

Laboratory	Cotecna Inspection India Pvt. Ltd. "Prosperity", 1st Floor, Unit No.101 & 201, Plot No.186-208, Sch.No.114-Part I, A.B. Road, Indore, Madhya Pradesh		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	05.07.2016
Certificate Number	T-2988	Valid Until	04.07.2018
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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	FOOD & AGRICULTURAL PRODUCTS			
1.	Animal Feed	Moisture Content	GAFTA 130-2:1(2014)	2.0 % to 18 %
		Sand /Silica	GAFTA 130-12:0(2014)	0.2 % to 12 %
		Crude Protein	GAFTA 130-4:1(2014)	5.0 % to 65 %
		Crude Fibre	GAFTA 130-9:0(2014)	1.0 % to 30 %
		Oil Content	GAFTA 130-3:0(2014)	0.2 % to 10 %
		Total Ash	GAFTA 130-11:0(2014)	0.5 % to 1.0 %
		Protein Solubility 0.2 % KOH	SOPA/SM/10/2001 Issue. 01, Issue Dated. 28.07.16	60 to 90
		Nitrogen Solubility Index	AOCS Ba 11-65: 1997	15 to 70
	Product Derived from Soya (having Crude Fat Less Than 10 %)	Urease Activity	GAFTA 130-22:0(2014)	0.05 mgN/g/min to 1.0 mgN/g/min at 30°C
	Full fat Soya Flour	Urease Activity	IS 7837: 1975 (RA 2010) Amd. 1 Clause. A-2.1	0.3 to 3.0
2.	Cereals Pulses and by products			
	(a) Wheat Flour, Atta, Suji, Rawa, Besan	Moisture Content (Wheat Flour)	IS 1155: 1968 (RA 2010) Amd. 3	2.0 % to 25 %
		Moisture Content (Besan & Maida)	IS 1009: 1979 (RA 2010) Appendix A	2.0 % to 25 %

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	(a) Wheat Flour, Atta, Suji, Rawa, Besan	Moisture Content (Suji / Rawa/ Semolina)	IS 1010: 1968 (RA 2005) Appendix B	2.0 % to 25 %
		Ash	GAFTA 130 11-0: 2014, IS 1155: 1968 (RA 2010) Amd. 3	0.2 % to 2.0 %
		Acid Insoluble Ash	GAFTA 130 12-0: 2014, IS 1155: 1968 (RA 2010) Amd. 3	0.05 % to 2.0 %
		Crude Protein	GAFTA 130 4-1: 2014, IS 1155: 1968 (RA 2010) Amd. 3	5 % to 45.0 %
		Crude Fibre	GAFTA 130 9-0-2014, IS 1155: 1968 (RA 2010) Amd. 3	0.2 % to 2.0 %
		Alcoholic Acidity	DGHS Lab Manual 3: 2005, IS 1155: 1968 (RA 2010) Amd. 3 IS 2400: 1975 (RA 2010)	0.01 % to 5 %
		Wet Gluten	IS 8162: 1998 (RA 2009) DGHS Lab Manual 3: 2005	15 % to 40 %
		Gluten (on dry basis)	DGHS Lab Manual 3: 2005, IS 1155: 1968 (RA 2010)	2 % to 15 %
	(b) Food Grain	Moisture Content	IS 4333 (Part 2): 2002 (RA 2012) ISO 6540: 1980 (maize) GAFTA 130-2:2 (2014)	2.0 % to 25 %
		Foreign Matter	IS 4333 (Part 1): 1996 (RA 2012)	0.01 % to 25 %
		Other Food Grain	IS 4333 (Part 1): 1996 (RA 2012)	0.01 % to 25 %

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	(b) Food Grain	Damaged	IS 4333 (Part 1): 1996 (RA 2012)	0.01 % to 25 %
		Discoloured	IS 4333 (Part 1): 1996 (RA 2012)	0.01 % to 25 %
		Insect Damaged	IS 4333 (Part 1): 1996 (RA 2012)	0.01 % to 25 %
		Broken	IS 4333 (Part 1): 1996 (RA 2012)	0.01 % to 25 %
		Slightly damaged / touched	IS 4333 (Part 1): 1996 (RA 2012)	0.01 % to 25 %
		Chalky (Rice)	IS 4333 (Part 1): 1996 (RA 2012)	0.01 % to 25 %
		Red Grains	IS 4333 (Part 1): 1996 (RA 2012)	0.01 % to 25 %
		Kernels with husk	IS 4333 (Part 1): 1996 (RA 2012)	0.01 % to 25 %
		Shrivilled / Immature (Wheat)	IS 4333 (Part 1): 1996 (RA 2012)	0.01 % to 25 %
		Weeviled	IS 4333 (Part 1): 1996 (RA 2012)	0.01 % to 25 %
		Varietal Admixture	IS 4333 (Part 1): 1996 (RA 2012)	0.01 % to 25 %

