

<b>Laboratory</b>	<b>Bharat Test House, 109, Anupam Bhawan, Azadpur, Delhi</b> Location 1: 109, Anupam Bhawan, Azadpur, Delhi Location 2: No. 26, Wazirpur Industrial Area, Delhi		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Field</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>16.06.2011</b>
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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><u>LOCATION 1</u></b>				
1.	<b>AMBIENT AIR MONITORING</b>	Oxide of Nitrogen (Nox) Sulphur Dioxide (SO <sub>2</sub> ) Suspended Particulate Matter (SPM)	IS:5182 (Pt-6): 2006 IS:5182 (Pt-2): 2001 IS:5182 (Pt-4): 1999	20-100 µg/m <sup>2</sup> 4-100 µg /m <sup>2</sup> 10-2000 µg/m <sup>2</sup>
2.	<b>STACK EMISSION MONITORING</b>	Oxide of Nitrogen (Nox) Sulphur Dioxide (SO <sub>2</sub> ) Suspended Particulate matter (SPM) CO <sub>2</sub>	IS:5182 (Pt-6): 2006 IS:11255 (Pt-2)-1999, RA 2003 IS:11255 (Pt-2)-1999, RA 2003  APHA : 134 Second Edition Pg. 373 – 377	2-100 mg/m <sup>2</sup> 4-100 mg/m <sup>2</sup> 5-500 mg/m <sup>2</sup>  0.1-10%
3.	<b>PAPER &amp; ALLIED PRODUCTS</b>	pH of water extract Soluble Chlorides Soluble Sulphates Moisture Content Ash Content	EN 12858/ISO 536/ EN ISO 1924-2/EN 20287/ IS: 1060-Part 1-1966, Reaffirmed 2004 IS: 1060-Part 2-1960, Reaffirmed 2004 IS: 1060-Part 3-1969, Reaffirmed2004 IS: 1060 P-1-1966	1-14 Upto 2% Upto 2% Upto 20% Upto 20%
4.	<b>COAL, COKE &amp; SOLID FUELS</b>	Moisture Ash Volatile Matter Proximate analysis Sulphur Content  Chemical Analysis of Ash Calorific Value Fixed Carbon	IS:1350 P-1,1984, Reaffirmed 2002     IS:1350 (ptIII) -1969 Reaffirmed 2005 IS 1355:1984 Reaffirmed 2007 IS 1350 (Part 2):1970 RA 2010 By Calculation IS:1350 P-3, 1969, Reaffirmed 2000	0.1-30% 0.1-60% 0.1-60%   0-5%  1000-8000 cal/g 5-60%

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<b><u>LOCATION 1</u></b>				
5.	<b>METALS COATING (Thickness)</b>	Tin	IS:1327 : 1988 (Stripping Method) Reaffirmed 2006	0.1-100 μ
		Phosphate	IS:14503 :1998 (Stripping Method) Reaffirmed 2006	0.1-100 μ
		Zinc	IS:6745 : 1972 Reaffirmed 2006 ISO 1461(Stripping Method) ISO 2178 (Magnetic method)	0.1-100 μ 50-1000g/m <sup>2</sup>
		Uniformity of Zinc coating	IS 2633:1986 Reaffirmed 2006	Qualitative
		Anodising	IS 5523: 1983 (Stripping Method) Reaffirmed 2006	0.1-100 μ
		Cadmium	IS 3203:1982 (BNF jet method) Reaffirmed 2006	0.1-10 μ
		Nickel	IS 3203:1982 Reaffirmed 2006 (Stripping Method/BNF Jet)	0.1-50 μ
		Chromium	IS 3203: 1982 (Stripping Method) Reaffirmed 2006	0.05-1 μ
6.	<b>CAST IRON STEEL &amp; FERROUS ALLOYS</b>	Carbon	IS 228 (pt 1 to 24) /	0.01-3.8%
		Silicon	IS 12308 (Reaffirmed 2006/7)	0.01-3.0%
		Manganese	1987(Part 1 to 14)	0.15-15%
		Sulphur	ASTM E350/ E351/ E352/ E353/	0.001-0.25%
		Phosphorus	E354/ BS 6200	0.005-0.5%
		Chromium		0.1-31%
		Molybdenum		0.1-10%
		Nickel		0.01-40%

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<b><u>LOCATION 1</u></b>				
		Titanium	IS 228 (pt 1to 24) /	0.01-2.5 %
		Vanadium	IS 12308 (Reaffirmed 2006/7)	0.1-2.5%
		Tungsten	1987(Part 1 to 14)	0.1-10 %
		Aluminum	ASTM E350/ E351/ E352/ E353/	0.01-1 %
		Niobium	E354/ BS 6200	0.01-0.5%
		Copper		0.01-1%
		Cobalt		0.1-75%
		Nitrogen		0.001-0.02%
		Boron		0.01-2 %
<b>7.</b>	<b>ALUMINIUM &amp; ITS ALLOYS</b>	Copper	IS 504 (Pt 1-12) : 2002	0.001-12%
		Magnesium	Part 13-16: 2003 /ASTM E34	0.001-12%
		Iron		0.001-2%
		Nickel		0.1-2%
		Manganese		0.1-2%
		Zinc		0.1-6%
		Chromium		0.1-0.25%
		Titanium		0.01-1.0
		Silicon		0.1-24%
		Vanadium		0.05-1%
		Lead		0.001-0.1%
		Aluminium		70-100%
<b>8.</b>	<b>COPPER &amp; ITS ALLOYS</b>	Tin	IS:3685 : 1966, Reaffirmed 2006	0.01-10%
		Lead	IS: 4027 : 1987, Reaffirmed 2006	0.001-10%
		Iron	IS: 440: 1964, Reaffirmed 2006	0.01-6%
		Nickel	IS: 3186: 1965, Reaffirmed 2006	0.01-45%
		Manganese	IS: 3187 : 1965, Reaffirmed 2006	0.01-4%
		Phosphorus	IS: 4646 pt 1 and 2,	0.005-0.2%
		Zinc	Reaffirmed 2003	0.05-45%
		Silicon	ASTM E 53,54 & 62 and AAS	0.05-2%
		Oxygen		0.001-0.1%
		Bismuth		0.0005-0.1%

