

**Laboratory** Auriga Research Limited, #136, 6<sup>th</sup> Cross, 2<sup>nd</sup> Stage, Yeshwanthpur Industrial Suburb, Bangalore, Karnataka

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

**Discipline** Chemical Testing **Issue Date** 31.03.2015

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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
<b>I. COSMETICS &amp; ESSENTIAL OILS</b>				
1.	Tooth Paste/ Tooth Powder/ Skin Powder	Stability	IS 6356: 2001 (RA 2006)	Qualitative
		Hard and sharp edged particle	IS 6356: 2001 (RA 2006) IS 5383: 2006	Qualitative
		Spreadability	IS 6356: 2001 (RA 2006)	0.01 cm to 8.0 cm
		Fineness/ Sieve analysis	IS 6356: 2001 (RA 2006) IS 5383: 2006 IS 5339: 2004 (RA 2009) IS 3959: 2004 (RA 2009)	0.25 % w/w to 10 % w/w
		pH of aqueous solution	IS 6356: 2001 (RA 2006) IS 5383: 2006 IS 5339: 2004 (RA 2009) IS 3959: 2004 (RA 2009)	1 to 14
		Heavy metals (Lead)	IS 6356: 2001 (RA 2006) IS 5383: 2006 IS 5339: 2004 (RA 2009) IS 3959: 2004 (RA 2009)	Qualitative
		Arsenic	IS 6356: 2001 (RA 2006) IS 5383: 2006 IS 5339: 2004 (RA 2009) IS 3959: 2004 (RA 2009)	Qualitative
		Moisture & volatiles	IS 5383: 2006 IS 5339: 2004 (RA 2009) IS 3959: 2004 (RA 2009)	1.0 % w/w to 25.0 % w/w
		Matter insoluble in boiling water	IS 5339: 2004 (RA 2009)	50.0 % w/w to 99.0 % w/w

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2.	Shaving Cream	Consistency	IS 9740: 1981 (RA 2006)	Qualitative
		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)	10 % w/w to 50.0 % w/w
		Water content	IS 9740: 1981 (RA 2006)	10 % w/w to 60.0 % w/w
		Foaming power	IS 9740: 1981 (RA 2006)	10.0 mL to 250.0 mL
		Free caustic alkalinity	IS 9740: 1981 (RA 2006)	Qualitative
3.	Lipstick	Softening point	IS 9875: 1990 (RA 2011)	45 °C to 75 °C
		Particle size	IS 9875: 1990 (RA 2011)	Qualitative
		Heavy metals (Lead)	IS 9875: 1990 (RA 2011)	Qualitative
		Arsenic	IS 9875: 1990 (RA 2011)	Qualitative
4.	Hair Dyes- Powder	pH of 5% solution	IS 10350: 1999 (RA 2009)	1.0 to 14.0
		Active matter as PPD	IS 10350: 1999 (RA 2009)	1.0 % w/w to 10.0 % w/w
5.	Skin cream	Thermal stability	IS 6608: 2004 (RA 2009)	Qualitative
		pH	IS 6608: 2004 (RA 2009)	1.0 to 14.0
		Total fatty substances	IS 6608: 2004 (RA 2009)	10.0 % w/w to 50.0 % w/w
		Total Residue	IS 6608: 2004 (RA 2009)	5 % w/w to 30.0 % w/w

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	<b>Skin cream</b>	Heavy metals (Lead)	IS 6608: 2004 (RA 2009)	Qualitative
		Arsenic	IS 6608: 2004 (RA 2009)	Qualitative
<b>6.</b>	<b>Shampoo</b>	Physical characteristics	IS 7884: 2004 (RA 2009)	Qualitative
		Non-volatile alcohol soluble matter	IS 7884: 2004 (RA 2009)	10.0 % w/w to 50 % w/w
		pH	IS 7884: 2004 (RA 2009)	1.0 to 14.0
<b>7.</b>	<b>Hair oil</b>	Acid value	IS 7123: 1993 (RA 2009)	1 to 15
<b>II. SOAP DETERGENTS AND TOILETERIES</b>				
<b>1.</b>	<b>Shaving soap/ Laundry Soaps/ Toilet Soap/ Liquid Toilet Soap/ Antibacterial toilet soap (Solid cake &amp; liquid)/ Bathing Bar</b>	Moistures & volatiles	IS 5784: 2001 (RA 2006)	1.0 % w/w to 50.0 % w/w
		Matter insoluble in alcohols	IS 5784: 2001 (RA 2006) IS 285: 1992 (RA 2011) IS 286: 1978 (RA 2008) IS 2888: 2004 (RA 2011) IS 11479 (Part 1 & 2): 2001 (RA 2005)	0.1 % w/w to 50 % w/w
		Free caustic alkali as Sodium Hydroxide, K <sub>2</sub> O	IS 5784: 2001(RA 2006) IS 285: 1992 (RA 2011) IS 286: 1978 (RA 2008) IS 2888: 2004 ((RA 2011) IS 11479 (Part 1 & 2): 2001 (RA 2005) IS 4199: 2001 (RA 2006)	0.005 % w/w to 0.01 % w/w
		Chlorides	IS 5784: 2001 (RA 2006) IS 285: 1992 (RA 2011) IS 2888: 2004 (RA 2011)	0.1 % w/w to 5.0 % w/w

