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SI.			Range of Testing / Limits of Detection			

CHEMICAL TESTING

Ι.	ANIMAL FOOD AND	D FEED		
1.	Pet Foods	Moisture	IS 7874 (Part 1)	0.5 g/100g to 50 g/100g
	Rapeseed Meal	Crude Fat / Oil	IS 7874 (Part 1)	0.1 g/100g to 35 g/100g
	Cotton seed cake,	Crude Fiber	IS 7874 (Part 1)	0.30 g/100g to 50 g/100g
	Rice polish,	Ash	IS 7874 (Part 1)	0.1 g/100g to 20 g/100g
	Guar Meal Poultry feed	Acid Insoluble Ash / Sand Silica	IS 7874 (Part 1)	0.01 g/100g to 10 g/100g
	additives	Protein/Nitrogen	IS 7874 (Part 1)	2 g/100g to 80 g/100g
	Animal Nutrition	Phosphorous	IS 7874 (Part 2)	0.1 g/100g to 20 g/100g
	Supplements Oil Cake	Sodium	AOAC 966.16; 20th Edition, 2016	100 mg/kg to 25000 mg/kg
	Groundnut meal Miscellaneous,	Potassium	AOAC 965.30; 20th Edition, 2016	100 mg/kg to 25000 mg/kg
	Cattle Feed, Cattle feed supplements,	Calcium	IS 7874 (Part 2)	0.5 g/100g to 40 g/100g
		Salt (as NaCl)	IS 7874 (Part 2)	0.5 g/100g to 20 g/100g
	Soya Doc, Maize gluten	Carbohydrate	RL/039, Issue No.:02, Issue Date: 13.02.2018/ IS 2234	0.5 g/100g to 85 g/100g
		Calories / Metabolic Energy	RL/040, Issue No.:02, Issue Date: 13.02.2018	5 Kcal/100g to 900 Kcal/100g
		Fatty acid profile:		
		total Saturated Fatty acids	AOAC 996.06; 20th Edition, 2016	0.5 g/100g to 30 g/100g
		total Monounsaturated Fatty acids	AOAC 996.06; 20th Edition, 2016	0.5 g/100g to 30 g/100g
		total Polyunsaturated fatty acids	AOAC 996.06; 20th Edition, 2016	0.5 g/100g to 30 g/100g
		Trans fatty acids (Trans- 9 Elaidic Acid)	AOAC 996.06; 20th Edition, 2016	0.1 g/100g to 10 g/100g

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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
		Trace elements (He	avy metals):	Γ
	-	Arsenic	AOAC 986.15; 20th Edition, 2016	0.5 mg/kg to 100 mg/kg
		Lead	AOAC 999.11; 20th Edition, 2016/ FSSAI: Manual of Methods of Analysis of Foods, Metals, Cl. 3.0, Pg. 10	2 mg/kg to 100 mg/kg
		Mercury	FSSAI: Manual of Methods of Analysis of Foods, Metals, Cl. 3.2, Pg. 15	0.5 mg/kg to 100 mg/kg
		Cadmium	AOAC 999.11; 20th Edition, 2016/FSSAI: Manual of Methods of Analysis of Foods, Metals, Cl. 3.1, Pg. 10	0.5 mg/kg to 100 mg/kg
		Zinc	AOAC 999.11; 20th Edition, 2016/ FSSAI: Manual of Methods of Analysis of Foods, Metals, Cl. 3.1, Pg. 10	1.0 mg/kg to 1000 mg/kg
		Manganese	AOAC 985.35; 20th Edition, 2016	1.0 mg/kg to 500 mg/kg
		Iron	AOAC 985.35; 20th Edition, 2016 / FSSAI: Manual of Methods of Analysis of Foods, Metals, Cl. 3.1, Pg. 10	5 mg/kg to 1000 mg/kg
		Copper	AOAC 999.11; 20th Edition, 2016/ FSSAI: Manual of Methods of Analysis of Foods, Metals, Cl. 3.1, Pg. 10	5 mg/kg to 500 mg/kg

