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## CHEMICAL TESTING

I.	FOODS & AGRICULTURAL PRODUCTS			
Α.	Spices (Whole & Grounded)			
1.	Cumin seeds	Moisture	IS: 1797-2017	2 % to 10 %
		Edible seeds other than Jeera	IS: 1797-2017	0.1 % to 10 %
		Extraneous Matter/ Foreign particles	IS: 1797-2017	0.1 % to 10 %
		Damaged, discolored and weevil seeds	IS: 1797-2017	0.1 % to 15 %
		Shrivelled and immature seeds	IS: 1797-2017	0.1 % to 10 %
		Stalked seeds	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 20 %
		Test Weight //1gm	IS 4333 (Part 4) : 2017	260 count to 350 count
		Total Ash	IS : 1797-2017	0.5 % to 10 %
		Acid insoluble Ash	IS : 1797-2017	0.25 % to 2 %
2.	Coriander	Moisture	IS : 1797-2017	2 % to 15 %
		Foreign Matter	IS : 1797-2017	0.1 % to 5 %
		Coriander Splits	IS : 1797-2017	0.1 % to 30 %
		Damaged discolored seeds	IS : 1797-2017	0.1 % to 6 %
		Shriveled and immature seeds	IS : 1797-2017	0.1 % to 4 %
		Weevil Seeds	IS : 1797-2017	0.1 % to 2 %
		Total Ash	IS : 1797-2017	0.5 % to 10 %

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		Acid insoluble Ash	IS : 1797-2017	0.2 % to 2%
		Volatile Oil	IS : 1797-2017	0.05 % to 0.5%
3.	Chilli	Length 4cm	IS : 1797-2017	30 % to 100 %
		Moisture	IS : 1797-2017	2 % to 15 %
		Foreign Matter	IS : 1797-2017	0.1 % to 15 %
		Broken Chillies	IS : 1797-2017	0.1 % to 15 %
		Loose seeds	IS : 1797-2017	0.1 % to 15 %
		Unripe and marked fruits	IS : 1797-2017	0.1 % to 15 %
		Insect Damaged	IS : 1797-2017	0.1 % to 15 %
		Non-volatile ether extract	IS : 1797-2017	0.5 % to 25 %
4.	Turmeric	Inferior quality Turmeric	IS : 1797-2017	0.1 % to 15 %
		Fingers that are broken /those less than 15mm	IS : 1797-2017	0.1 % to 15 %
		At least 75% of turmeric length above 3 cm	IS : 1797-2017	0.1 % to 85 %
		Damage due to moisture	IS : 1797-2017	0.1 % to 15 %
		Unboiled or less boiled turmeric	IS : 1797-2017	0.1 % to 15 %
		Bhusa, chaff dirt, earth clods and stones	IS : 1797-2017	0.1 % to 15 %
		Bulbs	IS : 1797-2017	0.1 % to 15 %
		Moisture	IS : 1797-2017	2% to 15 %
		Presence of fungus	IS : 1797-2017	Qualitative
		Presence of Artificial Color	IS : 1797-2017	Qualitative
5.	Black pepper	Extraneous matter	IS : 1797-2017	0.10 % to 5 %
		Pinheads or broken berries	IS : 1797-2017	0.1 % to 10 %
		Moisture	IS : 1797-2017	0.1 % to 15 %
		Total ash	IS : 1797-2017	0.5 % to 10 %

