

Laboratory **CGR Collateral Management Ltd.- CGR Labs (Testing & Certification Services), P. No. 02, Swaroop Colony, 1st Floor, DCM, Ajmer Road, Jaipur, Rajasthan**

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

Certificate Number **TC-6492 (in lieu of T-3644)**

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Validity **26.10.2017 to 25.10.2019**

Last Amended on **03.11.2017**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
CHEMICAL TESTING				
I.	FOODS & AGRICULTURAL PRODUCTS			
1.	Spices (Whole & Grounded)			
a.	Cumin Seed	Moisture	IS 1797-1985,(RA .2009)	0.5 % to 15.0 %
		Edible seeds other than cumin seeds	IS 1797-1985,(RA .2009)	0.01 % to 10.0%
		Extraneous matter/ Foreign matter	IS 1797-1985,(RA .2009)	0.01% to 10.0 %
		Damaged, discolored and weevilled seeds	IS 1797-1985,(RA .2009)	0.01 % to 15.0 %
		Shrivelled and immature seeds	IS 1797-1985,(RA .2009)	0.01% to 10.0 %
		Total ash	IS 1797-1985,(RA .2009)	0.5% to 10.0 %
b.	Coriander	Moisture	IS 1797-1985,(RA .2009)	0.5% to 15.0 %
		Foreign matter	IS 1797-1985,(RA .2009)	0.01% to 10.0 %
		Coriander splits	IS 3579-1966,(RA . 2015)	0.01% to 20.0%
		Damaged discolored seeds	IS 1797-1985,(RA .2009)	0.01% to 10.0 %
		Shriveled and immature seeds	IS 1797-1985,(RA .2009)	0.01% to 10.0%
		Weevilled seeds	IS 1797-1985,(RA .2009)	0.01% to 10.0 %
		Total ash	IS 1797-1985,(RA .2009)	0.5% to 10.0 %
c.	Turmeric-Whole	Moisture	IS 1797-1985,(RA .-2009)	0.5% to 15.0 %
		Damaged Finger	IS 3576: 2010	0.01% to 15.0%
		Unboiled turmeric Finger	IS 1797-1985,(RA .-2009)	0.01% to 15.0 %
		Extraneous matter (bhusa,chaff dirt,earth clods and stones)	IS 1797-1985,(RA .-2009)	0.01% to 15.0 %

Rini Narayan
Convenor

N. Venkateswaran
Program Director

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		Bulbs	IS 1797-1985,(RA .-2009)	0.01% to 15.0%
		Fingers broken less than 15 mm	IS 3576: 2010	0.01% to 15.0 %
		Turmeric rhizomes length more than 3 cm	IS 1797-1985,(RA .-2009)	0.1% to 100 %
2.	Oil Seeds			
a.	Mustard Seeds	Moisture	IS 3579-1966,(RA .- 2015)	0.5 % to 15.0%
		Foreign matter	IS 3579-1966,(RA .- 2015)	0.01 % to 10.0 %
		Oil content	IS:3579-1966,(RA .- 2015)	1 % to 50.0 %
		Free fatty acids (as oleic acid)	IS 548(part-1):1964,(RA .- 2015)	0.1 % to 5.0 %
b.	Animal feeds (oil cake and de oil cake)	Moisture	IS 7874(Part I)-1975, (RA : 2014)	0.5 % to 15.0 %
		Crude fat(on dry basis)	IS 7874(Part I)-1975, (RA : 2014)	0.5 % to 15.0 %
		Total ash,(on dry basis)	IS 7874(Part I)-1975, (RA : 2014)	0.5 % to 20.0 %
		Crude fibre (on dry basis)	IS:7874(Part I)-1975, (RA : 2014)	2.0 % to 50.0 %
c.	Castor seed	Moisture	IS 3579-1966,(RA .- 2015)	1.0 % to 15.0%
		Oil content	IS 3579-1966,(RA .- 2015)	10 % to 60.0 %
		Impurities (sand,silica,stones & fotri(husk)	IS 3579-1966,(RA .- 2015)	0.01 % to 10.0 % (by wt)
3.	Cereals & Pulses			
a.	Chana-Whole	Moisture	IS 4333(Part 2) : 2002 (RA .2012)	0.5 % to 20.0 %
		Foreign matter (other than varietal admixture)	IS 4333 (Part 1) : 1996 (RA .2012)	0.01 % to 15.0 %
		Damage seeds	IS 4333 (Part 1) : 1996 (RA .2012)	0.01 % to 15.0 %
		Broken splits	IS 4333 (Part 1) : 1996 (RA .2012)	0.01 % to 15.0 %