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SI. Product / Material	Specific Test	Test Method Specification	Range of Testing /

01.	of Test	Performed	against which tests are performed	Limits of Detection	
11.	FOOD AND AGRICUTURAL PRODUCTS				
1.	Herbs, Spices &	Moisture	IS 1797	0.5 g/100g to 15 g/100g	
	Condiments	total Ash	IS 1797	0.5 g/100g to 15 g/100g	
		Acid Insoluble Ash	IS 1797	0.1 g/100g to 10 g/100g	
		Non Volatile Ether Extract	IS 1797	0.1 g/100g to 25 g/100g	
		Water Soluble Ash	IS 1797	0.05 g/100g to 5 g/100g	
		Alcohol Soluble Extract	IS 1797	0.05 g/100g to 5 g/100g	
		Cold Water Soluble Extract	IS 1797	0.05 g/100g to 15 g/100g	
		Salt As NaCl	IS 1797	0.1 g/100g to 15 g/100g	
		Crude Fiber	IS 1797	0.1 g/100g to 25 g/100g	
		Fat (Ether extract)	IS 1797	0.5 g/100g to 25 g/100g	
		Protein	IS 7219	0.5 g/100g to 60 g/100g	
		Carbohydrate	RL/039, Issue No.:02, Issue Date: 13.02.2018/ IS 2234	0.5 g/100g to 75 g/100g	
		Calories	RL/040, Issue No.:02, Issue Date: 13.02.2018	5 Kcal/100g to 900 Kcal/100g	
		Iron	IS 14433/ AOAC 985.35; 20th Edition, 2016 / FSSAI: Manual of Methods of Analysis of Foods, Metals, Cl. 3.1, Pg.10		
		Calcium	AOAC 944.03; 20th Edition, 2016	1 mg/kg to 3500 mg/kg	
		Sodium	AOAC 966.16; 20th Edition, 2016	1 mg/kg to 35000 mg/kg	
		Potassium	AOAC 965.30; 20th Edition, 2016	1 mg/kg to 30000 mg/kg	
		Phosphorous	AOAC 986.24; 20th Edition, 2016	1 mg/kg to 3500 mg/kg	

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I.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	Cereals, Pulses	Moisture	IS 1155	0.5 g/100g to 50 g/100g
	and Cereals	total Ash	IS 1155/ IS 1009	0.5 g/100g to 15 g/100g
	based products.	Acid Insoluble Ash	IS 1155/ IS 1009	0.1g/100g to 15 g/100g
		Crude Fiber	IS 1155	0.1 g/100g to 20 g/100g
		Fat (Ether extract)	IS 12711	0.5 g/100g to 30 g/100g
		Protein	IS 7219	0.5 g/100g to 60 g/100g
		Carbohydrate	RL/039, Issue No.:02, Issue Date: 13.02.2018/ IS 2234	0.5 g/100g to 75 g/100g
		Calories	RL/040, Issue No.:02,	5 Kcal/100g to
			Issue Date: 13.02.2018	900 Kcal/100g
		Iron	IS 14433 / AOAC 985.35; 20th Edition, 2016 /	5 mg/kg to 3500 mg/kg
			FSSAI: Manual of Methods	
			of Analysis of Foods,	
			Metals, Cl. 3.2, Pg. 16	
		Calcium	AOAC 944.03; 20th	1 mg/kg to 3500 mg/kg
			Edition, 2016	
		Sodium	AOAC 966.16; 20th Edition, 2016	1 mg/kg to 35000 mg/kg
		Potassium	AOAC 965.30; 20th Edition, 2016	1 mg/kg to 30000 mg/kg
		Phosphorous	AOAC 986.24; 20th Edition, 2016	1 mg/kg to 3500 mg/kg
		Gluten	IS 1155	1 g/100g to 30 g/100g
		Fatty acid profile :		
		total Saturated Fatty acids	AOAC 996.06; 20th Edition, 2016	0.5 g/100g to 20 g/100g
		total Monounsaturated Fatty acids	AOAC 996.06; 20th Edition, 2016	0.5 g/100g to 20 g/100g
		total Polyunsaturated fatty acids	AOAC 996.06; 20th Edition, 2016	0.5 g/100g to 70 g/100g
		Trans fatty acids (Trans- 9 Elaidic Acid)	AOAC 996.06; 20th Edition, 2016	0.1 g/100g to 5 g/100g