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	<b>Shaving soap/ Laundry Soaps/ Toilet Soap/ Liquid Toilet Soap/ Antibacterial toilet soap (Solid cake &amp; liquid)/ Bathing Bar</b>	Total fatty matter	IS 5784: 2001 (RA 2006) IS 285: 1992 (RA 2011) IS 2888: 2004 (RA 2011) IS 286: 1978 (RA 2008) IS 11479 (Part 1 & 2): 2001 (RA 2005) IS 4199: 2001 (RA 2009) IS 13498: 1997 (RA 2011)	30 % w/w to 90.0 % w/w
		Rosin acids	IS 5784: 2001 (RA 2006) IS 285: 1992 (RA 2011) IS 2888: 2004 (RA 2011) IS 11479 (Part 1): 2001 (RA 2013)	0.1 % w/w to 3 % w/w
		Synthetic detergents	IS 4955: 2001 (RA 2005) IS 11479 (Part 2): 2001 (RA 2005)	0.1 % w/w to 20.0 % w/w
		Active ingredient	IS 286: 1978 (RA 2008)	10 % w/w to 50 % w/w
		Foaming power	IS 9740: 1981 (RA 2001) IS 286: 1978 (RA 2008)	100 mL to 200 mL
		Free From Grittiness	IS 286: 1978 (RA 2008) IS 13498: 1997 (RA 2011)	Qualitative
		Free from Cracking	IS 286: 1978 (RA 2008) IS 13498: 1997 (RA 2011)	0.5 mm to 10 mm
		Cleaning efficiency	IS 286: 1978 (RA 2008) IS 13498: 1997 (RA 2011)	Qualitative

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<b>III. DRUG AND PHARMACEUTICALS</b>				
<b>1.</b>	<b>Drug intermediates and raw materials (General Tests)</b>	Description	IP -2014	Qualitative
		Specific Optical Rotation	IP -2014, Vol I, Appendix 2.4.22, Page No. 167	-360° to 360°
		Loss on Drying	IP -2014, Vol I, Appendix 2.4.19, Page No. 162	0.05 % w/w to 10.0 % w/w
		Water by K.F.	IP -2014, Vol I, Appendix 2.3.43, Page No. 113	1.0 % w/w to 20 % w/w
		pH	IP -2014, Vol I, Appendix 2.4.24, Page No. 169	1 to 14
<b>2.</b>	<b>Pharmaceutical formulation (Finished Products) (General Tests)</b>	Average Weight/ Average Filled Weight	IP -2014, Vol I, Appendix 2.5.3, Page No. 256	Qualitative
		pH	IP -2014, Vol I, Appendix 2.4.24, Page No. 169	1 to 14
		Specific Optical Rotation	IP -2014, Vol I, Appendix 2.4.22, Page No. 167	-360° to 360°
		Water by K.F.	IP -2014, Vol I, Appendix 2.3.43, Page No. 113	1.0 % w/w to 20 % w/w
		Weight per mL	IP -2014, Vol I, Appendix 2.4.29, Page No. 208	0.5 g/mL to 5.0 g/mL
		Uniformity of weight	IP -2014, Vol I, Appendix 2.5.3, Page No. 256	± 20% of average weight
		Disintegration Test	IP -2014, Vol I, Appendix 2.5.1, Page No. 251	1minute to 180 minutes