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		Presence of Papaya seeds	IS : 1797-2017	Qualitative
		Bulk density	IS : 1797-2017	200 gm/litre to 800 gm/litre
		Non-volatile ether extract	IS : 1797-2017	0.5 % to 25 %
		Light berries	IS : 1797-2017	0.1 % to 10 %
6.	Cardamom	Extraneous matter	IS : 1797-2017	0.1 % to 5%
		Light seeds	IS : 1797-2017	0.1 % to 10 %
		Moisture	IS : 1797-2017	2.0 % to 16 %
		Total ash	IS : 1797-2017	0.5 % to 10%
		Insect damaged matter	IS : 1797-2017	0.1 % to 5 %
7.	Cloves	Extraneous matter	IS : 1797-2017	0.1 % to 5 %
		Tendrils,Mother cloves	IS : 1797-2017	0.1 % to 5 %
		Khokar Cloves	IS : 1797-2017	0.1 % to 5 %
		Moisture	IS : 1797-2017	2.0 % to 16 %
		Headless cloves	IS : 1797-2017	0.1 % to 5 %
		Insect damaged cloves	IS : 1797-2017	0.1 % to 5 %
		Total ash	IS : 1797-2017	0.5 % to 10%
8.	Fennel	Extraneous matter	IS : 1797-2017	0.1 % to 5 %
		Defective seeds	IS : 1797-2017	0.5 % to 10 %
		Moisture	IS : 1797-2017	2.0 % to 16 %
		Total ash	IS : 1797-2017	0.5 % to 10%
		Acid insoluble Ash	IS : 1797-2017	0.1 % to 5 %
		Other edible seed	IS : 1797-2017	0.1 % to 5 %
		Insect damaged matter	IS : 1797-2017	0.1 % to 5%
9.	Fenugreek	Extraneous matter	IS : 1797-2017	0.1 % to 5%
		Moisture	IS : 1797-2017	2.0 % to 16 %
		Total ash	IS : 1797-2017	0.5 % to 10%
		Acid insoluble Ash	IS : 1797-2017	0.1 % to 5 %
		Other edible seed	IS : 1797-2017	0.1 % to 3.0 %
		Insect damaged matter	IS : 1797-2017	0.1 % to 2.0 %

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		Cold water soluble extract	IS : 1797-2017	0.1 % to 40 %
10.	Ajowan	Moisture	IS : 1797-2017	2.0 % to 16 %
		Extraneous matter	IS : 1797-2017	0 to 5.10 %
		Shrivelled/damaged/insec t damaged/broken fruit	IS : 1797-2017	0 to 5.10 %
В.	Oil Seeds			
1.	Mustard seeds/ Sheesham Seed/ Till Seed	Moisture Extraneous matter/Foreign Matter	IS:3579-1966 (RA 2015) IS:3579-1966 (RA 2015)	1 % to 15 % 0.1 % to 5 %
		Oil content	IS:3579-1966 (RA 2015)	2 % to 48 %
		Free fatty acid	IS : 548(Part 1) : 1964 (RA 2015)	0.1 % to 3.5 %
		Damaged or Shriveled or discolored seeds	IS:3579-1966(RA 2015)	0.1 % to 5 %
		Insect damaged matter	IS:3579-1966(RA 2015)	0.1 % to 5 %
2.	Castor	Moisture	IS:3579-1966(RA 2015)	2% % to 15 %
		Oil content	IS:3579-1966(RA 2015)	1 % % to 65 %
		Fotri (Husk) and damaged Seeds	IS:3579-1966(RA 2015)	0.1 % to 15%
		Sand, Silica And Stones	IS:3579-1966(RA 2015)	0.1 % to 15%
C.	Animal feeds			
1.	Animal feeds (oil cake and de	Moisture	IS:7874(Part I)-1975, (RA 2014)	2 % to 15 %
	oiled cake), Mustard Oil Cake,	Crude Protein	IS:7874(Part I)-1975, (RA 2014)	10 % to 70 %
	Cotton Seed Oil Cake	Crude Fat	IS:7874(Part I)-1975, (RA 2014)	0.5 % to 20 %
		Free fatty acid	IS : 548(Part 1):1964 (RA 2015)	0.03 % to 10 %
		Total Ash	IS:7874(Part I)-1975, (RA 2014)	0.5 % to 20 %

