

**Laboratory** Testtex India Laboratories Private Limited, Plot No. 94, Kuvadva GIDC, 8 B, National Highway, Kuvadva, Rajkot, Gujarat

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

**Certificate Number** TC-7182 (in lieu of T-3954)

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**Validity** 26.04.2018 to 25.04.2020

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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#### BIOLOGICAL TESTING

<b>I.</b>	<b>WATER</b>			
<b>1.</b>	<b>Packaged Drinking Water</b>	Escherichia coli	IS 5887 ( Part-1)	Qualitative (Present/Absent / 250 ml)
		Salmonella spp.	IS 15187	
		Shigella spp.	IS 5887 (Part-7)	
		Vibrio cholera	IS 5887 (Part-5)	
		Vibrio parahaemolyticus	IS 5887 (Part-5)	
		Sulphite reducing anaerobes	IS 13428(Annex C)	Qualitative (Present/Absent / 50 ml)
		Staphylococcus aureus	IS 5887 (Part-2)	Qualitative (Present /Absent /250 ml)
		Pseudomonas aeruginosa	IS 13428 (Annex D) ISO 16266	
		Aerobic Microbial Count, 37° C for 24 hrs	IS 5402	≥1 cfu/ml
		Yeast & mould Count	IS 5403	Qualitative (Present /Absent /250 ml)
		Coliform	IS 1622 ISO 9308	
		Escherichia coli	IS 1622 ISO 9308	≥2 to >1600 MPN/100 ml
		Fecal Streptococci	ISO 7899 (C) (Part-2)	Qualitative (Present /Absent /250 ml)
<b>2.</b>	<b>Drinking Water &amp; Water for Swimming pools and spa</b>	Coliform	IS 1622 ISO 9308	≥2 to >1600 MPN/100 ml
		Escherichia Coli	IS 1622 ISO 9308	≥2 to >1600 MPN/100 ml
<b>3.</b>	<b>Swimming pools and spa</b>	Aerobic Microbial Count @37° C for 24 hrs	IS 5402	≥1cfu/ml
<b>4.</b>	<b>Water for Processed Industry</b>	Proteolytic organisms	IS 4251	≥1 cfu/ml
		Lipolytic Organisms	IS 4251	≥1 cfu/ml

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<b>II.</b>	<b>FOOD &amp; AGRICULTURAL PRODUCTS</b>			
<b>1.</b>	<b>Milk &amp; Dairy Products</b>	Total Plate Count	IS 5402 ISO 4833	≥1 cfu /ml ≥10 cfu /g
		Shigella spp.	IS 5887 (Part-7) ISO 21567	Qualitative (Present /Absent/25 g)
		Yeast & mould count	IS 5403 ISO 21527	≥1 cfu/ml, ≥10 cfu /g
		Escherichia coli	IS 5887(Part-1) ISO 7251(E)	Qualitative (Present /Absent/g)
		Escherichia coli	IS 5887(Part-1)	≥100 cfu / g ≥10 cfu / ml
		Coliform count	IS 5401(Part-1) ISO 4832	≥1 cfu / ml ≥10 cfu /g
		Salmonella spp.	IS 5887 (Part-3) ISO 6579-1	Qualitative (Present /Absent / 25 g)
		Staphylococcus aureus	IS 5887 (Part-2) ISO 6888-1	Qualitative (Present / Absent / g)
		Staphylococcus aureus	IS 5887 (Part-2) ISO 6888-1	≥100 cfu / g
		Bacillus cereus	IS 5887 (Part-6) ISO 7932	≥10 cfu/ml ≥100 cfu / g
		Clostridium perfringens	IS 5887 (Part-4) ISO 7937	Qualitative (Present / absent / 25g)
		Sulphite reducing clostridium	ISO 15213	≥10 cfu / g
		Listeria monocytogenes	IS 14988 (Part-1) ISO 11290( Part-1)	Qualitative (Present /Absent / 25g)
<b>2.</b>	<b>Cereal, Pulses and Cereal Products</b>	Yeast & mould count	IS 5403 ISO 21527	≥10 cfu / g
		Total plate count	IS 5402 ISO 4833	≥10 cfu / g
		Escherichia coli	IS 5887(Part-1) ISO 7251(E)	Qualitative (Present / Absent/g)

