



Laboratory Agro Test Centre, Water Supply Complex, RIICO Agro Food Park,  
Phase-11, Udyog Vihar, Sriganganagar, Rajasthan

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6282

Page 2 of 11

Validity 18.09.2017 to 17.09.2019

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Total defects [ foreign matter, other edible grains, damaged kernel (other than infestation damaged), shrivelled/ broken grains]	IS 4333(Part 1)	By Calculation
		Hectolitre Weight	IS 4333(Part3)	60 kg/HL to 90 kg/HL
		Damaged Discoloured	IS 4333(Part 1)	0.1% to 20 %
		TCW (weight of thousand grains)	IS 4333(Part4)	30 g to 60 g
b.	Atta	Moisture	IS 1155	5 to 15%
		Total Ash	IS 1155	0.1 %to 2.5 %
		Acid insoluble ash	IS 1155	0.02% to 2 %
		Protein (N X 5.70)	IS 7219	5 %to 16%
		Dry Gluten	IS 1155	4% to 14%
		Alcoholic Acidity	IS 1155	0.01% to 5%
		Crude fiber	IS 10226 (Part 1) IS 1155	0.1 %to 10%
		Carbohydrates	IS 1656	By Calculation
		Fat	AOAC 922.06, 20 <sup>th</sup> Edition	0.1% to 5%
		Energy	IS 14433	By Calculation

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Phase-11, Udyog Vihar, Sriganganagar, Rajasthan**

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

Certificate Number **TC-6282**

Page 3 of 11

Validity **18.09.2017 to 17.09.2019**

Last Amended on --

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c.	Maida, Besan	Moisture	IS 1009	5% to 15%
		Total Ash	IS 1009	0.1% to 2%
		Acid insoluble ash	IS 1009	0.02% to 2%
		Protein (N X 5.70)	IS 7219	5% to 30%
		Dry Gluten	IS 1009	3 %to 17%
		Crude fiber	IS 10226 (Part 1)	0.1% to 10%
		Carbohydrates	IS 1656	By Calculation
		Fat	AOAC 922.06, 20 <sup>th</sup> Edition	0.1 %to 5%
		Alcoholic Acidity	IS 1009	0.05% to 0.5%
d.	Bombay Rawa, Suji	Moisture	IS 1010	5% to 15%
		Total Ash	IS 1010	0.5% to 2.5%
		Acid insoluble ash	IS 1010	0.02% to 0.5%
		Protein	IS 7219	4% to 13%
		Dry Gluten	IS 1010	3% to 12%
		Crude fiber	IS 10226 (Part 1)	0. %1 to 10%
		Carbohydrates	IS 1656	By Calculation
		Fat	AOAC 20 <sup>th</sup> edition 922.06	0.1% to 5%
		Alcoholic Acidity	IS 1010	0.05% to 0.5%
		Energy	IS 14433	1 Kcal per100g to 1000 Kcal per 100g

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6282

Page 4 of 11

Validity 18.09.2017 to 17.09.2019

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<b>2</b>	<b>Guar Seed and Products</b>			
<b>a.</b>	<b>Guar Seed</b>	Whitish seeds	IS 2813	20 %to 100 %
		Volatile matter/ Moisture	IS 7437	2 g/100g to 15 g/100g
		Foreign matter	IS 2813	0.1% to 10 %
		Damaged seeds	IS 2813	0.1% to 10 %
<b>b.</b>	<b>Guar gum</b>	Moisture/ Volatile matter	IS 7437	2 %to 15 %
		Foreign Particles ( All non gum particles)	IS 2813	0.1% to 5%
		Particle Size (pass through 14 mesh / 20 mesh	IS 2813	0.01% to 10 %
		Black, dark red and brown coloured splits	IS 2813	0.1% to 3 %
		Undehusked Splits	IS 2813	0.1% to 20 %
		Protein (Nx6.25)	IS 7437 IS 7219	1% to 15 %
		Residue Insoluble in acid	IS 3988	0.1 %to 7 %
		Total ash	IS 10502/ IS 7437	0.1v to2. 5%
		Gum Content	IS 7437	By Calculation
		pH (1% Aqueous Solution)	IS 7437	1 to 14

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Phase-11, Udyog Vihar, Sriganganagar, Rajasthan

