

Laboratory Procomm Laboratories, National Bulk Handling Corporation Private Limited, Office No. 117 & 118, Trade Centre, Plot No. 46, Sector-8, Gandhidham, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-8333

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Validity 12.02.2019 to 11.02.2021

Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

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.	FOOD & AGRICULTURAL PRODUCTS			
A.	Cereals, Pulses & Cereal Products			
1.	Bengal Gram, Barley, Wheat, Maize, Bajra, Rice, Red Gram	Moisture	IS 4333 (Part 2)	5 % m/m to 20 % m/m
		Foreign Matter	IS 4333 (Part 1)	0.1 % m/m to 20 % m/m
		Damaged Seeds	IS 4333 (Part 1)	0.1 % m/m to 40 % m/m
		Broken, Splits	IS 4333 (Part 1)	0.1 % m/m to 40 % m/m
		Immature, Shrunken Shriveled Seeds	IS 4333 (Part 1)	0.1 % m/m to 40 % m/m
		Weevilled Seeds/ Insect Damaged	IS 4333 (Part 1)	0.1 % m/m to 40 % m/m
		Varietal Admixture	IS 4333 (Part 1)	0.1 % m/m to 40 % m/m
		Slightly Damaged (Touched)	IS 4333 (Part 1)	0.1 % m/m to 40 % m/m
		Kernels with husk	IS 4333 (Part 1)	0.1 % m/m to 40 % m/m
		Count Per 100 g	IS 4333 (Part 4)	325 No's to 800 No's
		Other edible Grains	IS 4333 (Part 1)	0.1 % m/m to 40 % m/m
		Hectoliter Weight (Test weight)	IS 4333 (Part 3)	60 kg/HL to 90 kg/HL
		Mass of 1000 grains	IS 4333 (Part 4)	30 g to 70 g
		Green Cotyledon seeds	NBHC-PL/SOP/CHEM/03	0.1 % m/m to 1 % m/m
2.	Maize	Moisture	ISO 6540	5 % m/m to 20 % m/m
3.	Rice	Chalky	IS 4333 (Part 1)	0.5 % m/m to 25 % m/m
		Red grain	IS 4333 (Part 1)	0.1 % m/m to 2 % m/m
		Average Length	IS 4333 (Part 1)	4 mm to 8.80 mm

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		Live Insect	IS 4333 (Part 1)	Qualitative (Present/ Absent)
		Fragment	IS 4333 (Part 1)	0.1 % m/m to 1 % m/m
		Paddy grain	IS 4333 (Part 1)	0.05 % m/m to 1.50 % m/m
B.	Spices & Condiments			
1.	Cumin Seeds, Chilli Whole, Coriander Whole	Moisture	IS 1797	1 % v/m to 20 % by v/m
		Extraneous matter	IS 1797	0.1 % m/m to 10 % m/m
		Stalked seeds	IS 2447	1 % m/m to 20 % m/m
		Test Weight per gram (on Count basis)	IS 4333 (Part 4)	200 No's to 400 No's
		Damaged, Discoloured, shrivelled and Immature seeds	IS 2447	0.5 % m/m to 10 % m/m
		Edible seeds other than cumin seeds	IS 1797	0.1 % m/m to 3 % m/m
		Insect damaged	IS 2447	0.05 % m/m to 50 %m/m
		Unripe and marked	IS 2322	0.1 % m/m to 50 % m/m
		Broken fruits, Seeds and Fragments	IS 2322	0.1 % m/m to 25 % m/m
		Length	NBHC-PL/SOP/CHEM/45	2 cm to 15 cm
		Free from moulds, Insects	IS 2322	Qualitative (Present/ Absent)
		Splits Fruits	IS 2443	0.1 % m/m to 50 % m/m
C.	Guar Seed	Moisture	IS 4333 (Part 2)	5 % m/m to 15 % m/m
		Whitish seeds	IS 3988	50 % m/m to 100 % m/m
		Foreign matter	IS 2813	0.1 % m/m to 15 % m/m
		Residue insoluble in acid (Max.)	IS 3988	5 % m/m to 40 % m/m
		Total ash	IS 7437	1 % m/m to 10 % m/m
		Gum % (by difference)	IS 7437	15 % m/m to 60 % m/m