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		Coliform count	IS 5401(Part-1) ISO 4832	≥10 cfu / g
		Salmonella spp.	IS 5887 (Part-3) ISO 6579-1	Qualitative (Present / Absent / 25g)
		Shigella spp.	IS 5887 (Part-7) ISO 21567	Qualitative (Present / Absent / 25g)
		Staphylococcus aureus	IS 5887 (Part-2) ISO 6888-1	Qualitative (Present / Absent / g)
<b>3.</b>	<b>Herbs , Spices &amp; Condiments</b>	Total plate count	IS 5402 ISO 4833	≥10 cfu / g
		Yeast & mould count	IS 5403 ISO 21527	≥10 cfu / g
		Escherichia coli	IS 5887 (Part-1) ISO 7251(E)	Qualitative (Present/ Absent / g)
		Coliform count	IS 5401 ISO 4832	≥10 cfu / g
		Salmonella spp.	IS 5887 (Part-3) ISO 6579-1	Qualitative (Present / Absent / 25g)
		Staphylococcus aureus	IS 5887 (Part-2) ISO 6888-1	Qualitative (Present / Absent/g)
<b>4.</b>	<b>Fruits &amp; Fruit Products</b>	Total Plate Count	IS 5402 ISO 4833	≥10 cfu / g
		Escherichia coli	IS 5887 (Part-1) ISO 7251(E)	Qualitative (Present / Absent / g)
		Salmonella spp.	IS 5887 (Part-3) ISO 6579-1	Qualitative (Present/Absent / 25 g)
		Shigella spp.	IS 5887 (Part-7) ISO 21567	Qualitative (Present/Absent / 25 g)
		Clostridium perfringens	IS 5887 (Part-4)	Qualitative (Present/Absent / 25 g)
		Yeast and Mould count	IS 5403 ISO 21527	≥ 10 cfu / g
		Total Coliforms Count	IS 5401 ISO 4832	≥ 10 cfu / g

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		Staphylococcus aureus	IS 5887 (Part-2) ISO 6888-1	Qualitative (Present / Absent / g)
5.	Snacks & Instant Mixes	Total plate count	IS 5402 ISO 4833	≥10 cfu / g
		Escherichia coli	IS 5887 (Part-1) ISO 7251 (E) USFDA BAM Chapter 4	Qualitative (Present / Absent / g)
		Total Coliforms Count	IS 5401 ISO 4832	≥10 cfu / g
		Salmonella spp.	IS 5887 (Part-3) ISO 6579-1	Qualitative (Present / Absent / 25 g)
		Staphylococcus aureus	IS 5887 (Part-2) ISO 6888-1	Qualitative (present / Absent / g)
		Clostridium perfringens	IS 5887 (Part-4)	Qualitative (Present / Absent / 25g)
		Listeria monocytogenes	IS14988 (Part-1) ISO 11290( Part-1)	Qualitative (Present/Absent / 25 g)
		Yeast & Mould count	IS 5403 ISO 21527	≥ 10 cfu / g
6.	Bakery & Confectionery Products	Total Plate Count	IS 5402 ISO 4833	≥ 10 cfu / g
		Yeast and Mould count	IS 5403 ISO 21527	≥ 10 cfu / g
		Total Coliforms Count	IS 5401 ISO 4832	≥10 cfu / g
		Salmonella spp.	IS 5887 (Part-3) ISO 6579-1	Qualitative (Present / Absent / 25 g)
		Shigella spp.	IS 5887 (Part-7) ISO 21567	Qualitative (Present / Absent / 25 g)
		Staphylococcus aureus	IS 5887 (Part-2) ISO 6888-1	Qualitative (Present / Absent/ g)
		Escherichia coli	IS 5887 (Part-1) ISO 7251(E)	Qualitative (Present / Absent/ g)