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		Acid insoluble ash	IS:7874(Part I)-1975, (RA 2014)	0.1 % to 20 %
		Urea Nitrogen	IS:7874(Part I)-1975, (RA 2014)	0.5 % to 10 %
		Crude fiber	IS:7874(Part I)-1975, (RA 2014)	2 % to 40 %
D.	Cereals & Pulses		]	
1.	Chana -Whole	Moisture	IS 4333 (Part 2) : 2017	2 % to 15 %
		Foreign matter(other than varietals admixture)	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 15 %
		Damaged seed	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 15 %
		Brokens, Splits	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 15 %
		Green/Immature/ Shriveled Seeds	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 15 %
		Varietal Admixture	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 15 %
		Weeviled Seed/Insect Damaged	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 6 %
2.	Soybean-	Moisture	IS:3579-1966(RA 2015)	2 % to 15 %
		Foreign Matter	IS:3579-1966(RA 2015)	0.1 % to 8 %
		Green seeds	IS:3579-1966(RA 2015)	0.1 % to 20 %
		Damaged Seeds	IS:3579-1966(RA 2015)	0.1 % to 10 %
3.	Maize	Count Grains/100gm	IS: 4333(Part 4): 2017	355 count to 450 count
		Foreign Matter	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 15 %
		Broken,Damaged/slightly damaged and Immature kernel	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 15 %

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		Fungus Affected Grains	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 15 %
		Weeviled grains	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 15 %
		Moisture	IS : 4333(Part 2) : 2017	2 % to 15 %
4.	Barley	Damaged including Discolored	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 15 %
		Foreign Matter	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 15 %
		Weevilled Grains	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 15 %
		Other food Grains	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 15 %
		Broken Kernels	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 15 %
		TCW/ 1000 Grains	IS : 4333(Part 4) : 2017	35 gm to 45 gm
		Moisture	IS : 4333(Part 2) : 2017	2 % to 15 %
5.	Bajra	Moisture content	IS : 4333(Part 2) : 2017	2 % to 15 %
		Foreign matter	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 15 %
		Damaged Grains	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 15 %
		Weevillled Grains	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 15 %
		Immature/Shriveled grains	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 15 %
		Other edible grains	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 15 %
6.	Wheat	Moisture	IS : 4333(Part 2) : 2017	2 % to 15 %
		Foreign matter	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 15 %

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Test Method Specification Product / Material Specific Test Performed Range of Testing / SI. Limits of Detection of Test against which tests are performed ....Ł Damaged kernel IS: 4333 (Part 1): 1996 0.1 % to 15 % (Otherthan infestation (RA 2012) damaged) Infestation damaged IS: 4333 (Part 1): 1996 0.1 % to 15 % Kernel (RA 2012) Shrunken / Shriveled / IS: 4333 (Part 1): 1996 0.1 % to 15 % Broken grains (RA 2012) Other edible grains IS: 4333 (Part 1): 1996 0.1 % to 15 % (RA 2012) Test Weight IS: 4333(Part 4): 2017 70kg/hl to 85 kg/hl (hectoliter Weight) 7. Rice Moisture IS: 4333(Part 2): 2017 1 % to 20 % Foreign matter IS: 4333 (Part 1): 1996 0.1 % to 5% (RA 2012) IS: 4333 (Part 1): 1996 **Damaged Grains** 0.1 % to 10 % (RA 2012) IS: 4333 (Part 1): 1996 0.1 % to 5 % Weeviled grains (RA 2012) Broken (Rice) IS: 4333 (Part 1): 1996 0.1 % to 35 % (RA 2012) Chalky kernels IS: 4333 (Part 1): 1996 0.1 % to 20 % (RA 2012) IS: 4333 (Part 1): 1996 **Red-Streaked Kernels** 0.1 % to 5 % (RA 2012) Immature Kernels IS: 4333 (Part 1): 1996 0.1 % to 5 % (RA 2012) Paddy Foreign Matter IS: 4333 (Part 1): 1996 0.1 % to 5 % 8. (RA 2012) Damaged, Discolored, IS: 4333 (Part 1): 1996 0.1 % to 10 % sprouted and weevils (RA 2012) grains