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**LOCATION 1**

		Aluminium		0.01-12%
		Arsenic		0.001-0.5%
		Silver		0.1-10%
		Copper		25-99.95%
9.	<b>ZINC &amp; ITS ALLOYS</b>	Aluminium	IS: 2600(P1)-88	0.02-12%
		Copper	IS: 2600(P2)-88	0.01-3%
		Magnesium	IS: 2600(P3)-93	0.01-0.1%
		Lead	IS: 2600(P4)-93	0.001-1%
		Cadmium	All Reaffirmed in 2003	0.001-0.5%
		Nickel	ASTM E -40	0.005-0.5%
		Tin	ASTM E-536	0.001-1%
		Iron	AAS	0.01-2%
		Zinc		80-99.9%
10.	<b>PETROLEUM PRODUCTS (HSD, LDO Lubricating Oils, fuel Oil, Turbine Oils, Insulating Oils, Hydraulic Oil)</b>	Density	IS:1448 P-32, 1992, Reaffirmed 2003	0.5-1.1 kg
		Flash Point	IS:1448 P-20, 1998	40-250 <sup>0</sup> C
		Sediment	IS:1448 P-30, 1967, Reaffirmed 2003	0.01-1%
		Total Acidity	IS:1448 P-2, 1967, Reaffirmed 2003	0.01-10%
		Ash Content	IS:1448 P-4, 2008	0.01-20%
		Water	IS:13567, 1992, Reaffirmed 2008	0.05-20%
		Flash & Fire	IS:1448 P-69, 1969, Reaffirmed 2003	50-360 <sup>0</sup> C
		Sulphated Ash	IS:1448 P-4, 2008, Reaffirmed 1996	0.01-5%
		Saponification Value	IS:1448 P-55 : 2004	1-300
		Evaporation Loss	IS:1448 P-68, 1967, Reaffirmed 2003	0.1-10%

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<b><u>LOCATION 1</u></b>				
<b>11.</b>	<b>PAINT VARNISHES AND RELATED PRODUCTS</b>	Consistency Flash point Mass in kg / 10 l Water content Volatile matter Drying time Dry Film thickness Fineness of grind Opacity Gloss Hardness tests Flexibility and adhesion Resistance to water Resistance to liquids Residue on sieve Pigments & Non volatiles Ash Content Phthalic Anhydride Lead restriction test Volume solids Acid value Rosin test Zinc Oxide Titanium dioxide	IS:101(Pt-1/SEC-5)-89 IS:101(Pt-1/SEC-6)-87 IS:101(Pt-1/SEC-7)-87 IS:101(Pt-2/SEC-1)-88 IS:101(Pt-2/SEC-2)-86 IS:101(Pt-3/SEC-1)-86 IS:101(Pt-3/SEC-2)-89 IS:101(Pt-3/SEC-5)-87 IS:101(Pt-4/SEC-1)-88 IS:101(Pt-4/SEC-4)-88 IS:101(Pt-5/SEC-1)-88 IS:101(Pt-5/SEC-2)-88 IS:101(Pt-7/SEC-1)-89 IS:101(Pt-7/SEC-2)-90 IS:101(Pt-8/SEC-1)-89 IS:101(Pt-8/SEC-2)-90 IS:101(Pt-8/SEC-3)-93 IS:101(Pt-8/SEC-4)-93 IS:101(Pt-8/SEC-5)-93 IS:101(Pt-8/SEC-6)-93 IS:101(Pt-9/SEC-1)-93 IS:101(Pt-9/SEC-2)-93 IS:6947(Pt-1)-73 IS:6947(Pt-1)-73	10 -500 s 20-95°C 5-20 0.01-10% 0.01-80% Qualitative 10-200 µm 0-100 µm 50-250 m <sup>2</sup> ,kl 5 - 100 Qualitative Qualitative Qualitative Qualitative 0.01-20% 0.01-80% 0.01-20% 10-25% 0.01-10% 5-60% 0.01-20mg of KOH/g Qualitative 0.01-100% 0.01-100%
<b>12.</b>	<b>ADHESIVES (Liquid Gum, Office Paste, PVA Based Adhesives)</b>	Total Solids pH Value Chlorides Sulphates Moisture Ash Content Bulk Density	IS:4835-1979 Reaffirmed 2005 IS:2257-1989 Reaffirmed 1998	0.1-100% 1-13 0.01-10% 0.01-10% 0.01-10% 0.01-10% 0.7-1.5 kgl