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6282

Page 5 of 11

Validity 18.09.2017 to 17.09.2019

Last Amended on --

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<b>3.</b>	<b>Spices and Condiments</b>			
<b>a.</b>	<b>Turmeric Fingers</b>	Freedom from moulds and insect infestation	IS 3576	Qualitative (Visual)
		Moisture	IS 1797	5% to 20 %
		Defective Rhizomes	IS 3576	0.1% to 15%
		Extraneous Matter	IS 3576	0.01% to 10%
<b>b.</b>	<b>Turmeric Powder</b>	Moisture	IS 1797	8% to 20%
		Total Ash	IS 1797	1% to 10%
		Acid insoluble ash	IS 1797	0.02% to 2.5%
		Chromate	IS 3576	Qualitative
		Curcumin	ASTA Analytical Method 18.0	0.1 % to 10 %
<b>c.</b>	<b>Cumin Seeds</b>	Moisture	IS 1797	2 %to 15%
		Foreign matter	IS 2447	0.1% to 10 %
		Damaged Discoloured shriveled and Immature seeds	IS 2447	0.5% to 10%
		Insect damaged matter	IS 2447	0.1% to 20%

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Phase-11, Udyog Vihar, Sriganganagar, Rajasthan**

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

Certificate Number **TC-6282**

Page 6 of 11

Validity **18.09.2017 to 17.09.2019**

Last Amended on --

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d.	Chilli Whole	Moisture	IS 1797	1 %to 20%
		Extraneous matter	IS 2322	0.1 %to 10 %
		Unripened and marked and broken fruits	IS 2322	0.1% to 50 %
		Insect Damaged Matter	IS 2322	1 %to 50 %
		Color	IS 2322	Qualitative (Visual)
		Free from Moulds, insects	IS 2322	Qualitative (Visual)
e.	Chilli and chilli products	Moisture	IS 1797	6 %to 18%
		Total Ash	IS 1797	1 %to 10%
		Acid insoluble ash	IS 1797	0.02% to 2%
		Crude fibre	IS 1797	20 %to 40%
f.	Coriander Whole & Powder	Moisture	IS 2443	1 %to 20%
		Total Ash	IS 2443	2 %to 8%
		Acid insoluble ash	IS 2443	0.02% to 2%
		Crude fiber	IS 1797	20% to 40%
		Extraneous matter	IS 2443	0.1% to 10%
		Damaged Discolored & Shrivelled seeds	IS 2443	0.1% to 10%
		Weevilled seeds	IS 2443	0.1 to 10

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

Certificate Number **TC-6282**

Page 7 of 11

Validity **18.09.2017 to 17.09.2019**

Last Amended on --

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g.	Pepper	Moisture	IS 1797	1 %to 20%
		Light berries	IS 1798	0.1% to 5%
		Foreign matter	IS 1797	0.05% to 10%
4.	Oil Seeds and by-products			
a.	Castor Seed	Oil content	IS 3579	30% to 60 %
		Fotri (Husk) and damaged Seeds	IS 3579	0.1% to 10 %
		Sand, Silica and Stones	IS 3579	0.1% to 10 %
		Moisture	IS 3579	1% to 10%
b.	Soyabean	Foreign matter/ Impurities	IS 3579	0.1% to 10 %
		Green seeds	STP No. NCML-ATC/STP/001 Issue No.01; Issue date 25.11.2016	0.1% to 20 %
		Damaged Seeds	IS 3579	0.1% to 20 %
		Protein (N x 6.25)	IS 7219	5% to 50%
		Moisture	IS 3579	2 %to 15%
c.	Mustard Seeds	Moisture	IS 3579	1% to 10 %
		Oil Content	IS 3579	30% to 50 %
		Free fatty acid (as oleic acid)	IS 548 (Part-1)	0.1% to 3 %