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		Immature, shrunken and shriveled grains	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 10 %
		Admixture of lower class	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 10 %
		Moisture	IS : 4333(Part 2) : 2017	1 % to 20 %
		Insect Infestation	IS : 4333 (Part 1) : 1996 (RA 2012)	Qualitative
9.	Red Gram (Arhar)	Foreign Matter	IS 2813 : 1995 (RA 2015)	0.1 % to 5 %
	Pulses/ Turdal/Dal Chana	Admixture/Other Edible Grains	IS 2813 : 1995 (RA 2015)	0.1 % to 10 %
		Damaged or Discoloured Grains	IS 2813 : 1995 (RA 2015)	0.1 % to 15 %
		Weevilled Pulses/Grains	IS 2813 : 1995 (RA 2015)	0.1 % to 5 %
		Broken Grains or Fragments	IS 2813 : 1995 (RA 2015)	0.1 % to 15 %
		Slightly Touched/ Damaged Pulses	IS 2813 : 1995 (RA 2015)	0.1 % to 5 %
		Green Grains	IS 2813 : 1995 (RA 2015)	0.1 % to 10 %
		Partially Husked/Split and wholes (both unhusked and husked)	IS 2813 : 1995 (RA 2015)	0.1 % to 10 %
		Moisture	IS : 4333 (Part 2) : 2017	1 % to 15 %
		Presence of Kesari Dal	IS 2813 : 1995 (RA 2015)	Qualitative
		Added coloring matter	IS 2813 : 1995 (RA 2015)	Qualitative
10.	Urd whole/Moong	Moisture	IS : 4333 (Part 2) : 2017	2.0 % to 16 %
	whole/Masur whole	Foreign matter	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 5%
		Other edible	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 10 %

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		Damaged	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 10 %
		Weevilled	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 10 %
11.	Urad Dal/Moong Dal/Masur Dal	Moisture	IS : 4333(Part 2) : 2017	2.0 % to 16 %
		Foreign matter	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 5%
		Other edible	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 10 %
		Damaged	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 10 %
		Weevilled	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 10 %
Ε.	Cereal Products			
1.	Wheat Atta /Maida/Suji/Fortifie d Wheat Atta	Moisture	IS 1155 : 1968(RA 2015) IS 1009:1979 (RA 2015) IS 1010 : 1968 (Rev.2015) IS 7463 : 2004(RA 2013)	1 % to 15 %
		Total ash	IS 1155 : 1968(RA 2015) IS 1009:1979 (RA 2015) IS 1010 : 1968 (Rev.2015) IS 7463 : 2004(RA 2013)	0.2 % to 3.0 %
		Acid Insoluble ash	IS 1155 : 1968(RA 2015) IS 1009:1979 (RA 2015) IS 1010 : 1968 (Rev.2015)	0.05 % to 1.5 %
		Alcoholic acidity	IS 1155 : 1968(RA 2015) IS 1009:1979 (RA 2015) IS 1010 : 1968 (Rev.2015)	0.01 % to 1.0 %

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Gluten	IS 1155 : 1968(RA 2015) IS 1009:1979 (RA 2015) IS 1010 : 1968 (Rev.2015)	1.0 % to 10.0 %
		Protein	IS 7219 : 1973, (RA 2010)	1 % to 30 %
		Crude Fiber	IS 1155 : 1968(RA 2015) IS 1009:1979 (RA 2015) IS 1010 : 1968 (Rev.2015)	1.0 % to 15%
2.	Soya Flaks/Soya Chunks	Protein	IS 7219 : 1973, (RA 2010)	1 % to 65 %
		Moisture	FSSAI Manual 2016	1 % to 15 %
<b>F</b> .	Other Seeds			
1.	Guar Gum	Moisture	IS : 7437-1974, (RA 2010)	2 % to 10 %
		Foreign Particles (All non-gum particles)	As per SL/STP/GG/04, Issue No-03, Issue Date 01/03/2017	0.1% to 2.0 %
		Particle Size	As per SL/STP/GG/04, Issue No-03, Issue Date 01/03/2017	0.1% to 5.0 %
		Black, dark red and brown coloured splits	As per SL/STP/GG/04, Issue No-03, Issue Date 01/03/2017	0.1% to 3.0 %
		Undehusked Splits	As per SL/STP/GG/04, Issue No-03, Issue Date 01/03/2017	0.1% to 20 %
		Residue Insoluble in acid	IS : 3988-1981, (RA 2011)	0.5 to 7 %
		Protein	IS : 7437-1974, (RA 2010)	0.5 % to 10 %
2.	Guar Seed	Moisture	IS : 7437-1974, (RA 2010)	2.0 % to15 %
		Whitish seeds	As per SL/STP/GS/08 Issue No-03, Issue Date - 01/03/2017	20 % to 100 %