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		Protein	IS 7437	5 % m/m to 40 % m/m
		Other edible seeds	IS 4333 (Part 1)	0.1 % m/m to 10 % m/m
		Immature/ Shrivelled seeds	IS 2813	0.1 % m/m to 10 % m/m
		Damaged Seeds including mechanical injuries	IS 2813	0.1 % m/m to 20 % m/m
D.	Legumes (Guar Gum)	Moisture	IS 7437	2 % m/m to 15 % m/m
		Ash	IS 7437	0.1 % m/m to 10 % m/m
		Protein	IS 7437	1 % m/m to 15 % m/m
		Residue insoluble in acid	IS 3988	1 % m/m to 10 % m/m
		Gum	IS 7437	60 % m/m to 90 % m/m
		Undehusked Splits	IS 4333 (Part 1)	0.1% m/m to 20 % m/m
		Particles Size (Through Mesh 14 ASTM)	IS 460 (part 1)	0.5 % m/m to 10 % m/m
		Particles Size (Through Mesh 20 ASTM)	IS 460 (Part 1)	0.05 % m/m to 2 % m/m
		Black, dark red and brown colored splits	IS 4333 (Part 1) IS 2813	0.1 % m/m to 5 % m/m
		Foreign Particles (all non-gum particles)	IS 4333 (Part 1)	0.05 % m/m to 10 % m/m
E.	Oil Seeds and by Product			
1.	Mustard Seeds, Castor Seeds, Cotton Seeds, Groundnut Kernel, Sesame Seeds, Soybean Seeds	Moisture	IS 3579	1 % m/m to 10 % m/m
		Oil Content	IS 3579	14 % m/m to 55 % m/m
		Acid Value	IS 3579	0.1 % m/m to 8 % m/m
		Impurities (Foreign matter)	IS 3579	0.1 % m/m to 10 % m/m
		Damaged	IS 3579	0.1 % m/m to 25 % m/m
		Discoloured	IS 3579	0.1 % m/m to 20 % m/m
		Weevilled seeds	IS 3579	0.1 % m/m to 10 % m/m
		Shrivelled & Immature	IS 3579	0.1 % m/m to 10 % m/m
		Insect damaged matter	IS 3579	0.1 % m/m to 20 % m/m

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2.	Oil Seed Meal/ Cake	Green Cotyledon seeds	NBHC-PL/SOP/CHEM/03	0.5 % m/m to 20 % m/m		
		Splits, broken, cracked beans	IS 3579	0.1 % m/m to 20 % m/m		
		Fotri (Husk) and damaged Seeds	IS 3579	0.1 % m/m to 10 % m/m		
		Sand, Silica and Stones	IS 3579	0.1 % m/m to 10 % m/m		
		Moisture	IS/ ISO 6496	5 % m/m to 15 % m/m		
		Crude Protein	IS/ ISO 5983-2	15 % m/m to 60 % m/m		
F.	Nuts & Nut Products	Oil Content / Crude fat	IS/ ISO 6492	0.5 % m/m to 10 % m/m		
		Crude Ash	IS 14827 ISO 984	0.5 % m/m to 10 % m/m		
		Acid insoluble ash	IS 14826 ISO 5985	0.1 % m/m to 10 % m/m		
		Crude fiber	IS/ ISO 6865	5 % m/m to 35 % m/m		
		1.	Cashew Nuts in Shell	Moisture	NBHC-PL/SOP/CHEM/38	6.0 % v/m to 20 % v/m
				LBS (Shelling Outturn)	NBHC-PL/SOP/CHEM/39	40.0 m/m % to 60 % m/m
Count Nut per Kg	NBHC-PL/SOP/CHEM/40			150 No's to 240 No's		
Foreign Content	NBHC-PL/SOP/CHEM/41			0 to 20 % m/m		
Defective (Full damage Nut, Fungal infected or Full black Nut)	NBHC-PL/SOP/CHEM/42			1 % m/m to 40 % m/m		
Fungus Damaged	NBHC-PL/SOP/CHEM/43			0 to 35 % m/m		
Presence of live insects	NBHC-PL/SOP/CHEM/44			Qualitative (Present / Absent)		
II.	ANIMAL FOOD & FEEDS					
1.	Animal Feeds	Crude Protein	IS/ ISO 5983-2	1 % m/m to 80 % m/m		
		Oil Content / Crude fat	IS/ ISO 6492	0.2 % m/m to 10 % m/m		

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		Crude Ash	IS 14827 ISO 984	0.5 % m/m to 10 % m/m
		Acid insoluble ash	IS 14826 ISO 5985	0.02 % m/m to 10 % m/m
		Crude fiber	IS/ ISO 6865	0.1 % m/m to 30 % m/m
		Crude Protein	IS/ ISO 5983-2	1 % m/m to 80 % m/m