 TTI/A/60:2014	(50 to 2000) mg/kg
		Sorbic Acid	DGHS Manual 8 – 2005 TTI/A/61:2014	(50 to 2000) mg/kg
		Sulphur dioxide	DGHS Manual 8 -2005 TTI/A/58:2014	(0 to 1000) mg/kg
		Citric Acid	DGHS Manual 5 -2005 TTI/A/63:2014	(0.1 to 5) g/100 g

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	Food Additives, Preservatives (In Process Foods)	Tartaric Acid	DGHS Manual 5 -2005 TTI/A/63:2014	(0.1 to 5) g/100 g
		Mallic Acid	DGHS Manual 5 -2005 TTI/A/63:2014	(0.1 to 5) g/100 g
		Ascorbic acid	AOAC 19 th edition 2012: 985.33 AOAC 19 th edition 2012: 967.21 DGHS Manual No. 5 - 2005 TTI/A/71:2014	(0.005 to 0.5) g/100 g
		Identification of Natural food Colours (Cochineal, Turmeric, Annatto, Chlorophyll, Betanin)	DGHS Manual 8 – 2005 TTI/A/64:2014	Qualitative
		Determination of Synthetic Food Colours Carmosine Ponceau 4R, Erythrosine, Green FCF, Indigo Caramine, Brilliant Blue FCF, Tartrazine, Sunset Yellow FCF	DGHS Manual 8 – 2005 TTI/A/59:2014	(5 to 250) mg/kg

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26.	Food Antioxidant (In Process Foods)	BHA BHT TBHQ	DGHS Manual 8 – 2005 AOAC19 th edition 2012: 983.15	(10 to 100) mg/kg (10 to 100) mg/kg (10 to 100) mg/kg

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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**.