

<b>Laboratory</b>	<b>SGS India Private Limited, 24/155554A, Aspinwell Building, Subramanian Road, Willingdon Island, Cochin</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>25.08.2013</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>
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#### **I. FOOD & AGRICULTURAL PRODUCTS**

<b>a) Tea</b>	Moisture		IS 3633-2003 Reaff.2008/ISO 3720-1986	0.50 -15%	
	Total ash		IS 3633-2003 Reaff.2008/ISO 3720-1986	0.50-10%	
	Water soluble ash		IS 3633-2003 Reaff.2008/ISO 3720-1986	20-85%	
	Acid insoluble ash		IS 3633-2003 Reaff.2008/ISO 3720-1986	0.02-4%	
	Crude fibre		IS 3633-2003 Reaff.2008/ISO 3720-1986	1-3%	
	Alkalinity of soluble ash		IS 3633-2003 Reaff.2008/ISO 3720-1986	0.50-20%	
	Water extract		IS 3633-2003 Reaff.2008/ISO 3720-1986	15-70%	
	Caffeine		AOAC 925.17	0.05-10%	
	Protein		AOAC 920.103	0.5-20%	
		<b>Heavy Metals:</b>			
		Lead		AOAC 972.25,999.11	1mg/kg-100 mg/kg
		Copper		AOAC 971.20,999.11	1mg/kg-500 mg/kg
		Zinc		AOAC 986.15,999.11	1mg/kg-20mg/kg
		Cadmium		AOAC 973.34,999.11	0.2mg/kg-20mg/kg
	Mercury		AOAC 971.21	0.1mg/kg-50mg/kg	
	Arsenic		IS 2088-1983 Reaff.2010/AOAC 952.13	0.5mg/kg-100mg/kg	
<b>b) Coffee</b>	Moisture		IS 3077-1992 Reaff.2004	0.5-20%	
	Total ash		IS 3077-1992 Reaff.2004	0.5-15%	
	Acid insoluble ash		IS 3077-1992 Reaff.2004	0.02-5%	
	Alkalinity of soluble ash		IS 3077-1992 Reaff.2004	0.1-20%	
	Water soluble matter		IS 3077-1992 Reaff.2004	0.05-10%	
	Caffeine		IS 3077-1992 Reaff.2004	0.05-20%	
	Petroleum ether extract		IS 3077-1992 Reaff.2004	1-30%	
	Solubility		IS 3077-1992 Reaff.2004	5 sec -20min	
		<b>Heavy Metals:</b>			
		Lead		AOAC 972.25,999.11	1mg/kg-100 mg/kg
		Copper		AOAC 971.20,999.11	1mg/kg-500 mg/kg
	Zinc		AOAC 986.15,999.11	1mg/kg-500 mg/kg	
	Cadmium		AOAC 973.34,999.11	0.2mg/kg-20 mg/kg	

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		Mercury	AOAC .971.21	1mg/kg-50mg/kg
		Arsenic	IS 2088-1983 Reaff.2010/ AOAC 952.13	1mg/kg-100mg/kg 1mg/kg 0.2mg/kg
<b>c)</b>	<b>Instant coffee</b>	Moisture	IS 2791 -1992	1-15%
		Total ash	IS 2791 -1992	1-20%
		Acid insoluble ash	IS 2791 -1992	0.02-5%
		Caffeine content	IS 2791 -1992	0.05-10%
		Solubility in boiling water	IS 2791 -1992	5sec-60sec
		Solubility in cold water	IS 2791 -1992	5sec-5min
		<b>Heavy Metals:</b>		
		Lead	AOAC 972.25,999.11	1mg/kg-100mg/kg
		Copper	AOAC 971.20,999.11	1mg/kg-500mg/kg
		Zinc	AOAC 986.15,999.11	1mg/kg-500mg/kg
		Cadmium	AOAC 973.34,999.11	0.5mg/kg-20mg/kg
		Mercury	AOAC 971.21	0.1mg/kg-50mg/kg
		Arsenic	IS 2088-1983 Reaff.2003/AOAC 952.13	0.1mg/kg-100mg/kg
<b>d)</b>	<b>Cocoa</b>	Moisture	IS 1164-1986 Reaff.2007	0.50-15%
		Total ash	IS 1164-1986 Reaff.2007	0.50-10%
		Acid insoluble ash	IS 1164-1986 Reaff.2007	0.02-5%
		Alkalinity of ash	IS 1164-1986 Reaff.2007	0.1-5%
		Fat	IS 1164-1986 Reaff.2007	0.1 mg/kg-2.5%
		Crude fibre	IS 1164-1986 Reaff.2007	0.1 mg/kg-30%
<b>e)</b>	<b>Sugar</b>	Moisture	IS 15279-2003 Reaff.2008	0.05-15%
		Sulphated ash	IS 15279-2003 Reaff.2008	1-100 mg/kg
		Polarisation	IS 15279-2003 Reaff.2008	1deg-105deg.
		Sulphur dioxide	IS 15279-2003 Reaff.2008	1-100 mg/kg

