

Laboratory	Precision Quality Services, H-8, Mansarovar Industrial Area, Mansarovar, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.01.2014
Certificate Number	T-2807	Valid Until	30.01.2016
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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
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I. FOODS & AGRICULTURAL PRODUCTS

1. Cereals, Pulses & Products

a. Whole Grain	Foreign Matter	IS:4333 (Part 1):1996; Reaff 2012	0.01 % to 10%
	Damaged & Discolored	IS:4333 (Part 1):1996; Reaff 2012	0.01 % to 10%
	Immature & Shriveled	IS:4333 (Part 1):1996; Reaff 2012	0.01 % to 10%
	Broken	IS:4333 (Part 1):1996; Reaff 2012	0.01 % to 10%
	Other crop seed	IS:4333 (Part 1):1996; Reaff 2012	0.01 % to 5%
	Bulk Density	IS:4333 (Part 3):2002/ ISO 7971-2:1995; Reaff 2012	400g/l & above
	Moisture	IS:4333 (Part)2002/ ISO 712:1998; Reaff 2012	0.1 % to 25%
b. Splits (Pulses)	Foreign Matter	IS:4333 (Part 1):1996; Reaff 2012	0.01 % to 10%
	Damaged & Discolored	IS:4333 (Part 1):1996; Reaff 2012	0.01 % to 10%
	Immature & Shriveled	IS:4333 (Part 1):1996; Reaff 2012	0.01 % to 10%
	Broken	IS:4333 (Part 1):1996; Reaff 2012	0.01 % to 10%
	Other crop seed	IS:4333 (Part 1):1996; Reaff 2012	0.01 % to 5%
	Bulk Density	IS:4333 (Part 3):2002/ ISO 7971-2:1995; Reaff2012	400g/l & above

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	Splits (Pulses)	Moisture	IS:4333 (Part 2):2002/ ISO712:1998; Reaff 2012	0.1 % to 25%
c.	Wheat Atta	Moisture	IS:1155-1968	0.1 % to 20%
		Granularity	IS:1155-1968	0.1% & above passing through a sieve of 600 micron (Satisfactory/Unsatisfactory)
		Gluten Content	IS:1155-1968	0.1 % to 20%
		Alcoholic Acidity	IS:1155-1968	0.05 % to 5%
		Total Ash	IS:1155-1968	0.01 % to 10%
		Acid Insoluble Ash	IS:1155-1968	0.01 % to 5%
		Crude Fibre	IS:1155-1968	0.1 % to 10%
d.	Maida	Moisture	IS:1009-1979; Reaff 2010	0.1 % to 20%
		Granularity	IS:1009-1979;Reaff 2010	0.1% & above passing through a sieve of pore size 0.18mm (Satisfactory/Unsatisfactory)
		Gluten Content	IS:1009-1979; Reaff 2010	0.1 % to 20%
		Alcoholic Acidity	IS:1009-1979; Reaff 2010	0.05 % to 5%
		Total Ash	IS:1009-1979; Reaff 2010	0.01 % to 10%

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	Maida	Acid Insoluble Ash	IS:1009-1979; Reaff 2010	0.01 % to 5%
e.	Suji	Moisture	IS:1010-1968; Reaff 2010	0.1 % to 20%
		Particle size	IS:1010-1968; Reaff 2010	Qualitative Test
		Alcoholic Acidity	IS:1010-1968; Reaff 2010	0.05 % to 5%
		Total Ash	IS:1010-1968; Reaff 2010	0.01 % to 10%
		Acid Insoluble Ash	IS:1010-1968; Reaff 2010	0.01 % to 5%
		Gluten Content	IS:1010-1998; Reaff 2010	0.1 % to 20%
f.	Besan	Moisture	IS:1009-1979; Reaff 2010	0.1 % to 20%
		Total Ash	IS:1009-1979; Reaff 2010	0.01 % to 10%
		Acid Insoluble Ash	IS:1009-1979; Reaff 2010	0.01 % to 5%
g.	Papad	Moisture	IS 2639:1999; Reaff 2010	0.1 % to 20%
		Total Ash	IS 2639:1999; Reaff 2010	0.01 % to 10%
		Acid Insoluble Ash	IS 2639:1999; Reaff 2010	0.01 % to 5%
		pH of water extract	IS 2639:1999; Reaff 2010	1 pH to 14 pH
		Alkalinity of Ash	IS 2639:1999; Reaff 2010	0.1 % to 5%
		Fat	IS 2639:1999; Reaff 2010	0.1 % to 10%
		Crude Fibre	IS 2639:1999; Reaff 2010	0.1 % to 10%