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<b><u>LOCATION 1</u></b>				
<b>13.</b>	<b>POLYMERS</b>	HCl Evolution of PVC	ISO 182-1 to 4	-
<b>14.</b>	<b>RUBBER &amp; RUBBER PRODUCTS</b>	Total Zinc oxide Heavy Metals Identification of Rubber Polymer Rubber polymer chemical analysis	App A IS 7466 App B IS 7466 ASTM D3677  IS 3400 (Part 22): 2004 BS 5923 (Part2) ISO 2454; ASTM D297 BS 7164 (Part 24), ISO 7269 BS 7164 (Part 21), ISO 1659 BS 7164 (Part 14), ISO 1408 BS 7164 (Part 3), ISO 1407 BS 5923, ISO 247	0-10% Qualitative -
<b>15.</b>	<b>ANIMAL FEED</b>	Calcium Crude Fat Crude Fiber Crude Protein Moisture Phosphorus Salt (as NaCl) Urea Nitrogen	IS : 7874-1975 Part II (Reaffirmed 2009) IS : 7874-1975 Part I (Reaffirmed 2009) IS : 7874-1975 Part I (Reaffirmed 2009) IS : 7874-1975 Part I (Reaffirmed 2009) IS : 7874-1975 Part I (Reaffirmed 2009) IS : 7874-1975 Part II (Reaffirmed 2009) IS : 7874-1975 Part II (Reaffirmed 2009) IS : 7874-1975 Part I (Reaffirmed 2009)	0.1 – 40% 0.1 – 30.0% 0.1– 30.0% 1.0 – 30.0% 0.1 – 30% 0.1 – 25% 0.5 – 20% 0.01 - 10%

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<b><u>LOCATION 1</u></b>				
	Total Ash		IS : 7874-1975 Part I (Reaffirmed 2009)	0.1 -50.0%
	Acid Insoluble ash		IS : 7874-1975 Part I (Reaffirmed 2009)	0.01 – 25.0%
	Iron		IS : 7874-1975 Part II (Reaffirmed 2009)	0.05 – 5%
	Copper		IS : 7874-1975 Part II (Reaffirmed 2009)	0.05 – 1%
	Manganese		IS : 7874-1975 Part II (Reaffirmed 2009)	0.05 – 2%
	Cobalt		IS : 7874-1975 Part II (Reaffirmed 2009)	0.05 – 2%
	Zinc		IS : 7874-1975 Part II (Reaffirmed 2009)	0.05 – 2%

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<b><u>LOCATION 2</u></b>				
1.	<b>CEMENT &amp; CLINKER</b>	Loss of Ignition Silica Alumina Iron Oxide Calcium Oxide Magnesium Oxide Sulphuric Anhydride Insoluble Residue Chloride Alkalies (Sodium Oxide & Potassium Oxide) Phosphate (P <sub>2</sub> O <sub>5</sub> ) Sulphide TiO <sub>2</sub>	IS:4032-1985, RA 2005 IS 12423: 1988, RA 2005 BSEN/196-2 721: 1995 ASTM C114	0.1-10% 0.5-30% 0.5-18% 0.1-10% 30-70% 0.5-6% 0.2-5% 0.1-40% 0.01-0.5% 0.01-3.5 % 0.1-3.0 % 0.1-5.0 % 0.05-2%
2.	<b>CONCRETE, ADMIXTURES &amp; AGGREGATES</b>	Cement Content & Ratio Analysis Chlorides  Sulphates Dry Material Content Ash Content pH Water Content (Admixture) Water absorption Alkali reactivity Organic matter	IS: 1199: 1959, RA 2004 ASTM C-1084 IS:6925-1973, Reaffirmed 2004 BS 812: 1988 BS 812: 1988 IS: 9103-1999, RA 2004 IS: 9103-1999, RA 2004 IS: 9103-1999, RA 2004 IS: 9103-1999, RA 2004 IS: 2386(pt III)-1963, RA 2007 IS: 2386(pt VII)-1963, RA 2007 IS: 2386-1963, RA 2007	0.5-40% 0.002-3.0 %  0.005-1% 1-40% 0.1-20% 1-14 Upto 95% 0.3-1% Qualitative Qualitative
3.	<b>POZZOLANIC MATERIALS (Clay, Pozzolana, Fly Ash, Coal Ash/ Silica Fume)</b>	LOI SiO <sub>2</sub> Al <sub>2</sub> O <sub>3</sub> Fe <sub>2</sub> O <sub>3</sub> CaO	IS 4032-1985/ Reaffirmed 2005 IS 1727, RA 2004 IS 12423, RA 2005 IS 3812, RA 1999	0.2-10.0% 15.00-70.0% 2.00-25.0% 1.0-5.0% 0.50-15.0%

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<b><u>LOCATION 2</u></b>				
		MgO	IS 4032-1985/ Reaffirmed 2005	0.20-7.0%
		SO <sub>3</sub>	IS 1727, RA 2004	0.5-10.0%
		Na <sub>2</sub> O	IS 12423, RA 2005	0.005-5.0%
		K <sub>2</sub> O	IS 3812, RA 1999	0.005-5.0%
		Cl		0.002-0.5%
		TiO <sub>2</sub>		0.1-3.5%
		P <sub>2</sub> O <sub>5</sub>		0.005-2.0%
		Mn <sub>2</sub> O <sub>3</sub>		0.005-2.0%
4.	<b>BITUMEN &amp; BITUMINOUS MATERIALS Paving Bitumen IS:73-1992 Industrial Bitumen IS:702-1988</b>	Flash Point Specific Gravity Loss on Heating Water Content Ash Content Toluene soluble Mineral Matter (Ash) Volatile Matter	IS1209-1978, RA 1988 IS:1202-1978, RA 1990 IS:1212-1978, RA 1988 IS:1211-1978 IS:1217-1978, RA 1990 IS:1215-1978 IS:1217-1978, RA 1990 IS:1220-1978, RA 1988	230-360 <sup>0</sup> C 0.7-1.2 0.1-100% 0.01-10% 0.1-10% 1-100% 0.1-5% 0.1-5%
5.	<b>BENTONITE</b>	Loss on Ignition Moisture Copper Content Manganese Water Soluble Matter	IS:6186 – 1986, RA 2003	0.1-20% 0.1-20% 0.1-5% 0.1-5% 0.1-15%
6.	<b>SOIL</b>	Conductivity of Extract Nitrogen Phosphorus Organic matter Chloride Sulphate Nitrate	IS 2720 IS 14684 IS 14684 IS 2720 Pt 22: 1977, RA 2005 IS 2720 IS 2720 Pt 27: 1977, RA 2005 IS 2720	1-500 μ siemens/cm 0.01-5% 0.01-5% 0.1-20% 0.1-5% 0.1-5% 0.1-3%