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SI. Product / Material	Specific Test Method S	pecification Range of Testing /

Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are	Range of Testing / Limits of Detection
	l	1.	1 0 5 c/100c to 50 c/100c
	_ L		0.5 g/100g to 50 g/100g
products	IOIAI ASTI	,	0.5 g/100g to 15 g/100g
	Acid Incoluble Ach		0.1 g/100g to 15 g/100g
	<u> </u>		0.1 g/100g to 20 g/100g
	<u></u>		0.5 g/100g to 30 g/100g
			0.5 g/100g to 60 g/100g
	<u> </u>		0.5 g/100g to 75 g/100g
	Carbonydrate		0.5 g/100g to 75 g/100g
	Calories		5 Kcal/100g to 900
			Kcal/100g
	Iron	IS 14433/ AOAC 985.35;	5 mg/kg to 3500 mg/kg
		20th Edition, 2016 /	
		FSSAI: Manual of Methods	
		of Analysis of Foods,	
		Metals, Cl. 3.1, Pg. 10	
	Calcium		1 mg/kg to 3500 mg/kg
	<u> </u>		L
	Sodium	· · · · · · · · · · · · · · · · · · ·	1 mg/kg to 25000 mg/kg
	Potassium		1 mg/kg to 15000 mg/kg
	Phosphorous		1 mg/kg to 3500 mg/kg
	Fatter a data and file	Edition, 2016	\
			0.1 =/100= to 50 =/100=
			0.1 g/100g to 50 g/100g
			0.1 a/100a to 50 a/100a
			0.1 g/100g to 50 g/100g
			0.1 g/100g to 50 g/100g
		*	0.1 g/100g to 50 g/100g
			0.1 g/100g to 10 g/100g
	(Trans- 9 Flaidic Acid)		0.1 g/100g to 10 g/100g
		of Test Performed Oil seeds & by- products Moisture total Ash Acid Insoluble Ash Crude Fiber Fat (Ether extract) Protein Carbohydrate Calories	of TestPerformedagainst which tests are performedOil seeds & by- productsMoistureIS 3579total AshAOAC 950.49; 20th Edition, 2016Acid Insoluble AshIS 1155Crude FiberIS 1155Fat (Ether extract)IS 3579ProteinIS 7219CarbohydrateRL/039, Issue No.:02, Issue Date: 13.02.2018/ IS 2234CaloriesRL/040, Issue No.:02, Issue Date: 13.02.2018IronIS 14433/ AOAC 985.35; 20th Edition, 2016 / FSSAI: Manual of Methods of Analysis of Foods, Metals, CI. 3.1, Pg. 10CalciumAOAC 966.16; 20th Edition, 2016PotassiumAOAC 965.30; 20th Edition, 2016PotassiumAOAC 986.24; 20th Edition, 2016PhosphorousAOAC 996.06; 20th Edition, 2016Fatty acid profile:AOAC 996.06; 20th Edition, 2016total Saturated Fatty acidsAOAC 996.06; 20th Edition, 2016total Monounsaturated Fatty acidsAOAC 996.06; 20th Edition, 2016Trans fatty acidsAOAC 996.06; 20th Edition, 2016

Laboratory

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SI. Product / Material	Specific Test	Test Method Sp	ecification	Range of Testing /

