Laboratory	National Collateral Management Services Limited, Commgrade-
-	Testing Services, Area Lab (Kanpur), Plot-46, B/11 (1st Floor),
	Co-operative Industrial Area, Dada Nagar, Kanpur, Uttar Pradesh

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SI.	Product / Material	Specific Test Performed	Test Method Specification	Range of Testing /
	of Test	-	against which tests are	Limits of Detection
			performed	

BIOLOGICAL TESTING

I.	ANIMAL FOOD & FEED			
1.	Animal Feed/ Pet food	Aerobic Colony Count Bacterial Count	IS 5402 ISO 4833(Part 1)	≥10CFU/g
		Total Plate Count	ISO 4833(Part 2)	≥10CFU/g
			US FDA BAM-(Chapter-3)	≥10CFU/g
		Yeast & Mould	IS 5403	≥10CFU/g
		Escherichia coli	IS 5887(Part 1)	≥10CFU/g
		Escherichia coli	IS 5887(Part 1)	Present/Absent per g or 25 gm
		Escherichia coli	US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
			IS 5887(Part 1)	0.3 to >110 MPN/g
		Coliform	IS 5401(Part 1)	≥10CFU/g
			ISO 4832	
			US FDA BAM-(Chapter-4)	
		Coliform	IS 5401(Part 2)	0.3 to >110 MPN/g
			ISO 4831	
			US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
		Coliform	ISO 4831	Present/Absent per g
		Staphylococcus aureus	IS 5887(Part 2) IS 5887(Part 8)	≥10CFU/g
		Staphylococcus aureus	IS 5887(Part 2)	Present/Absent per g
		Salmonella	IS 5887(Part 3)	Present/Absent per 25 g
		Shigella	IS 5887(Part 7)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part 1) IS 14988(Part 1)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part 2) IS 14988(Part 2)	≥10CFU/g
		Bacillus cereus	IS 5887(Part 6) ISO 7932	≥10CFU/g

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		Vibrio cholera	IS 5887(Part 5)	Present/Absent per 25 g
		Vibrio parahaemolyticus	IS 5887(Part 5)	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part 2)	Present/Absent per g
		Feacal Streptococci	IS 5887(Part 2)	≥10CFU/g
		Enterobacteriaceae	ISO 21528(Part 2)	≥10CFU/g
		Enterobacteriaceae	ISO 21528(Part 1)	Present/Absent per g
2.	Bakery and Confectionery	Aerobic Colony Count Bacterial Count	IS 5402 ISO 4833(Part 1)	≥10CFU/g
	Products	Total Plate Count	US FDA BAM-(Chapter-3)	
		Yeast & Mould	IS 5403	≥10CFU/g
		Escherichia coli	IS 5887(Part 1)	≥10CFU/g
		Escherichia coli	IS 5887(Part 1)	Present/Absent per g or 25 gm
		Escherichia coli	US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
			IS 5887(Part 1)	0.3 to >110 MPN/g
		Coliform	IS 5401(Part 1) ISO 4832 US FDA BAM-(Chapter-4)	≥10CFU/g
		Coliform	IS 5401(Part 2) ISO 4831	0.3 to >110 MPN/g
			US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
		Coliform (Detection)	ISO 4831	Present/Absent per g
		Staphylococcus aureus	IS 5887(Part 2) IS 5887(Part 8)	≥10CFU/g
		Staphylococcus aureus	IS 5887(Part 2)	Present/Absent per g
		Salmonella	IS 5887(Part 3)	Present/Absent per 25 g
		Shigella	IS 5887(Part 7)	Present/Absent per 25 g
		Lactic Acid Bacteria	ISO 15214	≥10CFU/g
		Listeria monocytogens	ISO 11290(Part 1) IS 14988(Part 1)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part 2) IS 14988(Part 2)	≥10CFU/g

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		Bacillus cereus	IS 5887(Part 6)	≥10CFU/g
		Vibrio cholera	IS 5887(Part 5)	Present/Absent per 25 g
		Vibrio parahaemolyticus	IS 5887(Part 5)	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part 2)	≥10CFU/g
		Enterobacteriaceae	ISO 21528(Part 2)	≥10CFU/g
		Enterobacteriaceae	ISO 21528(Part 1)	Present/Absent per g
3.	Beverages (Alcoholic/Non	Aerobic Colony Count Bacterial Count	IS 5402 ISO 4833(Part 1)	≥1 CFU/ml
	alcoholic)	Total Plate Count	US FDA BAM-(Chapter-3)	≥1 CFU/ml
		Yeast & Mould	IS 5403	≥1CFU/mI
		Escherichia coli	IS 5887(Part 1)	≥1 CFU/ml
		Escherichia coli	IS 5887(Part 1)	Present/Absent per g or 25 ml
		Escherichia coli	US FDA BAM-(Chapter-4) IS 5887(Part 1)	3 to >1100 MPN/ml 0.3 to >110 MPN/g
		Coliform	IS 5401(Part 1) ISO 4832 US FDA BAM-(Chapter-4)	≥1CFU/ml
		Coliform	IS 5401(Part 2) ISO 4831	0.3 to >110 MPN/ml
			US FDA BAM-(Chapter-4)	3 to >1100 MPN/ml
		Coliform	ISO 4831	Present/Absent per ml/100ml
		Staphylococcus aureus	IS 5887(Part 2) IS 5887(Part 8)	≥1 CFU/ml
		Staphylococcus aureus	IS 5887(Part 2)	Present/Absent per ml
		Salmonella	IS 5887(Part 3)	Present/Absent per 25 ml
		Shigella	IS 5887(Part 7)	Present/Absent per 25 ml
		Lactic Acid Bacteria	ISO 15214	≥1 CFU/ml
		Listeria monocytogens	ISO 11290(Part 1) IS 14988(Part 1)	Present/Absent per 25 ml
		Listeria monocytogens	ISO 11290(Part 2) IS 14988(Part 2)	≥1 CFU/ml

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		Bacillus cereus	IS 5887(Part 6) ISO 7932	≥1 CFU/ml
		Vibrio cholera	IS 5887(Part 5)	Present/Absent per 25 ml
		Vibrio parahaemolyticus	IS 5887(Part 5)	Present/Absent per 25 ml
		Enterobacteriaceae	ISO 21528(Part 2)	≥1 CFU/mI
		Enterobacteriaceae	ISO 21528(Part 1)	Present/Absent per ml
		Thermophillic bacteria count	IS 4251	≥1 CFU/mI
		Proteolytic bacteria count	IS 4251	≥1 CFU/mI
		Lipolytic bacteria count	IS 4251	≥1 CFU/mI
		Psychrotropic microorganisms	ISO 17410	≥10 CFU/ml
4.	Canned Foods and Processed	Aerobic Colony Count Bacterial Count	IS 5402 ISO 4833(Part 1)	≥10 CFU/g
	Foods	Total Plate Count	US FDA BAM-(Chapter-3)	≥10 CFU/g
		Yeast & Mould	IS 5403	≥10 CFU/g
		Escherichia coli	IS 5887(Part 1)	≥10 CFU/g
		Escherichia coli	IS 5887(Part 1)	Present/Absent per g or 25 gm
		Escherichia coli	US FDA BAM- (Chapter-4)	3 to >1100 MPN/g
			IS 5887(Part 1)	0.3 to >110 MPN/g
		Coliform	IS 5401(Part 1) ISO 4832 US FDA BAM-(Chapter-4)	≥10 CFU/g
		Coliform	IS 5401(Part 2) ISO 4831	0.3 to >110 MPN/g
			US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
		Coliform	ISO 4831	Present/Absent per g
		Staphylococcus aureus	IS 5887(Part-2) IS 5887(Part 8)	≥10 CFU/g
		Staphylococcus aureus	IS 5887(Part 2)	Present/Absent per g
		Salmonella	IS 5887(Part 3)	Present/Absent per 25 g

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		Shigella	IS 5887(Part 7)	Present/Absent per 25 g
		Lactic Acid Bacteria	ISO 15214	≥10 CFU/g
		Listeria monocytogens	ISO 11290(Part 1) IS 14988(Part 1)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part 2) IS 14988(Part 2)	≥10 CFU/g
		Bacillus cereus	IS 5887(Part 6)	≥10 CFU/g
		Vibrio cholera	IS 5887(Part 5)	Present/Absent per 25 g
		Vibrio parahaemolyticus	IS 5887(Part 5)	Present/Absent per 25 g
		Enterobacteriaceae	ISO 21528(Part 2)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528(Part 1)	Present/Absent per g
		Aciduric Flat Sour	APHA-(Chapter-25.61)	≥10 cfu/g
		Organisms (as Bacillus coagulans)		≥1 cfu/ml
		Mesophillic Aerobic Spore Formers	APHA-(Chapter-23.51)	1 CFU/g to 150000 CFU/g
5.	Cereal, Pulses and Their	Aerobic Colony Count Bacterial Count	IS 5402 ISO 4833(Part 1)	≥10 CFU/g
1	Products	Total Plate Count	US FDA BAM-(Chapter-3)	≥10 CFU/g
		Yeast & Mould	IS 5403	≥10 CFU/g
		Escherichia coli	IS 5887(Part 1)	≥10 CFU/g
		Escherichia coli	IS 5887(Part 1)	Present/Absent per g or 25 gm
		Escherichia coli	US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
1			IS 5887(Part 1)	0.3 to >110 MPN/g
		Coliform	IS 5401(Part 1) ISO 4832 US FDA BAM-(Chapter-4)	≥10 CFU/g
		Coliform	IS 5401(Part 2) ISO 4831	0.3 to >110 MPN/g
L			US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
		Coliform	ISO 4831	Present/Absent per g

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		Staphylococcus aureus	IS 5887(Part 2) IS 5887(Part 8)	≥10 CFU/g
		Staphylococcus aureus	IS 5887(Part 2)	Present/Absent per g
		Salmonella	IS 5887(Part 3)	Present/Absent per 25 g
		Shigella	IS 5887(Part 7)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part 1) IS 14988(Part 1)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part 2) IS 14988(Part 2)	≥10 CFU/g
		Bacillus cereus	IS 5887(Part 6)	≥10 CFU/g
		Vibrio cholera	IS 5887(Part 5)	Present/Absent per 25 g
		Vibrio parahaemolyticus	IS 5887(Part 5)	Present/Absent per 25 g
		Enterobacteriaceae	ISO 21528(Part 2)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528(Part 1)	Present/Absent per g
6.	Coffee and Cocoa	Aerobic Colony Count	IS 5402	≥10 CFU/g
	Products	Bacterial Count	ISO 4833(Part 1)	≥1 CFU/ml
		Total Plate Count	US FDA BAM-(Chapter-3)	≥10 CFU/g ≥1 CFU/ml
		Yeast & Mould	IS 5403	≥10 CFU/g ≥1 CFU/ml
		Escherichia coli	IS 5887(Part 1)	≥10 CFU/g ≥1 CFU/ml
		Escherichia coli	IS 5887(Part 1) US FDA BAM (Chapter-4)	Present/Absent per g or 25 ml
		Escherichia coli	US FDA BAM-(Chapter-4)	0.3 to >110 MPN/g
			IS 5887(Part 1)	0.3 to >110 MPN/g
		Coliform	IS 5401(Part 1)	≥10 CFU/g
			ISO 4832 US FDA BAM-(Chapter-4)	≥1 CFU/ml
		Coliform	IS 5401(Part 2) ISO 4831	0.3 to >110 MPN per g/ml
			US FDA BAM-(Chapter-4)	3 to >1100 MPN per g/ml
		Coliform	ISO 4831	Present/Absent per g/ml

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		Staphylococcus aureus	IS 5887(Part 2) IS 5887(Part 8)	≥10 CFU/g ≥1 CFU/ml
		Staphylococcus aureus	IS 5887(Part 2)	Present/Absent per g/ml
		Salmonella	IS 5887(Part 3)	Present/Absent per 25 g/ml
		Shigella	IS 5887(Part 7)	Present/Absent per 25 g/ml
		Listeria monocytogens	ISO 11290(Part 1) IS 14988(Part 1)	Present/Absent per 25 g/ml
		Listeria monocytogens	ISO 11290(Part 2) IS 14988(Part 2)	≥10 CFU/g ≥1 CFU/ml
		Bacillus cereus	IS 5887(Part 6)	≥10 CFU/g ≥1 CFU/ml
		Vibrio cholerae	IS 5887(Part 5)	Present/Absent per 25 g/ml
		Vibrio parahaemolyticus	IS 5887(Part 5)	Present/Absent per 25 g/ml
		Feacal Streptococci	IS 5887(Part 2)	≥10 CFU/g ≥1 CFU/ml
		Enterobacteriaceae	ISO 21528(Part 2)	≥10 CFU/g ≥1 CFU/ml
		Enterobacteriaceae	ISO 21528(Part 1)	Present/Absent per g/ml
7.	Oil Seeds and	Aerobic Colony Count	IS 5402	≥10 CFU/g
	By-Products/	Bacterial Count	ISO 4833(Part 1)	≥1 CFU/mI
	Edible Oils and	Total Plate Count	US FDA BAM-(Chapter-3)	
	Fats	Yeast & Mould	IS 5403	≥10 CFU/g ≥1 CFU/ml
		Escherichia coli	IS 5887(Part 1)	≥10 CFU/g ≥1 CFU/ml
		Escherichia coli	IS 5887(Part 1)	Present/Absent per g or 25 gm
		Escherichia coli	US FDA BAM-(Chapter-4)	3 to >1100 MPN per g/ml

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			IS 5887(Part 1)	0.3 to >110 MPN/g
		Coliform	IS 5401(Part 1)	≥10 CFU/g
			ISO 4832	≥1 CFU/ml
			US FDA BAM-(Chapter-4)	
		Coliform	IS 5401(Part 2)	0.3 to >110 MPN per g/ml
			ISO 4831	
			US FDA BAM-(Chapter-4)	3 to >1100 MPN per g/ml
		Coliform	ISO 4831	Present/Absent per g/ml
		Staphylococcus aureus	IS 5887(Part 2)	≥10 CFU/g
			IS 5887(Part 8)	≥1 CFU/ml
		Staphylococcus aureus	IS 5887(Part 2)	Present/Absent per g/ml
		Salmonella	IS 5887(Part 3)	Present/Absent per 25
				g/ml
		Shigella	IS 5887(Part 7)	Present/Absent per 25
				g/ml
		Listeria monocytogens	ISO 11290(Part 1)	Present/Absent per 25
			IS 14988(Part 1)	g/ml
		Listeria monocytogens	ISO 11290(Part 2)	≥10 CFU/g
			IS 14988(Part 2)	≥1 CFU/ml
		Bacillus cereus	IS 5887(Part 6)	≥10 CFU/g
				≥1 CFU/ml
		Vibrio cholerae	IS 5887(Part 5)	Present/Absent per 25 g/ml
		Vibrio parahaemolyticus	IS 5887(Part 5)	Present/Absent per 25 g/ml
		Feacal Streptococci	IS 5887(Part 2)	≥10 CFU/g ≥1CFU/ml
		Enterobacteriaceae	ISO 21528(Part 2)	≥10 CFU/g ≥1 CFU/ml
		Enterobacteriaceae	ISO 21528(Part 1)	Present/Absent per g/ml