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<b><u>LOCATION 2</u></b>				
<b>7.</b>	<b>SALT</b>	Loss on drying/Moisture	IS:253 – 1985(Reaffirmed in 2004)	0.5 – 10%
		Matter soluble in water other than Sodium Chloride	IS:253 – 1985(Reaffirmed in 2004)	0.5 – 5%
		Chloride (as NaCl)	IS:253 – 1985(Reaffirmed in 2004)	Upto 99.9%
		Water Insoluble's	IS:253 – 1985(Reaffirmed in 2004)	0.1 – 5%
		Calcium	IS: 253 – 1985(Reaffirmed in 2004)	0.01 – 0.5%
		Magnesium	IS: 253 – 1985(Reaffirmed in 2004)	0.01 – 0.5%
		Sulphate	IS:253 – 1985(Reaffirmed in 2004)	0.1 – 2.0%
		Alkalinity	IS: 253 – 1985(Reaffirmed in 2004)	0.05 – 2.0%
		Lead	IS: 253 – 1985(Reaffirmed in 2004)	0.1 – 10ppm
		Iron	IS: 253 – 1985(Reaffirmed in 2004)	0.1-100ppm
		Arsenic	IS: 253 – 1985(Reaffirmed in 2004)	0.1 - 2 ppm
		Copper	IS: 253 – 1985(Reaffirmed in 2004)	0.1 – 5 ppm
		Particle Size	IS: 253 – 1985(Reaffirmed in 2004)	1 – 100%
<b>8.</b>	<b>IODIZED SALT</b>	Loss on drying	IS 7224 :2006(Reaffirmed in 2010)	0.5 – 10%
		Iodine Content	IS 7224 :2006(Reaffirmed in 2010)	5 – 50ppm
		Matter soluble in water other than Sodium Chloride	IS 7224 :2006(Reaffirmed in 2010)	0.5 – 10%
		Chloride(as NaCl)	IS 7224 :2006(Reaffirmed in 2010)	Upto 99.9%
		Water Insoluble	IS 7224 :2006(Reaffirmed in 2010)	0.1 – 5%
<b>9.</b>	<b>SPICES CONDIMENTS AND RELATED PRODUCTS (ground spices)</b>	Moisture	IS:1797:1985(Reaff. 2009)/ MOHAFW Lab Manual 10	0.5 -30.0%
		Total ash	IS:1797:1985(Reaff. 2009)/ MOHAFW Lab Manual 10	0.1-50.0%
		Acid insoluble ash	IS:1797:1985(Reaff. 2009)/ MOHAFW Lab Manual 10	0.01-20.0%
		Water soluble ash	IS:1797:1985(Reaff. 2009)/ MOHAFW Lab Manual 10	0.01-10.0%
		Alcohol soluble extract	IS:1797:1985(Reaff. 2009)/ MOHAFW Lab Manual 10	1.0-30.0%

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<b><u>LOCATION 2</u></b>				
		Cold water soluble extract	IS:1797:1985(Reaff. 2009)/ MOHAFW Lab Manual 10	1.0-80.0%
		Crude fiber	IS:1797:1985(Reaff. 2009)/ MOHAFW Lab Manual 10	1.0-60.0%
		Non volatile ether extract	IS:1797:1985(Reaff. 2009)/ MOHAFW Lab Manual 10	1.0-50.0%
		Volatile oil	IS:1797:1985(Reaff. 2009)/ MOHAFW Lab Manual 10	0.5-30.0%
		salt	IS:1797:1985(Reaff. 2009)/ MOHAFW Lab Manual 10	0.5-60.0%
		Added colouring matter	IS:1797:1985(Reaff. 2009)/ MOHAFW Lab Manual 10	Present/absent
<b>10.</b>	<b>WHOLE SPICES</b>	Extraneous matter	IS:1797:1985(Reaff. 2009)/ MOHAFW Lab Manual 10	0.1 to 50.0%
		Broken fruits	IS:1797:1985(Reaff. 2009)/ MOHAFW Lab Manual 10	0.1 to 20.0%
		Moisture	IS:1797:1985(Reaff. 2009)/ MOHAFW Lab Manual 10	1.0 to 30.0%
		Total ash	IS:1797:1985(Reaff. 2009)/ MOHAFW Lab Manual 10	0.1 to 50.0%
		Acid insoluble ash	IS:1797:1985(Reaff. 2009)/ MOHAFW Lab Manual 10	0.01 to 20.0%
		Non volatile ether extract	IS:1797:1985(Reaff. 2009)/ MOHAFW Lab Manual 10	1.0 to 50.0%
		Cold water soluble extract	IS:1797:1985(Reaff. 2009)/ MOHAFW Lab Manual 10	1.0-80.0%
		Volatile oil content	IS:1797:1985(Reaff. 2009)/ MOHAFW Lab Manual 10	0.1 to 30.0%
		Edible seeds	IS:1797:1985(Reaff. 2009)/ MOHAFW Lab Manual 10	0.1 to 50.0%
		Insect damaged matter	IS:1797:1985(Reaff. 2009)/ MOHAFW Lab Manual 10	0.1 to 50.0%