51.	of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
4.	Edible Oils & Fats	Moisture	IS 548 (Part-1), Cl.5.1	0.1 g/100g to 15 g/100g
		Specific Gravity /	IS 548 (Part1)	0.5 to 1.0
		Relative Density		
		Saponification Value	IS 548 (Part1)	10 to 250
		Iodine Value	IS 548 (Part1)	2 to 200
		Acid Value	IS 548 (Part1)	0.5 to 40
		Peroxide Value	IS 548 (Part1)	0.1 to 30
		Free Fatty Acid	IS 548 (Part1)	0.1 g/100g to 20 g/100g
		Fatty acid profile:		
		total Saturated Fatty acids	AOAC 963.22; 20th Edition, 2016	0.1 g/100g to 80 g/100g
		total Monounsaturated	AOAC 963.22; 20th	0.1 g/100g to 80 g/100g
		Fatty acids	Edition, 2016	
		total Polyunsaturated fatty acids	AOAC 963.22; 20th Edition, 2016	0.1 g/100g to 85 g/100g
		Trans-9 Elaidic acids	AOAC 963.22; 20th Edition, 2016	0.1 g/100g to 25 g/100g
		Adulteration Tests; - Bt Test For Sesame Oil, -Mineral Oil Test, -Castor Oil Test, -Cotton Seed Oil Test, - Ground Nut Oil Test,	IS 548 (Part2)	Qualitative test (Positive/Negative)
5.	Coffee and Cocoa	Water Soluble Ash	IS 13855	0.1 g/100g to 50 g/100g
	products,	Acid Insoluble Ash	IS 612 / IS 13857	0.1 g/100g to 20 g/100g
	Roasted chicory	Water Soluble Extract	IS 13862	0.1 g/100g to 80 g/100g
		total Ash	IS 612 / IS 13858	0.1 g/100g to 50 g/100g
		Moisture	IS 612	0.1 g/100g to 25 g/100g
		Water Soluble Matter	IS 612	0.1 g/100g to 80 g/100g
		Crude Fiber	IS 10226 (Part1)	0.1 g/100g to 25 g/100g
6.	Теа	Water Soluble Ash	IS 13855	0.1 g/100g to 50 g/100g
		Acid Insoluble Ash	IS 13857	0.1 g/100g to 20 g/100g
		Water Soluble Extract	IS 13862	0.1 g/100g to 80 g/100g
		total Ash	IS 13858	0.1 g/100g to 50 g/100g

Laboratory

Rasayan Laboratories, Lambhvel, Anand, Gujarat

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SI.	Product / Material of Test			Range of Testing / Limits of Detection	

	of Test	Performed	against which tests are performed	Limits of Detection
		Moisture	IS 612	0.1 g/100g to 25 g/100g
		Crude Fiber	IS 10226 (Part1)	0.1 g/100g to 25 g/100g
7.	Milk And Dairy Proc	lucts		<u>.</u>
a.	Skimmed Milk	Moisture	IS 11623	0.1 g/100g to 30 g/100g
	Powder Standard	total Solids	IS 12333	5 g/100g to 96 g/100g
	Grade, Skimmed	Milk Fat	IS 11721	0.1 g/100g to 20 g/100g
	Milk Powder Extra	total Ash	IS 14433	0.1 g/100g to 15 g/100g
	Grade, Whole Milk Powder	Protein	IS 7219	5.0 g/100g to 85 g/100g
b.	Ice Cream And	total Solids	IS 2802	5 g/100g to 60 g/100g
	Frozen Dessert	Protein	IS 7219	0.5 g/100g to 7.0 g/100g
		Fat	IS 2802	0.1 g/100g to 20 g/100g
C.	Milk	Fat	IS 1479 (Part II)	0.5 g/100g to 15 g/100g
		Solids (total) In Milk	IS 1479 (Part II)	5 g/100g to 40 g/100g
		Solids Not Fat	IS 1479 (Part II)	0.5 g/100g to 15 g/100g
d.	Cream	Fat	IS 3509	0.5 g/100g to 70 g/100g
е.	Shrikhand	total Solids	IS 1166	5 g/100g to 70 g/100g
		Milk Fat	IS 1166	0.5 g/100g to 15 g/100g
		Milk Protein	IS 7219	0.5 g/100g to 15 g/100g
		total Ash	IS 1166	0.5 g/100g to 15 g/100g
8.	Bakery and	Moisture	IS 12711 / IS 15271	1 g/100g to 20 g/100g
	confectionary	Fat (ether extract)	IS 12711 / IS 15271	0.5 g/100g to 50 g/100g
	Products:	Acidity of Extracted Fat	IS 15271 / IS 12711	0.1 g/100g to 10 g/100g
	Nameen	(As oleic acid)		
	(Farsaan),	total Ash	IS 12711	0.5 g/100g to 10 g/100g
	Snacks, Pickles, &	Protein	IS 7219	0.5 g/100g to 55 g/100g
	Ready to eat food.	Potassium	AOAC 965.30; 20th Edition, 2016	50 mg/kg to 15000 mg/kg
		Iron	IS 14433 / AOAC 985.35; 20th Edition, 2016 / FSSAI: Manual of Methods of Analysis of Foods, Metals, Cl. 3.1, Pg. 10	5 mg/kg to 5000 mg/kg