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8.	Egg and Egg	Aerobic Colony Count	IS 5402	≥10 CFU/g
	Products/	Bacterial Count	ISO 4833(Part 1)	°,
	Poultry Products	Total Plate Count	US FDA BAM-(Chapter-3)	≥10 CFU/g
		Escherichia coli	IS 5887(Part 1)	≥10 CFU/g
		Escherichia coli	IS 5887(Part 1)	Present/Absent per g or 25 gm
		Escherichia coli	US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
			IS 5887(Part 1)	0.3 to >110 MPN/g
		Coliform	IS5401(Part1) ISO 4832	≥10 CFU/g
			US FDA BAM-(Chapter-4)	C C
		Coliform	IS 5401(Part 2) ISO 4831	0.3 to >110 MPN/g
			US FDA BAM-(Chapter 4)	3 to >1100 MPN/g
		Coliform	ISO 4831	Present/Absent per g
		Staphylococcus aureus	IS 5887(Part 2) IS 5887(Part 8)	≥10 CFU/g
		Staphylococcus aureus	IS 5887(Part 2	Present/Absent per g
		Salmonella	IS 5887(Part 3)	Present/Absent per 25 g
		Shigella	IS 5887(Part 7)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part 1) IS 14988(Part 1)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290 (Part 2) IS 14988(Part 2)	≥10 CFU/g
		Bacillus cereus	IS 5887(Part 6)	≥10 CFU/g
		Vibrio cholerae	IS 5887(Part 5)	Present/Absent per 25 g
		Vibrio parahaemolyticus	IS 5887(Part 5)	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part 2)	Present/Absent per g
		Feacal Streptococci	IS 5887(Part 2)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528(Part 2)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528(Part 1)	Present/Absent per g
		Psychotropic	ISO 17410	≥10 CFU/g
		microorganisms	IS 1479(Part 3)	
		Yeast &Mould	IS 5403	≥10 CFU/g

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9.	Fish And Sea	Aerobic Colony	IS 5402	≥10 CFU/g
	Food	Count/Bacterial Count/	ISO 4833(Part 1)	
		Total Plate Count	US FDA BAM-(Chapter-3)	≥10 CFU/g
		Yeast and Mould	IS 5403	≥10 CFU/g
		Escherichia coli	IS 5887(Part 1)	≥10 CFU/g
		Escherichia coli	IS 5887(Part 1)	Present/Absent per g or 25 gm
		Escherichia coli	US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
			IS 5887(Part 1)	0.3 to >110 MPN/g
		Coliform	IS 5401(Part 1)	≥10 CFU/g
			ISO 4832	_
			US FDA BAM-(Chapter-4)	
		Coliform	IS 5401(Part 2)	0.3 to >110 MPN/g
			ISO 4831	
			US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
		Coliform	ISO 4831	Present/Absent per g
		Staphylococcus aureus	IS 5887(Part 2)	≥10 CFU/g
			IS 5887 (Part 8)	
		Staphylococcus aureus	IS 5887(Part 2)	Present/Absent per g
		Salmonella	IS 5887(Part 3)	Present/Absent per 25 g
		Shigella	IS 5887(Part 7)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part 1) IS 14988(Part 1)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part 2) IS 14988(Part 2)	≥10 CFU/g
		Bacillus cereus	IS 5887(Part 6)	≥10 CFU/g
		Vibrio cholerae	IS 5887(Part 5)	Present/Absent per 25 g
		Vibrio parahaemolyticus	IS 5887(Part 5)	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part 2)	Present/Absent per g
		Enterobacteriaceae	ISO 21528(Part 2)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528(Part 1)	Present/Absent per g
		Psychrotropic microorganisms	ISO 17410	≥10 CFU/g

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10.	Fruit and Fruit	Aerobic Colony	IS 5402	≥10 CFU/g
	Products	Count/Bacterial Count/	ISO 4833(Part 1)	≥1 CFU/ml
		Total Plate Count	ISO 4833(Part 2)	≥10 CFU/g
				≥1 CFU/ml
			US FDA BAM-(Chapter-3)	≥10 CFU/g
				≥1 CFU/ml
		Yeast & Mould	IS 5403	≥10 CFU/g
				≥1 CFU/ml
		Escherichia coli	IS 5887(Part 1)	≥10 CFU/g
				≥1 CFU/ml
		Escherichia coli	IS 5887(Part 1)	Present/Absent per g or 25 ml
		Escherichia coli	US FDA BAM-(Chapter-4)	0.3 to >110 MPN/g
			IS 5887(Part 1)	0.3 to >110 MPN per
				g/ml
		Coliform	IS 5401(Part 1)	≥10 CFU/g
			ISO 4832	≥1 CFU/ml
			US FDA BAM-(Chapter-4)	
		Coliform	IS 5401(Part 2)	0.3 to >110 MPN per g/ml
			ISO 4831	
			US FDA BAM-(Chapter-4)	3 to >1100 MPN per g/ml
		Coliform	ISO 4831	Present/Absent per g/ml
		Staphylococcus aureus	IS 5887(Part 2)	≥10 CFU/g
			IS 5887(Part 8)	≥1 CFU/ml
		Staphylococcus aureus	IS 5887(Part 2)	Present/Absent per g/ml
		Salmonella	IS 5887(Part 3)	Present/Absent per 25
				g/ml
		Shigella	IS 5887(Part 7)	Present/Absent per 25
				g/ml
		Lactic Acid Bacteria	ISO 15214	≥10 CFU/g
				≥1 CFU/ml
		Listeria monocytogens	ISO 11290(Part 1)	Present/Absent per 25
			IS 14988(Part 1)	g/ml

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		Listeria monocytogens	ISO 11290(Part 2) IS 14988(Part 2)	≥10 CFU/g ≥1 CFU/ml
		Bacillus cereus	IS 5887(Part 6)	≥10 CFU/g ≥1 CFU/ml
		Vibrio cholerae	IS 5887(Part 5)	Present/Absent per 25 g/ml
		Vibrio parahaemolyticus	IS 5887(Part 5)	Present/Absent per 25 g/ml
		Feacal Streptococci	IS 5887(Part 2)	Present/Absent per g/ml
		Enterobacteriaceae	ISO 21528(Part 2)	≥10 CFU/g ≥1 CFU/ml
		Enterobacteriaceae	ISO 21528(Part 1)	Present/Absent per g/ml
		Aciduric Flat Sour organisms as Bacillus coagulans	APHA-Chapter-25.61	≥10 CFU/g ≥1 CFU/ml
		Psychrotropic microorganisms	ISO 17410	≥10 CFU/g ≥1 CFU/ml
		Incubation at 37 ^o C for 10 days and 55 ^o C for 7 days	IS 2860	Qualitative
11.	Herbs, Spices, Condiments	Total Plate Count	IS 5402 ISO 4833(Part 1)	≥10 CFU/g
			US FDA BAM-(Chapter-3)	≥10 CFU/g
		Yeast & Mould	IS 5403	≥10 CFU/g
		Escherichia coli	IS 5887(Part 1)	≥10 CFU/g
		Escherichia coli	IS 5887(Part 1)	Present/Absent per g or 25 gm
		Escherichia coli	US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
			IS 5887(Part 1)	0.3 to >110 MPN/g
		Coliform	IS 5401(Part 1) ISO 4832:2006	≥10 CFU/g
		Coliform	US FDA BAM-(Chapter-4) IS 5401(Part 2) ISO 4831	0.3 to >110 MPN/g

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			US FDA BAM-(Chapter 4)	3 to >1100 MPN/g
		Coliform	ISO 4831	Present/Absent per g
		Staphylococcus aureus	IS 5887(Part 2) IS 5887(Part 8)	≥10 CFU/g
		Staphylococcus aureus	IS 5887(Part 2)	Present/Absent per g
		Salmonella	IS 5887(Part 3)	Present/Absent per 25 g
		Shigella	IS 5887(Part 7)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part 1) IS 14988(Part 1)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part 2) IS 14988(Part 2)	≥10 CFU/g
		Bacillus cereus	IS 5887(Part 6)	≥10 CFU/g
		Vibrio cholera	IS 5887(Part 5)	Present/Absent per 25 g
		Vibrio parahaemolyticus	IS 5887(Part 5)	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part 2)	Present/Absent per g
		Enterobacteriaceae	ISO 21528(Part 1)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528(Part 1)	Present/Absent per g
		Mesophillic Aerobic Sporeformers	APHA Chapter-23.51	1 to 150000 CFU/g
12.	Honey & Honey Products	Aerobic Colony Count Bacterial Count Total Plate Count	IS 5402 ISO 4833(Part 1)	≥10 CFU/g
			US FDA BAM-(Chapter-3)	≥10 CFU/g
		Yeast & Mould	IS 5403	≥10 CFU/g
		Escherichia coli Escherichia coli	IS 5887(Part 1) IS 5887(Part 1)	≥10 CFU/g Present/Absent per g or 25 gm
		Escherichia coli	US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
			IS 5887(Part 1)	0.3 to >110 MPN/g
		Coliform	IS 5401(Part 1) ISO 4832 US FDA BAM-(Chapter-4)	≥10 CFU/g

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		Coliform	IS 5401(Part 2) ISO 4831	0.3 to >110 MPN/g
			US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
		Coliform	ISO 4831	Present/Absent per g
		Staphylococcus aureus	IS 5887(Part 2) IS 5887(Part 8)	≥10 CFU/g
		Staphylococcus aureus	IS 5887(Part 2)	Present/Absent per g
		Salmonella	IS 5887(Part 3)	Present/Absent per 25 g
		Shigella	IS 5887(Part 7)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part 1) IS 14988(Part 1)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part 2) IS 14988(Part 2)	≥10 CFU/g
		Bacillus cereus	IS 5887(Part 6)	≥10 CFU/g
		Vibrio cholerae	IS 5887(Part 5)	Present/Absent per 25 g
		Vibrio parahaemolyticus	IS 5887(Part 5)	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part 2)	Present/Absent per g
		Enterobacteriaceae	ISO 21528(Part 2)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528(Part 1)	Present/Absent per g
		Psychotropic microorganisms	ISO 17410 IS 1479(Part 3)	≥10 CFU/g
13.	Infant Foods	Aerobic Colony Count Bacterial Count	IS 5402 ISO 4833(Part 1)	≥10 CFU/g
		Total Plate Count	US FDA BAM-(Chapter-3)	≥10 CFU/g
		Yeast & Mould	IS 5403	≥10 CFU/g
		Escherichia coli	IS 5887(Part 1)	≥10 CFU/g
		Escherichia coli	IS 5887(Part 1)	Present/Absent per g or 25 gm
		Escherichia coli	US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
			IS 5887(Part 1)	0.3 to >110 MPN/g
		Coliform	IS 5401(Part 1) ISO 4832 US FDA BAM-(Chapter-4)	≥10 CFU/g

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		Coliform	IS 5401(Part 2) ISO 4831	0.3 to >110 MPN/g
			US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
		Coliform	ISO 4831	Present/Absent per g
		Staphylococcus aureus	IS 5887(Part 2) IS 5887(Part 8)	≥10 CFU/g
		Staphylococcus aureus	IS 5887(Part 2)	Present/Absent per g
		Salmonella	IS 5887(Part 3)	Present/Absent per 25 g
		Shigella	IS 5887(Part 7)	Present/Absent per 25 g
		Lactic Acid Bacteria	ISO 15214	≥10 CFU/g
		Listeria monocytogens	ISO 11290(Part 1) IS 14988(Part 1)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part 2) IS 14988 (Part 2)	≥10 CFU/g
		Bacillus cereus	IS 5887(Part 6)	≥10 CFU/g
		Vibrio cholera	IS 5887(Part 5)	Present/Absent per 25 g
		Vibrio parahaemolyticus	IS 5887(Part 5)	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part 2)	Present/Absent per g
		Feacal Streptococci	IS 5887(Part 2)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528(Part 2)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528(Part 1)	Present/Absent per g
		Accelerated Storage Test	IS 1166	Qualitative
		Aciduric Flat sour organisms	APHA-Chapter-25.62	≥10 CFU/g
		Thermophillic bacteria count	IS 1479(Part 3)	≥10 CFU/g
		Proteolytic bacteria count	APHA Chapter-16	≥10 CFU/g
		Lipolytic bacteria count	APHA Chapter-15	≥10 CFU/g
		Anaerobic mesophillic spore count	APHA Chapter-24	≥10 CFU/g
		Psychotropic Count	ISO 17410 IS 1479(Part 3)	≥10 CFU/g

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		Bacterial Spore (Aerobic)	APHA Chapter-22	1 to 150000 CFU/g
14.	Jams, Jellies, Juices, Sauces &	Aerobic colony count Bacterial count/	IS 5402 ISO 4833(Part 1)	≥10 CFU/g
	Concentrates	Total Plate Count	US FDA BAM-(Chapter-3)	≥10 CFU/g
		Yeast & Mould	IS 5403	≥10 CFU/g
		Escherichia coli	IS 5887(Part 1)	≥10 CFU/g
		Escherichia coli	IS 5887(Part 1)	Present/Absent per g or 25 gm
		Escherichia coli	US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
			IS 5887(Part 1)	0.3 to >110 MPN/g
		Coliform	IS 5401(Part 1)	≥10 CFU/g
			ISO 4832	
			US FDA BAM-(Chapter-4)	
		Coliform	IS 5401(Part 2) ISO 4831	0.3 to >110 MPN/g
			US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
		Coliform	ISO 4831	Present/Absent per g
		Staphylococcus aureus	IS 5887(Part 2) IS 5887(Part 8)	≥10 CFU/g
		Staphylococcus aureus	IS 5887(Part 2)	Present/Absent per g
		Salmonella	IS 5887(Part 3)	Present/Absent per 25 g
		Shigella	IS 5887(Part 7)	Present/Absent per 25 g
		Lactic Acid Bacteria	ISO 15214	≥10 CFU/g
		Listeria monocytogens	ISO 11290(Part 1) IS 14988(Part 1)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part 2) IS 14988(Part 2)	≥10 CFU/g
		Bacillus cereus	IS 5887(Part 6)	≥10 CFU/g
		Vibrio cholerae	IS 5887(Part 5)	Present/Absent per 25 g
		Vibrio parahaemolyticus	IS 5887(Part 5)	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part 2)	Present/Absent per g
		Feacal Streptococci	IS 5887(Part 2)	≥10 CFU/g

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		Enterobacteriaceae	ISO 21528(Part 2)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528(Part 1)	Present/Absent per g
		Aciduric Flat Sour organisms	APHA Chapter-25.61	≥1 CFU/ml
		Psychotropic microorganisms	ISO 17410	≥10 CFU/gm
15	Meat and Meat Product	Aerobic Colony Count Bacterial Count	IS 5402 ISO 4833(Part 1)	≥10 CFU/g
		Total Plate Count	US FDA BAM-(Chapter-3)	≥10 CFU/g
		Yeast & Mould	IS 5403	≥10 CFU/g
		Escherichia coli	IS 5887(Part 1)	≥10 CFU/g
		Escherichia coli	IS 5887(Part 1)	Present/Absent per g or 25 gm
		Escherichia coli	US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
			IS 5887(Part 1)	0.3 to >110 MPN/g
		Coliform	IS 5401(Part 1) ISO 4832 US FDA BAM-(Chapter-4)	≥10 CFU/g
		Coliform	IS 5401(Part-2) ISO 4831	0.3 to >110 MPN/g
			US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
		Coliform	ISO 4831	Present/Absent per g
		Staphylococcus aureus	IS 5887(Part 2) IS 5887(Part 8)	≥10 CFU/g
		Staphylococcus aureus	IS 5887(Part 2)	Present/Absent per g
		Salmonella	IS 5887(Part 3)	Present/Absent per 25 g
		Shigella	IS 5887(Part 7)	Present/Absent per 25 g
		Lactic Acid Bacteria	ISO 15214	≥10 CFU/g
		Listeria monocytogens	ISO 11290(Part 1) IS 14988(Part 1)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part 2) IS 14988(Part 2)	≥10 CFU/g