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		Green, immature, shriveled seeds	IS 4333 (Part 1) : 1996 (RA .2012)	0.01 % to 15.0 %
		Weevilled / insect damage seeds	IS 4333 (Part 1) : 1996 (RA .2012)	0.01 % to 10.0 %
b.	Soybean	Moisture	IS 4333(Part 2) : 2002 (RA .2012)	0.5 % to 20.0 %
		Foreign matter	IS : 4333 (Part 1) : 1996 (RA .2012)	0.01 % to 10.0 %
		Immature/shriveled seeds (green seeds)	IS 4333 (Part 1) : 1996 (RA .2012)	0.01 % to 20.0 %
		Damage seeds	IS 4333 (Part 1) : 1996 (RA .2012)	0.01 % to 15.0 %
c.	Maize	Moisture	IS 4333(Part 2) : 2002 (RA .2012)	2.0 % to 20.0 %
		Foreign matter	IS 4333 (Part 1) : 1996 (RA .2012)	0.01 % to 15.0 %
		Broken, damage/slightly damage and immature kernel	IS 4333 (Part 1) : 1996 (RA .2012)	0.01 % to 15.0 %
		Weevilled grains	IS 4333 (Part 1) : 1996 (RA .2012)	0.01 % to 15.0 %
		Count (grains per 100 gm)	IS 4333 (Part 4): 2002,(RA 2012)	350 count to 450 count
d.	Wheat	Moisture	IS 4333(Part 2) : 2002 (RA .2012)	2.0 % to 20.0 %
		Foreign matter	IS 4333 (Part 1) : 1996 (RA .2012)	0.01 % to 15.0 %
		Damage kernel(other than infestation)	IS 4333 (Part 1) : 1996 (RA .2012)	0.01 % to 15.0 %

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		Infestation damage kernel	IS 4333 (Part 1) : 1996 (RA .2012)	0.01 % to 15.0 %
		Shrunken, shriveled, broken grains	IS 4333 (Part 1) : 1996 (RA .2012)	0.01 % to 15.0 %
		Other edible grains	IS 4333 (Part 1) : 1996 (RA .2012)	0.01 % to 15.0 %
		TCW (Mass per hectoliter)	IS 4333 (Part 3) : 2002 (RA .2012)	50.0 kg/hl to 100.0 kg/hl
e.	Barley	Moisture	IS 4333(Part 2) : 2002 (RA .2012)	2.0 % to 20.0 %
		Foreign matter	IS 4333 (Part 1) : 1996 (RA .2012)	0 .01 % to 15.0 %
		Damage & discoloured	IS 4333 (Part 1) : 1996 (RA .2012)	0.01 % to 15.0 %
		Weevilled grains	IS 4333 (Part 1) : 1996 (RA .2012)	0.01 % to 15.0 %
		Broken kernel	IS 4333 (Part 1) : 1996 (RA .2012)	0.01 % to 15.0 %
		Other food grains	IS 4333 (Part 1) : 1996 (RA .2012)	0.01 % to 15.0 %
		TCW(mass of 1000 grains)	IS 4333 (Part 4) : 2002 (RA .2012)	30.0 g to 50.0 g
4.	Other Seeds			
a.	Guar Gum	Moisture	IS 7437-1974, (RA -2010)	0.5 % to 10.0 %
		Foreign matter	IS 4333 (Part 1) : 1996 (RA .2012)	0.01 % to 5.0 %
		Black, dark red and brown coloured splits	IS 4333 (Part 1) : 1996 (RA .2012)	0.01 % to 5.0 %
		Dehusked splits	IS 4333 (Part 1) : 1996 (RA .2012)	0.01 % to 30.0 %
		Residue insoluble in acid	IS :3988- 1981,(RA 2011)	0.5 % to 10.0 %

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b.	Guar Seed	Moisture	IS 7437-1974, (RA -2010)	0.5 % to 15.0 %
		Foreign matter	IS 4333 (Part 1) : 1996 (RA .2012)	0.01% to 15.0 %
		Damaged seeds	IS 4333 (Part 1) : 1996 (RA .2012)	0.01 % to 10.0 %