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<b><u>LOCATION 2</u></b>				
11.	<b>BLACK PEPPER</b>	Detection of mineral oil	MOHAFW Lab Manual 10	Present/absent
12.	<b>TURMERIC</b>	Curcumin Starch	IS 3576: 2010 IS 3576: 2010	1.0-20.0% 1.0-80.0%
13.	<b>HING (asafoetida)/ Compound hing</b>	Colophony resin Galbanum resin Ammoniacum resin Any other foreign resin Coal tar dyes Mineral pigment Total ash Acid insoluble ash Alcoholic extract Starch	MOHAFW, Lab Manual 10 page no 108 MOHAFW, Lab Manual 10 MOHAFW, Lab Manual 10 MOHAFW, Lab Manual 10 MOHAFW, Lab Manual 10 MOHAFW, Lab Manual 10 MOHAFW, Lab Manual 10 MOHAFW, Lab Manual 10 MOHAFW, Lab Manual 10 MOHAFW, Lab Manual 10	Present/absent Present/absent Present/absent Present/absent Present/absent Present/absent 0.1 to 60.0% 0.01 to 20.0% 1to 90.0% 0.1 to 60.0%
14.	<b>COFFEE, COCOA AND BY PRODUCTS</b>	Moisture Total ash Acid insoluble ash Water soluble ash Aqueous extracts Solubility in boiling water Solubility in cold water	MOHAFW, Lab Manual 4 MOHAFW, Lab Manual 4 MOHAFW, Lab Manual 4 MOHAFW, Lab Manual 4 MOHAFW, Lab Manual 4 IS 2791: 1992 IS 2791: 1992	1.0 -30.0% 0.1 – 50.0% 0.01-20.0% 0.01-10.0% 1 - 80.0% 10 s to 2 minutes 1 s to 6 minutes
15.	<b>OILS &amp; FATS</b>	Saponification value Moisture Unsaponifiable matter  FFA as oleic acid Acid value	IS: 548 (Part 1) – 1964 Reaffirmed 2000 IS: 548 (Part 1) – 1964 Reaffirmed 2000 IS: 548 (Part 1) – 1964 Reaffirmed 2000	50 – 350 0.1 – 20.0% 0.1 – 10%  0.1 – 30.0%

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<b><u>LOCATION 2</u></b>				
		Iodine value	IS: 548 (Part 1) – 1964 Reaffirmed 2000	5 – 300
		Peroxide value (per 1000g)	IS: 548 (Part 1) – 1964 Reaffirmed 2000	1.1-50
		Specific gravity	IS: 548 (Part 1) – 1964 Reaffirmed 2000	0.6 – 1.4
		Bellier turbidity test	IS : 548 (Part 1) – 1964 Reaffirmed 2000	10 to 50°C
		Baudouins test (Test for sesame oil)	MOHAFW, Lab Manual 2	Absent/Present
		Halphens test (Test for cotton seed oil)	MOHAFW, Lab Manual 2	Absent/Present
		Hexabromide Test (Test for linseed oil)	MOHAFW, Lab Manual 2	Absent/Present
		Polybromide Test	MOHAFW, Lab Manual 2	Absent/Present
		Test for presence of mineral oil	MOHAFW, Lab Manual 2	Absent/Present
		Test for presence of castor oil	MOHAFW, Lab Manual 2	Absent/Present
		Test for presence of Karanja oil	MOHAFW, Lab Manual 2	Absent/Present
		Reichert Meissl and polenske value	MOHAFW, Lab Manual 2	2.0 to 50.0
		B.R Value	MOHAFW, Lab Manual 2	30.0 – 80.0
		Argemone oil	MOHAFW, Lab Manual 2	Absent/present
<b>16.</b>	<b>MILK AND DAIRY PRODUCTS (Milk)</b>	Moisture	MOHAFW, Lab Manual 1	1.0 to 95.0%
		Total Protein	MOHAFW, Lab Manual 1	0.2- 70.0%
		fat	MOHAFW, Lab Manual 1	0.2 -80.0 %
		Total solids	MOHAFW, Lab Manual 1	0.1 - 90.0%
		Solids not fat	MOHAFW, Lab Manual 1	1.0 – 50.0%
		Test for starch	MOHAFW, Lab Manual 1	Absent/present
		Test for urea	MOHAFW, Lab Manual 1	Absent/present
		Test for sugar	MOHAFW, Lab Manual 1	Absent/present
		Test for soda	MOHAFW, Lab Manual 1	Absent/present