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		Bacillus cereus	IS 5887(Part 6)	≥10 CFU/g
		Vibrio cholerae	IS 5887(Part 5)	Present/Absent per 25 g
		Vibrio parahaemolyticus	IS 5887(Part 5)	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part 2)	Present/Absent per g
		Enterobacteriaceae	ISO 21528(Part 2)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528(Part 1)	Present/Absent per g
		Incubation test	IS 3044 US FDA BAM Chap-21 A	Qualitative
		Psychotropic Count	ISO 17410 IS 1479(Part 3)	≥10 CFU/g
16.	Milk, Dairy	Aerobic Colony Count	IS 5402	≥10 CFU/g
	Products and	Bacterial Count	ISO 4833(Part 1)	≥1 CFU/ml
	Nutritional	Total Plate Count	US FDA BAM-(Chapter-3)	≥10 CFU/g
	Supplements			≥1 CFU/ml
		Yeast & Mould	IS 5403	≥10 CFU/g
			US FDA BAM Chap-18)	≥1 CFU/ml
		Escherichia coli	IS 5887(Part 1)	≥10 CFU/g ≥1 CFU/ml
		Escherichia coli	IS 5887(Part 1)	Present/Absent per g/ml or 25 g/ml
		Escherichia coli	US FDA BAM-(Chapter-4)	3 to >1100 MPN per g/ml
			IS 5887(Part 1)	0.3 to >110 MPN/g
		Coliform	IS 5401(Part 1)	≥10 CFU/g
			ISO 4832	≥1 CFU/ml
			US FDA BAM-(Chapter-4)	
		Coliform	IS 5401(Part 2) ISO 4831	0.3 to >110 MPN per g/ml
			US FDA BAM-(Chapter-4)	3 to >1100 MPN per g/ml
		Coliform	ISO 4831	Present/Absent per g/ml
		Staphylococcus aureus	IS 5887(Part 2)	≥10 CFU/g
			IS 5887(Part 8)	≥1 CFU/ml
		Staphylococcus aureus	IS 5887(Part 2)	Present/Absent per g/ml

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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
		Salmonella	IS 5887(Part 3)	Present/Absent per 25 g/ml
		Shigella	IS 5887(Part 7)	Present/Absent per 25 g/ml
		Lactic Acid Bacteria	ISO 15214	≥10 CFU/g ≥1 CFU/ml
		Listeria monocytogens	ISO 11290(Part 1) IS 14988(Part 1)	Present/Absent per 25 g/ml
		Listeria monocytogens	ISO 11290(Part 2) IS 14988(Part 2)	≥10 CFU/g ≥1 CFU/ml
		Bacillus cereus	IS 5887(Part 6)	≥10 CFU/g ≥1 CFU/ml
		Vibrio cholera	IS 5887(Part 5)	Present/Absent per 25 g/ml
		Vibrio parahaemolyticus	IS 5887(Part 5)	Present/Absent per 25 g/ml
		Feacal Streptococci	IS 5887(Part 2)	Present/Absent per g/ml
		Enterobacteriaceae	ISO 21528(Part 2)	≥10 CFU/g ≥1 CFU/ml
		Enterobacteriaceae	ISO 21528(Part 1)	Present/Absent per g/ml
		Enterococcus	APHA Chapter 10	≥10 CFU/g ≥1 CFU/ml
		Accelerated Storage Test	IS 1166	Qualitative
		Aciduric Flat sour organisms as Bacillus coagulans	APHA Chapter-25.62/25.63	≥10 CFU/g ≥1 CFU/ml
		Thermophillic bacteria count	IS 1479:(Part 3)	≥10 CFU/g ≥1 CFU/ml
		Proteolytic bacteria count	APHA Chapter-16	≥10 CFU/g ≥1 CFU/ml
		Lipolytic bacteria count	APHA Chapter-15	≥10 CFU/g ≥1 CFU/ml

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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
		Methylene Blue Reduction Test (MBRT)	IS 1479(Part 3)	Qualitative
		Psychotropic Count	ISO 17410 IS 1479(Part 3)	≥10 CFU/g ≥1 CFU/ml
		Bacterial Spore (Aerobic) (as B. cereus)	IS 5887(Part 6)	≥10 CFU/g ≥1 CFU/ml
17.	Nuts and Nut Products	Aerobic Colony Count Bacterial Count	IS 5402 ISO 4833(Part 1)	≥10 CFU/g
		Total Plate Count	US FDA BAM-(Chapter-3)	≥10 CFU/g
		Yeast & Mould	IS 5403	≥10 CFU/g
		Escherichia coli	IS 5887(Part 1)	≥10 CFU/g
		Escherichia coli	IS 5887(Part 1)	Present/Absent per g or 25 gm
		Escherichia coli	US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
			IS 5887(Part 1)	0.3 to >110 MPN/g
		Coliform	IS 5401(Part 1)/ISO 4832/ US FDA BAM-(Chapter-4)	≥10 CFU/g
		Coliform	IS 5401(Part 2)/ISO 4831	0.3 to >110 MPN/g
			US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
		Coliform	ISO 4831	Present/Absent per g
		Staphylococcus aureus	IS 5887(Part 2) IS 5887(Part 8)	≥10 CFU/g
		Staphylococcus aureus	IS 5887(Part 2)	Present/Absent per g
		Salmonella	IS 5887(Part 3)	Present/Absent per 25 g
		Shigella	IS 5887(Part 7)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part 1) IS 14988(Part 1)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part 2) IS 14988(Part 2)	≥10 CFU/g
		Bacillus cereus	IS 5887(Part 6)	≥10 CFU/g
		Vibrio cholera	IS 5887(Part 5)	Present/Absent per 25 g
		Vibrio parahaemolyticus	IS 5887(Part 5)	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part 2)	Present/Absent per g

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		Enterobacteriaceae	ISO 21528(Part 2)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528 (Part 1)	Present/Absent per g
18.	Starch and Starch	Aerobic Colony Count	IS 5402	≥10 CFU/g
	Products	Bacterial Count	ISO 4833(Part 1)	-
		Total Plate Count	US FDA BAM-(Chapter-3)	≥10 CFU/g
		Yeast & Mould	IS 5403	≥10 CFU/g
		Escherichia coli	IS 5887(Part 1)	≥10 CFU/g
		Escherichia coli	IS 5887(Part 1)	Present/Absent per g or 25 g
-		Escherichia coli	US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
			IS 5887(Part 1)	0.3 to >110 MPN/g
		Coliform	IS 5401(Part 1)	≥10 CFU/g
			ISO 4832	-
			US FDA BAM-(Chapter-4)	
		Coliform	IS 5401(Part 2)	0.3 to >110 MPN/g
			ISO 4831	
			US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
		Coliform	ISO 4831	Present/Absent per g
		Staphylococcus aureus	IS 5887(Part 2) IS 5887(Part 8)	≥10 CFU/g
		Staphylococcus aureus	IS 5887(Part 2)	Present/Absent per g
		Salmonella	IS 5887(Part 3)	Present/Absent per 25 g
		Shigella	IS 5887(Part 7)	Present/Absent per 25 g
		Lactic Acid Bacteria	ISO 15214	≥10 CFU/g
		Listeriamonocytogens	ISO 11290 (Part 1) IS 14988(Part 1)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part 2) IS 14988(Part 2)	≥10 CFU/g
		Bacillus cereus	IS 5887(Part 6)	≥10 CFU/g
		Vibrio cholerae	IS 5887(Part 5)	Present/Absent per 25 g
		Vibrio parahaemolyticus	IS 5887(Part 5)	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part 2)	Present/Absent per g
		Feacal Streptococci	IS 5887(Part 2)	≥10 CFU/g

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		Enterobacteriaceae	ISO 21528(Part 2)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528(Part 1)	Present/Absent per g
19.	Sugar and Sugar	Aerobic Colony Count	IS 5402	≥10 CFU/g
	Products	Bacterial Count	ISO 4833(Part 1)	_
		Total Plate Count	US FDA BAM-(Chapter-3)	≥10 CFU/g
		Yeast & Mould	IS 5403	≥10 CFU/g
		Escherichia coli	IS 5887(Part 1)	≥10 CFU/g
		Escherichia coli	IS 5887(Part 1)	Present/Absent per g or 25 g
		Escherichia coli	US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
			IS 5887(Part 1)	0.3 to >110 MPN/g
		Coliform	IS 5401(Part 1)	≥10 CFU/g
			ISO 4832	_
			US FDA BAM-(Chapter-4)	
		Coliform	IS 5401(Part 2)/ISO 4831	0.3 to >110 MPN/g
			US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
		Coliform	ISO 4831	Present/Absent per g
		Staphylococcus aureus	IS 5887(Part 2)/ IS 5887(Part 8)	≥10 CFU/g
		Staphylococcus aureus	IS 5887(Part 2)	Present/Absent per g
		Salmonella	IS 5887(Part 3)	Present/Absent per 25 g
		Shigella	IS 5887(Part 7)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part 1) IS 14988(Part 1)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part 2) IS 14988(Part 2)	≥10 CFU/g
		Bacillus cereus	IS 5887(Part 6)	≥10 CFU/g
		Vibrio cholerae	IS 5887(Part 5)	Present/Absent per 25 g
		Vibrio parahaemolyticus	IS 5887(Part 5)	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part 2)	Present/Absent per g
		Feacal Streptococci	IS 5887(Part 2)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528(Part 2)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528(Part 1)	Present/Absent per g

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20.	Ready To eat	Aerobic Colony Count	IS 5402	≥10 CFU/g
	Snacks/ Food/	Bacterial Count	ISO 4833(Part 1)	_
[Ketchup/	Total Plate Count	US FDA BAM-(Chapter-3)	≥10 CFU/g
	Chutney/ Culinary	Yeast & Mould	IS 5403	≥10 CFU/g
	Products/ Pickles/	Escherichia coli	IS 5887(Part 1)	≥10 CFU/g
	Instant mixes and instant foods	Escherichia coli	IS 5887(Part 1)	Present/Absent per g or 25 g
		Escherichia coli	US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
			IS 5887(Part 1)	0.3 to >110 MPN/g
		Coliform	IS 5401(Part 1)	≥10 CFU/g
			ISO 4832	
			US FDA BAM (Chapter-4)	
		Coliform	IS 5401(Part 2)	0.3 to >110 MPN/g
			ISO 4831	
			US FDA BAM-(Chapter-4)	3 to >1100 MPN/g
		Coliform	ISO 4831	Present/Absent per g
		Staphylococcus aureus	IS 5887(Part 2)	≥10 CFU/g
			IS 5887(Part 8)	
		Staphylococcus aureus	IS 5887(Part 2)	Present/Absent per g
		Salmonella	IS 5887(Part 3)	Present/Absent per 25 g
		Shigella	IS 5887(Part 7)	Present/Absent per 25 g
		Lactic Acid Bacteria	ISO 15214	≥10 CFU/g
		Listeria monocytogens	ISO 11290(Part 1) IS 14988(Part 1)	Present/Absent per 25 g
		Listeria monocytogens	ISO 11290(Part 2) IS 14988(Part 2)	≥10 CFU/g
		Bacillus cereus	IS 5887(Part 6)	≥10 CFU/g
		Vibrio cholera	IS 5887(Part 5)	Present/Absent per 25 g
		Vibrio parahaemolyticus	IS 5887(Part 5)	Present/Absent per 25 g
		Feacal Streptococci	IS 5887(Part 2)	Present/Absent per g
		Feacal Streptococci	IS 5887(Part 2)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528:(Part 2)	≥10 CFU/g
		Enterobacteriaceae	ISO 21528(Part 1)	Present/Absent per g

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		Psychotropic microorganisms	ISO 17410	≥10 CFU/g
21.	Tea and Tea Products	Aerobic Colony Count Bacterial Count Total Plate Count	IS 5402 ISO 4833(Part 1) US FDA BAM-(Chapter-3)	≥10 CFU/g ≥1 CFU/ml ≥10 CFU/g ≥1 CFU/ml
		Yeast &Mould	IS 5403	≥10 CFU/g ≥1 CFU/ml
		Escherichia coli	IS 5887(Part 1)	≥10 CFU/g ≥1 CFU/ml
		Escherichia coli	IS 5887(Part 1)	Present/Absent per g or 25 gm
		Escherichia coli	US FDA BAM-(Chapter-4)	3 to >1100 MPN per g/ml
			IS 5887(Part 1)	0.3 to >110 MPN per g/ml
		Coliform	IS 5401(Part 1) ISO 4832 US FDA BAM-(Chapter-4)	≥10 CFU/g ≥1 CFU/ml
		Coliform	IS 5401(Part 2) ISO 4831	0.3 to >110 MPN per g/ml
			US FDA BAM-(Chapter-4)	3 to >1100 MPN per g/ml
		Coliform	ISO 4831	Present/Absent per g/ml
		Staphylococcus aureus	IS 5887(Part 2) IS 5887(Part 8)	≥10 CFU/g ≥1 CFU/ml
		Staphylococcus aureus Salmonella	IS 5887(Part 2) IS 5887(Part 3)	Present/Absent per g/ml Present/Absent per 25 g/ml
		Shigella	IS 5887(Part 7)	Present/Absent per 25 g/ml
		Lactic Acid bacteria	ISO 15214	≥10 CFU/g ≥1 CFU/ml

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		Listeria monocytogens	ISO 11290(Part 1) IS 14988(Part 1)	Present/Absent per 25 g/ml
		Listeria monocytogens	ISO 11290(Part 2) IS 14988(Part 2)	≥10 CFU/g ≥1 CFU/ml
		Bacillus cereus	IS 5887(Part 6)	≥10 CFU/g ≥1 CFU/ml
		Vibrio cholerae	IS 5887(Part 5)	Present/Absent per 25 g/ml
		Vibrio parahaemolyticus	IS 5887(Part 5)	Present/Absent per 25 g/ml
		Feacal Streptococci	IS 5887(Part 2)	≥10 CFU/g
		Feacal Streptococci	IS 5887(Part 2)	Present/Absent per g/ml
		Enterobacteriaceae	ISO 21528(Part 2)	≥10 CFU/g ≥1 CFU/ml
		Enterobacteriaceae	ISO 21528(Part 1)	Present/Absent per g/ml
22.	Tobacco and	Aerobic Colony Count	IS 5402	≥ 10 CFU/g
	Tobacco Products	Bacterial Count	ISO 4833(Part 1)	≥ 1 CFU/ml
		Total Plate Count	US FDA BAM-(Chapter-3)	≥ 10 CFU/g ≥ 1 CFU/ml
		Yeast & Mould	IS 5403	≥10 CFU/g ≥1 CFU/ml
		Escherichia coli	IS 5887(Part 1)	≥ 10 CFU/g ≥ 1 CFU/ml
		Escherichia coli	IS 5887(Part 1)	Present/Absent per ml or 25 ml
		Escherichia coli	US FDA BAM-(Chapter-4)	3 to >1100 MPN per g/ml
			IS 5887(Part 1)	0.3 to >110 MPN per g/ml
		Coliform	IS 5401(Part 1) ISO 4832 US FDA BAM-(Chapter-4)	≥10 CFU/g ≥1 CFU/ml
		Coliform	IS 5401(Part 2) ISO 4831	0.3 to >110 MPN per g/ml

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			US FDA BAM-(Chapter-4)	3 to >1100 MPN per g/ml
		Coliform	ISO 4831	Present/Absent per g/ml
		Staphylococcus aureus	IS 5887(Part 2)/IS	≥10 CFU/g
			5887(Part 8)	≥1 CFU/ml
		Staphylococcus aureus	IS 5887(Part 2)	Present/Absent per g/ml
		Salmonella	IS 5887(Part 3)	Present/Absent per 25 g/ml
		Shigella	IS 5887(Part 7)	Present/Absent per 25 g/ml
		Listeria monocytogens	ISO 11290(Part 1)/ IS 14988(Part 1)	Present/Absent per 25 g/ml
		Listeria monocytogens	ISO 11290(Part 2)/ IS 14988(Part 2)	≥10 CFU/g ≥1 CFU/ml
		Bacillus cereus	IS 5887(Part 6)	≥10 CFU/g ≥1 CFU/ml
		Vibrio cholera	IS 5887(Part 5)	Present/Absent per 25 g/ml
		Vibrio parahaemolyticus	IS 5887(Part 5)	Present/Absent per 25 g/ml
		Feacal Streptococci	IS 5887(Part 2)	Present/Absent per g/ml
		Enterobacteriaceae	ISO 21528(Part 2)	≥10 CFU/g ≥1 CFU/ml
		Enterobacteriaceae	ISO 21528(Part 1)	Present/Absent per g/ml
23.	Vegetables and	Aerobic Colony Count	IS 5402	≥10 CFU/g
	Vegetable	Bacterial Count	ISO 4833(Part 1)	≥1 CFU/ml
	Products	Total Plate Count	US FDA BAM-(Chapter-3)	≥10 CFU/g ≥1 CFU/ml
		Yeast & Mould	IS 5403	≥10 CFU/g ≥1 CFU/ml
		Escherichia coli	IS 5887(Part 1)	≥10 CFU/g ≥1 CFU/ml
		Escherichia coli	IS 5887(Part 1)	Present/Absent per g or 25 g

