Madhya Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number Page 1 of 5 TC-7579 (in lieu of T-2988)

Validity 05.07.2018 to 04.07.2020 Last Amended on 12.07.2018

SI.	Product / Material	Specific Test	Test Method Specification	Range of Testing /	
	of Test	Performed	against which tests are	Limits of Detection	
			performed		

CHEMICAL TESTING

I.	ANIMAL FOOD AND FEED			
	<u> </u>	F		
1.	Soyabean DOC	Moisture content	Gafta 130-2:1 (2018)	2.0 % to 18 %
	(De Oiled Cake)	Sand and silica	Gafta 130-12:0 (2018)	0.2 % to 12 %
	Cotton Seed DOC	Crude protein	Gafta 130-4:1 (2018)	5.0 % to 65 %
<u> </u>	(De Oiled Cake)	Crude fibre	Gafta 130-9:0 (2018)	1.0 % to 30 %
<u> </u>	Cotton Cake	Oil content	Gafta 130-3:0 (2018)	0.2 % to 10 %
<u> </u>	(De Oiled Cake)	Total Ash	Gafta 130-11:0 (2018)	0.5 % to 1.0 %
	Mustard DOC	Protein solubility 0.2 %	ISO 14244:2014	60 to 90
	(De Oiled Cake)	KoH		
	Mustard Cake	Nitrogen solubility index	AOCS Ba 11-65 2017	15 to 70
	Rapseed DOC	Urease activity	Gafta 130-21:0 (2018)	0.05 to 1.0 mgN/gm/min at
	(De Oiled Cake)	·	Cl A-2.1 of IS 7837:1975	30 °C
	Soya Flour		(RA 2010) Amnd 1	0.3 to 3.0
	Soya Flaks		,	
	De oiled Rice			
	Bran			
II.	FOOD AND AGRICU	ILTURAL PRODUCTS		
1.	Cereal Pulses & Cer	real Products		
a.	Wheat Flour, Atta, Suji, Rawa, Besan	Moisture	IS 1155:1968 (RA 2010) Amnd 3	2.0 % to 25 %
	Suji, Kawa, Desaii			
			Appendix A of	
			IS 1009:1979 (RA 2010)	
			Appendix B of	
		A = b	IS 1010:1968 (RA 2005)	0.00% to 0.00%
		Ash	Gafta 130-11:0 (2018)	0.2 % to 2.0 %
			IS 1155:1968 (RA 2010)	
Il		<u> </u>	Amnd 3	<u> </u>

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		Acid insoluble ash	Gafta 130-12:0 (2018) IS 1155:1968 (RA 2010) Amnd 3	0.05 % to 2.0 %
		Crude protein	Gafta 130-4:1 (2018) IS 1155:1968 (RA 2010) Amnd 3	5 % to 45.0 %
		Crude fibre	Gafta 130-9:0 (2018) IS 1155:1968 (RA 2010) Amnd 3	0.2 % to 2.0 %
		Alcoholic acidity as H2SO4	IS 1155:1968 (RA 2010) Amnd 3 IS 2400:1975 (RA 2010)	0.01 % to 5 %
		Wet Gluten	IS 8162:1998 (RA 2009)	15 % to 40 %
		Gluten (on dry basis)	IS 1155:1968 (RA 2010)	2 % to15 %
2.	Food Grain- Maize, Wheat, Chick Peas, Rice,	Moisture content	IS 4333 (Part 2): 2017 ISO 712:2009 ISO 6540:1980	2.0 % to 25 %
•••••	Barley, Soyabean Seed, Sorghum,	Foreign matter	IS 4333 (Part 1): 1996 (RA 2012)	0.01 % to 25 %
	Paddy, Oats. Millets. Bajra, Red	Other food grain	IS 4333 (Part 1): 1996 (RA 2012)	0.01 % to 25 %
	Gram, Bengal Gram, Lentil, Pea,	Damaged	IS 4333 (Part 1): 1996 (RA 2012)	0.01 % to 25 %
	Mung, Green Gram	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 or touched	IS 4333 (Part 1): 1996 (RA 2012)	0.01 % to 25 %
		Chalky (in case of rice)	ISO 7301:2002	0.01 % to 25 %