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f)	<b>Sea foods Fish Shrimp Cephalopods</b>	Sulphur dioxide Indole Salt pH	AOAC 962.16 AOAC 948.17 AOAC 937.09 Manual of analytical methods for fish and fishery products/AOAC .995.11	1-500mg/kg 0.1- 50mcg/100g 0.1-10% 1-14
		<b>Heavy Metals:</b>		
		Lead	AOAC 972.25,999.11	0.5mg/kg-100 mg/kg
		Copper	AOAC 971.20,999.11	1mg/kg-500 mg/kg
		Zinc	AOAC 986.15,999.11	1mg/kg-500 mg/kg
		Cadmium	AOAC 973.34,999.11	0.2mg/kg-20mg/kg
		Mercury	AOAC 971.21	0.1mg/kg-50mg/kg
		Arsenic	IS 2088-1983 Reaff.2010/ AOAC 952.13	0.2 mg/kg-100 mg/kg
g)	<b>Spices &amp;condiments (Pepper, Turmeric, Chillies, Ginger, coriander, Cumin, Cardamom, Fenugreek, Celery and garlic)</b>	Moisture Extraneous matter Total ash Acid insoluble ash Non volatile ether extract Cold water soluble extract  Alcohol soluble extract Volatile oil content Salt Crude fibre Light berries in pepper Starch content in turmeric Chromate test in turmeric Litre weight/Density Piperine content in pepper Curcumin content in turmeric ASTA colour	IS 1797-1985 Reaff.2003 IS 1797-1985 Reaff.2003 IS 1797-1985 Reaff.2003 IS 1797-1985 Reaff.2003 IS 1797-1985 Reaff.2003 IS 1797-1985 Reaff.2003  IS 1797-1985 Reaff.2003 IS 1797-1985 Reaff.2003 IS 1797-1985 Reaff.2003 IS 1797-1985 Reaff.2003 IS 1797-1985 Reaff.2003 IS 3576-2010 IS 1797 – 1985 Reaff.2003 AOAC 987.07 ASTA-4 <sup>th</sup> Ed.1997  ASTA 4 <sup>th</sup> Ed.1997	0.5-20% 0.01-10% 0.5-15% 0.02-8% 0.5-30% 0.1-20%  0.1-30% 0.1-15% 0.1-10% 0.1-40% 0.03-30% 0.1-80% Qualitative 100-800g/l 0.1-20% 0.1-20%  1units-200unit