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		Escherichia coli	US FDA BAM-(Chapter-4)	3 to >1100 MPN per g/ml
			IS 5887(Part 1)	0.3 to >110 MPN per g/ml
		Coliform	IS 5401(Part 1)	≥10 CFU/g
			ISO 4832	≥1 CFU/ml
			US FDA BAM-(Chapter-4)	
		Coliform	IS 5401(Part 2) ISO 4831	0.3 to >110 MPN per g/ml
			US FDA BAM-(Chapter-4)	3 to >1100 MPN per g/ml
		Coliform	ISO 4831	Present/Absent per g/ml
		Staphylococcus aureus	IS 5887(Part 2)	≥10 CFU/g
			IS 5887(Part 8)	≥1 CFU/ml
		Staphylococcus aureus	IS 5887(Part 2)	Present/Absent per g/ml
		Salmonella	IS 5887(Part 3)	Present/Absent per 25 g/ml
		Shigella	IS 5887(Part 7)	Present/Absent per 25 g/ml
		Listeria monocytogens	ISO 11290(Part 1) IS 14988(Part 1)	Present/Absent per 25 g/ml
		Listeria monocytogens	ISO 11290(Part 2) IS 14988(Part 2)	≥10 CFU/g ≥1 CFU/ml
		Bacillus cereus	IS 5887(Part 6)	≥10 CFU/g ≥1 CFU/ml
		Vibrio cholerae	IS 5887(Part 5)	Present/Absent per 25 g/ml
		Vibrio parahaemolyticus	IS 5887(Part 5)	Present/Absent per 25 g/ml
		Feacal Streptococci	IS 5887(Part 2)	Present/Absent per g/ml
		Feacal Streptococci	IS 5887(Part 2)	≥10 CFU/g ≥1 CFU/ml
		Enterobacteriaceae	ISO 21528(Part 2)	≥10 CFU/g ≥1 CFU/ml
		Enterobacteriaceae	ISO 21528(Part 1)	Present/Absent per g/ml

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		Aciduric Flat Sour organisms as Bacillus coagulans	APHA Chapter-25.61	≥10 CFU/g ≥1 CFU/mI
		Psychotropic microorganisms	ISO 17410	≥10 CFU/g
II.	WATER			
1.	Packaged Natural Mineral Water	Aerobic microbial count (at 37ºC and 22ºC)	IS 5402	≥1 CFU per ml
	Packaged Drinking Water,	Escherichia coli	IS 5887(Part 1) IS 15185(Part1)	Present/Absent per 250 ml
	Carbonated Water	Coliform	IS 15185	Present/Absent per 250 ml
		Feacal Streptococci	IS 15186	Present/Absent per 250 ml
		S. aureus	IS 5887(Part 2) IS 5887(Part 8) IS 15188	Present/Absent per 250 ml
		Sulfite Reducing Anaerobes	IS 13428(Annex-C)	Present/Absent per 50 ml
		Pseudomonas aeruginosa	IS 13428(Annex-D)	Present/Absent per 250 ml
		Yeast & Mould	IS 5403	Present/Absent per 250 ml
		Salmonella	IS 5887(Part 3) ISO 15187 ISO 19250	Present/Absent per 250 ml
		Shigella	IS 5887(Part 7)	Present/Absent per 250 ml
		Vibrio cholera	IS 5887(Part 5)	Present/Absent per 250 ml

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		V. parahaemolyticus	IS 5887(Part 5)	Present/Absent per 250 ml
2.	Water, Bore well Water, Water From Well/ Spring Lakes/ River Water/ Reservoirs/ Treated Water	Aerobic Microbial Count Standard Plate Count Total Plate Count Heterotrophic Plate Count	IS 1622 APHA 9215 IS 3328 ISO 6222 IS 5402	≥1 CFU/mI
		Coliform/ Total Coliform	ISO 4833 (Part 1) IS 1622 APHA 9221:B	1 to >161 MPN/100 ml 1.8 to 1600 MPN/100ml
		Coliform Feacal Coliform	IS 5401(Part 1) IS 1622	≥1 CFU/mI 1 to >161 MPN/100 mI
		E. coli	APHA (9221:E) IS 1622	1.8 to1600 MPN/100 ml Absent or Not Detected 1 to >161 MPN/100 ml
			APHA (9221 F & G)	1.8 to1600 MPN/100 ml
		E. coli	IS 5887(Part 1)	≥1 CFU/ml
		Proteolytic count Lipolytic count	IS 4251 IS 4251	≥1 CFU/ml ≥1 CFU/ml
		Thermophillic bacteria	IS 4251	≥1 CFU/ml
		Feacal Streptococci Enterococci	IS 1622 APHA:(9230:B)	1 to >161 MPN/100 ml 1.8 to 1600 MPN/100ml
		Feacal Streptococci	IS 15186	Present/Absent per 250 ml
		Test for slime forming bacteria	IS 1622	Present/Absent/ml
		Yeast & Mould	IS 5403	≥1 CFU/ml
		S. aureus	IS 5887(Part 8) ISO 6888 (Part 1) IS 5887(Part 2)	≥1 CFU/mI

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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
3.	Water for	Coliform	IS 1622	1 to >161 MPN/100 ml
	Processed Food Industry	Enterococci	ISO 7899(Part 2)	Present/Absent per 250 ml
		Pseudomonas aeruginosa	prEN ISO 12780	Present/Absent per 250 ml
		Enumeration of culturable microorganisms, colony count at 22 ⁰ C	prEN ISO 6222	≥1 CFU/ml
		Standard plate count	IS 1622	≥1 CFU/mI
		Enumeration of culturable microorganisms, colony count at 37 ^o C	prEN ISO 6222	≥1 CFU/mI
		Proteolytic count	IS 4251	≥1 CFU/mI
		Lipolytic count	IS 4251	≥1 CFU/mI
		Thermophillic bacteria count	IS 4251	≥1 CFU/ml
4.	Swimming Pool	Standard plate count	IS 3328	≥1 CFU/mI
	Water	Coliforms	IS 1622	1 to >161 MPN/100 ml
III.	ENVIRONMENT AN	D POLLUTION		
1.	Waste Water/ Sewage Water	Aerobic microbial count Standard Plate count Total plate count Heterotrophic plate count	IS 1622 APHA 9215 ISO 6222	≥1 CFU/ml
		Coliform/ Total Coliform	IS 1622	1 to >161 MPN/100 ml
			APHA 9221 B	1.8 to >1600 MPN/100 ml
		Proteolytic count	IS 4251	≥1 CFU/mI
		Lipolytic count	IS 4251	≥1 CFU/ml
		Thermophillic bacteria count	IS 4251	≥1 CFU/ml
		Feacal Streptococci/ Enterococci	IS 1622	1 to >161 MPN/100 ml

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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
		Feacal Streptococci/ Enterococci	IS 15186	1 (Absent) to 200 CFU/100ml
2.	Air Monitoring of Indoor air (Bio-burden Estimation of classified and non	Total Plate count	SOP-CommGrade/L3- CNB-MIC-002 Version No. 01.0, Date of issue 15-11-2017	≥1 CFU per Plate per (15 min. or as per customer requirement) time of exposure.
	classified and non classified Area by Plate exposure method)	Yeast and Mould Count	SOP-CommGrade/L3- CNB-MIC-002 Version No. 01.0, Date of issue 15-11-2017	≥1 CFU per Plate per (15 min. or as per customer requirement) time of exposure.
		Coliform Count	SOP-CommGrade/L3- CNB-MIC-002 Version No. 01.0, Date of issue 15-11-2017	≥1 CFU per Plate per (15 min. or as per customer requirement) time of exposure.
		Enterobacteriaceae Count	SOP-CommGrade/L3- CNB-MIC-002 Version No. 01.0 Date of issue 15-11-2017	≥1 CFU per Plate per (15 min. or as per customer requirement) time of exposure.
		Coagulase positive Staphylococci (S. aureus)	SOP-CommGrade/L3- CNB-MIC-002 Version No. 01.0 Date of issue 15-11-2017	≥1 CFU per Plate per (15 min. or as per customer requirement) time of exposure.
3.	Surface Monitoring (Estimation of Bio-burden of	Total Plate count	SOP-CommGrade/L3- CNB-MIC-007 Version No. 01.1, Date of issue 20-06-2018	≥10 CFU per ml per unit (ml of rinse/swab or area sampled)
	surfaces and containers in classified and non classified Area)	Yeast and Mould Count	SOP-CommGrade/L3- CNB-MIC-007 Version No. 01.1, Date of issue 20-06-2018	≥10 CFU per ml per unit (ml of rinse/swab or area sampled)
		Coliform Count	SOP-CommGrade/L3- CNB-MIC-007 Version No. 01.1, Date of issue 20-06-2018	≥10 CFU per ml per unit (ml of rinse/swab or area sampled)

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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
		Coliforms	SOP-CommGrade/L3- CNB-MIC-007 Version No. 01.1, Date of issue 20-06-2018	Absent or Present per unit (ml of rinse/swab or area sampled)
		Enterobacteriaceae Count	SOP-CommGrade/L3- CNB-MIC-007 Version No. 01.1, Date of issue 20-06-2018	Absent or Present per unit (ml of rinse/swab or area sampled)
		Coagulase positive staphylococci (S. aureus)	SOP-CommGrade/L3- CNB-MIC-007 Version No. 01.1, Date of issue 20-06-2018	Absent or Present per unit (ml of rinse/swab or area sampled)
		Escherichia coli	SOP-CommGrade/L3- CNB-MIC-007 Version No. 01.1, Date of issue 20-06-2018	Absent or Present per unit (ml of rinse/swab or area sampled)
		Listeria monocytogens	SOP-CommGrade/L3- CNB-MIC-007 Version No. 01.1, Date of issue 20-06-2018	Absent or Present per unit (ml of rinse/swab or area sampled)
		Salmonella	SOP-CommGrade/L3- CNB-MIC-007 Version No. 01.1, Date of issue 20-06-2018	Absent or Present per unit (ml of rinse/swab or area sampled)
		Shigella	SOP-CommGrade/L3- CNB-MIC-007 Version No. 01.1 Date of issue 20-06-2018	Absent or Present per unit (ml of rinse/swab or area sampled)
		Bacillus cereus	SOP-CommGrade/L3- CNB-MIC-007 Version No. 01.1, Date of issue 20-06-2018	Absent or Present per unit (ml of rinse/swab or area sampled)

Laboratory	National Collateral Management Services Limited, Commgrade- Testing Services, Area Lab (Kanpur), Plot-46, B/11 (1st Floor), Co-operative Industrial Area, Dada Nagar, Kanpur, Uttar Pradesh	
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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
		Faecal Streptococci	SOP-CommGrade/L3- CNB-MIC-007 Version No. 01.1 Date of issue 20-06-2018	Absent or Present per unit (ml of rinse/swab or area sampled)

Laboratory	National Collateral Management Services Limited, Commgrade-
-	Testing Services, Area Lab (Kanpur), Plot-46, B/11 (1st Floor),
	Co-operative Industrial Area, Dada Nagar, Kanpur, Uttar Pradesh

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SI.	Product / Material	Specific Test Performed	Test Method Specification	Range of Testing /
	of Test	-	against which tests are	Limits of Detection
			performed	

CHEMICAL TESTING

Ι.	FOOD & AGRICUL	TURAL PRODUCTS		
Α.	Bakery & Confectionery Products			
1.	Bakery & Confectionery Product, Proprietary food (Raw &	Moisture	IS 1011 IS 4684 IS 15271 IS 12711 FSSAI Manual	0.01 % to 50 %
	Processed)	Crude Fibre	IS 12711 IS 1483 FSSAI Manual	0.1 % to 30 %
		Total Protein	IS 7219, FSSAI Manual	0.1 % to 50 %
		Total Fat	IS 15271 IS 12711 FSSAI Manual	0.1 % to 30 %
		Acid insoluble ash	IS 12711 IS 1011 FSSAI Manual	0.02 % to 5 %
		Acidity of extracted fat	IS 12711 IS 1011 IS 15271, FSSAI Manual	0.01 % to 5 %
		рН	IS 12711	1 to 14
		Total Sucrose	IS 1163 IS 15279 FSSAI Manual	0.05 % to 50 %
		Total ash (excluding Nacl) in Makhana	IS 12711 FSSAI Manual	0.01 % to 15 %
		Ash content	IS 7463 IS 3155 IS 12711, FSSAI Manual	0.01 % to 10 %

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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
		Total Solid	IS 12711, FSSAI Manual	10 % to 98 %
		Non-Fat Milk Solids	FSSAI Manual:IS 12711	0.1 % to 25 %
		Volumne by Mass ratio	IS12711	1 to 5
		Fruits (in fruit bread and Cake)	IS12711	0.01 % to 20 %
		Peroxide Value	IS12711 IS 15271 FSSAI Manual	0.1 to 20 Meq of O ₂ /kg of fat
		Appearance/Dimensions	SOP-CommGrade/L3- CNB-FOO-018 (Issue No. 01.0 Date 06.08.2018)	Qualitative
		Carbohydrate	IS 1656	0.01 % to 90 %
		Energy(Total Calories)	SOP-CommGrade/L3- CNB-FOO-017(Issue No.01.0 Date 06.08.2018)	1 to 1000 kcal/100gm
		Alcoholic acidity	IS 12711, FSSAI Manual	0.01 % to 10 %
		Non reducing sugar	IS 2650 IS15279 FSSAI manual.4 , 9.0	0.1 % to 20 %
В.	Beverages (Alcoholic and Nor	Alcoholic)		
1.	Alcoholic Drinks	Higher alcohols	IS 3752	0.001g/l to 50g/l
		Aldehydes	IS 3752	1.0mg/l to 5000mg/l
		Extract in wine	IS 7585	0.01 % to 20 %
		Tannin	IS 7585	0.01 % to 20 %
		Esters as ethyl Acetate	IS 3752	0.01g/l to 50g/l
		Appearance	SOP-CommGrade/L3- CNB-FOO-018(Issue No. 01.0 Date 06.08.2018)	Qualitative
		Alcohol content	IS 3752	5 % v/v to 70 % v/v
		Colour	IS 3811	Qualitative
		Suspended or Sediment particle	IS 3811	Qualitative

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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
		Residue on evaporation	IS 3752, FSSAI Manual	0.05 % to 5.0 %
		Total acidity as tartaric acid	IS 3752 FSSAI Manual	0.05 % to 90.0 %
		Fixed acidity	IS 3752, FSSAI Manual	0.05 % to 90.0 %
		Volatile acids as Acetic acid (expressed in terms of 100 ltrs. of absolute alcohol)	IS 3752 FSSAI Manual	0.05 % to 90.0 %
		Ash	IS 3752	0.05 % to 5.0 %
		рН	IS 3752	1 to 14
		Specific gravity of Distillate	IS 3506 AOAC 945.06	0.5 to 1.0
2.	Soft Drinks	Colouring matter	FSSAI Manual	Qualitative
1		Saccharin	AOAC 941.10	Qualitative
1		Carbohydrate	IS 1656	0.01 % to 50 %
		Energy(Total Calories)	SOP-CommGrade/L3- CNB-FOO-017(Issue No.01.0 Date 06.08.2018)	1 to 1000 kcal/100gm
		pH	IS 2869	1 to 14
		Physical examination	FSSAI Manual	Qualitative
		Internal condition of Weight	FSSAI Manual	Qualitative
		Total Soluble solids	FSSAI Manual	0.01 % to 99 %
		Salt (as Sodium chloride)	FSSAI Manual	0.01 % to 10 %
		Acidity	FSSAI Manual	0.01 % to 10 %
		Moisture	FSSAI Manual	0.5 % to 90 %
		Total ash	AOAC 950.14	0.01 % to 10 %
		Acid insoluble ash	FSSAI Manual	0.01 % to 10 %
		Fat	AOAC 933.05 FSSAI Manual	0.1 % to 50 %
		Sucrose	AOAC 925.35	0.1 % to 90 %
		Total ash soluble in boiling distilled water	IS 14433	0.05 % to 10 %