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<b><u>LOCATION 2</u></b>				
		Sugar content	MOHAFW, Lab Manual 1	
		Test for detergent	MOHAFW, Lab Manual 1	Absent/present
		Titrateable acidity	IS 10484 : 1983	0.1-10.0%
<b>17.</b>	<b>GHEE/ BUTTER OIL</b>	Moisture	MOHAFW, Lab Manual 1	0.1 to 20.0%
		B.R. Value	MOHAFW, Lab Manual 1	10 to 90.0
		Free fatty acid	MOHAFW, Lab Manual 1	0.1 to 20.0%
		Reichert value	MOHAFW, Lab Manual 1	1.0 to 80.0
		Baudouins test	MOHAFW, Lab Manual 1	Absent /present
		Milk fat	MOHAFW, Lab Manual 1	50.0 to 100.0%
<b>18.</b>	<b>BUTTER</b>	Common salt	MOHAFW, Lab Manual 1	0.5 – 10.0%
<b>19.</b>	<b>CEREALS AND PULSES BY PRODUCTS: FOODGRAINS</b>	Moisture	IS 4333(Part 2):2002/ MOHAFW, Lab Manual 3	1.0 – 25.0%
		Foreign matter	IS 4333(Part 2):2002/ MOHAFW, Lab Manual 3	0.1 - 40.0%
		Damaged grain	IS 4333(Part 2):2002/ MOHAFW, Lab Manual 3	0.1 - 40.0%
		Other edible grains	IS 4333(Part 2):2002/ MOHAFW, Lab Manual 3	0.1 - 30.0%
		Weevilled grains	IS 4333(Part 2):2002/ MOHAFW, Lab Manual 3	0.1 - 70.0%
<b>20.</b>	<b>WHEAT ATTA</b>	Moisture	IS 1155-2000/ MOHAFW,Lab Manual 3	0.5 – 20.0%
		Total ash	IS 1155-2000 / MOHAFW,Lab Manual3	0.1 – 30.0%
		Acid insoluble ash	IS 1155-2000/ MOHAFW ,Lab Manual 3	0.1 – 20.0%
		Acidity(alcoholic)	IS 1155-2000/ MOHAFW ,Lab Manual 3	0.01 – 5.0%

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		Gluten	IS 1155-2000/ MOHAFW ,Lab Manual 3	1.0 – 20.0%
		Crude fibre	IS 1155-2000/ MOHAFW ,Lab Manual 3	0.1 – 25.0%
		Granularity with 600 micron	IS 1155-2000/ MOHAFW Lab Manual 3	0 – 50.0% retention
		Protein	MOHAFW	0.5- 50.0%
<b>21.</b>	<b>MAIDA</b>	Moisture	IS1009:1979(Reaff.2005)/ MOHAFW, Lab Manual 3	0.5 – 20.0%
		Total ash	IS1009:1979(Reaff.2005)	0.1 – 30.0%
		Acid insoluble ash	IS1009:1979(Reaff.2005)/ MOHAFW, Lab Manual 3	0.1 – 20.0 %
		Gluten	IS1009:1979(Reaff.2005)/ MOHAFW, Lab Manual 3	1.0-25.0%
		Alcoholic acidity	IS1009:1979(Reaff.2005)/ MOHAFW, Lab Manual 3	0.01 – 5.0%
<b>22.</b>	<b>SUJI/RAVA</b>	Moisture	IS1010:1968(Reaff.2005/ MOHAFW, Lab Manual 3)	0.5 – 50.0%
		Total ash	IS1010:1968(Reaff.2005/ MOHAFW, Lab Manual 3)	0.5 – 30.0%
		Acid insoluble ash	IS1010:1968(Reaff.2005)/ MOHAFW, Lab Manual 3	0.1 – 20.0 %
		Gluten	IS1010:1968(Reaff.2005)/ MOHAFW, Lab Manual 3	1.0-25.0%
		Alcoholic acidity	IS1010:1968(Reaff.2005)/ MOHAFW, Lab Manual 3	0.01 – 5.0%
<b>23.</b>	<b>MACRONI PRODUCTS</b>	Moisture	IS 1485:1993(Reaff.2010)	1.0 – 30.0%
		Total ash	IS 1485:1993(Reaff.2010)	0.1 – 20.0%
		Acid insoluble ash	IS 1485:1993(Reaff.2010)	0.01 – 10.0%
		Nitrogen	IS 1485:1993(Reaff.2010)	1.0 – 20.0%

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<b><u>LOCATION 2</u></b>				
<b>24.</b>	<b>CORN FLOUR/CORN FLAKES/ CUSTARD POWDER</b>	Moisture Total ash Acid insoluble ash Alcoholic acidity (with 90% alcohol)	MOHAFW , Lab Manual 3 MOHAFW , Lab Manual 3 MOHAFW , Lab Manual 3 MOHAFW , Lab Manual 3	1.0 - 30.0% 0.1 - 40.0% 0.1 - 15.0% 0.1 -5.0%
<b>25.</b>	<b>BISCUIT</b>	Acid insoluble ash Acidity of extracted fat Moisture	MOHAFW , Lab Manual 3 MOHAFW , Lab Manual 3 IS : 1011	0.01 – 10.0% 0.01 – 6.0% 0.5 – 5.0%
<b>26.</b>	<b>BREAD</b>	Alcoholic acidity Acid insoluble ash	MOHAFW , Lab Manual 3 MOHAFW , Lab Manual 3	0.1 – 10.0 0.01 – 10.0%
<b>27.</b>	<b>SUGAR AND BY PRODUCTS (HONEY)</b>	Specific Gravity Moisture Total Reducing sugar Sucrose Fructose – glucose Ratio Acidity Ash Fiehe’s test Optical density	IS 4941 : 1994, MOHAFW Lab Manual 4 IS 4941 : 1994, MOHAFW Lab Manual 4 IS 4941 : 1994, MOHAFW Lab Manual 4 IS 4941 : 1994, MOHAFW Lab Manual 4 IS 4941 : 1994, MOHAFW Lab Manual 4 IS 4941 : 1994, MOHAFW Lab Manual 4 IS 4941 : 1994, MOHAFW Lab Manual 4 IS 4941 : 1994, MOHAFW Lab Manual 4 IS 4941 : 1994, MOHAFW Lab Manual 4 IS 4941 : 1994, MOHAFW Lab Manual 4	0.5 – 3.50 0.1-70.0% 0.5 – 99.0% 0.5 – 99.0% 0.5-3.0% 0.1-5.0% 0.1 -50.0% Present/absent 0.1 -5.0 %