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<b>3.</b>	<b>Specific Drug</b>			
	<b>Paracetamol Tablets IP</b>	Disintegration test	IP-2014, Vol II, Page No.1006	1 minute to 25 minutes
	<b>Amoxicillin Capsules IP</b>	Uniformity of weight/fill	IP-2014, Vol II, Page No.1055	± 20% of average fill
	<b>Paracetamol Syrup IP</b>	Weight per mL	IP -2014, Vol I, Appendix 2.4.29, Method A, Page No. 208	0.5 g/mL to 5 g/mL
	<b>Paracetamol Tablets IP</b>	Dissolution test	IP -2014, Vol III, Page No. 2434	(50 % to 120 %) of 80 %
	<b>Paracetamol Syrup IP</b>	Related Substances	IP-2014, Vol III, Page No. 2434	Qualitative
<b>4.</b>	<b>Natural Drugs (Medicinal Plant Preparations)</b>			
	<b>Ayush and Homeopathic Product (Raw &amp; Finished) (General Tests)</b>	Water soluble extractives	API (Part-I), Volume-IV, 2004, Appendix: 2.2.7	1% w/w to 40 % w/w
		Loss on drying	API (Part-I), Volume-IV, 2004, Appendix: 2.2.9	1 % w/w to 20 % w/w
		Ash	API (Part-I), Volume-IV, 2004 Appendix: 2.2.3	0.1 % w/w to 10 % w/w
		Foreign Matter	API (Part-I), Volume-IV,2004 Appendix: 2.2.2	0.1 % w/w to 2 % w/w
		Acid insoluble ash	API (Part-I), Volume-IV, 2004, Appendix: 2.2.4	0.1 % w/w to 30 % w/w
		Alcohol soluble extractives	API (Part-I), Volume-IV, 2004, Appendix: 2.2.6	25 % w/w to 75 % w/w
		Fixed Oil Content/ Ether soluble	API (Part-I), Volume-IV, 2004	0.1 % w/w to 20 % w/w

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	<b>Ayush and Homeopathic Product (Raw &amp; Finished) (General Tests)</b>	extract	Appendix: 2.2.8	
		Volatile oil	API (Part-I), Volume-IV, 2004, Appendix: 2.2.10	0.5 % w/w to 10 % w/w
		Water Soluble ash	API (Part-I), Volume-IV, 2004, Appendix: 2.2.5	0.05 % w/w to 10 % w/w
		Arsenic	USP 2014, Chapter 2232, Page No. 1345 USP 2014, Chapter 233, Page No. 264 to 267	≥ 0.05 mg/kg
		Lead	USP 2014, Chapter 2232, Page No. 1345 USP 2014, Chapter 233, Page No. 264 to 267	≥ 0.05 mg/kg
		Cadmium	USP 2014, Chapter 2232, Page No. 1345 USP 2014, Chapter 233, Page No. 264 to 267	≥ 0.05 mg/kg
		Mercury	USP 2014, Chapter 2232, Page No. 1345 USP 2014, Chapter 233, Page No. 264 to 267	≥ 0.05 mg/kg
		Chromium	USP 2014, Chapter 2232, Page No. 1345 USP 2014, Chapter 233, Page No. 264 to 267	≥ 0.05 mg/kg

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<b>IV FOODS AND AGRICULTURAL PRODUCTS</b>				
<b>1. Nutritional Value And General Tests in Food</b>				
	<b>Biscuit, Atta, Milk, Milk powder, vanaspati &amp; ghee</b>	Carbohydrate	IS 1656: 1997 (RA 2012)	0.5 to 80 g/100g
		Protein	IS 4684: 1975 (RA 2010)	0.5 to 80 g/100g
		Fat	IS 4684: 1975 (RA 2010)	0.1 to 100 g/100g
		Free Fatty Acid	IS 548 (Part 1): 1964 (RA 2010)	0.01 to 25 g/100g
		<b>Fatty Acid Profile</b>		
		Saturated fat	AOAC 996.06, 19 <sup>th</sup> Edition: 2012	0.1 to 100 g/100g
		Monounsaturated fat	AOAC 996.06, 19 <sup>th</sup> Edition: 2012	0.1 to 100 g/100g
		Polyunsaturated fat	AOAC 996.06, 19 <sup>th</sup> Edition: 2012	0.1 to 100 g/100g
		Trans fat	AOAC 996.06, 19 <sup>th</sup> Edition: 2012 AOAC 969.33, 19 <sup>th</sup> Edition: 2012	0.1 to 25 g/100g
		Crude Fiber/Total Fiber	IS 12711: 1989 (RA 2010)	1 to 40 g/100g
		Dietary Fiber	AOAC 991.43, 19 <sup>th</sup> Edition: 2012	0.5 to 80 g/100g
		Determination of Sugars	IS 4079: 1967 (RA 2011)	0.1 to 50 g/100g
		Energy or Calories	IS 14433: 2007 (RA 2013)	Qualitative
		pH	AOAC 945.27, 19 <sup>th</sup> Edition: 2012	1 to 14
		Moisture/ LOD	IS 12711: 1989 (RA 2010)	0.5 to 50 g/100g
		Ash Content/ Total Ash	IS 1011: 2002 (RA 2009)	0.001 to 5 g/100g