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SI. Product / Material	Specific Test	Test Method Sp	ecification Range of Testing /

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Calcium	AOAC 944.03; 20th Edition, 2016	1 mg/kg to 3500 mg/kg
		Sodium	AOAC 966.16; 20th Edition, 2016	1 mg/kg to 35000 mg/kg
		Acid Insoluble Ash	IS 12711 / IS 15271	0.1 g/100g to 20 g/100g
		Carbohydrate	RL/039, Issue No.:02, Issue Date: 13.02.2018/ IS 2234	0.5 g/100g to 75 g/100g
		Calories / Metabolic Energy	RL/040, Issue No.:02, Issue Date: 13.02.2018	5 Kcal/100g to 900 Kcal/100g
		Crude Fiber Fatty acid profile:	IS 12711	0.1 g/100g to 5 g/100g
		total Saturated Fatty acids	AOAC 996.06; 20th Edition, 2016	0.1 g/100g to 50 g/100g
		total Monounsaturated Fatty acids	AOAC 996.06; 20th Edition, 2016	0.1 g/100g to 50 g/100g
		total Polyunsaturated fatty acids	AOAC 996.06; 20th Edition, 2016	0.1 g/100g to 50 g/100g
		Trans-9 Elaidic acids	AOAC 996.06; 20th Edition, 2016	0.1 g/100g to 10 g/100g
9.	Poultry & poultry products: Egg Powder	Fat (ether extract) Protein	IS 4723 IS 7219	0.5 g/100g to 30 g/100g 0.5 g/100g to 60 g/100g
10.	Fruit And Fruit	Moisture	IS 4624	1 g/100g to 20 g/100g
	Products: Fresh and dehydrated	Fat total Ash	IS 12711 IS 4628	0.5 g/100g to 30 g/100g
	fruit and fruit	Protein	IS 4628 IS 7219	0.5 g/100g to 15 g/100g 0.5 g/100g to 10 g/100g
	products	Potassium	AOAC 965.30; 20th Edition, 2016	50 mg/kg to 10000 mg/kg
		Iron	IS 14433 / AOAC 985.35; 20th Edition, 2016 / FSSAI: Manual of Methods of Analysis of Foods, Metals, Cl. 3.1, Pg. 10	5 mg/kg to 5000 mg/kg

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SI.	Product / Material	Specific Test	Test Method	Specification	Range of Testing /	