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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
		Alkalinity of soluble ash	FSSAI Manual	0.01 % to 5 %
		Crude fibre	IS 10226	1 % to 50 %
		Protein Content	IS 7219	0.1 % to 50 %
		Ash	FSSAI Manual	0.01 to 10 %
C.	Cereals, Pulses and	their Products		
1.	Cereals, Pulses and their by products, Proprietary food, Atta, Maid, Corn	Moisture	IS 1485 IS 4333(Part II) IS 1155 IS 11536 IS 3163, FSSAI Manual	0.23 % to 20 %
	flakes, Macroni,	Total solids	FSSAI Manual	0.1 % to 99 %
	Noodles,	Carbohydrate	IS 1656	0.1 % to 99 %
	Spaghetti, Vermicelli, Bread, Flours, Blends,	Energy (Total Calories)	SOP-CommGrade/L3- CNB-FOO-017 (Issue No. 01.0 Date 06.08.2018)	1 to 1000 kcal/100g
	Channa Sattu	Total protein	IS7219, FSSAI Manual	0.1 % to 50 %
		Fat	AOAC 922.06, FSSAI Manual	0.1 % to 50 %
		Free acidity	IS 4706(Part 2)	0.1 % to 5 %
		Immature grains	IS 4333(Part 1):IS 2813	0.1 % to 25 %
		Starch content	IS 4706, FSSAI Manual	1 % to 99 %
		Ash content	IS 1485 IS 1155 FSSAI Manual	0.16 % to 15 %
		Total ash (Excluding NaCl) in Corn Flakes	IS 1158 AOAC Ch4,50	0.02 % to 20 %
		Acid insoluble ash (Macaroni)	FSSAI Manual IS 1485	0.01 % to 3 %
		Alkalinity of ash in papad	IS 2639	0.01 % to 5 %
		Crude fiber	IS 10226, (Part 1) FSSAI Manual	1 % to 25 %

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		Gluten in (Wheat Atta)	IS 1155, FSSAI Manual	1 % to 15 %
		Damaged, Discolored and	IS 4333 (Part 1)	0.01 % to 10 %
		insect damaged grains/	ISO 605	
		Seeds	Codex Stan172	
		Head Rice	ISO 7301	0.01 % to 25.0 %
		Argemone Maxicana	IS 548(Part 2)	Qualitative
				(Present/Absent)
		Extraneous vegetable matter	IS 4333 (Part 1)	0.2 % to 10 %
		Alcoholic acidity	IS 1155 IS 1010 FSSAI Manual	0.01 % to 5.0 %
		Mineral Matter	IS 4333 (Part 1)	0.02 % to 20 %
			FSSAI Manual	
		Rodent Hair and excreta	FSSAI Manual	0.01 % to 10 %
		Shrivelled and Shrunken	IS 4333 (Part 1)	Upto 10 %
		Broken, split seed	IS 4333 (Part 1) FSSAI Manual	Upto 15 %
		Weevilled grains/Insect	IS 4333 (Part 1)	Upto 15 %
		damaged	FSSAI Manual	
		Varietal Admixture	IS 4333 (Part 1) FSSAI Manual	Upto 40 %
		Filth	FSSAI Manual	0.01 to 20 %
		Presence of ergot	FSSAI Manual	Qualitative (Present/Absent)
		Total Defects Sum of Foreign Matter, Other Edible Grains, Damaged Kernels, Shrivelled & Brokens	IS 4333 (Part 1)	0.01 % to 90 %
		TCW (Weight of Thousand Grains)	IS 4333(Part 4)	100 g to 500 g

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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
		Length	ISO 7301	4 mm to 20 mm
		Strained	Codex Stan 171	Upto 25.0 %
		Count per 100 gm	IS 4333(Part 4)	325 to 460
		Kernels of Other Grains	IS4333-(Part 1)	Upto 25.0 %
		Dehusked Kernels	IS 4333 (Part 1) FSSAI Manual	0.01 % to 90 %
		Starch	FSSAI Manual	0.01 % to 90 %
		Kesari Dal	FSSAI Manual	Qualitative (Present/Absent)
		Granularity	IS 1155 IS 1009	0.01 % to 90 %
		Other Edible grains	IS 4333 (Part 1) FSSAI Manual	0.01 % to 10.0 %
		Salt	FSSAI Manual	0.01 % to 20.0 %
		Peroxide value in extracted fat	IS 548(Part I)	0.1 meq/kg to 15 meq/kg
		Average precooked Length	IS 4333 (Part 1)	4 mm to 20 mm
		Chalky grain/ Black Kernals	IS 4333 (Part 1) FSSAI Manual	0.01 % to 50 %
		Damaged and discolored grain	IS 4333 (Part 1)	0.01 % to 50 %
		Elongation ratio	IS 4333 (Part 1)	0.01 % to 50 %
		Foreign matter	IS 4333 (Part 1) FSSAI Manual	0.01 % to 50 %
		Green grain in rice	IS 4333 (Part 1) FSSAI Manual	0.01 % to 50 %
		L/B ratio	IS 4333 (Part 1)	2 % to 20 %
		Paddy grain in rice	IS 4333 (Part 1)	0.01 % to 5 %
		Ergot, Insect Bored, Worm Eaten, Green/ Brown Grain	IS 4333 (Part 1)	Upto 25.0 %

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		Aborted	Codex Stan 171	Upto 25.0 %
		Whole Kernel	Codex Stan 198 ISO 7301	Upto 25.0 %
		Weevilled grains	IS 4333 (Part 1)	Upto 25.0 %
		Sprouted Grains	ISO 7970	Upto 25.0 %
		Bunted Grains	ISO 7970	Upto 25.0 %
		Mouldy	ISO 7970	Upto 25.0 %
		Colour	IS 4684	Qualitative
		Test for presence of Kesari Dal powder (Lathyrus Sativus) in Besan	FSSAI Manual	Qualitative (Present/Absent)
		Added colouring matter	FSSAI Manual	Qualitative
		White Powder stone	Quick Test For Some Adulterants In Food Manual (Part II)	Qualitative (Present/Absent)
		Talc	FSSAI Manual	Qualitative (Present/Absent)
		Particle Size/Sieve Test	IS 4706(Part 1)	0.1 % to 100 %
		Microscopic Examination	IS 4706(Part 1)	Qualitative
		Viscosity	AOCS Ja 10-87 (09)	Upto 6000000 cP
		Physical examination (Moulds, living and dead insects, insect fragments, rodent hair and excreta and fungus visible to the naked eye)	FSSAI Manual	Qualitative (Present/Absent)
		Poisonous toxic and/or harmfull seeds (Dhatura, corn cockle, Akra seeds)	FSSAI Manual	Qualitative (Present/Absent)
		Determination of Oxalic acid in Solvent extracted sesame flour	FSSAI Manual IS 6108	Qualitative (Present/Absent)

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2.	Rice (Raw,	Moisture	IS 3163, FSSAI Manual	0.12 % to 20.0 %
	Parboiled &	Crude Protein	IS 3163, FSSAI Manual	5.0 % to 20.0 %
	Product)	Crude Fat	IS 3163	0.01% to 20 %
		Carbohydrates	IS 1656	0.01% to 90 %
		Energy (Total Calories)	SOP-CommGrade/L3- CNB-FOO-017(Issue No. 01.0 Date 06.08.2018)	(1 to 1000) kcal/100gm
		Crude Fibre	IS 3163, FSSAI Manual	0.037 % to 5.0 %
		Total ash	IS 3163, FSSAI Manual	0.5 % to 5.0 %
		Acid Insoluble Ash	IS 3163, FSSAI Manual	0.1 % to 2.0 %
		Length	ISO 7301	0.5 mm to 9 mm
		Inorganic extraneous	ISO 7301	0.01% to 5.0 %
		matter	IS 4333-(Part 1)	
			FSSAI Manual	
		Organic extraneous	ISO 7301	0.01% to 5.0 %
		matter	IS 4333 (Part 1)	
			FSSAI Manual	
		Paddy in Rice	ISO 7301	0.1% to 4.0 %
			IS 4333-(Part 1)	
			FSSAI Manual	
		Husked rice non-parboiled	ISO 7301	0.5 % to 4.0 %
			IS 4333-(Part 1) FSSAI Manual	
		Chip in Rice	ISO 7301	0.01 % to 10.0 %
		Chip in Rice	IS 4333-(Part 1)	0.01 % to 10.0 %
			FSSAI Manual	
		Heat damaged Kernals	ISO 7301	0.01% to 20.0 %
			IS 4333-(Part 1)	0.0170 10 20.0 70
			FSSAI Manual	
		Red kernels	ISO 7301 IS 4333-(Part 1) FSSAI Manual	0.01% to 20.0 %

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		Peck	ISO 7301 IS 4333-(Part 1) FSSAI Manual	0.01% to 5.0 %
		Filth	ISO 7301 IS 4333-(Part 1) FSSAI Manual	0.01% to 20.0 %
		Length/width ratio	ISO 7301 IS 4333-(Part 1) FSSAI Manual	2 % to 20 %
		Milled Rice	ISO 7301 IS 4333-(Part 1) FSSAI Manual	0.01 % to 50.0 %
		Red streaked kernels	ISO 7301 IS 4333-(Part 1) FSSAI Manual	0.01 % to 10 %
		Glutinous rice	ISO 7301	0.05 % to 4 %
		Foreign matter	IS 4333 (Part 1) FSSAI Manual	0.01 % to 50.0 %
		Broken	IS 4333 (Part 1) FSSAI Manual	0.01 % to 60.0 %
		Damaged Kernels	IS 4333 (Part 1) FSSAI Manual	0.01 % to 50.0 %
		Chalky kernels	IS 4333 (Part 1) FSSAI Manual	0.01 % to 50.0 %
		Dehusked Kernels	IS 4333 (Part 1) FSSAI Manual	0.01 % to 50.0 %
		Immature Kernels	ISO 7301	1 % to 50 %
		Weevilled grains with no live insects	IS 4333 (Part 1) FSSAI Manual	0.01 % to 5.0 %
		Talc	FSSAI Manual	Qualitative (Present/Absent)
		Starch	FSSAI Manual	1 % to 9 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
		Damaged Rice	IS 4333 (Part 1) FSSAI Manual	0.01 % to 10.0 %
3.	Desiccated	Moisture	IS 966	1.0 % to 50.0 %
	Coconut Powder	Total Ash	IS 966	0.10 % to 10.0 %
		Acid Insoluble Ash	IS 966	0.01 % to 5.0 %
		Carbohydrate	IS 1656	0.10 % to 99.0 %
		Energy(Total Calories)	SOP-CommGrade/L3- CNB-FOO-017(Issue No.01.0 Date 06.08.2018)	(1 to 1000) kcal/100g
		Fat	IS 966	50.0 % to 90.0 %
		Free Fatty Acids	IS 966	0.10 % to 5.0 %
		Protein	IS 966	0.01 % to 20.0 %
		Particle Size	IS 966	Qualitative (Present/Absent)
D.	Coffee, Cocoa and	their Products		
1.	Coffee, cocoa, Chicory and by	Ash content	IS 1164 IS 3077	0.001 % to 10 %
	products	Carbohydrates	IS 1656	0.01% to 90 %
		Energy(Total Calories)	SOP-CommGrade/L3- CNB-CHE-017 (Issue No.01.0 Date 06.08.2018)	(1 to 1000) kcal/100gm
		Acid insoluble ash in Dil HCL	IS 1164 IS 3077	0.01 % to 2.00 %
		Total ash insoluble in water	FSSAI Manual (Part A)	1 % to 50 %
		Water soluble ash	IS 3077	10.0 % to 75 %
		Moisture	IS 3077 IS 13853 IS 1164	0.05 % to 50 %
		Alkalinity of ash as K ₂ O on moisture and fat free basis	IS 1164 FSSAI Manual (Part A)	0.50 % to 10 %

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		Crude fibre	IS 1164 IS 10226:(Part I)	0.1 % to 60 %
		Determination of Water extract	IS 3077 FSSAI Manual (Part A)	0.05 % to 80 %
		Cocoa Butter	IS 1164 FSSAI Manual (Part A)	1 % to 50 %
		Cocoa solids	FSSAI Manual (Part A)	1 % to 80 %
		Solubility in cold water	FSSAI Manual.4(Part A)	Qualitative
		Solubility in boiling water	FSSAI Manual.4(Part A)	Qualitative
		Protein	IS 7219	Upto 25 %
		Fat	AOAC (20 th Edition) 963.15	Upto 25 %
Ε.	Fats, Oils and Fat E	mulsions		
1.	Oil, Oil Seeds, Fats and related	Melting Point	IS 548 (Part 1) FSSAI Manual	18 °C to 53 °C
	products	Carbohydrate	IS 1656	0.01 % to 90 %
		Energy(Total Calories)	SOP-CommGrade/L3- CNB-FOO-017 (Issue No. 01.0 Date 06.08.2018)	(1 to 1000) kcal/100gm
		Flash Point	FSSAI Manual	Qualitative
		Added colour	IS 548 (Part 1) FSSAI Manual	Qualitative
		Polybromide test for mustard oil	IS 548 (Part 1) FSSAI Manual	Qualitative (Present/Absent)
		Determination of acetyl and Hydroxyl value	IS 548 (Part 1) FSSAI Manual	Qualitative (Present/Absent)
		Moisture	IS 548 (Part 1)	0.05 % to 5 %
		Insoluble Impurities	IS 548 (Part 1)	0.1 % to 5 %
		BR Value	IS 3508	30 to 90
		Baudin Test	IS 548 (Part 2) FSSAI Manual	Qualitative (Present/Absent)
		Volatile Matter/Moisture	IS 548 (Part 1)	0.1 % to 20 %
		Acid value	IS 548 (Part 2) FSSAI Manual	0.05 % to 6.0 %

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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
		Test for presence of ground nut oil (Bellier's turbidity temperature)	IS 548 (Part 2) FSSAI Manual	20 ° C to 41 ° C
		Richert Missel value	IS 548 (Part 1) FSSAI Manual AOAC 925.41	0.01 to 32
		Polensky value	IS 548 (Part 1) FSSAI Manual AOAC 925.41	5 to 20.0
		Saponification value	IS 548 (Part 1) FSSAI Manual	169 to 250
		Unsaponification value/ Unsaponifiable matter	IS 548 (Part 1) FSSAI Manual	0.13 % to 3.5 %
		Specific gravity at 30 ° C	IS 548 (Part 1) FSSAI Manual	0.907 to 0.921
		Refractive index at 40° C	IS 548 (Part 1) FSSAI Manual	1.4481 to 1.4800
		Per oxide value/Oxidative stability	IS 548 (Part 1) FSSAI Manual	0.1 meq to 20 meq /1000 g
		Appearance	SOP-CommGrade/L3- CNB-FOO-018(Issue No.01.0 Date 06.08.2018)	Qualitative
		Free fatty acid as oleic acid	IS 548 (Part 1)	0.1 % to 5 %
		lodine value	IS 548 (Part 1) FSSAI Manual	7.5 to 148
		Test for refined winterized salad oil	IS 548 (Part 2) FSSAI Manual	Qualitative (Present/Absent)
		Test for tea seed oil in olive oil	IS 548 (Part 2) FSSAI Manual	Qualitative (Present/Absent)
		Presence of olive pomace oil	FSSAI Manual	Qualitative (Present/Absent)