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	<b>Biscuit, Atta, Milk, Milk powder, vanaspati &amp; ghee</b>	Acid Insoluble Ash	IS 4706 (Part 2): 1978 (RA 2010)	0.001 to 5 g/100g
		Sulphated Ash	AOAC 900.02, 19th Edition: 2012	0.001 to 5 g/100g
<b>2.</b>	<b>Vitamins in Food</b>			
	<b>Biscuit, Atta, Milk, Milk Powder</b>	Vitamin C (Ascorbic Acid)	IS 5838: 1970 (RA 2010)	0.1 to 20 g/100g
<b>3.</b>	<b>Oil, Fats and related products</b>			
	<b>Soy bean oil, rice bran oil, groundnut oil</b>	Free fatty acid as oleic acid	IS 548 (Part 1): 1964 (RA 2010)	0.1 to 10 g/100g
		Argemone Oil	IS 548 (Part 2): 1976 (RA 2010)	Qualitative
		Castor Oil	IS 548 (Part 2): 1976 (RA 2010)	Qualitative
		Mineral Oil	IS 548 (Part 2): 1976 (RA 2010)	Qualitative
		Melting Point	IS 548 (Part 1): 1964 (RA 2010)	25 °C to 100°C
		BR Value	IS 3508: 1966 (RA 2013) AOAC 921.08, 19th Edition: 2012	30 to 50
		Baudouin Test	IS 3508: 1966 (RA 2013)	Qualitative
		Volatile oil	IS 548 (Part 1): 1964 (RA 2010)	0.3 to 20 g/100g
		Volatile Matter	IS 548 (Part 1): 1964 (RA 2010) AOAC 926.12, 19 <sup>th</sup> Edition: 2012 AOAC 984.20, 19 <sup>th</sup> Edition: 2012	0.1 % w/w to 25 % w/w
		Acid value	IS 548 (Part 1): 1964 (RA 2010)	0.1 mEq/kg to 10 mEq/kg

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	<b>Soy bean oil, rice bran oil, groundnut oil</b>	Specific gravity	IS 548 (Part 1): 1964 (RA 2010)	0.5 g/mL to 3 g/mL
		Refractive index	IS 548 (Part 1): 1964 (RA 2010)	1 to 3
<b>4.</b>	<b>Spices and Condiments</b>			
	<b>Chilli Powder, Cumin powder, Turmeric powder, Coriander powder, Garam masala and Salt</b>	Acid insoluble matter	IS 253: 1985 (RA 2009)	0.001 to 5.0 g/100g
		Water Insoluble Matter	IS 253: 1985 (RA 2009)	0.001 to 5.0 g/100g
		Bulk Density	IS 1797: 1985 (RA 2009)	0.5 to 30 g/mL
		Nonvolatile ether extract	IS 1797: 1985 (RA 2009)	1 to 30 g/100g
		Volatile oil	IS 1797: 1985 (RA 2009)	0.3 to 15 g/100g
		Chloride content as NaCl	IS 253: 1985 (RA 2009)	50 to 100 g/100g
		Crude fiber	IS 1797: 1985 (RA 2009)	1 to 20 g/100g
		Salt	IS 1797: 1985 (RA 2009)	0.1 to 15 g/100g
<b>5.</b>	<b>Cereals, pulses and by products</b>			
	<b>Atta, Maida, Corn Starch</b>	Total ash (Excluding NaCl)	IS 1158: 1973 (RA 2008)	0.02 to 5 g/100g
		Total Nitrogen	IS 5194: 1969 (RA 2010)	1 to 30 g/100g
		Gluten	IS 1010: 1968 (RA 2010)	1 to 20 g/100g
		Alcoholic acidity	IS 11231: 1985 (RA 2010)	0.01 to 5 g/100g
		Weevilled grains	IS 4333 (Part 1):1996 (RA 2012)	0.01 to 5 g/100g

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	<b>Atta, Maida, Corn Starch</b>	Other Edible grains	IS 4333 (Part 1):1996 (RA 2012)	0.01 to 6 g/100g
		Extraneous matter	IS 4333 (Part 1):1996 (RA 2012)	0.01 to 6 g/100g
		Uric acid	IS 4333 (Part 5):1970 (RA 2005)	Qualitative (Absent/Present)
<b>6.</b>	<b>FOOD ADDITIVES</b>			
<b>A.</b>	<b>Preservatives</b>			
	<b>Bread and Biscuits</b>	Benzoic acid including salt	AOAC 963.19, 19 <sup>th</sup> Edition: 2012	≥ 5mg/kg
<b>7.</b>	<b>ADULTERANTS</b>			
	<b>Milk and Milk Powder</b>	Test for presence of Starch	IS 1479 (Part 1): 1960 (RA 2013)	Qualitative
		Urea	AOAC 967.07, 19th Edition: 2012	Qualitative (Absent/Present)
		Detergents/ Detergent containing Alkyl Benzene Sulphonic acid	IS 8401: 1994 (RA 2011)	Qualitative (Absent/Present)
		Salt (NaCl)	IS 3507: 1966 (RA 2013)	Qualitative (Absent/Present)
		Boric acid	IS 1479 (Part 1): 1960 (RA 2013)	Qualitative (Absent/Present)
		Hypochlorites and Chloramines	IS 1479 (Part 2): 1961 (RA 2009)	Qualitative