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		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 or 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 %
		Paddy/kg (in case of rice)	ISO 7301:2002	0.01 % to 25 %
		Worm eaten	ISO 605:1991	0.01 % to 25 %
		Smooth	IS 4333 (Part 1): 1996 (RA 2012)	0.01 % to 25 %
		Split Kernels	IS 4333 (Part 1): 1996 (RA 2012)	0.01 % to 25 %
		Stained	QMS-PR-AGRI-LAB-TEC- 005-1.0 issued no-1.0 issued date-01/06/2018	0.01 % to 25 %
		Aborted (Immature)	IS 4333 (Part-1):1996 (Reaff 2012)	0.01 % to 25 %
		1000 Kernel Weight	IS 4333:Part IV:2017	20 gm to 50 gm
		Count per Ounce	COT/SOP/OPR/15-1.0 issue no-1.0 issue date-01/06/2018	38 to 80
3.	Oilseed- Mustard	Moisture content	IS 3579:1966 (RA 2000)	0.01 % to 20 %
	Seed, Groundnut, Soybean, Cotton	Damaged	IS 3579:1966 (RA 2000) Cl. 4	0.01 % to 10 %
	Seed, Sunflower Seed, Rapeseed,	Weeviled	IS 3579:1966 (RA 2000) Cl. 4	0.01 % to 10 %
	Sesame Seed, Linseed,	Shrivilled or Immature	IS 3579:1966 (RA 2000) Cl. 4	0.01 % to 10 %

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	Safflower Seed	Split Kernels	IS 3579:1966 (RA 2000) Cl. 4	0.01 % to 10 %
		Broken Kernels	IS 3579:1966 (RA 2000) Cl. 4	0.01 % to 10 %
		Impurities	IS 3579:1966 (RA 2000) CI 4	0.01 % to 10 %
		Oil content	IS 3579:1966 (RA 2000) CI 5.2	5 % to 50 %
		Acid value of the extracted oil	IS 3579:1966 (RA 2010) Annex C	0.10 to 5 mgKoH
4.	Soya Lecithin	Moisture	IS 5055:1996 (RA 2009) Annex C	0.01 % to 1 % (by mass)
		Hexane insoluble matter	AOCS ja 3-87-2017	0.01 % to 1 %
		Benzene insoluble matter	IS 5055:1996 (RA 2009) Annex E & Amnd 1	0.01 % to 0.30 %
		Acid value	AOCS ja 6-55-2017	15 % to 50 %
		Peroxide value	AOCS ja 8-87-2017	0.1 Meq/kg to 1 Meq/kg
		Viscosity	AOCS Ja 10-87-2017	4000 centipoises to 15000 centipoises
5.	Herbs, Spices and	Condiments		
a.	Turmeric,	Moisture content	IS 1797:2017, cl 9	1.00 % to 30.0 %
	Coriander, Red Chili, Fennel Seed, Black Pepper, Cumin, Cloves, Fenugreek, Nigella Seed	Extraneous matter	IS 1797:2017, cl 9	0.01 % to 10 %
6.	Edible oils & fats			<u> </u>
a.	Crude Soyabean Oil, Refined	Moisture content	IS 548 (Part 1): 1964 (RA 2010) Cl. 5.1 Amnd 5	0.5 % to 2.00 %

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	Soyabean Oil, Cotton Seed Oil,	Acid value	IS 548 (Part 1): 1964 (RA 2010) Cl. 7 Amnd 5	0.1 % to 40.0 %
	Ground Nut Oil, Rice Bran Oil,	Peroxide value	IS 548 (Part 1): 1964 (RA 2010) Amnd 5	0.20 milli eg/kg to 20.0 milli eg/kg
	Acid Oil, Coconut Oil, Linseed Oil,	Iodine Value	IS 548 (Part 1): 1964 (RA 2010) Cl. 14 Amnd 5	10 to 180
	Mustard Oil, Palm Oil, Sunflower Oil	Free Fatty Acids	IS 548 (Part 1): 1964 (RA 2010) Cl. 17 Amnd 5	0.1 % to 25.0 %
7. a.	Sugars & Sugar Pro Row Sugar, Refined Sugar	Loss on drying	IS 15279:2003 (RA 2008) Amnd 1	0.02 % to 20 %
8.	Tea	 		
a.	Black Tea	Loss in mass at 103°c	IS 13853:1994 (RA 2009)	1.0 % to 40 %
		Total Ash	IS 13854:1994 (RA 2009)	0.1 % to 40 %
		Acid insoluble ash	IS 13857:1993 (RA 2009)	0.1 % to 10 %
		Crude Fiber	IS 16041:2012	2.01 % to 40 %
		Water extract	IS 13862:1999 (RA 2009)	0.1 % to 50 %
		Water-soluble ash of Total ash	IS 13855:1994 (RA 2009)	0.5 % to 98 %
		Alkalinity of water- soluble ash	IS 13856:1993 (RA 2009)	0.1 % to 5 %
9.	Milk & Dairy Produc	cts		
а.	Skimmed Milk Powder	Moisture	10.2 FSSAI manual milk and milk products 2016	1.0 % to 10 %
		Milk Protein	10.6 FSSAI manual milk and milk products 2016	15 % to 50 %
		Ash	10.7 FSSAI manual milk and milk products 2016	0.5 % to 10 %
		Total Solids	1.3.3 FSSAI manual milk and milk products 2016	90.0 % to 99 %

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