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		<b>Heavy Metals:</b>		
		Lead	AOAC 972.25,999.11	1mg/kg-100 mg/kg
		Copper	AOAC 971.20,999.11	1mg/kg-500 mg/kg
		Zinc	AOAC 986.15,999.11	1mg/kg-500 m g/kg
		Cadmium	AOAC 973.34,999.11	1mg/kg-20mg/kg
		Mercury	AOAC 971.21	0.1mg/kg-50mg/kg
		Arsenic	IS 2088-1983 Reaff.2010/ AOAC 952.13	0.2mg/kg-100mg/kg
<b>h)</b>	<b>Nut &amp; Nut products (Cashew)</b>	Moisture	AOAC 925.40/ISO 665-2000(E)	0.5-20%
		Ash	AOAC 950.49	0.50-10%
		Acid insoluble ash	AOAC 941.12	0.02-10%
		Protein	AOAC 950.48	0.1-70%
		Oil	AOAC 948.22	0.1-70%
		FFA of extracted oil	IS 3579-1966 Reaff.2009/IS 548-1964 Reaff.2008	0.01-10%
		Rancidity	SGSIN/AGR/CCN/SOP/CS18	Qualitative
		Count	IS 7750-1975 Reaff.2008	Qualitative
		<b>Heavy Metals:</b>		
		Lead	AOAC 972.25,999.11	1mg/kg-100 mg/kg
		Copper	AOAC 971.20,999.11	1mg/kg-500 mg/kg
		Zinc	AOAC 986.15,999.11	2mg/kg-500 mg/kg
		Cadmium	AOAC 973.34,999.11	0.2mg/kg-20mg/kg
		Mercury	AOAC 971.21	0.1mg/kg-50mg/kg
		Arsenic	IS 2088-1983 Reaff.2010/ AOAC 952.13	0.5mg/kg-100 mg/kg

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i)	<b>Vegetable oils (Coconut oil, Palm oil, Mustard oil, sunflower oil &amp; Gingelly oil)</b>	Moisture Free fatty acid Iodine value Butyro refractometer reading at 40 deg.c. Saponification value Refractive index Acid value Unsaponifiable matter Volatile oil content Peroxide value	IS 548-1964 Reaff.2006/AOCS 5 <sup>th</sup> Ed. IS 548-1964 Reaff.2006/AOCS 5 <sup>th</sup> Ed. IS 548-1964 Reaff.2006/AOCS 5 <sup>th</sup> Ed. IS 548-1964 Reaff.2006/AOCS 5 <sup>th</sup> Ed. IS 548-1964 Reaff.2006/AOCS 5 <sup>th</sup> Ed. IS 548-1964 Reaff.2006/AOCS 5 <sup>th</sup> Ed. IS 548-1964 Reaff.2006/AOCS 5 <sup>th</sup> Ed. IS 548-1964 Reaff.2006/AOCS 5 <sup>th</sup> Ed. IS 1797-195 Reaff.2008 IS 548-1964 Reaff.2006/AOCS 5 <sup>th</sup> Ed.	0.1-15% 0.01-10% 2-300 1.200-1.700 1-350 1.200-1.700 0.1-15 0.1-10% 0.1-10% 0.01-10 meq/kg
j)	<b>Spice oils (mace oil, Pepper oil, Turmeric oil, Cinnamon leaf oil, Fennel oil, Clove oil and Nutmeg oil)</b>	Optical rotation Refractive index Specific gravity	IS 326 Part IV-2005 IS 326 Part V-2006 IS 548-1964 Reaff.2009	0.05-60 deg. 1.200-1.700 0.1-1.8
k)	<b>Oleoresin (ginger Or, Pepper Or., Coriander Or.&amp; Chilly Or.)</b>	Volatile oil Piperine content in pepper Residual solvent	IS 1797-1985 Reaff.2009 AOAC 987.07/ISO 5564-1982 (E) IS 5832-1984 Reaff.2007	0.1-60% 0.1-70% 0.1-300mg/kg
l)	<b>Cereals, Pulses and their products such as Maize, Wheat, Rice, Soya bean &amp; Flours</b>	Moisture Total ash Acid insoluble ash Crude fibre Gluten  Protein/Nitrogen Urease activity	AOAC 945.15, GAFTA 2003 method 2 AOAC 923.03, GAFTA 2003 method 12 AOAC 923.03, GAFTA 2003 method 12 AOAC 920.86, GAFTA 2003 method 10 IS 1009-1979-Reaff.2010/GAFTA 2003 method 34.1 GAFTA 2003 method 4 AOAC 945.15/GAFTA 2003 method 27	0.5-25% 0.5-10% 0.1-6% 0.1-20% 0.1-30%  0.1-60% 0.01-20mg/N/g