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<b>8.</b>	<b>HEAVY METALS &amp; ELEMENTS</b>			
	<b>Atta, Biscuit, Garam masala, Orange juice</b>	Aluminium	ARLBL/CHE/STP-003 Issue No.: 02 Issue Date: 19.02.2015	≥ 0.05mg/kg
		Antimony	ARLBL/CHE/STP-003 Issue No.: 02 Issue Date: 19.02.2015	≥ 0.05mg/kg
		Arsenic	ARLBL/CHE/STP-003 Issue No.: 02 Issue Date: 19.02.2015	≥ 0.05mg/kg
		Barium	ARLBL/CHE/STP-003 Issue No.: 02 Issue Date: 19.02.2015	≥ 0.05mg/kg
		Boron	ARLBL/CHE/STP-003 Issue No.: 02 Issue Date: 19.02.2015	≥ 0.05mg/kg
		Cadmium	ARLBL/CHE/STP-003 Issue No.: 02 Issue Date: 19.02.2015	≥ 0.05mg/kg
		Calcium	ARLBL/CHE/STP-003 Issue No.: 02 Issue Date: 19.02.2015	≥ 0.05mg/kg
		Chromium	ARLBL/CHE/STP-003 Issue No.: 02 Issue Date: 19.02.2015	≥ 50µg/kg

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	Atta, Biscuit, Garam masala, Orange juice	Cobalt	ARLBL/CHE/STP-003 Issue No.: 02 Issue Date: 19.02.2015	≥ 0.05mg/kg
		Copper	ARLBL/CHE/STP-003 Issue No.: 02 Issue Date: 19.02.2015	≥ 0.05mg/kg
		Iron	ARLBL/CHE/STP-003 Issue No.: 02 Issue Date: 19.02.2015	≥ 0.05mg/kg
		Lead	ARLBL/CHE/STP-003 Issue No.: 02 Issue Date: 19.02.2015	≥ 0.05mg/kg
		Magnesium	ARLBL/CHE/STP-003 Issue No.: 02 Issue Date: 19.02.2015	≥ 0.05mg/kg
		Manganese	ARLBL/CHE/STP-003 Issue No.: 02 Issue Date: 19.02.2015	≥ 0.05mg/kg
		Mercury	ARLBL/CHE/STP-003 Issue No.: 02 Issue Date: 19.02.2015	≥ 0.05mg/kg
		Nickel	ARLBL/CHE/STP-003 Issue No.: 02 Issue Date: 19.02.2015	≥ 0.05mg/kg
		Potassium	ARLBL/CHE/STP-003 Issue No.: 02 Issue Date: 19.02.2015	≥ 0.05mg/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
	<b>Atta, Biscuit, Garam masala, Orange juice</b>	Selenium	ARLBL/CHE/STP-003 Issue No.: 02 Issue Date: 19.02.2015	≥ 0.05mg/kg
		Silica	ARLBL/CHE/STP-003 Issue No.: 02 Issue Date: 19.02.2015	≥ 0.05mg/kg
		Sodium	ARLBL/CHE/STP-003 Issue No.: 02 Issue Date: 19.02.2015	≥ 0.05mg/kg
		Tin	ARLBL/CHE/STP-003 Issue No.: 02 Issue Date: 19.02.2015	≥ 0.05mg/kg
		Zinc	ARLBL/CHE/STP-003 Issue No.: 02 Issue Date: 19.02.2015	≥ 0.05mg/kg

#### 9. Fish and fishery products

<b>Fish, Sea food</b>	Sodium Chloride (Salt)	IS 14950: 2001 (RA 2009)	0.1 to 5 % w/w
	Total volatile base (Nitrogen) for fish	DGHS Manual 6: 2005, Cl. 1.2	0.1 to 100 mg/100g
	Protein/ nitrogen	IS 5900 (Part 1): 2000 (RA 2009)	1 to 90 g/100g