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<b><u>LOCATION 2</u></b>				
		Free acidity	IS 4941 : 1994, MOHAFW Lab Manual 4	0.1-5.0%
<b>28.</b>	<b>CHEWING GUM/ BUBBLE GUM / HARD BOILED SUGAR CONFECT- IONARY</b>	Moisture Acid insoluble ash Gum base content Reducing Sugar sucrose Sulphated ash	MOHAFW MOHAFW Lab Manual 4 MOHAFW Lab Manual 4 MOHAFW Lab Manual 4 MOHAFW Lab Manual 4 MOHAFW Lab Manual 4	0.1 to 30.0% 0.01 to 20.0% 1.0 to 60.0% 1.0 to 25.0% 1.0 to 99.0% 0.1 to 20.0%
<b>29.</b>	<b>MILK TOFFEE/ BUTTER TOFFEE</b>	Total protein Fat content	MOHAFW Lab Manual 4 MOHAFW Lab Manual 4	0.1 to 30.0% 0.1 to 15%
<b>30.</b>	<b>LOZENGES</b>	Sucrose content	MOHAFW Lab Manual 4	20 – 95%
<b>31.</b>	<b>READY TO EAT SNACKS</b>	Protein Moisture Total ash Acid insoluble ash Crude fiber fat Free fatty acid Peroxide value	IS9487:1980(Reaff.2005) IS9487:1980(Reaff.2005) IS9487:1980(Reaff.2005) IS9487:1980(Reaff.2005) IS9487:1980(Reaff.2005) IS9487:1980(Reaff.2005) IS9487:1980(Reaff.2005) IS9487:1980(Reaff.2005)	0.2 – 60.0% 0.1 – 40.0% 0.1 – 30.0% 0.01 – 20.0 % 0.2 – 50.0% 0.2- 70.0% 0.1 – 15.0% 0.1 – 50.0meq/kg
<b>32.</b>	<b>NAMKEEN</b>	Protein fat Moisture B.R. of extracted fat sugar salt Total ash Acid insoluble ash	MOHAFW Lab Manual 3 IS 15271:2003 IS 15271:2003 MOHAFW Lab Manual 2 MOHAFW Lab Manual 4 MOHAFW Lab Manual 1 IS 15271:2003 IS 15271:2003	0 – 60.0% 1 – 70.0% 1.0 – 40.0% 30.0 – 80.0°c 1.0 – 40.0% 1.0 – 50.0% 0.1 -30.0% 0.01 – 20.0%

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<b><u>LOCATION 2</u></b>				
33.	<b>SWEETS</b>	Moisture sugar Identification of fat Total fat Acid insoluble ash	MOHAFW MOHAFW MOHAFW MOHAFW MOHAFW	1.0 -70.0% 2- 80% Present/absent 1.0 – 70.0% 0.01-20.0%
34.	<b>NUTRITIONAL VALUE IN FOOD</b>	Calorific value carbohydrate Moisture Fat Protein Sugar	Pearson's chemical analysis of foods MOHAFW MOHAFW MOHAFW MOHAFW MOHA FW	20 -1000 kcal 1.0 - 95.0% 0.1 – 80.0% 0.1 – 80.0% 0.1 – 80.0% 0 to 95%
35.	<b>NON ALCOHOLIC</b>	Sugar Content Arsenic Copper Lead Iron	IS 2346 :1992 (Reaffirmed 2009) IS 6854:1973 (Reaffirmed 2009) IS 6854:1973 (Reaffirmed 2009) IS 6854:1973 (Reaffirmed 2009) IS 6854:1973 (Reaffirmed 2009)	1.0 – 10.0 0.1 – 0.5ppm 0.1 – 5.0ppm 0.1 – 5.0ppm 0.1 – 5.0ppm
36.	<b>TEA AND TEA PRODUCTS</b>	Total ash Water soluble ash Acid soluble ash Alkalinity of water soluble ash Water extract Crude fiber Moisture	MOHAFW, Lab Manual 4 MOHAFW, Lab Manual 4 MOHAFW, Lab Manual 4 MOHAFW, Lab Manual 4 MOHAFW, Lab Manual 4 MOHAFW, Lab Manual 4 MOHAFW, Lab Manual 4	0.10-50.0% 0.10-80.0% 0.10-20.0% 0.10-20.0% 0.1 -90.0% 0.3 -50.0% 0.1-90.0%
37.	<b>CHEWING TOBACCO ZARDA</b>	Moisture Acid Insoluble ash Nicotine Content Purity of added silver leaves Total ash	IS : 9379:2008 IS 5643:1999(Reaffirmed 2009) IS 5643:1999(Reaffirmed 2009) IS :3110 IS 5643:1999(Reaffirmed 2009)	1.0 – 25.0% 0.1-10.0% 1.0 – 10.0% Upto 99.9% 5.0 – 35.0%