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		Fat	AOAC 920.85, 922.06/GAFTA 2003 method3	0.1-40%
<b>m)</b>	<b>Maida</b>	<b>Heavy Metals:</b>		
		Lead	AOAC 972.25,999.11	1mg/kg-100 mg/kg
		Copper	AOAC 971.20,999.11	1mg/kg-500mg/kg
		Zinc	AOAC 986.15,999.11	1mg/kg-500mg/kg
		Cadmium	AOAC 973.34,999.11	0.2mg/kg-20mg/kg
		Mercury	AOAC 971.21	0.1mg/kg-50mg/kg
		Arsenic	IS 2088-1983 Reaff.2010/ AOAC 952.13	0.5mg/kg-100mg/kg
		Moisture	IS 1009-1979 Reaff.2008	0.50-15%
		Total ash	IS 1009-1979 Reaff.2008	0.50-10%
		Acid insoluble ash	IS 1009-1979 Reaff.2008	0.1-10%
		Gluten	IS 1009-1979 Reaff.2008	0.1-40%
		Alcoholic acidity	IS 1009-1979 Reaff.2008	0.01-10%
<b>n)</b>	<b>Animal feeds from (soya, Rice bran, Fish meal, dried fish)</b>	Moisture	IS 7874 Part 1-1975 Reaff.1990	0.5-15%
		Total ash	IS 7874 Part 1-1975 Reaff.1990	0.5-20%
		Acid insoluble ash	IS 7874 Part 1-1975 Reaff.1990	0.1-10%
		Protein	IS 7874 Part 1-1975 Reaff.1990	0.1-70%
		Fat	IS 7874 Part 1-1975 Reaff.1990	0.1-20%
		Crude fibre	IS 7874 Part 1-1975 Reaff.1990	0.1-25%
		<b>Heavy Metals:</b>		
		Lead	AOAC 972.25,999.11	1mg/kg-100mg/kg
		Copper	AOAC 971.20,999.11	1mg/kg-500mg/kg
		Zinc	AOAC 986.15,999.11	1mg/kg-500mg/kg
		Cadmium	AOAC 973.34,999.11	0.2mg/kg-20mg/kg
		Mercury	AOAC 971.21	0.1mg/kg-50mg/kg
		Arsenic	IS 2088-1983 Reaff.2010/ AOAC 952.13	0.2mg/kg -100mg/kg

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o)	<b>Alcoholic beverages (Brandy, Rum, Whisky &amp; Beer)</b>	Residue on evaporation Total ash Volatile acid as acetic acid Ester of ethyl acetate Higher alcohols as amyl Aldehydes Methyl alcohol Ethyl alcohol Total acidity	IS 3752-2005 IS 3752-2005 IS 3752-2005 IS 3752-2005 IS 3752-2005 IS 3752-2005 IS 3752-2005 IS 3752-2005 IS 3752-2005	0.01-10% 0.50-10% 0.1-300g/100L 0.1-400g/100L 0.1-700g/100L 0.1-60g/100L 0.1-150g/100L 0.01-80% w/v 1-300g/100L
<b>II. ESSENTIAL OILS</b>				
a.	<b>ESSENTIAL OILS Essential oils (Sandalwood oil Palmarossa oil Lemongrass Oil Citronella oil Davana oil &amp; Vetivert oil)</b>	Optical rotation Refractive index Relative density Free alcohols Esters Ester value Solubility in alcohol Saponification value Acid value Total alcohols as vetiverol Citral content in lemongrass oil	IS 326 Part IV-2005 Reaff.2009 IS 326 Part V-2006 IS 326 Part III-2006 IS 326 Part IX-1980 Reaff.2006 IS 326 Part VIII-2005 Reaff.2009 IS 326 Part VIII-2005 Reaff.2009 IS 326 Part VI-2005 Reaff.2009 IS 326 Part VIII-2005 Reaff.2009 IS 326 Part VII-2006 IS 326 Part VIII-2006 IS 326 Part XI 1986 Reaff.2005	-30±60 °C 1.200-1.700 0.1-1.8 0.1-100% 0.1-60% 0.1-300 Qualitative 0.1-150 0.1-50 0.1-90% 0.1-97%
<b>III. WATER</b>				
a.	<b>Water Drinking water</b>	Colour  Odour  Taste  Turbidity	IS 3025(Part 4)-1983,RA 2006/APHA 21 <sup>st</sup> Ed.2120B  IS 3025(Part 5)-1983, RA 2006  IS 3025 Part (7& 8)-1984, RA 2006  IS 3025(Part10)-1984,RA 2002/A PHA21 <sup>st</sup> Ed.2130B	1-100 pt Colour units  Qualitative  Qualitative  0.4 -50NTU