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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
		Test for semi siccative	IS 548 (Part 2)	Qualitative
		test in olive oil	FSSAI Manual	(Present/Absent)
		Carotenoid content in raw	FSSAI Manual	Qualitative
		palm oil		(Present/Absent)
		Presence of cotton seed	IS 548(Part 2)	Qualitative
		oil (Halphen test)		(Present/Absent)
		Test for presence of	FSSAI Manual	Qualitative
		argimone (Argemone maxicana) oil	IS 548(Part 2)	(Present/Absent)
		Presence of Hydrocyanic	IS 548(Part 2)	Qualitative
		acid		(Present/Absent)
		Presence of Kusum oil	IS 548(Part 2)	Qualitative
				(Present/Absent)
		Presence of Neem oil	IS 548(Part 2)	Qualitative
				(Present/Absent)
		Test for presence of	FSSAI Manual	Qualitative
		Mineral oil (Holde test)	IS 548(Part 2)	(Present/Absent)
		Test for presence of	FSSAI Manual	Qualitative
		Castor oil (Ammonium molybdate test)	IS 548(Part 2)	(Present/Absent)
		Presence of animal fat in	IS 548(Part 2)	Qualitative
		vegetable oil	FSSAI Manual	(Present/Absent)
		TOCO as an adulterant	FSSAI Manual	Qualitative
				(Present/Absent)
		Prohibited color as an	FSSAI Manual	Qualitative
		adulterant	IS 548(Part 2)	(Present/Absent)
		Rancidity as an adulterant	FSSAI Manual	Qualitative
			IS 548(Part 2)	(Present/Absent)
		Karanja Oil as an	FSSAI Manual	Qualitative
		adulterant	IS 548(Part 2)	(Present/Absent)
		Test for Presence of	IS 548 (Part 2)	Qualitative
		Sesame oil	FSSAI Manual	(Present/Absent)
		(Baudouin Test)	AOAC 893.01,	

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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
		Test for Presence of Palmolein	FSSAI Manual AOCS method Cc6-25,	Qualitative (Present/Absent)
		Test for of Rice-Bran oil	FSSAI Manual Manual methods of analysis for adulterants and contaminants in foods ICMR	Qualitative (Present/Absent)
		Test for Presence of Linseed oil (Hexabromide Test)	IS 548(Pt-2) FSSAI Manual ISI Handbook of food analysis Part XIII	Qualitative (Present/Absent)
		Test for Presence of Animal body fat in vegetable fat	IS 548 (Part 2) FSSAI Manual	Qualitative (Present/Absent)
		Test for presence of Mineral Oil	IS 548 (Part 2) FSSAI Manual	Qualitative (Present/Absent)
		Determination of Phosphorus in Soya bean Oil	FSSAIManual AOCS Ca12-55	0.1 % to 5.0 %
		Determination of Carotenoid content of raw palm oil	FSSAI Manual	Qualitative (Present/Absent)
		Test for presence of ground nut oil and other oils containing cyanogenic compounds	IS 548 (Part 2)	Qualitative (Present/Absent)
		Allyl isothiocynate	IS 548 (Part 1)	0.1 % to 0.6 %
		Acetone Insoluble Matter	AOCS Ja 4-44	5 % to 70 %
		Hexane Insoluble Matter	AOCS Ja 3-87	0.01% to 1.0 %
		Test for the presence of Neem	IS 548 (Part 2)	Qualitative (Present/Absent)

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F.	Fruits and Vegetabl	e Products		
1.	Unprocessed/	Colour	IS 2860	Qualitative
	processed/ frozen/	Taste & Flavour	IS 2860	Qualitative
	fresh fruits &	Moisture	FSSAI Manual	0.01 % to 95 %
	vegetables & dehydrated fruit/	рН	IS 2860:IS 3881 FSSAI Manual	1.0 to 14.0
	veg. & their	Ash content in Peas	IS 4624	0.01 % to 50 %
	products, jams,	Crude Fibre	IS 10226(Part 1)	0.05 to 50 %
	fruit juices and concentrate,	Extraneous Vegetable matter	FSSAI Manual	0.01 % to 10 %
	brewed and synthetic vinegar,	Damaged/ Discoloured units	FSSAI Manual	0.1 % to 10 %
	pickles	Protein	AOAC 920.152, IS 7219	0.05 % to 25.0 %
		Essential Oil Content	FSSAI Manual	0.1 % to 10.0 %
		Sucrose	IS 6287, FSSAI Manual	0.1 % to 60.0 %
		Carbohydrate	IS 1656	0.1 % to 99.0 %
		Total ash soluble in dil HCl	FSSAI Manual	0.01 % to 10 %
		Energy(Total Calories)	SOP-CommGrade/L3- CNB-FOO-017(Issue No.01 .0 Date 06.08.2018)	(1 to 1000) KCals/100g
		Salt	IS 1797, FSSAI Manual	0.1 to 25.0 %
		Reducing Sugar	IS 6287, FSSAI Manual	1.0 to 25.0 %
		Total Soluble Solids	IS 13815, FSSAI Manual	0.05 % to 23 %
		Insoluble matter	FSSAI Manual	0.05 % to 10 %
		Water insoluble solids	IS 13845	0.05 % to 50 %
		Volatile acid	FSSAI Manual	0.05 % to 2 %
		Acid insoluble ash	IS 13846 ISO 763	0.001 % to 25 %
		Test for presence of	FSSAI Manual	Qualitative
		Caramel		(Present/Absent)
		Acidity	IS 13844	0.01 % to 10 %

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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
		Starch (m/m)	FSSAI Manual	0.01 % to 90 %
		Common Salt (NaCl)	IS 2860 IS 3501 FSSAI Manual	0.01 % to 20 %
		Appearance	SOP-CommGrade/L3- CNB-FOO-018(Issue No. 01.0 Date 06.08.2018)	Qualitative
		Drained Weight	IS 2860	0.1 % to 80 %
		Blemishes	FSSAI Manual	Qualitative
		Determination of Acidity of Brine (Titrable acidity)	IS 13844	0.1% to 20 %
		Vitamin C	IS 5838	0.01 mg/kg to 60 mg/kg
		Free from stalks, peels, stems and extraneous matter	IS 3501	Qualitative (Present/Absent)
		Colouring Matter	IS 3501	Qualitative (Present/Absent)
		Residual alcohol content in Vinegar	IS 3752	0.01 % to 10 %
		Mineral acid in vinegar	FSSAI Manual	Qualitative (Present/Absent)
		Total Solid in vinegar	FSSAI Manual:IS 14703	0.01 % to 99 %
		Total acid content in vinegar	IS 3752	0.01 % to 5 %
		Cold water extract	FSSAI Manual	0.01 % to 90 %
		Fat	FSSAI Manual	0.01 % to 20 %

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G.	Herbs, Spices and O	Condiments		
1.	Spices & Condiments, Saffron	Moisture	IS 1797 IS 1798 IS 4403 IS 3795 IS 4404 IS 13242 IS 5452 IS 4452 FSSAI Manual	0.25 % to 20 %
		Energy (Total Calories)	SOP-CommGrade/L3- CNB-FOO-017 (Issue No. 01.0 Date 06.08.2018)	(1 to 1000)Kcals/100g
		Carbohydrate	IS 1656	0.1 % to 90 %
		Ash content	IS 1797 IS 1798 IS 2322 IS 3576 IS 3795 IS 4404 IS 13242 IS 5452 IS 4452 IS 7807 FSSAI Manual	0.01 % to 15 %
		Acid insoluble ash	IS 1797 IS 1798 IS 3576 IS 2322 IS 3795 IS 4404 IS 13242 IS 5452 IS 4452	0.01 % to 5 %

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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
			IS 7807 FSSAI Manual	
		Crude Fibre	IS 1797 IS 1798 IS 2322 IS 4404 IS 13242 IS 4452 FSSAI Manual	0.1 % to 40 %
		Physical examination (Moulds, living and dead insects, insect fragments, rodent hair and excreta and fungus visible to the naked eye)	FSSAI Manual	Qualitative (Present/Absent)
		Volatile Acidity as anhydrous citric acid	IS 13242	0.1 % to 10 %
		Volatile oil	IS 1797	1 % to 35 %
		Volatile Matter	AOAC Ch 46	0.1 % to 20 %
		Determination of extraneous matter	IS 1797	0.5 % to 15 %
		Starch content on dry basis	IS 3576 FSSAI Manual	10 % to 90 %
		Non-Volatile Ether Extract	IS 1797	1% to 30 %
		Mineral oil	FSSAI Manual	Qualitative (Present/Absent)
		Mass per litre	IS 1797	200 to 600
		Cold Water soluble Extract	IS 1797	0.1 % to 95 %
		Alcohol soluble Extract	IS 1797, FSSAI Manual	0.1 % to 20 %
		Salt	IS 1797	0.12 %to 20 %
		Allyl isothiocyanate	FSSAI Manual	Qualitative (Present/Absent)

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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
		Fingers that are Broken/ Those Less than 15mm	STP 182 (Issue No.01 Date 23.05.2014)	0.01% to 50 %
		Busha, Chaff, Dirt, Earth Clods & Stones	IS 3576	0.01% to 30 %
		Bulbs Damage Due to Moisture	IS 3576 IS 3576	0.01% to 50 % 0.01% to 10 %
		and Over Boiling Length (More than 3 Cm)	STP 182 (Issue No.01 Date 23.05.2014)	1% to 100 %
		Curcumin content on dry basis	IS 3576 FSSAI Manual	0.1% to 20 %
		Insect damaged with no live insects	IS 1798 IS 3795	0.1 % to 10 %
		Presence of chromate	FSSAI Manual	Qualitative (Present/Absent)
		Unboiled or Less Boiled Turmeric	IS 3576	0.1 % to 5 %
		Seeds With Stalks	STP No. 183 (Issue No.01 Date 23.05.2014)	0.01% to 20 %
		Test Weight (On Count Basis) Per Gram	STP No. 183 (Issue No.01 Date 23.05.2014)	200 to 500
		Damaged, Discoloured, Shrivelled and Immature Seeds	IS 2447 IS 4403	0.1% to 15 %
		Weeviled Seeds	IS 2447 IS 2443	0.1% to 50 %
		Broken Chillies	IS 2322	0.1% to 50 %

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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
		Loose Seeds	STP No. 184 (Issue No.01 Date 23.05.2014)	0.1% to 50 %
		Damaged & Discoloured Pods	STP No. 184 (Issue No.01 Date 23.05.2014) IS 2443	0.1% to 50 %
		Unripe and Marked Fruits	IS 2322	0.01% to 50 %
		Length	STP No. 184 (Issue No.01 Date 23.05.2014)	0.1 cm to 20 cm
		Color (Visual)	IS 2322	Qualitative
		Free From Moulds,	IS 2322	Qualitative
		Insects		(Present/Absent)
		Oil soluble color	FSSAI Manual	Qualitative (Present/Absent)
		Odour and Flavour	IS 2322	Qualitative (Present/Absent)
		Foreign Matter	IS 2443, FSSAI Manual	Upto 15 %
		Coriander Splits	IS 2443	0.02 %to 90 %
		Fruit of other varieties of coriander	IS 2443	0.01% to 50 %
		Light Berries	IS 1798	0.1 % to 15 %
		Bulk Density	IS 1798	400 g/l to 800 g/l
		Mineral oil	FSSAI Manual	Qualitative (Present/Absent)
		Papaya seeds	FSSAI Manual	0.01% to 10 %
		Headless Cloves	IS 4404	0.1% to 5 %
		Tendrils, Mother cloves	IS 4404	0.01% to 10 %
		Khokar cloves	IS 4404	0.01% to 10 %
		Foreign matters (Colophony resin, galbanum resin, ammoniaccum resin,	FSSAI manual	Qualitative (Present/Absent)

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		other foreign resins)		
		Coal tar dyes	FSSAI manual	Qualitative (Present/Absent)
		Mineral pigments	FSSAI manual	Qualitative (Present/Absent)
		Added colour	IS 1797	Qualitative (Present/Absent)
		Detection of Papaya seeds in Black pepper	FSSAI manual Manual methods of analysis for adulterant and contaminants in food, ICMR	Qualitative (Present/Absent)
		Presence of chromates	IS3576	Qualitative (Present/Absent)
		Added colouring matter synthetic	FSSAI manual	Qualitative (Present/Absent)
		Émpty and malformed capsules by count	IS 1907	0.1 % to 10 %
		Immature and shriveled capsules	IS 1907	Qualitative (Present/Absent)
		Determination of Dyes	FSSAI manual	0.1 % to 95 %
		Light seeds	IS 1798	0.01% to 5 %
		Broken fruit, seed, fragments	IS 1797	0.01% to 10 %
		Defective seeds	IS 1797	0.01% to 5 %
		Calcium as CaO	FSSAI manual	0.01% to 2.5 %
		Water insoluble ash	FSSAI manual	1.7 % to 5 %
		Nut Meg and mace	IS 1797	0.01 % to 5 %
		Pin Heads, Broken berry	IS 1798	0.1% to 10 %
		Bitterness expressed as direct reading of absorbance of picrocrocine in Saffron	FSSAI manual	5 % to 50 %

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		Safranal expressed as direct reading of absorbance of 330nm in Saffron	FSSAI manual	10 % to 60 %
		Coloring strength expressed as direct reading of absorbance of 330nm on dry basis in Saffron	FSSAI manual	10 % to 90 %
		Defective rhizome	IS 3576	0.5 % to 10 %
		Presence of lead chromates	FSSAI manual	Qualitative (Present/Absent)
		Coloring power expressed as curcuminoid content	FSSAI Manual	0.01% to 3 %
		Foreign Matter	IS 1797	0.01% to 10 %
		Weevilled Fruits	IS 2443	0.01% to 10 %
		Foreign edible seeds	FSSAI manual	0.01% to 5 %
		Black berries	FSSAI manual	0.01% to 10 %
		Volatile organic sulphur compound on dry basis	FSSAI manual	0.1% to 5 %
		Peroxidase test	FSSAI manual	Qualitative
		Microscopic examination of spices	FSSAI Manual	Qualitative
2.	Edible common Salt / lodized salt/	Moisture	IS 253 IS 7224	0.01% to 6 %
	Fortified Salt	Iodine content	IS 7224	10 mg/kg to 5000 mg/kg
		Alkalinity	IS 253 IS 7224	0.01% to 2 %
		Water soluble matter	IS 253 IS 7224	0.05 % to 100 %
		Water insoluble matter	IS 253 IS 7224	0.01 % to 5.0 %

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		Acid insoluble matter	IS 253	0.01 % to 10.0 %
		Chloride content	IS 7724	95 % to 100 %
3.	Honey	Taste	IS 4941	Qualitative
		Flavour	IS 4941	Qualitative
		Moisture	IS 4941	10.0 % to 40.0 %
		Ash	IS 4941	0.05 % to 2.0 %
		Carbohydrate	IS 1656	0.01% to 90 %
		Energy(Total Calories)	SOP-CommGrade/L3- CNB-FOO-017(Issue No. 01.0 Date 06.08.2018)	1 to 1000 kcal/100gm
		Sucrose	IS 4941	0.010 % to 5.0 %
		Fructose/glucose ratio	IS 4941	0.5 to 1.5
		Specific gravity at 27°C	IS 4941	0.5 g/ml to 2.0 g/ml
		Optical Density	IS 4941	0.001 to 0.800
		Fiehes test	IS 4941	Qualitative (Present/Absent)
		Invert sugars	IS 4941	1% to 50.0 %
		Refractive index	IS 4941	0.5% to 2.0 %
		Presence of foreign matter	IS 4941	0.01 % to 20 %
		Hydroxy methyl furfural	IS 4941	(50 mg to 150 mg)/100 g
		Total Reducing Sugar, percent by mass	IS 4941	0.50 % to 100.0 %
		Acidity (as expressed as formic acid), percent by mass	IS 4941	0.010 % to 5.0 %
		Presence of foreign matter	IS 4941	Qualitative (Present/Absent)
		Fat	IS 6287	0.1% to 2 %
		Protein	IS 7219	0.1% to 2 %