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7.	<b>Vegetables &amp; Vegetable Products</b>	Total Plate Count	IS 5402 ISO 4833	≥10 cfu / g
		Escherichia coli	IS 5887 (Part-1) ISO 7251(E)	Qualitative (Present / Absent / g)
		Salmonella spp.	IS 5887 (Part-3) ISO 6579-1	Qualitative (Present/Absent / 25 g)
		Shigella spp.	IS 5887 (Part-7) ISO 21567	Qualitative (Present/Absent / 25 g)
		Clostridium perfringens	IS 5887 (Part-4)	Qualitative (Present/Absent / 25 g)
		Yeast and Mould and	IS 5403 ISO 21527	≥10 cfu / g
		Total Coliforms Count	IS 5401 ISO 4832	≥ 10 cfu / g
		Staphylococcus aureus	IS 5887 (Part-2) ISO 6888-1	Qualitative (Present / Absent / g)
8.	<b>Nuts and Nut Products</b>	Total Plate Count	IS 5402 ISO 4833	≥10 cfu / g
		Escherichia coli	IS 5887 (Part-1): ISO 7251(E)	Qualitative (Present / Absent / g)
		Staphylococcus aureus	IS 5887 (Part-2) ISO 6888-1	Qualitative (Present / Absent / g)
		Salmonella spp.	IS 5887 (Part-3) ISO 6579-1	Qualitative (Present/Absent / 25g)
		Shigella spp.	IS 5887 (Part-7) ISO 21567	Qualitative (Present/Absent / 25g)
		Vibrio cholera	IS 5887 (Part-5) ISO 21872-1	Qualitative (Present/Absent / 25g)
		Clostridium perfringens	IS 5887 (Part-4)	Qualitative (Present/Absent / 25g)
		Yeast and Mould count	IS 5403 ISO 21527	≥ 10 cfu / g

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9.	<b>Meat and meat Products</b>	Total Plate Count	IS 5402 ISO 4833	≥ 10 cfu / g
		Salmonella spp.	IS 5887 (Part-3) ISO 6579-1	Qualitative (Present/Absent / 25 g)
		Shigella spp.	IS 5887 (Part-7) ISO 21567	Qualitative (Present/Absent / 25 g)
		Staphylococcus aureus	IS 5887 (Part-2) ISO 6888-1	≥100 cfu / g
		Clostridium perfringens	IS 5887 (Part-4)	≥100 cfu / g
		Escherichia coli	IS 5887 (Part-1) ISO 7251(E)	≥100 cfu / g
		Yeast and Mould	IS :5403 ISO 21527	≥10 cfu / g
		Listeria monocytogenes	IS 14988 (Part-1) ISO 11290( Part-1)	Qualitative (Present / Absent / 25g)
		Vibrio cholerae	IS 5887 (Part-5) ISO 21872-1	Qualitative (Present / Absent / 25g)
		Vibrio parahaemolyticus	IS 5887 (Part-5) ISO 21872-1	Qualitative (Present / Absent / 25g)
		Enterobacteriaceae	IS / ISO 7402	≥ 10 cfu / g
		Sulphite reducing bacteria	ISO 15213 (E)	≥ 10 cfu / g
		Fecal streptococci	IS 5887(Part-2)	Qualitative (Present / Absent / g)
10.	<b>Fish &amp; Fish Products</b>	Total Plate Count	IS 5402 ISO 4833	≥ 10cfu / g
		Salmonella spp.	IS 5887 (Part-3) ISO 6579-1	Qualitative (Present/Absent / 25 g)
		Shigella spp.	IS 5887 (Part-7) ISO 21567	Qualitative (Present/Absent / 25 g)
		Staphylococcus aureus	IS 5887 (Part-2) ISO 6888-1	≥100 cfu / g
		Clostridium perfringens	IS 5887 (Part-4)	≥100 cfu / g
		Escherichia coli	IS 5887 (Part-1) ISO 7251(E)	≥100cfu / g