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		Foreign matter	As per SL/STP/GS/08 Issue No-03, Issue Date - 01/03/2017	0.1 % to 10 %
		Damaged seeds	As per SL/STP/GS/08 Issue No-03, Issue Date - 01/03/2017	0.1 % to 10 %
G.	Oils & Fats			
1.	Oils & Fats	Moisture	IS : 548(Part 1):1964 (RA 2015)	0.1 % to 1.0 %
		Refractive Index at 40 °C	IS : 548(Part 1):1964 (RA 2015)	1.300 to 1.700
		Free fatty acid As oleic acid	IS : 548(Part 1):1964 (RA 2015)	0.03 % to 10 %
		Bellier Turbidity Temperature	IS 548 (Part 2) :1976 (RA 2010)	20 °C to 50 °C
		Acid value	IS : 548(Part 1):1964 (RA 2015)	0.1 % to 20 %
		Saponification value	IS : 548(Part 1):1964 (RA 2015)	150 to 250
		lodine value	IS : 548(Part 1):1964 (RA 2015)	2 to 150
		Unsaponifiable matter	IS : 548(Part 1):1964 (RA 2015)	0.5 % to 5 %
		Peroxide value	IS : 548(Part 1):1964 (RA 2015)	0.2 meq./kg to 15 meq./kg
		Insoluble impurities	IS : 548(Part 1):1964 (RA 2015) IS 3508 : 1966 (RA 2013)	0.01 % to 10 %
		Specific Gravity at 30 °C/30°C	IS : 548(Part 1):1964 (RA 2015)	0.700 to 1.500

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		Immature nuts	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 10 %
		Fungus damaged	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 10 %
4.	Almond	Foreign matter	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 5%
		Moisture	FSSAI Manual of Fruit & vegetables products,2016	2.0 % to 16 %
		Double twins	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 10 %
		Weeviled seed	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 10 %
		Oil	IS:3579-1966(RA 2015)	10.0 % to 60 %
		Damaged	IS : 4333 (Part 1) : 1996 (RA 2012)	0.1 % to 10 %
J.	Milk powder			
1.	Milk powder	Moisture	IS 11623:2008, (RA 2013)	0.5 % to 5 %
		Protein	IS 7219 : 1973, (RA 2010)	1.0 % to 45 %
		Titrable acidity	IS 11766:1986, (RA 2012)	0.5 % to 18 %
		Total ash	IS 1165:2002, (RA 2013)	0.5 % to 10 %
II.	POLLUTION & ENV	IRONMENT		
1.	Soil	рН	IS 2720 (Part 26) :1977 (RA 2011)	2 to 12
		Electric Conductivity	As Per SL/STP/SOIL/24 Issue No -2, Issue Date 01.03.2017	0.15 mS/cm to 10 mS/cm

Laboratory	Star Labs-Quality Testing & Certification, A Division of Star Agriwarehousing & Collateral Management Ltd., G-102, Plot 29, Molshree Residency Mission Compound, Ajmer Road, Jaipur, Rajasthan		
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		Organic carbon	As Per SL/STP/SOIL/24 Issue No -2, Issue Date 01.03.2017	0.10 % to 1.50 %
		Phosphorus	As Per SL/STP/SOIL/24 Issue No -2, Issue Date 01.03.2017	10 kg/ha to 50 kg/ha