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		Total dissolved solids	IS 3025(Part16)-1984,RA2006/ APHA 21 <sup>st</sup> Ed.2540B&C	10-2000mg/l
		pH	IS 3025(Part 11)-1983,RA2006/ APHA 21 <sup>st</sup> Ed.4500H <sup>+</sup> B	1-14
		Iron	IS 3025 (Part 53):2003, RA 2009/ APHA 21 <sup>st</sup> Ed.3120B	0.1-20 mg/l
		Nitrate	IS 3025(Part 34)-1998,RA 2009/ APHA 21 <sup>st</sup> Ed.4500NO <sub>3</sub> <sup>-</sup> B	0.1-5.0mg/l
		Chloride	IS 3025 Part 32-1988,RA 2009/ APHA 21 <sup>st</sup> Ed.4500Cl <sup>-</sup> B	1 -500mg/l
		Sulphate	IS 3025(Part 24)-1986,RA 2009/ APHA 21 <sup>st</sup> Ed.4500 SO <sub>4</sub> <sup>2-</sup> E	10-500mg/l
		Alkalinity	IS 3025(Part 23)-1986,RA 2003/ APHA 21 <sup>st</sup> Ed.2320B	0.05-500 mg/l
		Calcium	IS 3025(Part 40)-1991,RA 2009/ APHA 21 <sup>st</sup> Ed.3500 Ca <sup>2+</sup> B	1-500 mg/l
		Sodium	IS 3025(Part 45)-1993,RA 2009/ APHA 21 <sup>st</sup> Ed.3120B	1 -500mg/l
		Residual free chlorine	IS 3025(Part 26)-1986,RA 2003	0.1-10mg/l
		Total suspended solids	IS 3025 Part 17-1996/ APHA 21 <sup>st</sup> Ed.2005	5-500mg/l
		Total hardness	IS 3025 (Part 21)-2002/ APHA 21 <sup>st</sup> Ed.2340C	5-3000mg/l



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b.	Waste Water	Total dissolved solids	IS 3025 Part16-1984,RA 2006/ APHA 21 <sup>st</sup> ED.2540B&C	Min 5 mg/l and above
		pH	IS 3025(Part 11)-1983, RA 2006/ APHA 21 <sup>st</sup> ED 4500H <sup>+</sup> B	1-14
		Chloride	IS 3025(Part 32)-1988,RA 2009/ APHA 21 <sup>st</sup> Ed.4500Cl <sup>-</sup> B	5-5000 mg/l
		Sulphate	IS 3025(Part 24)-1986,RA 2009/ APHA 21 <sup>st</sup> Ed.4500 SO <sub>4</sub> <sup>2-</sup> E	10mg/l-5000 mg/l
		Alkalinity	IS 3025(Part 23)-1986,RA 2003/ APHA 21 <sup>st</sup> Ed.2320B	0.05-500mg/l
		Calcium	IS 3025(Part 40)-1991,RA 2009/ APHA 21 <sup>st</sup> Ed.3500 Ca <sup>2+</sup> B	10-5000mg/l
		Sodium	IS 3025(Part 45)-1993,RA 2009/ APHA 21 <sup>st</sup> Ed.3120B	1-5000 mg/l
		Total suspended solids	IS 3025 Part 6-1996/ APHA 21 <sup>st</sup> Ed.2005	0.1-10 mg/l
		Total hardness	IS 3025 (Part 21)-2002/ APHA 21 <sup>st</sup> Ed.2340C	2-3000mg/l
	Oil and Grease	IS 3025 Part 39-1996/ APHA 21 <sup>st</sup> Ed.2005	0.5-1000mg/l	

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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>
		BOD	IS 3025 Part 44-1993/ APHA 21 <sup>st</sup> .Ed.2005	Min 5mg/l and above
		COD	IS 3025 Part 58-2006/ APHA 21 <sup>st</sup> Ed.	Min 5mg/l and above

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