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		Yeast and Mould	IS :5403 ISO 21527	≥10cfu / g
		Listeria monocytogenes	IS 14988 (Part-1) ISO 11290(Part-1)	Qualitative (Present / Absent / 25g)
		Vibrio cholerae	IS 5887 (Part-5) ISO 21872-1	Qualitative (Present / Absent / 25g)
		Vibrio parahaemolyticus	IS 5887 (Part-5) ISO 21872-1	Qualitative (Present / Absent / 25g)
		Enterobacteriaceae	IS / ISO 7402	≥10 cfu / g
		Sulphite reducing bacteria	ISO 15213 (E)	≥ 10 cfu / g
		Fecal streptococci	IS 5887(Part 2)	Qualitative (Present / Absent / g)
<b>III.</b>	<b>ENVIRONMENT AND POLLUTION</b>			
<b>1.</b>	<b>Bioburden estimation of classified and non classified areas and surface swab</b>	Total Plate Count	ISO 18593 (E) (Testing as per IS 5402)	<10 cfu / 25cm <sup>2</sup> / 50cm <sup>2</sup> / 100 cm <sup>2</sup> /1000 cm <sup>2</sup> /swab
		Yeast and Mould	ISO 18593(E) Testing as per IS 5403)	<10 cfu / 25cm <sup>2</sup> / 50cm <sup>2</sup> / 100 cm <sup>2</sup> /1000 cm <sup>2</sup> /swab
		Coliform	ISO 18593 (E) (Testing as per IS 5401)	<10 cfu / 25cm <sup>2</sup> / 50cm <sup>2</sup> / 100 cm <sup>2</sup> /1000 cm <sup>2</sup> /swab
		Vibrio cholera	ISO 18593 (E) Testing as per IS 5887(Part-5)	Qualitative (Present/Absent/100 cm <sup>2</sup> /swab)
		E.coli	ISO 18593(E) Testing as per IS 5887(Part-1)	Qualitative (Present/Absent/100 cm <sup>2</sup> /swab)
		Salmonella spp.	ISO 18593(E) (Testing as per IS 5887(Part-3)	Qualitative (Present/Absent/100 cm <sup>2</sup> /swab)
		Enterobacteracea	ISO 18593(E) (Testing as per IS/ISO :7402 (Part-3)	≥1 cfu / 100cm <sup>2</sup> /swab

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2.	Air Monitoring	Total plate count (Settle Plate Technique)	SOP no. TTI/053(Issue date:22.06.2015 & No:01) based on APHA Comp. 5 <sup>th</sup> Edn. Chapter 3	1 cfu/ plate/ 15 min
		Yeast and Mold (Settle Plate Technique)	SOP no. TTI/053(Issue date:22.06.2015 & No:01) based on APHA Comp. 5 <sup>th</sup> Edn. Chapter 3	1 cfu/ plate/ 15 min