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2.	Spices & Condiments			
a.	Whole	Foreign Matter	IS:1797-1985;Reaff 2009	0.01 % to 10%
		Damaged & Discolored	IS:4333 (Part 1):1996; Reaff 2012	0.01 % to 10%
		Immature & Shriveled	IS:4333 (Part 1):1996; Reaff 2012	0.01 % to 10%
		Other crop seed	IS:4333 (Part 1):1996;Reaff 2012	0.01 % to 5%
		Total Ash	IS:1797-1985; Reaff 2009	0.01 % to 10%
		Acid Insoluble Ash	IS:1797-1985; Reaff 2009	0.01 % to 5%
		Moisture	IS:1797-1985; Reaff 2009	0.1 % to 15%
		Volatile Oil	IS:1797-1985; Reaff 2009	0.1 % to 25%
b.	Ground	Total Ash	IS:1797-1985; Reaff 2009	0.01 % to 10%
		Acid Insoluble Ash	IS:1797-1985; Reaff 2009	0.01 % to 5%
		Moisture	IS:1797-1985; Reaff 2009	0.1 % to 15%
		Volatile Oil	IS:1797-1985; Reaff 2009	0.1 % to 25%
3.	Honey	Specific Gravity	IS 4941:1994	1.30 to 1.44
		Moisture (Refractometer Method)	IS 4941:1994	13 % to 25%
		Total Reducing Sugar	IS 4941:1994	65 % to 75%
		Sucrose	IS 4941:1994	1 % to 10%

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	Honey	Fructose to Glucose Ratio	IS 4941:1994	0.5 to 2
		Acidity (expressed as formic acid)	IS 4941:1994	0.05 % to 0.25%
		Fiehe's Test	IS 4941:1994	Positive/Negative
		HMF	IS 4941:1994	15 mg/kg to 100 mg/kg
4.	Fruits & Vegetable Products			
a.	Chutney	pH	IS:2860-1964	1 pH to 14 pH
		Titration Acidity	IS:2860-1964	0.1 % to 5%
		TSS	IS:2860-1964	0 °brix to 80°brix
		Salt Content	IS:2860-1964	1 % to 20%
b.	Canned Food	Vacuum	IS:2860-1964	NA
		Head Space	IS:2860-1964	0.1 cm to 2cm
		Can Condition/ Appearance	IS:2860-1964	Satisfactory/ Not satisfactory
		Drained Weight	IS:2860-1964	NA
		pH	IS:2860-1964	1 to 14 pH
		Syrup Volume	IS:2860-1964	NA
		Salt % of Brine	IS:2860-1964	1 % to 10%

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5.	Oils & Fats			
a.	Vegetable Edible Oil	Moisture	IS:548(Part 1)-1964; Reaff 2010	0.01 % to 2%
		Color by Tintometer	IS:548(Part 1)-1964; Reaff 2010	0.1 to 100 color unit
		Specific Gravity	IS:548(Part 1)-1964; Reaff 2010	0.901 to 0.920
		Acid Value/FFA	IS:548(Part 1)-1964; Reaff 2010	0.1 to 6
		Unsaponifiable Matter	IS:548(Part 1)-1964; Reaff 2010	0.5 % to 10%
		Saponification Value	IS:548(Part 1)-1964; Reaff 2010	100 to 250
		Refractive Index	IS:548(Part 1)-1964; Reaff 2010	1.4400 to 1.4895
		Iodine Value	IS:548(Part 1)-1964; Reaff 2010	1 to 170
		Bellier's Turbidity Test	IS:548(Part 2)-1974	15°C to 50°C
		Flash Point	IS:1448	up to 300°C
		Argemone Test	IS:548(Part 2/Sec 20)-1983; Reaff 2010	Positive/Negative
b.	Cow Ghee	Moisture	IS:548(Part 1)-1964; Reaff 2010	0.01 % to 1%
		Acid Value/FFA	IS:548(Part 1)-1964; Reaff 2010	0.1 % to 3%
		Refractive Index	IS:548(Part 1)-1964; Reaff 2010	38 to 46 BR Reading

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II. Water				
1.	Drinking Water	pH Value	IS:3025(Part 11)-1983; Reaff 2002	1 to 14 pH
		Color	IS:3025(Part 4)-1983; Reaff 2002	0.5 Hazen Unit to 15 Hazen Unit
		Odour	IS:3025(Part 5)-1983; Reaff 2002	Agreeable/ Not agreeable
		Turbidity	IS:3025(Part 10)-1984; Reaff 2002	less than 1 NTU to 20 NTU
		Filterable Residue (Total Dissolved Solids)	IS:3025 (Part 16)-1984; Reaff 2006	1 mg/l to 2000 mg/l
		Hardness	IS:3025(Part 21):2009	1 mg/l to 500 mg/l
		Alkalinity	IS:3025(Part 23)-1986; Reaff 2003	1 mg/l to 500 mg/l
		Chlorine- Residual	IS:3025(Part 26)-1986; Reaff 2003	0.01 mg/l to 1 mg/l
		Chloride	IS:3025(Part 32)-1988; Reaff 2003	1 mg/l to 1000 mg/l
		Sulphate	IS:3025(Part 24)-1986; Reaff 2003	1 mg/l to 200 mg/l
		Calcium	IS:3025(Part 40):1991	1 mg/l to 100 mg/l
		Copper	IS:3025(Part 42):1992	0.05 mg/l to 2.0 mg/l
		Fluoride	IS:3025(Part 60):2008	0.001 mg/l to 2 mg/l
		Iron	IS:3025(Part 53):2003	0.001 mg/l to 3 mg/l