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<b>S. No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>10.</b>	<b>Nuts and nut products</b>			
	<b>Nuts and nut products</b>	Extraneous Matter	IS 4333 (Part 1):1996 (RA 2012)	Min. 0.1 % w/w
		Black or Brown spots	IS 4333 (Part 1):1996 (RA 2012)	Min. 0.1 % w/w
		Spoilage by insect & rodents	IS 4333 (Part 1):1996 (RA 2012)	Min. 0.1 % w/w
		Damaged Discoloured Units	IS 4333 (Part 1):1996 (RA 2012)	Min. 0.1 % w/w
		Acidity of extracted fat as oleic acid	IS 1011: 2002 (RA 2009)	0.001 % w/w to 5 % w/w
<b>11.</b>	<b>Egg and Egg products</b>			
	<b>Egg/ Egg Powder, Mayonnaise</b>	Nitrogen/ Protein	IS 7219: 1973 (RA 2005) IS 4723: 1978 (RA 2009)	10 % w/w to 70 % w/w
		Cholesterol	AOAC 976.26, 19 <sup>th</sup> Edition: 2012	Min. 10 mg/kg
		Fat/ Lecithin	IS 4723: 1978 (RA 2009)	1 % w/w to 20 % w/w
		Salt	IS 14950: 2001 (RA 2009)	0.1 % w/w to 5 % w/w
<b>12.</b>	<b>Coffee, cocoa and by-products</b>			
	<b>Coffee, cocoa, and by products</b>	Water soluble ash	IS 13855: 1993 (RA 2009) DGHS Manual-4: 2005, Cl 5.4	1 % w/w to 2.2 % w/w
		Cocoa Solids	AOAC 931.05, 19 <sup>th</sup> Edition: 2012	1 % w/w to 10 % w/w
		Dry Matter	IS 13854: 1994 (RA 2009) IS 13852: 1994 (RA 2009)	4 % w/w to 8 % w/w

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	<b>Coffee, cocoa, and by products</b>	Moisture	IS 2791: 1992 (RA 2009) IS 3077: 1992 (RA 2011) IS 1164: 1986 (RA 2012)	0.01 % w/w to 15 % w/w
		Alkalinity of ash as K <sub>2</sub> O on moisture and fat free basis	IS 13856: 1993 (RA 1998) IS 1164: 1986 (RA 2012) IS 3077: 1992 (RA 2011)	25 % w/w to 70 % w/w
		Determination of Water extract	IS 13862: 1999 (RA 2009)	2 % w/w to 50 % w/w
		Caffeine content	IS 3077: 1992 (RA 2011)	Min. 1 % w/w
		Cocoa Butter	AOAC 963.15, 19 <sup>th</sup> Edition: 2012	1% w/w to 50 % w/w
<b>13.</b>	<b>Meat and meat products</b>			
	<b>Meat and meat products</b>	Sodium Chloride (Salt)	IS 14950: 2001 (RA 2009)	0.1% w/w to 5 % w/w
		Protein/ nitrogen	IS 5960 (Part 1): 2000 (RA 2009)	1 to 90 g/100g
<b>14.</b>	<b>Bakery Products</b>			
		Acidity of extracted fat	IS 12711: 1989 (RA 2010) DGHS manual 3:2005, CI 14.4 AOAC 939.05, 19 <sup>th</sup> Edition: 2012	0.1 to 5 g/100g
		Alcoholic acidity	IS 11231: 1985 (RA 2005) DGHS manual 3:2005, CI 8.6 IS 12711: 1989 (RA 2010)	0.01 to 5 g/100g
		Fat content	AOAC 937.05, 19 <sup>th</sup> Edition: 2012	1 to 15 g/100g



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<b>S. No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>15.</b>	<b>Confectionery Products</b>			
	<b>Confectionery, Chocolates and Candies</b>	Sucrose	IS 1163: 1992 (RA 2009) IS 6287: 1985 (RA 2010) DGHS manual 4: 2005 AOAC 920.82, 19 <sup>th</sup> Edition: 2012 AOAC 925.48, 19 <sup>th</sup> Edition: 2012	1 to 50 g/100g
		Gum base	IS 6747: 1981 (RA 2010) DGHS manual 4: 2005	1 to 20 g/100g
		Milk fat	IS 1163: 1992 (RA 2009)	1 to 15 g/100g
		Milk Solid	IS 1163: 1992 (RA 2009)	1 to 25 g/100g
		Reducing Sugar	IS 6287: 1985 (RA 2010) DGHS manual 4: 2005	0.1 to 25 g/100g
		Sulphated ash	DGHS manual 4: 2005, IS 6287: 1985 (RA 2010)	0.001 to 5 g/100g
		Fat	IS 6287: 1985 (RA 2010) DGHS manual 4: 2005	1 to 30 g/100g
<b>16.</b>	<b>Sugar and by-products</b>			
	<b>Sugar and by products (Invert syrups, caramel, refined sugar, soft sugar, Jaggery), Glucose/Liquid Glucose</b>	Dextrose equivalent	IS 873: 1974 (RA 2010)	0.1 to 95 g/100g
		Sulphated Ash	IS 15279: 2003 (RA 2013)	0.001 to 5.0 g/100g
		Solid content	IS 4467: 1996 (RA 2001) AOAC 932.14, 19 <sup>th</sup> Edition: 2012 IS 873: 1974 (RA 2010)	20 to 98 g/100g
		Crystal Size	IS 5975: 2003	50 % to 100 %
		Determination of Sulphur dioxide	AOAC 990.28, 19 <sup>th</sup> Edition: 2012	1 mg/kg to 50 mg/kg