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#### CHEMICAL TESTING

I.	FOOD & AGRICULTURAL PRODUCTS			
A.	Milk & Milk Products			
1.	Milk, Cheese, Paneer, Mawa & Mawa products, Butter, Curd, Pedha, Burfi, Shrikhand, Ice cream, Condensed Milk, Part ly Skimmed and Skimmed Milk, Flavoured Milk)	Moisture	FSSAI Manual -Milk & Milk Products(3.2,5.2,6.2,10.2,11.2,12.2,13.2,16.2,17.2) IS 16072	10% to 90%
		Milk Protein	IS 7219 AOAC 20 <sup>th</sup> Ed. 991.20	0.5% to 50%
		Milk Fat	FSSAI Manual-Milk & Milk Products(1.3.4,2.2,3.3,4.2,5.3,6.3,7.4,9.3,10.3,11.3,12.3,14.3,15.3,16.3,17.3) IS 1479 (Part-2) IS 11721	0.1% to 85%
		Total Ash	FSSAI Manual -Milk & Milk Products (10.7,14.6,16.5,17.7)	0.1% to 20%
		Titrateable Acidity as Lactic Acid	FSSAI Manual-Milk & Milk Products (9.5,10.4,15.5) IS 11766	0.1% to 10%
		Total Milk Solids	FSSAI Manual-Milk & Milk Products (1.3.3,3.2,4.4,7.2,14.2) IS 1166	1.0% to 99%
		Sucrose	IS 4079, IS 1166	1% to 80%
		Milk Solids Not Fat (SNF)	AOAC 20 <sup>th</sup> Ed. 990.21	5% to 90%
		pH (in 10.0% aqueous solution)	AOAC 20 <sup>th</sup> Ed. 981.12 IS 1479 (Part-2)	2 to 14
		Phosphorous as P	AOAC 20 <sup>th</sup> Ed. 991.25	1 mg/kg to 10000 mg/kg

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		Total Solids	FSSAI Manual -Milk & Milk Products	10% to 90%
2.	Milk Powder, Dairy Whitener, Whey Powder, Milk Cereal Based Weaning Food, Infant Milk Substitute, Skimmed Milk Powder, Partly Skimmed Milk Powder	Moisture	AOAC 20 <sup>th</sup> Ed. 927.05 IS 16072	0.1% to 20%
		Total Solids	AOAC 20 <sup>th</sup> Ed.925.23 IS 16072	50% to 99%
		Milk Fat	IS 11721 AOAC 20 <sup>th</sup> Ed. 989.04	0.2% to 30%
		Protein	IS 7219	1% to 40%
		Total Ash	IS 14433 Annex B IS 1165 Annex A	0.1% to 10%
		Titrateable Acidity as Lactic Acid	IS 11766 IS 1165 Annex B IS 1166	0.1% to 10%
		Milk Solids Not Fat(SNF)	IS 11766	60% to 98%
		Acid Insoluble Ash	IS 14433	0.01% to 2%
3.	Liquid Milk	Milk Protein	IS 1479 (Part-2) AOAC 20 <sup>th</sup> Ed. 991.20	0.5% to 20%
		Total Solids	IS 1479 (Part-2)	5% to 20%
		Milk Solids Not Fat (SNF)	IS 1479 (Part-1) AOAC 20 <sup>th</sup> Ed. 990.21	5% to 15%
		Preservatives in Milk (Formalin in milk, hydrogen peroxide, Boric acid & Borates, Salicylic acid)	FSSAI Manual -Milk & Milk Products (1.2.16,1.2.17,1.2.18,1.2.19,1.2.20) IS 1479 (Part-1)	Qualitative (Present/Absent)
		Neutralizers in Milk [Rosalic Acid, Alkanity of Ash]	FSSAI Manual -Milk & Milk Products (1.2.11) IS 1479 (Part-1)	Qualitative (Present/Absent)
4.	Adulteration in Milk & Milk Products	Added Starch	IS 1479 (Part-1) FSSAI Manual -Milk & Milk Products (1.2.2.0)	Qualitative (Present/Absent)
		Total added Sugar	FSSAI Manual -Milk & Milk Products (1.2.1)	Qualitative (Present/Absent)

