

Laboratory Analysis and Certification Laboratory (Testing and Certification Services), H-11, Goan Mandi Premises (Basni Mandi) Bhagat ki Kothi, Basni Ist Phase, Jodhpur, Rajasthan

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6644 (in lieu of T-2647)

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Validity 26.10.2017 to 25.10.2019

Last Amended on 06.12.2017

Sl.	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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CHEMICAL TESTING

I.	FOODS & AGRICULTURAL PRODUCTS			
1.	Cereals & Pulses Food Grains (Chana, Wheat, Barley, Maize, Moong, Moth, Paddy, Urad, Rice)	Moisture	IS 4333 (Part 2)	1.0 g/100g to 18.0 g/100g
		TCW (Weight of thousand grains)	IS 4333 (Part 4)	1.0 g/100g to 100.0g/100g
		Count	IS 4333 (Part 4)	1 seeds/100g to 500 seeds/100g
		Test Weight	IS 4333 (Part 3)	1.0 kg/hl to 100.0 kg/hl
		Mathara and Khesari Seeds	IS 4333 (Part 1)	Absent/Present
		Foreign Matter	IS 4333 (Part 1)	0.1 g/100g to 20.0 g/100g
		Shrunken/ Green/ Shriveled/ Immature seeds		
		Broken, Splits		
		Damaged & Weevilled		
		Varietal admixture		
		Damaged Kernel (Other than infestation damaged)		
		Infestation damaged Kernel		
		Other edible grains		
		Shrunken/Shriveled/Broken grains		
		Damaged including discolored (black tipped/black cornered only)		
	Other food grains			

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		Broken Kernels		
		Broken, Damaged/slightly damaged and Immature kernels		
		Weevilled grains		
		Fungus Effected Grains		
2.	Guar Seed Products and Derivatives (Guar Gum Splits, Guar Seed, Guar Korma, Guar Churi)	Moisture	IS 7437	1.0 g/100g to 15.0 g/100g
		Protein	IS 7219	1.0 g/100g to 60.0 g/100g
		Residue Insoluble in Acid	IS 3988 (Appendix A)	0.1 g/100g to 10.0g/100g
		Undehusked Splits	IS 4333 (Part 1)	0.1 g/100g to 20.0g/100g
		Through 20" mesh		
		Through 14" mesh		
		Black, Dark Red & Brown Colour Splits		
		Damaged		
		Whitish		
	Guar Gum Powder	Viscosity	IS 3988	100 cP to 6000 cP
3.	Spices & Condiments (Cumin seed, Coriander, Fennel Seed, Fenugreek, Red Chilly, Turmeric)	Moisture	IS 1797	1.0 g/100g to 20.0 g/100g
		Test Weight (On count basis)	IS 4333 (Part 4)	1 Seeds/1gm to 500 Seeds/1gm
		Visible Grade	IS 4333 (Part 1)	Different Grade
		Live Infestation	IS 1797	Absent/Present
		Seeds with Stalk	IS 1797	0.1 g/100g to 20.0 g/100g
		Foreign Matter		
		Damaged, Discolored, Shriveled and		

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		Immature Seeds		
		Insect Damaged Matter		
		Weevilled		
		Damaged, Discolored, Shriveled Seeds		
		Coriander Splits		
		Total Ash		
4.	Oil Seeds & Derivatives (Mustard, Castor, Soybean, Sesame Seed, Cotton Seed, Cotton Seed Oil Cake)	Moisture	IS 3579	1.0 g/100g to 20.0 g/100g
		Oil Content	IS 3579	10.0 g/100g to 50.0 g/100g
		Foreign Matter	IS 3579	0.1 g/100g to 10.0g/100g
		Free Fatty Acid as Oleic Acid	IS 548 (Part 1)	0.1 g/100g to 10.0g/100g
		Damaged or Shriveled or Discolored Seeds	IS 3579	0.1 g/100g to 20.0g/100g
		Insect Damaged Matter		
		Fotri (Husk) and Damaged Seeds		
		Sand, Silica and Stones	IS 3579	0.1 g/100g to 20.0g/100g
		Damaged Seeds		
		Green Seeds		
II.	WATER			
1.	Drinking Water	pH	IS 3025 (Part 11)	6.5 to 8.5
		Total Dissolved Solids	IS 3025 (Part 16)	20 mg/L to 1000 mg/L
		Total Hardness as CaCO ₃	IS 3025 (Part 21)	10 mg/L to 650 mg/L
		Total Alkalinity	IS 3025 (Part 23)	0.5 mg/L to 500 mg/L

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		Chloride	IS 3025 (Part 32)	1.0 mg/L to 1000 mg/L
		Magnesium	IS 3025 (Part 46)	1.0 mg/L to 100 mg/L
		Calcium	IS 3025 (Part 40)	1.0 mg/L to 200 mg/L