51.	of Test	Performed	against which tests are performed	Limits of Detection
		Calcium	AOAC 944.03; 20th Edition, 2016	1 mg/kg to 3500 mg/kg
		Sodium	AOAC 966.16; 20th Edition, 2016	1 mg/kg to 3500 mg/kg
		Acid Insoluble Ash	IS 12711	0.1 g/100g to 20 g/100g
		Carbohydrate	RL/039, Issue No.:02, Issue Date: 13.02.2018/ IS 2234	0.5 g/100g to 75 g/100g
		Calories / Metabolic Energy	RL/040, Issue No.:02, Issue Date: 13.02.2018	5 Kcal/100g to 900 Kcal/100g
		Crude Fiber	IS 10226 (Part1)	0.1 g/100g to 5 g/100g
		Fatty acid profile:		
		total Saturated Fatty acids	AOAC 996.06; 20th Edition, 2016	0.1 g/100g to 20 g/100g
		total Monounsaturated Fatty acids	AOAC 996.06; 20th Edition, 2016	0.1 g/100g to 20 g/100g
		total Polyunsaturated fatty acids	AOAC 996.06; 20th Edition, 2016	0.1 g/100g to 20 g/100g
		Trans fatty acids (Trans- 9 Elaidic Acid)	AOAC 996.06; 20 th Edition, 2016	0.1 g/100g to 5 g/100g
11.	Vegetables &	Moisture	IS 4624	1 g/100g to 20 g/100g
	vegetable	Fat	IS 12711	0.5 g/100g to 30 g/100g
	products:	total Ash	IS 4628	0.5 g/100g to 15 g/100g
	Fresh & De-	Protein	IS 7219	0.5 g/100g to 10 g/100g
	hydrated Vegetables	Potassium	AOAC 965.30; 20th Edition, 2016	50 mg/kg to 10000 mg/kg
		Iron	IS 14433 / AOAC 985.35; 20th Edition, 2016 / FSSAI: Manual of Methods of Analysis of Foods, Metals, Cl. 3.1, Pg. 10	5 mg/kg to 5000 mg/kg

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SI. Product / Material	Specific Test	Test Method Spec	cification Range of Testing /

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Calcium	AOAC 944.03; 20th Edition, 2016	1 mg/kg to 3500 mg/kg
		Sodium	AOAC 966.16; 20th Edition, 2016	1 mg/kg to 3500 mg/kg
		Acid Insoluble Ash	IS 12711	0.1 g/100g to 20 g/100g
		Carbohydrate	RL/039, Issue No.:02, Issue Date: 13.02.2018/ IS 2234	0.5 g/100g to 75 g/100g
		Calories / Metabolic Energy	RL/040, Issue No.:02, Issue Date: 13.02.2018	5 Kcal/100g to 900 Kcal/100g
		Crude Fiber	IS 10226 (Part1)	0.1 g/100g to 5 g/100g
		Fatty acid profile:		
		total Saturated Fatty acids	AOAC 996.06; 20th Edition, 2016	0.1 g/100g to 20 g/100g
		total Monounsaturated Fatty acids	AOAC 996.06; 20th Edition, 2016	0.1 g/100g to 20 g/100g
		total Polyunsaturated fatty acids	AOAC 996.06; 20th Edition, 2016	0.1 g/100g to 20 g/100g
		Trans fatty acids (Trans- 9 Elaidic Acid)	AOAC 996.06; 20th Edition, 2016	0.1 g/100g to 5 g/100g
12.	Others Food Specif			
a.	Casein	Protein	IS 7219	0.5 g/100g to 95 g/100g
		Moisture	IS 1167	0.1 g/100g to 20 g/100g
		Fat	IS 1167	0.5 g/100g to 25 g/100g
		Acid Insoluble Ash	IS 1167	0.1 g/100g to 10 g/100g
		total Ash	IS 1167	0.5 g/100g to 15 g/100g
		Nitrogen	IS 1167	0.1 g/100g to 14.5 g/100g
		total Acidity In Terms of 0.1n NaOH Per Gram	IS 1167	1 ml to 25 ml
		Free Acidity In Terms of 0.1n NaOH Per 10 g.	IS 1167	0.5 ml to 15 ml
		Acid value	RL/032, Issue No.:02, Issue Date: 13.02.2018	20 to 70

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SI. Product / Material	Specific Test Method	Specification Range of Testing /