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<b><u>LOCATION 2</u></b>				
<b>38.</b>	<b>CATECHU</b>	Loss on drying	IS 4359 - 1967	1.0 to 50.0%
		Water insoluble residue	IS 4359 - 1967	1.0 to 60.0%
		Alcohol insoluble residue	IS 4359 - 1967	1.0 to 60.0
		Total ash	IS 4359 - 1967	0.1 to 50.0%
		Acid insoluble ash	IS 4359 - 1967	0.1 to 20.0%
		Catechin content	IS 4359 - 1967	1.0 to 90.0%
<b>39.</b>	<b>WATER/ EFFLUENT</b>	C.O.D	APHA: 5220-1998	>5 mg/l
		B.O.D	APHA: 5210 - B1998	>5 mg/l
		Oil/ Grease	IS: 3025 (P-44)-1998 APHA: 5220 - D1998	2-100 mg/l
		Sulphates	IS: 3025 (P-39)-1998 APHA: 4500 - E1998	10-1000 mg/l
		Chloride	IS: 3025 (P-24)-2000 APHA: 4500 - B1998	10-1000 mg/l
		Total Hardness	IS: 3025 (P-32)-1998 APHA: 2340 - C1998	2-1000 mg/l
		Solids	IS: 3025-1999 APHA: 2540 - 1998	10-5000 mg/l
		Suspended Solids	IS: 3025 (P-16)-1998 APHA: 2540 - 1998	5-100 mg/l
		pH	IS: 3025 (P-17)-1993 APHA: 4500 - 1998	0.1-13.9
		Total Alkalinity	IS: 3025 (P-2)-2002 APHA: 2320 - B1998	2-100 mg/l
		Nitrogen (Ammonia)	IS: 3025 (P-23)-1999 APHA: 4500 - B1998	4-100 mg/l
		Color	IS: 3025 (P-34)-1992 APHA: 2120 - B1998	5-50 Hazen units
		Turbidity	IS: 3025 (P-4)-1996 APHA: 2130 - B1998	1-100 NTU
			IS: 3025 (P-10)-1998	

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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>
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**LOCATION 2**

	Calcium as Ca		APHA: 3500 - B1998 IS: 3025 (P-40)-1996	2-100 mg/l
	Chromium		APHA: 3500 - 1998	0.5-50 mg/l
	Conductivity		APHA: 2510 - B1998 IS: 3025 (P-14)-2001	1-10000 micro omhos/ cm
	Cyanide as CN		APHA: 4500 - D1998 IS: 3025 (P-27)-1999	0.1-50 mg/l
	Fluoride as F		APHA: 4500 - D1998	0.1-10 mg/l
	Iron as Fe		APHA: 3500 Fe - B1998	1-100 mg/l
	Lead		APHA: 3500 - B1998 IS: 3025 (P-37)-1994	0.1-100 mg/l
	Manganese as Mn		APHA: 3500 - B1998	2-100 mg/l
	Magnesium as Mg		APHA: 3500 - B1998 IS: 3025 (P-36)-1994	4-100 mg/l
	Nitrite as NO <sub>2</sub>		APHA: 4500 - D1998	0.1-1000 mg/l
	Odour		APHA: 2150 - B1998 IS: 3025 (P-5)-1991	Qualitative
	Phosphate as PO <sub>4</sub>		APHA: 4500 - D1998	1-1000 mg/l
	Potassium		APHA: 3500 K - B1998 IS: 3025 (P-35)-1993	2-200 mg/l
	Volatile Residue		APHA: 2540 - 1998	0.1-5 mg/l
	Residual Free Chlorine		APHA: 4500 F - B1998 IS:3025 (P-26)-1998	1-100 mg/l
	Sodium as Na		APHA: 3500 Na - B1998 IS: 3025 (P-45)-1993	1-100 mg/l
	Silica as SiO <sub>2</sub>		APHA: 4500 Na - 1998 APHA: 5210 B1998	2-100 mg/l 5-50 mg/l
	Dissolved Oxygen		IS; 3025 (pt 38)-1989	1-10 ppm
	Bi carbonate		IS: 3025 (P-51)-2001	
	Boron		IS: 3025 (P-57)-2005	0.5-5 mg/l
	Aluminium		IS: 3025 (P-55)-2003	0.01-0.1 mg/l
	Cadmium		IS: 3025 (P-41)-1992	0.005-0.1 mg/l

**Laboratory** **Bharat Test House, 109, Anupam Bhawan, Azadpur, Delhi**  
**Location 1: 109, Anupam Bhawan, Azadpur, Delhi**  
**Location 2: No. 26, Wazirpur Industrial Area, Delhi**

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

**Field** **Chemical Testing** **Issue Date** **16.06.2011**

**Certificate Number** **T-0657** **Valid Until** **15.06.2013**

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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
<u>LOCATION 2</u>				
		Copper	IS: 3025 (P-42)-1992	0.005-0.1 mg/l
		Nitrate	IS: 3025 (P-34)-1988	0.01-100 mg/l
		Zinc	IS: 3025 (P-49)-1994	1-20 ppm
		Sulphide	IS: 3025 (P-29)-1986	0.01-0.1 ppm
		Phenolic Compound	IS: 3025 (P-54)-1964	0.0005-0.005mg/l
		Mercury	IS: 10500-1991	0.0005-0.005mg/l
		T D S	IS: 3025 (P-16)-1984	1-1000 ppm

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