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Η.	Infant Foods			
1.	Infant milk	Moisture	IS 11623	0.05 % to 20 %
	substitutes, Milk- Cereal Based	Total Solids	IS 13334 IS 11623	1 % to 99 %
	Weaning foods,	Carbohydrate	IS 1656	0.01% to 90 %
	Protein-Rich Food Supplements for Infants and	Energy(Total Calories)	SOP-CommGrade/L3- CNB-FOO-017 (Issue No. 01.0 Date 06.08.2018)	(1 to 1000) kcal/100gm
	Preschool	рН	IS 2860	1 to 14
	Children, Malted	Reducing Sugars	IS 6287	0.5 % to 90 %
	Milk Food, Malt	Sucrose	IS 6287	0.1 to 60.0 %
	Based Food, Follow up formula	Water Insoluble solids	AOAC 922.10	0.1 % to 50 %
	complementary	Soluble solids	AOAC 932.12	0.5 % to 100 %
	foods, Processed	Total sugar	IS 2650	0.5 % to 99 %
	cereal Based Complementary	Calcium	IS 5949	0.01 mg/kg to 500 mg/kg
	Foods, proprietary	Phosphorous	IS 12756	0.01 mg/kg to 1000 mg/kg
	10005	Sodium	CommGrade/L3-CNB- FOO-019 (Issue No.01.0 Date 06.08.2018)	0.01 mg/kg to 500 mg/kg
		Potassium	CommGrade/L3-CNB- FOO-019 (Issue No.01.0 Date 06.08.2018)	0.01 mg/kg to 500 mg/kg
		Magnesium	IS 5949	0.01 mg/kg to 500 mg/kg
		Titrable acidity	IS 11766 IS 13334 (Part 1)	0.1 % to 50 %
		Acidity of Milk	AOAC 947.05	0.1 % to 50 %
		Carbohydrates	IS 1656	30 % to 90 %
		Milk Protein	IS 7219	0.05 % to 95.0 %
		Fat	IS 11721	0.01 % to 50 %
		Total Ash	IS 14433	0.1 to 20.0 %

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	of Test		against which tests are performed	Limits of Detection
-		Acid insoluble Ash	IS 14433	0.01 % to 5 %
			IS 4684	
		Ascorbic acid	IS 5838	30 mg to 200 mg
		Crude Fibre	IS 10226	0.5 % to 15 %
		Dietary Fibre	AOAC 985.29	0.1 to 50 %
		Total added Sugar	IS 2650	0.5 % to 50 %
2.	Meat and Meat	Moisture	IS 5960-(Part 1)	0.5 % to 90 %
	Products	Carbohydrate	IS 1656	0.01 to 90 %
		Energy(Total Calories)	SOP-CommGrade/L3-	1 to 1000 kcal/100gm
			CNB-FOO-017(Issue	
			No.01.0 Date 06.08.2018)	
		Nitrogen	IS 5960-(Part-1)	1.0 %to 25 %
		Volatile acidity	AOAC 920.92	1 % to 50 %
		Total fat	IS 5960(Part -3)	1.0 % to 20.0 %
		Total ash	IS 5960(Part -2)	1.0 % to 15.0 %
		Acid insoluble ash	IS 5960	0.01 % to 10 %
		Salt	AOAC 935.47	0.1 % to 5 %
		Nitrite	IS 5960(Part -7)	1 mg/kg to 500 mg/kg
		Total Phosphorus	IS 5960(Part -9)	10 mg/kg to 500 mg/kg
		Poly phosphate	FSSAI Manual	Qualitative
		рН	IS 5960-(Part -1)	1 to 14
		Extract Release Volume	FSSAI Manual	20 to 90.0
		Swelling Capacity	FSSAI Manual	0.5 % t0 60.0 %
		Dye Reduction Capacity	FSSAI Manual	Qualitative
		Fat	IS 5960(Part -4)	1% to 30 %
		Protein	IS 7219	1 % to 30 %
Ι.	Dairy Products and			
1.	Milk and Dairy	Moisture	IS 11623	0.1 % to 100 %
	products,		IS16072	
	Chocolates,	Flavour and Taste	IS 13334 (Part 1)	Qualitative
	Processed milk,	Total Solids	AOAC 925.10	1 % to 100 %
	Dairy whitener,		IS 11622	

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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
	Sweets (Methai), Casein, Cheese, Whole milk		IS 13334 (Part 1) IS 2802, FSSAI Manual	
	Powder, Sterilized	Sucrose	IS 1479 (Part 2)	0.1% to 60.0 %
	flavored milk,	Dirt test	IS 13500	Qualitative
	fresh milk, milk shake, Ice Cream,	Phosphorus	IS 1479 (Part 2)	0.5mg/100g to 2000mg/100g
	Milk Cream, Dahi,	Acid insoluble ash	IS 14433	0.001 % to 5 %
	Paneer, Skimmed	рН	IS 1479(Part 1)	1 to 12
	milk powder	Total Ash	IS 14433	0.1 % to 10 %
	standard grade, Skimmed Milk	Acidity of Milk	IS 1479 (Part 1) IS 2802	0.1 % to 5 %
	Powder Extra	Weight in gram	IS 2802	1 to 4.5
	grade, Milk	Weight by Volume	IS 2802	0 to 600 g/l
	powder, Dairy whitener,	Acidity as lactic acid	IS 1479 (Part 1) IS 2802	0.1 % to 50 %
	Condensed Milk, Party Skimmed and skimmed	Appearance	SOP-CommGrade/L3- CNB-FOO-018 (Issue No.01.0 Date 06.08.2018)	Qualitative
	condensed milk, Sweetened ultra	Milk Solid	IS 16072	10 % to 100 %
	high temperature	Free Acidity	IS 1479 (Part 1) IS 2802	0.1 % to 10.0 %
	condensed milk,	BR Value	IS 3508	30 to 50
	partly skimmed	Dietary fiber	AOAC 985.29	0.5 to 25 %
	milk powder	Viscosity	AOCS, Ja 10-B7(09)	1 to 400000cP
		Texture (Ice cream)	IS 15349	Qualitative
		Milk protein in milk solids not fat	AOAC 991.23	1.0 % to 35 %
		Magnesium	IS1479(Part -2)	0.04mg/kg to 500mg/kg
		Total Protein	IS 7219	1 % to 40 %
		Potassium	SOP-CommGrade/L3- CNB-FOO-019 (Issue No.01.0 Date 06.08.2018)	0.1 mg/kg to 500 mg/kg

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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
		Crude fiber	IS 10226	0.1 % to 15 %
		Carbohydrates	IS 1656	2 % to 90 %
		Non protein nitrogen	IS 1479(Part 2)	1 % to 10 %
		Total Fat (Milk, Ice cream)	IS1479(Part-2) IS 2802	0.5 % to 40.0 %
		Cocoa solids	FSSAI Manual	2.0 to 4.0 %
		Acid insoluble ash (on moisture, fat and Sugar free basis)	IS 14433	0.01 % to 5 %
		Total sugar	IS 4079	0.1 % to 24.5 %
		Specific Gravity	AOAC 945.06	0.51 to 1.10
		Bulk Density	IS 1798	0.21 g/ml to 1.25 g/ml
		Presence of starch	FSSAI Manual	Qualitative (Present/Absent)
		Sodium Chloride	FSSAI Manual	Qualitative (Present/Absent)
		Titrable Acidity (as Lactic acid/Acetic acid)	IS 1479 (Part 1)	0.01 % to 5 %
		Solid not fat	IS 1479 (Part 1)	3 % to 15 %
		Test for presence of Starch	IS 1479 (Part 1)	Qualitative (Present/Absent)
		Urea	FSSAI Manual	Qualitative (Present/Absent)
		Detection of Vegetable oils	FSSAI Manual Manual methods of analysis for adulterants and contaminants in foods ICMR, Quick test for some adulterants in food	Qualitative (Present/Absent)
		Water in milk	IS 11623 Quick test for some adulterants in food	Qualitative (Present/Absent)

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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
		Synthetic Milk	FSSAI Manual Quick test for some adulterants in food	Qualitative (Present/Absent)
		Synthetic Milk-Test for Protein	FSSAI Manual Quick test for some adulterants in food	Qualitative (Present/Absent)
		Salicylic acid	FSSAI Manual	Qualitative (Present/Absent)
		Vanaspati/ Margarine	FSSAI Manual Quick test for some adulterants in food	Qualitative (Present/Absent)
		Formalin	FSSAI Manual	Qualitative (Present/Absent)
		Ammonium Sulphate	FSSAI Manual	Qualitative (Present/Absent)
		Salt (NaCl)	FSSAI Manual	Qualitative (Present/Absent)
		Hydrogen Peroxide	FSSAI Manual	Qualitative (Present/Absent)
		Foreign fat in milk	FSSAI Manual	Qualitative (Present/Absent)
		Sucrose	IS 1479 (Part-2) IS 1166 IS 1479 (Part -1)	0.1% to 60.0 %
		Sodium bicarbonate/ neutralizers	FSSAI Manual IS 1479 (Part-I)	Qualitative (Present/Absent)
		Boric acid	FSSAI Manual	Qualitative (Present/Absent)
		Removal of Fat	FSSAI Manual Quick test for some adulterants in food	Qualitative (Present/Absent)
		Blotting paper	Quick test for some adulterants in food	Qualitative

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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
		Coal Tar Dyes	FSSAI Manual	Qualitative
			Quick test for some adulterants in food	(Present/Absent)
		Cellulose	FSSAI Manual	Qualitative (Present/Absent)
		Test for skimmed milk powder in Natural milk	FSSAI Manual	Qualitative (Present/Absent)
		Detergent	FSSAI Manual	Qualitative (Present/Absent)
		Test for Glucose/ invert sugar/ Sugar Syrup	FSSAI Manual	Qualitative (Present/Absent)
		Energy	SOP-CommGrade/L3- CNB-FOO-017 (Issue No. 01.0 Date 06.08.2018)	1 to 1000 kcal/100gm
		Reducing Sugar	IS 1479 (Part 1)	0.1 % to 50.0 %
2.	Butter/ Ghee/ Butter oil	Moisture	IS 3507:IS 3508 FSSAI Manual	0.1 % to 20.0 %
		Fat	IS 3507:FSSAI Manual	1.0 % to 90.0 %
		Curd	IS 3507	0.01 to 2 %
		Salt	IS 3507:FSSAI Manual	0.5 % to 10.0 %
		Titrable Acidity	IS 3507	0.05 % to 3 %
		рН	IS 3507	1 to 14
		Free fatty acids	FSSAI Manual:IS 3508	0.015 % to 3 %
		BR Reading	FSSAI Manual	30 to 50
		RM Value	FSSAI Manual	15 to 45
		Mineral oil	FSSAI Manual	Qualitative (Present/Absent)
		Vanaspati in Ghee	FSSAI Manual	Qualitative (Present/Absent)
		Refractive index	IS 3508	1.400 to 1.480
		Melting Point	IS 3508	20 to 50°C
		Unsaponifiable matter	IS 3508	0.2 to 4 %
		Peroxide value	IS 3508	0.2 to 20meq/kg

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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
		Saponification value	IS 3508	180 to 198
		lodine value	IS 3508	25 to 40
		Sesame oil	IS 3508	Qualitative (Present/Absent)
		Thickeners	FSSAI Manual	Qualitative (Present/Absent)
3.	Cheese	Moisture	IS 2785:FSSAI Manual	0.1 % to 80.0 %
	(All Varieties)	Ash	AOAC 935.42	0.1 % to 15.0 %
		Fat	IS 2785:FSSAI Manual	2 % to 80.0 %
		Total nitrogen	IS 7219	0.5 % to 10.0 %
		Titrable Acidity	IS 10484	0.1 % to 2.50 %
		pH	AOAC 943.02	1 to 14
		Salt	IS 2785	0.1 % to 5.0 %
		Carbohydrates	IS 1656	30 % to 90 %
		Energy	SOP-CommGrade/L3- CNB-FOO-017 (Issue No.01 Date 06.08.2018)	1 to 1000 kcal/100gm
		Protein	IS 7219	0.1 to 30 %
4.	Nuts and nuts	Extraneous Matter	IS 7750	0.01 % to 50 %
	products and	Carbohydrate	IS 1656	0.01 to 90 %
	Raisins	Energy(Total Calories)	SOP-CommGrade/L3- CNB-FOO-017 (Issue No.01.0 Date 06.08.2018)	1 to 1000 kcal/100gm
		Black or Brown spots	IS 7750	0.01 % to 50 %
		Damaged Discoloured Units	IS 7750	0.01 % to 50 %
		Moisture	IS 10065:AOAC 934.06	0.01 % to 40 %
		Protein	IS 7219	0.5 % to70.0 %
		Fat	IS 10065	0.1 % to50.0 %
		Crude fiber	IS 10226 (Part-1)	0.20 % to20.0 %
		Salt	AOAC 950.52	0 .05 % to10.0 %
		Spoilage by insects and	IS 4333(Part 1)	0.1 to 5 %

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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
		rodents		
		Total ash	AOAC 950.49	0 .10 % to 10.0 %
		Acidity of Extracted fat	IS 10619	0 .01 % to5.0 %
		Damaged kernel including slightly damaged kernel	FSSAI Manual	0.0 % to 5.0 %
		Damaged raisins	FSSAI Manual	0.0 % to 5.0 %
		Sugared raisins	FSSAI Manual	0.0 % to 20.0 %
		Unopened pistachio shells	FSSAI Manual	0.0 % to2.0 %
		Empty Pistachio shells	FSSAI Manual	0.0 %to 5.0 %
		Acid insoluble ash	FSSAI Manual	0.0 % to 2.0 %
		Blemished damaged units	FSSAI Manual	0.0 %to 5.0 %
		Foreign matter	FSSAI Manual	0.0 % to 5.0 %
J.	Oil Seeds & By-Pro	ducts		
1.	Oil seeds& by-	Moisture	IS 3579	1 % to 10 %
	products	Protein	IS 7219	0.1 to 50 %
		Total Fat	IS 3579	0.1 to 50 %
		Total Ash	AOAC 923.03	0.1 to 10.0 %
		Water Insoluble Ash	ls 13855	0.1 to 5.0 %
		Acid Insoluble Ash	AOAC 920.72	0.01 to 5.0 %
		Residue Insoluble In Acid	IS 3988	0.01 to 5.0 %
		Crude Fiber	IS 10226 (Part 1)	0.1 to 50 %
		Dietary Fiber	AOAC 985.29	0.1 to 10.0 %
		Carbohydrates	IS 1656	0.5 to 90.0 %
		Acid value of extracted fat	IS 3579	0.1 % to 10.0 %
		pH of Aqueous Extract	AOAC 943.02	1 to 14
		Gum content Guar	IS 3988	0.1 to 50.0 %
		Mass of 1000 Food Grains/Seeds	IS 4333(Part 4)	0.2 to 500 gm
		Viscosity at 27°C	IS 3988	1 to 4,00,000
		Foreign Matter	IS 4333 (Part 1)	0.01 % to 10.0 %
		Whitish Seeds	STP No. 181(Issue No. 01 Date 23.05.2014)	0.01 % to 10.0 %
		Particle Size (Pass	STP No. 180 (Issue No. 01	0.01 to 10g/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
		Through 14 Mesh/20 Mesh)	Date 23.05.2014)	
		Black, Dark Red and Brown Coloured Splits	STP No. 180 (Issue No. 01 Date 23.05.2014)	0.01 % to 10.0 %
		Dehusked Splits	STP No. 180 (Issue No. 01 Date 23.05.2014)	0.01 % to 10.0 %
		Damaged and Weevilled	IS 3579	0.02 % to 10.0 %
		Impurities	IS 3579	0.0 % to 25.0 %
		Green Seed	IS 3579	0.0 % to 25.0 %
		Other Oil Seed	IS 3579	0.0 % to 25.0 %
		Split Kernels	IS 3579	0.02 % to 10.0 %
		Broken Kernels	IS 3579	0.02 % to 10.0 %
		Slightly Damaged	IS 3579	0.02 % to 10.0 %
		Immature & shriveled	IS 3579	0.02 % to 10.0 %
		Energy	SOP-CommGrade/L3- CNB-CHE-017(Issue No. 01.0 Date 06.08.2018)	1 to 1000 kcal/100gm
2.	Oil Cakes, De-	Moisture	IS 7874 (Part 1)	1.0 % to 15.0 %
	Oiled Cakes, oil	Crude Protein	IS 7219:IS 7874 (Part 1)	5.0 % to 50.0 %
	seed meal cake	Oil Content/ Crude Fat	IS 3579:IS 7874 (Part 1)	0.1 % to 10.0 %
		Total Ash, (Dry Basis)	IS 7874 (Part 1)	0.10 % to 10.0 %
		Acid Insoluble Ash (On Dry Basis)	IS 7874 (Part 1)	0.02 % to 4.0 %
		Crude Fiber	IS 7874 (Part 1) IS 10226(Part 1)	5.0 %to 40.0 %
		Carbohydrates	IS 1656	5.0 % to 90.0 %
		Colour	SOP-CommGrade/L3- CNB-CHE-020(Issue No. 01.0 Date 26.05.2018)	Qualitative
		Presence of castor husk	IS 7874 (Part 1)	Qualitative (Present/Absent)
		Presence of mahua cake	IS 7874 (Part 1)	Qualitative