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Borax Solubility Test	RL/029, Issue No.:02, Issue Date: 13.02.2018	Qualitative test
		Emulsification viscosity	RL/030, Issue No.:02, Issue Date: 13.02.2018	50 g to 1500 g
13.	Tobacco &	total Ash	IS 5643	0.5 g/100g to 20.0 g/100g
	Tobacco products:	Nicotine (As total Alkaloid)	AOAC 960.08; 20th Edition, 2016	0.25 g/100g to 7.0 g/100g
	Tobacco –	Acid Insoluble Ash	IS 5643	0.5 g/100g to 10.0 g/100g
	Calcatti, Desi	Ether Extract	IS 7874	0.5 g/100g to 35 g/100g
	Patti, Dakhru, Tobacco Dust,	Potassium.	AOAC 965.30; 20th Edition, 2016	50 mg/kg to 20000 mg/kg
	Bidi Patti,	Sodium.	AOAC 966.16; 20th Edition, 2016	50 mg/kg to 25000 mg/kg
		Calcium	AOAC 944.03; 20th Edition, 2016	50 mg/kg to 10000 mg/kg
		Iron	IS 14433 / AOAC 985.35; 20th Edition, 2016 / FSSAI: Manual of Methods of Analysis of Foods, Metals, Cl. 3.1, Pg. 10	5 mg/kg to 3500 mg/kg
III.	RESIDUES IN FOOI	PRODUCTS		
1.	Food Products, Bakery and	Arsenic	AOAC 986.15; 20th Edition, 2016	0.5 mg/kg to 100 mg/kg
	Namkeen, Milk and Milk Products, Fresh and Dehydrated	Lead	AOAC 999.11; 20th Edition, 2016 / FSSAI: Manual of Methods of Analysis of Foods, Metals, Cl. 3.1, Pg.10	2 mg/kg to 100 mg/kg
	Vegetable products, Grains and Flours,	Mercury	FSSAI: Manual of Methods of Analysis of Foods, Metals, Cl. 3.2, Pg. 15	0.5 mg/kg to 100 mg/kg
	Casein, tobacco, Stimulating foods, Spices and	Cadmium	AOAC 999.11; 20th Edition, 2016 / FSSAI: Manual of Methods of Analysis of	0.5 mg/kg to 100 mg/kg

Accreditation Standard	ISO/IEC 17025: 2005	5	
Certificate Number	TC-7115		Page 12 of 12
Validity	31.05.2018 to 30.05.	2020	Last Amended on
SI. Product / Material	Specific Test	Test Method Spe	cification Range of Testing /

51.	of Test	Performed	against which tests are performed	Limits of Detection
	Condiments, Oil seeds, Skimmed		Foods, Metals, Cl. 3.1, Pg. 10	
	milk powder and milk powder, Egg Powder.	Zinc	AOAC 999.11; 20th Edition, 2016 / FSSAI: Manual of Methods of Analysis of Foods, Metals, Cl. 3.1, Pg. 10	1.0 mg/kg to 1000 mg/kg
		Manganese	AOAC 985.35; 20th Edition, 2016	1.0 mg/kg to 500 mg/kg
		Copper	AOAC 999.11; 20th Edition, 2016 / FSSAI: Manual of Methods of Analysis of Foods, Metals, Cl. 3.1, Pg. 10	5.0 mg/kg to 500 mg/kg
IV.	LUBRICANTS			
1.	Mineral Oil (Industrial Oil),	Flash Point	IS 1448 Part 69- Cleveland Open Cup Method	150 0C to 350 0C
	Gear Oil, Cutting Oil For Grinding	Fire Point	IS 1448 Part 69 -Cleveland Open Cup Method	150 °C to 350 °C
	Machine, Quenching Oil.	Density at 15ºC	IS 1448 Part 32	0.8000 gm/cm ³ to 1.5000 g/cm ³
		Saponification Value	IS 1448 Part 55 (S -1)	10 to 150