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	(b) Food Grain	Paddy (Rice)	ISO 7301: 2002	0.01 % to 25 %/Kg
		Worm Eaten	ISO 605: 1991	0.01 % to 25 %
		Smooth	USDA/FGIS: 1998	0.01 % to 25 %
		Split Kernels	IS 4333 (Part 1): 1996 (RA 2012)/	0.01 % to 25 %
		Stained	Codex standard 171: 1989	0.01 % to 25 %
		Aborted (Immature)	Codex standard 171: 1989	0.01 % to 25 %
		Weight of 1000 Kernel	IS 4333 (Part 4): 2002 (RA 2009)	20 g to 50 g
	(c) Beans	Count per ounce	SOP-COT/SOP/OPR/15 Issue. 01, Issue Dated. 28.07.16	38 to 80
3.	Oil Seed	Moisture Content	IS 3579: 1966 (RA 2000) Amd. 1 Clause. 5.1	0.01 % to 20 %
		Damaged	IS 3579: 1966 (RA 2000) Amd. 1 Clause. 4	0.01 % to 10 %
		Weeviled	IS 3579: 1966 (RA 2000) Amd. 1 Clause. 4	0.01 % to 10 %
		Shrivilled /Immature	IS 3579: 1966 (RA 2000) Amd. 1 Clause. 4	0.01 % to 10 %
		Split Kernels	IS 3579: 1966 (RA 2000) Amd. 1 Clause. 4	0.01 % to 10 %

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	Oil Seed	Broken Kernels	IS 3579: 1966 (RA 2000) Amd. 1 Clause. 4	0.01 % to 10 %
		Impurities	IS 3579: 1966 (RA 2000) Amd. 1 Clause. 4	0.01 % to 10 %
		Oil content	IS 3579: 1966 (RA 2000) Amd. 1 Clause. 5.2	5 % to 50 %
		Acid Value of extracted oil	IS 3579: 1966 (RA 2010) Amd. 1 Annexure C	0.10 to 5 (mg KOH)
4.	Food Grade Lecithin	Moisture	IS 5055 : 1996 (RA 2009) Amd. 1 Annexure C	0.01 % to 1 %
		Hexane Insoluble Matter	AOCS ja 3-87 (RA 2010) Amd. 1	0.01 % to 1 %
		Benzene Insoluble Matter	IS 5055: 1996 (RA 2009) Amd. 1 Annexure E	0.01 % to 0.30 %
		Acid Value	IS 5055: 1996 (RA 2009) Amd. 1 Annexure F	15 % to 50 %
		Peroxide Value	AOCS cd B-53: 1997	0.1 meq/kg to 1 meq/kg
		Viscosity	AOCS (6 th Edition) Ja 10-87 (09)	4000 to 15000 centipoises
5.	Spices	Moisture Content	IS 1797: 1985 (RA 2009) Amd. 2 Clause. 9	1.00 % to 30.0 %
		Extraneous Matter	IS 1797: 1985 (RA 2009) Amd. 2 Clause. 4	0.01 % to 10 %

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6.	Oil & Fats	Moisture Content	IS 548 (Part 1): 1964 (RA 2010) Amd. 5 Clause. 5.1	0.5 % to 2.00 %
		Acid Value	IS 548 (Part 1): 1964 (RA 2010) Amd. 5 Clause. 7	0.1 % to 40.0 %
		Peroxide Value	IS 548 (Part 1): 1964 (RA 2010) Amd. 5	0.20 milli eg/kg to 20.0 milli eg/kg
		Iodine Value	IS 548 (Part 1): 1964 (RA 2010) Amd. 5 Clause. 14	10 to 180
		Colour	IS 548 (Part 1): 1964 (RA 2010) Amd. 5 Clause. 13	1 to 90
		Free Fatty Acids	IS 548 (Part 1): 1964 (RA 2010) Amd. 5 Clause. 17	0.1 % to 25.0 %
		Refractive Index	IS 548 (Part 1): 1964 (RA 2010) Amd. 5 Clause. 10	1.3000 to 1.7000
7.	Sugars & Sugar Products	Loss on drying	IS 15279: 2003 (RA 2008) Amd. 1 DGHS Manual 4: 2005,7.2	0.02 % to 20 %
8.	Tea & Tea Products	Loss in mass (at 103°C)	DGHS Manual 4: 2005	1.0 % to 40 %
		Total Ash	DGHS Manual 4: 2005	0.1 % to 40 %
		Acid Insoluble Ash	DGHS Manual 4: 2005	0.1 % to 10 %
		Crude Fiber	DGHS Manual 4: 2005	2.01 % to 40 %
		Water Extract	DGHS Manual 4: 2005	0.1 % to 50 %

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	Tea & Tea Products	Water-Soluble Ash	DGHS Manual 4: 2005	0.5 % to 98 %
		Alkalinity of water soluble ash	DGHS Manual 4: 2005	0.1 % to 5 %
9.	Milk & Milk Products	Moisture	DGHS Lab Manual 1: 2005	0.1 % to 98 %
		Total Solids	DGHS Lab Manual 1: 2005	0.5 % to 95 %
		Milk Protein	DGHS Lab Manual 1: 2005	0.5 % to 80 %
		Ash	DGHS Lab Manual 1: 2005	0.1 % to 30 %

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