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	<b>Sugar and by products (Invert syrups, caramel, refined sugar, soft sugar, Jaggery), Glucose/Liquid Glucose</b>	Sucrose content	AOAC 925.46, 19 <sup>th</sup> Edition: 2012 AOAC 925.47, 19 <sup>th</sup> Edition: 2012 AOAC 925.48, 19 <sup>th</sup> Edition: 2012 AOAC 896.02, 19 <sup>th</sup> Edition: 2012 DGHS Manual 4: 2005 IS 15279: 2003 (RA 2013) IS 6287: 1985 (RA 2010)	50 to 100 g/100g
		Extraneous matter	DGHS Manual-4, 2005	0.01 to 6.0 g/100g
		Water insoluble matter	IS 15279: 2003 (RA 2013) DGHS Manual 4: 2005	0.01 to 1.0 g/100g
		Acidity	DGHS Manual 4: 2005	0.1 to 10 g/100g
<b>17.</b>	<b>Honey and honey products</b>			
		Reducing Sugar	IS 4941: 1994 (RA 2008) DGHS Manual 4: 2005	1 to 90 g/100g
		HMF	IS 4941: 1994 (RA 2008)	1 mg/kg to 100 mg/kg
		Optical Density	IS 4941: 1994 (RA 2008) Annex-H	0.01 to 2 g/100g
		Acidity as formic acid	IS 4941: 1994 (RA 2008)	0.001 to 10 g/100g
<b>18.</b>	<b>Alcoholic drinks and beverages</b>			
		Alcohol content	IS 3752: 2005 (RA 2009)	5 to 70 g/100mL
		Methanol content	IS 3752: 2005 (RA 2009)	≥0.5 mg/100L
		Aldehydes	IS 3752: 2005 (RA 2009)	0.01 to 50 g/100L

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		Furfural	IS 3752: 2005 (RA 2009)	1 to 20 g/100L
		Esters	IS 3752: 2005 (RA 2009)	0.1 to 200 g/100L
		Appearance	Visual	Qualitative
		Colour	Visual	Qualitative
		Volatile Acidity	IS 3752: 2005 (RA 2009)	0.1 to 150 g/100L
		Freedom from sedimentation and harmful ingredients	IS 3811: 2005 (RA 2009)	Qualitative
		Residue on evaporation	IS 3752: 2005 (RA 2009)	1 to 15 g/100L
		Total acids as tartaric acid (expressed in terms of 100 liters of absolute alcohol)	IS 3752: 2005 (RA 2009)	10 to 2500 g/100L
		Volatile acids as Acetic acid (expressed in terms of 100 liters of absolute alcohol)	IS 3752: 2005 (RA 2009)	0.1 to 150 g/100L
<b>19.</b>	<b>Ready to eat foods</b>			
	<b>Ready to eat foods, Traditional sweets &amp; sweetmeats / Bakery &amp; confectionery Products, all varieties of Desserts, cake, biscuits, pizza</b>	Added colouring matter-synthetic	DGHS Manual-3: 2005, Cl 18.0	Qualitative
		Total ash soluble in boiling distilled water	IS 13854: 1994 (RA 2009)	1.0 to 5.0 g/100g
		Alkalinity of soluble ash	AOAC 900.02D, 19th Edition: 2012	10 to 70 g/100g
		Alcoholic acidity as H <sub>2</sub> SO <sub>4</sub>	DGHS Manual-3: 2005, Cl 15.3	0.1 to 10 g/100g

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	base, pastries, patties, cold dough, sandwich, puffs, cereal bars, fudge, toffees, fruit jellies, bread, rolls chocolava cake, buns, puddings, ready to eat snacks/ food / sauce/noodles, vermicelli, Ready to Eat Food Suji Halwa, Veg. Pulav, Peas & Mushroom, Curried, Dal Makhani, Chapati / Paratha, macaroni, pickle, pasta, potato chips, ready to serve food in restaurants	Salt as NaCl	IS 1797: 1985 (RA 2009) DGHS Manual-6: 2005, Cl 2.3	0.1 to 50 g/100g