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6282

Page 8 of 11

Validity 18.09.2017 to 17.09.2019

Last Amended on --

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		Impurities (Foreign matter)	IS 3579	0.1% to 10 %
		Damaged and shriveled	IS 3579	0.1% to 20 %
		Insect damaged matter	IS 3579	0.1% to 20 %
5.	Edible Oil and Fats	Moisture	IS 548(part 1)	0.01% to 2%
		Saponification value	IS 548 (Part 1)	100 to 250
		Refractive Index at 40°C	IS 548 (Part 1)	1.4220 to 1.4890
		Iodine value	IS 548 (Part 1)	5 to 200
		Unsaponifiable matter	IS 548 (Part 1)	0.1% to 1%
		Acid value	IS 548 (Part 1)	0.1 to 10
		Free Fatty Acid	IS 548 (Part 1)	0.1% to 5%
		Peroxide value (meq /1000g)	IS 548 (Part 1)	1.1 meq/1000 g to 20 meq/1000 g
		Insoluble Impurities	IS 548 (Part 1)	0.01% to 5 %
		Specific gravity at 30/30 °C	IS 548 (Part 1)	0.6 to 1.4
		Baudouin Test	IS 548 (Part 2)	Qualitative (Positive/ Negative)
		Mineral Oil test	IS 548 (Part 2)	Qualitative (Absent/ Present)



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

Certificate Number **TC-6282**

Page 9 of 11

Validity **18.09.2017 to 17.09.2019**

Last Amended on --

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6	<b>Milk and Dairy Products</b>	Total solids	IS 1479 (Part 2)/ IS 11622	1 %to 100%
		Insolubility Index	IS 12759	0.1 ml to 1.0 ml
		Acidity of Milk	AOAC 33.2.06 (947.05) 20 <sup>th</sup> Edition	0.1 %to 5%
		Milk Protein	IS 7219-1973	1% to 40%
		Total ash	IS 14433	1% to 10 %
7.	<b>Sugar and By Products</b>			
a.	<b>Sugar (Raw)</b>	Dirt, Filth, Iron filings, and Added Colouring matter	IS 15279 /IS 5982	Qualitative (visual )
		Extraneous matter	IS 15279 /IS 5982	0.01% to 5%
		Moisture /Loss on drying	IS 15279 /IS 5982	0.01% to 15%
		Grain size retained on sieves (600 Micron & 425 Micron)	IS 498	60% to 100%
II.	<b>ANIMAL FOOD &amp; FEEDS</b>			
1.	<b>Animal Feeds</b>	Total Ash	AOAC 942.05 20 <sup>th</sup> Edition , IS 7874 (Part 1)	0.1% to 10%
		Acid insoluble Ash	IS 7874 (Part 1)	0.02% to 10%
		Oil Content / Crude fat	IS 3579 : / IS 7874(Part I)	2 %to 10 %
		Protein (N x 6.25)	IS 7219	0.1% to 80%

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

Certificate Number **TC-6282**

Page 10 of 11

Validity **18.09.2017 to 17.09.2019**

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		Crude Fiber	AOAC 20 <sup>th</sup> edition, 4.6.01 (962.09) / IS 10226 (Part 1)	0.1% to 15%
		pH of aqueous extract (10%)	AOAC 20 <sup>th</sup> edition, (940.20)	1 to 14
2.	Oil Seed Meal/ Cake	Crude fibre	IS 7874 (Part I)	5 %to 35%
		Oil Content	IS 7874 (Part I)	0.05% to 10%
		Protein (N x 6.25)	IS 7874 (Part I)	15 %to 50%
		Total Ash	IS 7874- (Part I)	0.5 %to 10%
		Sand and Silica or Acid insoluble ash	IS 7874 (Part I)	0.02% to 10%
		Moisture	IS 7874(Part 1)	5 %to 15%
III.	WATER			
1.	Drinking Water, Borewell Water and RO Water	pH	IS 3025(Part 11)	1 to 13
		Total Dissolved Solids	IS 3025(Part 16)	1 mg/l to 2000 mg/l
		Conductivity	IS 3025(Part 14)	1 µS/cm to 10000 µS/cm
		Chloride	IS 3025-(Part 32)	1 mg/l to 500 mg/l
		Alkalinity	IS 3025(Part 23)	1 mg/l to 1000 mg/l
		Total hardness	IS 3025(Part 21)	1 .0 mg/L to 1000 mg/l

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Certificate Number TC-6282

Page 11 of 11

Validity 18.09.2017 to 17.09.2019

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		Fluoride	IS 3025(Part 60)	0.1 mg/L to 5 mg/L
		Sulphate	IS 3025(Part 24)	1 mg/L to 500 mg/L
		Calcium	IS 3025(Part 40)	1.0 mg/L to 500 mg/L
		Magnesium	IS 3025(Part 46)	1.0 mg/L to 500 mg/L
		Sodium	IS 3025(part 45)	1.0 mg/L to 500 mg/L
		Potassium	IS 3025(part 45 )	1.0 mg/L to 500 mg/L

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