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				(Present/Absent)
3.	Pet foods/ Animal Feeds	Moisture Acid insoluble ash	IS 7874 (Part 1) IS 7874 (Part 1)	1 % to 20 % 0.02 % to 10 %
		Crude fat	IS 7874	0.1 % to 15.0 %
		Crude fibre	IS 7874 (Part 1)	5 % to 35 %
		Crude protein	IS 7874 Part 1:IS 7219	0.1 % to 40.0 %
		Sodium chloride	IS 7874 (Part 2)	0.1 % to 5 %
		Total Ash	IS 7874 (Part 1)	0.5 % to 10 %
		Calcium	IS 2052:IS 7874 (Part 2)	0.5 % to 25.0 %
		Phosphorus	IS 2052:IS 7874(Part- 2)	0.5 % to 10.0 %
		Urea nitrogen	IS 7874 (Part- 1)	1 % to 20 %
		Acid Value in Extracted Oil	IS 3579	0.01 % to 10.0 %
		Carbohydrate	IS 1656	0.01 to 90 %
		Energy(Total Calories)	SOP-CommGrade/L3- CNB-FOO-017 (Issue No.01.0 Date 06.08.2018)	1 to 1000 kcal/100gm
		Extraneous matter	IS 7874 (Part 1)	0.01 % to 20 %
		Presence of castor husk	IS 7874 (Part 1)	Qualitative
		Colour	SOP-CommGrade/L3- CNB-CHE-020(Issue No. 01.0 Date 26.05.2018)	Qualitative
		Presence of Mahua cake	IS 7874 (Part 1)	Qualitative
4.	Poultry and	Moisture	IS 4723:IS 10382	0.5 % to 50.0 %
	Poultry Products	Ash content	IS 4723	0.001 % to 20.0 %
		Carbohydrate	IS 1656	0.01 to 90 %
		Energy(Total Calories)	SOP-CommGrade/L3- CNB-FOO-017(Issue No.01.0 Date 06.08.2018)	1 to 1000 kcal/100gm
		Solubility by RI	IS 4723	1 % to 100 %
		рН	IS 10382	1 to 14.0

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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
		Salt	AOAC 935.47	0.1 % to 20 %
		Total solid in gruel	IS 1485	0.10 % to 8.0 %
		Phosphorous	IS 7874 (Part 2)	5.0 % to 90.0 %
		Free Acidity (ml of I N, NaOH solution per 100 g of product)	IS 1485	1.0 to 4.0 ml
		Acid insoluble ash	IS 7874 (Part -1)	0.01 % to 20 %
		Nitrogen/Protein	IS 7219	10 % to 70 %
		Fat/Lecithin	IS 4723	1 % to 90 %
5.	Starch and	Moisture	IS 4706 (Part 2)	0.01 % to 14.0 %
	Starchy Products	Protein	IS 4706 (Part 2):IS 7219	0.10 % to 10.0 %
		Carbohydrate	IS 1656	0.01 to 90 %
		Energy(Total Calories)	SOP-CommGrade/L3- CNB-FOO-017 (Issue No. 01.0 Date 06.08.2018)	1 to 1000 kcal/100gm
		Total ash	IS 4706 (Part 2)	0.01 % to 10.0 %
		Acid insoluble ash	IS 4706 (Part 2)	0.001 % to 10.0 %
		Crude Fiber	IS 4706 (Part 2)	0.10 % to 20.0 %
		Free Acidity	IS 4706 (Part 2)	0.50 % to 5.0 %
		Alkalinity of ash	IS13856	0.05 % to 5.0 %
		Sulphated ash	IS 4706 (Part 2)	0.1 % to 10.0 %
		Starch	IS 4706 (Part 2)	2.0 % to 95.0 %
		pH of aqueous extract	IS 4706 (Part 2)	2 to 12
		Alcoholic acidity	IS 4706 (Part 2)	0.01 % to 5.0 %
		Gelling powder	IS 1007:IS 4706 (Part 2)	Qualitative
6.	Sugar and by	Taste	IS 5975	Qualitative
	products (Invert	Flavour	IS 5975	Qualitative
	syrups, caramel, refined sugar, soft sugar, Gur or jaggery, Bura,	Moisture	IS 15279 FSSAI Manual:IS 1008 IS 12923:IS 6747 IS 1163	0.5 % to 50 %
	Glucose/ Liquid Glucose,	Protein	IS 7219 FSSAI Manual:IS 1163	0.5 % to 50 %

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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
	Dextrose, Boiled confectionery, Chocolate,	Fat	IS 1008 FSSAI Manual:IS 1163	0.5 % to 50 %
	Chewing gum,	Total Ash	IS 12923:FSSAI Manual	0.01 to 20 %
	Bubble gum	Carbohydrate	IS 1656	0.01 to 90 %
		Energy	SOP-CommGrade/L3- CNB-FOO-017 (Issue No. 01.0 Date 06.08.2018)	1 to 1000 kcal/100gm
		Acid insoluble ash	IS 1008 FSSAI Manual:IS 6747 IS 1163	0.02 % to 5 %
		Sulphated Ash	FSSAI Manual:IS 6747	0.01 % to 10 %
		Gum Content	IS 6747:FSSAI Manual	0.01 to 50 gm/100 gm
		Carbohydrates	IS 1656	5.00 % to 95 %
		Sucrose	IS 15279 AOAC 925.46 FSSAI Manual IS 1008:IS 6287 IS 1163	1 % to 100 %
		Reducing Sugar	AOAC 923.09 IS 1008 FSSAI Manual:IS 6287	1 % to 50 %
		Invert sugars	IS 15279	0.1 % to 25 %
		pH	AOAC 943.02	1 to 14
		Polarization	IS 15279	1 to 100 %
		Color	IS 15279	Qualitative
		Crystal Size/Seive Test	IS 498	1 % to 100 %
		Extraneous Matter	STP No.185 (Issue No.01 Date 12.11.2014)	0.01 % to 25 %
		Dirt, Filth, Iron Filings, and Added Colouring Matter	IS 5982 FSSAI Manual	Qualitative (Present/Absent)
		Glucose	FSSAI Manual	0.5 % to 98 %

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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
		Total solids	IS 13688:IS 873 IS 12333	20 % to 99 %
		Water Insoluble matter	IS 15279	0.1 % to 10 %
		Determination of ash insoluble in dil Hcl	IS 13857 ISO 1577	0.001 % to 10 %
		Conductivity	IS 15279 IS 5982	10 µmhos/cm2 to 500 µmhos/cm2
		Sulphated ash on salt free basis	IS 15279	0.05 % to 5 %
7.	Tea and Tea	Moisture	IS 13853	0.05 % to 25.0 %
	Products	Total Ash	IS 13854	1.0 % to 10.00 %
		Water Soluble Ash	IS 3633	20 % to 80 %
		Carbohydrate	IS 1656	0.01 to 90 %
		Energy(Total Calories)	SOP-CommGrade/L3- CNB-FOO-017(Issue No.01.0 Date 06.08.2018)	1 to 1000 kcal/100gm
		Water Insoluble Ash	IS 3633	10 % to 50 %
		Acid Insoluble Ash	IS 3633	0.02 % to 5 %
		Acid soluble ash	IS 3077	0.001 % to 50 %
		Crude Fibre	IS 3633	5 % to 30 %
		Iron fillings	FSSAI Manual	Qualitative (Present/Absent)
		Alkalinity of Water Insoluble Ash	IS 3633	0.1 % to 5 %
		Petroleum Ether Extract	AOAC 920.97	0.1 to 5 %
		Total ash soluble in boiling distilled water	IS 13855	1 % to 50 %
		Alkalinity of ash on moisture and fat free basis (Tea and coffee)	IS 13856 IS 1164	0.5 % to 70 %
		Alkalinity of water soluble ash expressed as KOH	FSSAI Manual	0.01 to 5 %

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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
		(m/m)		
		Determination of Water extract	IS 13862	0.5 % to 80 %
8.	Tobacco & by-	Moisture	IS 5643	0.1 % to 20.0 %
	products	Total ash	IS 5643	0.01 % to 50.0 %
	Pan masala,	Acid Insoluble Ash	IS 5643	0.10 % to 9.0 %
	Gutkha, Catechu	Total nitrogen	IS 5643	0.10 % to 5.0 %
		Loss on heating	IS 5643	0.1 % to 10 %
		Detection of Magnesium Carbonates in Pan masala/Gutka	FSSAI Manual	Qualitative (Present/Absent)
K.		Foods And Agricultural Pr	oducts	
1.	Bakery and	Carbohydrate	IS 1656	0.1 % to 90 %
	confectionary	Protein	IS 7219	0.1 % to 60.0 %
	products,	Crude Protein	IS 7874	0.1 % to 60.0 %
	Beverages	Fat	IS 4684:IS 12711	0.1 % to 100 %
	(alcoholic/non	Free Fatty Acid	IS 548 (Part 1)	0.05 % to 10 %
	alcoholic),canned	Dietary Fiber	AOAC 985.29, IS 11062	0.1 % to 25 %
	and processed food, cereals	Determination of Reducing Sugars	IS 4079 IS 2650	1 % to 90 %
	pulses and	Viscosity	AOCS Ja 10-87 (09)	1 to 60000000 cP
	cereals products,	Polarization	IS 15279	1 to 100 %
	natural plant	Total sugar	IS 4079:IS 2802	0.1 % to 90 %
	derivatives, coffee	Sucrose	IS 6287	0.1 % to 90 %
	and cocoa	Insoluble dietary fibre	IS 11062	0.1 % to 20 %
	products, edible color and flavors,	Soluble dietary fibre	IS 11062	0.1 % to 20 %
	Edible oils & Fats,	Energy or Calories	SOP-CommGrade/L3- CNB-FOO-017 (Issue No.	1Kcal/100g to 1000Kcal/100g
	Food additives & preservatives,		01.0 Date 06.08.2018)	,
	Fruit & Fruit Products, Herbs,	Calories from fat	SOP-CommGrade/L3- CNB-FOO-017 (Issue No.	1Kcal/100g to 1000Kcal/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
	spices and condiments, Honey and honey products, infant food, Jam juice, sauce and concentrate, Meat and meat products, Milk and dairy products, Natural waxes, Nut and nut products, oil seed and by products, Pet foods, Poultry and oultry products, starch and starch products, sugar and sugar products, Tea, tobacco and tobacco products, Vegetables and vegetables products, Fish and fish products, Egg and egg related, food products, pod		01.0 Date 06.08.2018)	
II	WATER			

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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
1.	Water for Process	Colour	IS 3025 (P-4)	2 to 500 Hz
	food industry /	Odour	IS 3025 (P-5)	Qualitative
	Drinking Water/	Turbidity	IS 3025 (P-10)	0.1NTU to 100 NTU
	Surface Water/	pH	IS 3025 (P-11)	1 to 14
	Raw Water/	Total Hardness	IS 3025 (P-21)	2 to 10000 mg/l
	Borewell Water/	(as CaCO ₃)		
	RO Water	Sulphate (as SO ₄)	IS 3025 (P-24)	2 to 5000 mg/l
		Fluoride (as F)	IS 3025 (P-60)	0.1 to 10 mg/l
		Chloride (as Cl)	IS 3025 (P-32)	2 to 10000 mg/l
		Taste	IS 3025 (P-8)	Qualitative
		Alkalinity P &M	IS 3025 (P-23)	2 to 10000 mg/l
		Acidity (as CaCO ₃)	IS 3025 (P-22)	2 to 1000 mg/l
		Nitrate (as NO ₃)	IS 3025 (P-34)	1 to 1000 mg/l
		Nitrate Nitrogen (as N)	IS 3025 (P-34)	0.45 to 1000 mg/l
		Nitrite (as NO ₂)	IS 3025 (P-34)	0.001 to 100 mg/l
		Nitrite Nitrogen (as N)	IS 3025 (P-34)	0.001 to 100 mg/l
		Calcium (as Ca)	IS 3025 (P-40)	2 to 10000 mg/l
		Magnesium (as Mg)	IS 3025 (P-46)	2 to 10000 mg/l
		Total Dissolved Solids	IS 3025 (P-16)	2 to 10000 mg/l
		Iron (as Fe)	IS 3025 (P-53)	0.1 to 1000 mg/l
		Ammonia (as N)	IS 3025 (P-34)	0.1 to 100 mg/l
		Chloramines (as Cl ₂)	IS 3025 (P-26) APHA 4500-CI G	1 to 100 mg/l
		Free Residual Chlorine	IS 3025 (P-26)	0.1 to 100 mg/l
		Phosphorous (as P)	IS 3025 (P-31)	0.65 to 1000 mg/l
		Phosphate (as PO ₄)	IS 3025 (P-31)	2 to 1000 mg/l
		Hexavelent Chromium (as Cr ⁺⁶)	IS 3025 (P-52)	0.05 to 100 mg/l
		Conductivity at 25 °C	IS 3025 (P-14)	1 to 10000 µS/cm
2.	Packaged	Colour	IS 3025 (P-4)	2 to 500 Hz
	Drinking Water/	Odour	IS 3025 (P-5)	Qualitative
	Packaged Natural	Turbidity	IS 3025 (P-10)	0.2 to 100 NTU
	Mineral Water	рН	IS 3025 (P-11)	1 to 14

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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
		Total Hardness (as CaCO ₃)	IS 3025 (P-21)	2 to 10000 mg/l
		Sulphate (as SO ₄)	IS 3025 (P-24)	2 to 5000 mg/l
		Fluoride (as F)	IS 3025 (P-60)	0.1 to 10 mg/l
		Chloride (as Cl)	IS 3025 (P-32)	2 to 10000 mg/l
		Taste	IS 3025 (P-8)	Qualitative
		Alkalinity P &M (as CaCO ₃)	IS 3025 (P-23)	2 to 10000 mg/l
		Acidity (as CaCO ₃)	IS 3025 (P-21)	2 to 1000 mg/l
		Nitrate (as NO ₃)	IS 3025 (P-34)	1 to 1000 mg/l
		Nitrate Nitrogen (as N)	IS 3025 (P-34)	0.45 to 1000 mg/l
		Nitrite (as NO ₂)	IS 3025 (P-34)	0.02 to 100 mg/l
		Nitrite Nitrogen (as N)	IS 3025 (P-34)	0.006 to 100 mg/l
		Calcium (as Ca)	IS 3025 (P-40)	2 to 10000 mg/l
		Magnesium (as Mg)	IS 3025 (P-46)	2 to 10000 mg/l
		Total Dissolved Solids	IS 3025 (P-15)	2 to 10000 mg/l
		Iron (as Fe)	IS 3025 (P-53)	0.1 to 1000 mg/l
		Ammonia (as N)	IS 3025 (P-34)	0.1 to 100 mg/l
		Chloramines (as Cl ₂)	IS 3025 (P-26) APHA 4500-CI G	1 to 100 mg/l
		Free Residual Chlorine	IS 3025 (P-26)	0.1 to 100 mg/l
		Phosphorous (as P)	IS 3025 (P-31)	0.65 to 1000 mg/l
		Phosphate (as PO ₄)	IS 3025 (P-31)	2 to 1000 mg/l
		Hexavelent Chromium (as Cr ⁺⁶)	IS 3025 (P-52)	0.05 to 100 mg/l
		Conductivity at 25 °C	IS 3025 (P-14)	1 to 10000 µS/cm