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V	<b>WATER</b>			
1.	<b>Drinking water, Packaged drinking water, Packaged Natural Mineral water, water for processed food industries</b>	Appearance	Visual	Qualitative
		Colour	IS 3025 (Part 4): 1983 (RA 2012)	Qualitative
		Odour	IS 3025 (Part 5): 1983 (RA 2012)	Qualitative
		Taste	IS 3025 (Part 8): 1984 (RA 2012)	Qualitative
		Turbidity	IS 3025 (Part 10): 1984 (RA 2012)	1 NTU to 1000 NTU
		Total dissolved solids	IS: 3025 (Part 16): 1984 (RA 2012)	50 mg/L to 2500 mg/L
		Total suspended solids	IS: 3025 (Part 17): 1984 (RA 2012)	50 mg/L to 5000 mg/L
		pH value	IS 3025 (Part 11): 1983 (RA 2012)	3.0 to 11.0
		Total Hardness	IS 3025 (Part 21): 2009	200 mg/L max.
		Nitrate (as NO <sub>3</sub> )	APHA (22 <sup>nd</sup> Edition) 4500 NO <sub>3</sub> : 2012 IS 3025 (Part 34): 1988 (RA 2009)	0.1 mg/L to 100 mg/L
		Nitrite (as NO <sub>2</sub> )	APHA (22 <sup>nd</sup> Edition) 4500 NO <sub>2</sub> : 2012 IS 3025 (Part 34): 1988 (RA 2009)	0.1 mg/L to 100 mg/L
		Sulfide as H <sub>2</sub> S	IS 3025 (Part 29): 1986 (RA 2009)	0.01 mg/L to 0.1 mg/L
		Copper	IS 3025 (Part 2): 2004 (RA 2009)	≥50 µg/L
	Manganese	IS 3025 (Part 2): 2004 (RA 2009)	≥50 µg/L	
	Zinc	IS 3025 (Part 2): 2004 (RA 2009)	≥50 µg/L	
	Fluoride		0.1 mg/L to 5 mg/L	

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	<b>Drinking water, Packaged drinking water, Packaged Natural Mineral water, water for processed food industries</b>	Barium	IS 3025 (Part 2): 2004 (RA 2009)	≥50 µg/L
		Ammonia (Total NH <sub>3</sub> -N)	IS 3025 (Part 34): 1988 (RA 2009)	0.1 mg/L to 1 mg/L
		Silver	IS 3025 (Part 2): 2004 (RA 2009)	≥50 µg/L
		Antimony	IS 3025 (Part 2): 2004 (RA 2009)	≥0.05 mg/L
		Chloride	IS:3025 (Part 32):1988 (RA 2007)	5 mg/L to 1000 mg/L
		Sulfates	IS:3025 (Part 24):1986 (RA 2009)	2 mg/L to 500 mg/L
		Calcium	IS 3025 (Part 2): 2004 (RA 2009)	≥50 µg/L
		Magnesium	IS 3025 (Part 2): 2004 (RA 2009)	≥50 µg/L
		Sodium	IS 3025 (Part 2): 2004 (RA 2009)	≥50 µg/L
		Potassium	IS 3025 (Part 2): 2004 (RA 2009)	≥50 µg/L
		Alkalinity	IS 3025 (Part 23): 1986 (RA 2009)	20 mg/L to 600 mg/L
		Silica	IS 3025 (Part 2): 2004 (RA 2009)	≥0.05 mg/L
		Selenium	IS 3025 (Part 2): 2004 (RA 2009)	≥0.05 mg/L
		Molybednum (as Mo)	IS 3025 (Part 2): 2004 (RA 2009)	≥0.05 mg/L
		Mineral oil	IS 3025 (Part 39): 1991 (RA 2009)	0.1 mg/L to 1 mg/L
		Cadmium	IS 3025 (Part 2): 2004 (RA 2009)	≥50 µg/L
	Arsenic	IS 3025 (Part 2): 2004 (RA 2009)	≥0.01 mg/L	
	Lead	IS 3025 (Part 2): 2004 (RA 2009)	≥50 µg/L	

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	<b>Drinking water, Packaged drinking water, Packaged Natural Mineral water, water for processed food industries</b>	Chromium/ Hexavalent Chromium	IS 3025 (Part 2): 2004 (RA 2009)	≥0.05 mg/L
		Nickel	IS 3025 (Part 2): 2004 (RA 2009)	≥50 µg/L
		Boron	IS 3025 (Part 2): 2004 (RA 2009)	≥0.05 mg/L
		Iron	IS 3025 (Part 2): 2004 (RA 2009)	≥50 µg/L
		Aluminium	IS 3025 (Part 2): 2004 (RA 2009)	≥50 µg/L
		Oxygen absorbed in 4 hours	IS:3025 (Part 63): 2007	1 mg/L to 10 mg/L
		Residual free chlorine	IS 3025 (Part 26): 1986 (RA 2009)	0.05 mg/L to 5 mg/L
		Phenolic compounds	IS 3025 (Part 43):1992, Cl-6 (RA 2009)	0.001 mg/L to 1 mg/L

**-X-X-X-X-X-X-X-X-X-X-X-X-**

**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**

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