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		Alkyl Benzene Sulphonic acid	FSSAI Manual -Milk & Milk Products (1.2.14)	Qualitative (Present/Absent)
		Sodium Chloride	FSSAI Manual -Milk & Milk Products (1.2.8) IS 15642(Part-2)	Qualitative (Present/Absent)
		Ammonium Sulphate	FSSAI Manual -Milk & Milk Products (1.2.13)	Qualitative (Present/Absent)
		Detection of Urea	FSSAI Manual-Milk & Milk Products (1.2.4)	Qualitative (Present/Absent)
5.	Ice Cream	Weight per unit volume	IS 2802	200 g/l to 800 g/l
6.	Cheese, Cheese Powder, Butter	Salt as NaCl	AOAC 20 <sup>th</sup> Ed. 960.29	0.5% to 10%
7.	Ghee, Butter Oil	Refractive Index	IS 3508	1.300 to 1.700
		Moisture	FSSAI Manual -Milk & Milk Products IS 3508	0.1% to 5%
		Milk fat	FSSAI Manual-Milk & Milk Products	95% to 100%
		Peroxide Value	FSSAI Manual-Milk & Milk Products	0.1 to 10 mEq of Oxygen/kg
		Reichert-Meissl value	IS 3508	15 to 40
		Baudouin test	IS 3508	Qualitative (Present/Absent)
		Free Fatty Acid as Oleic Acid	IS 3508	0.1% to 30%
B.	Salt			
1.	Salt, Iron Fortified Iodized Salt (Double Fortified Salt)	Moisture	IS 7224 Annex A	0.1% to 10%
		Water Insoluble Matter	IS 7224 Annex C	0.5% to 5%
		Chloride content(as NaCl)	IS 7224 Annex D	55% to 100%
		Water Soluble Matter other than NaCl	IS 7224 Annex E	0.5% to 5%
		Calcium (as Ca)	IS 7224 Annex F	0.05% to 1%
		Magnesium( as Mg)	IS 7224 Annex F	0.05% to 1%

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		Sulphate (as SO <sub>4</sub> )	IS 7224 Annex G	0.1% to 5%
		Iodine Content	IS 7224 Annex H	10 mg/kg to 100 mg/kg
2.	Iron Fortified Iodized Salt (Double Fortified Salt)	Matter insoluble in dilute HCl, percent by mass on dry basis	IS 16232	0.01% to 1.0%
		Iron content (as Fe)	IS 16232	50 mg/kg to 1000 mg/kg
		pH	IS 16232	2 to 14
		Phosphorous ( as P <sub>2</sub> O <sub>5</sub> )	IS 16232	1200mg/kg to 3100mg/kg
		Sodium Hexa Meta Phosphate percent by mass on dry basis	IS 16232	0 to 1%
C.	<b>Bakery Products</b>			
1.	Bread, Cakes, Cookies, Nankatai, Bread Sticks, Toast	Protein	IS 7219	1% to 50%
		Moisture	IS 12711	0.1% to 50%
		Fat	IS 12711	0.5% to 50%
		Ash	IS 12711	0.1% to 15%
		Alcoholic acidity as H <sub>2</sub> SO <sub>4</sub>	IS 12711	0.05% to 5%
		Acidity of extracted fat oleic acid	IS 12711	0.1% to 10%
		Acid Insoluble Ash	IS 12711	0.01% to 1%
2.	Biscuit	Moisture	IS 1011	0.5% to 10%
		Acidity of extracted fat	IS 1011	0.1% to 5%
D.	<b>Spices &amp; Condiments</b>			
1.	Whole/ Powder- Caraway, Cardamom, Chilies, Cinnamon, Cassia, Cloves, Coriander, Cumin, Kalonji, Fennel [Saunf], Fenugreek, Dry	Refractions & Extraneous Matter	IS 1797 FSSAI Manual -Spices & Condiments	0.01% to 40%
		Detection of Mineral Oil (Black Pepper)	FSSAI Manual -Spices & Condiments	Qualitative (Present/Absent)
		Added Colour	FSSAI Manual-Food additives	Qualitative (Present/Absent)
		Rancidity	TTI-A/76 (Issue Date: 10/01/2013 & Issue no. 03)	Qualitative (Present/Absent)
		Moisture	IS 1797	0.1% to 20%

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	ginger, Mace, Mustard, Nutmeg, Black & White Pepper, Saffron, Turmeric, Dehydrated Onion, Asafoetida, Whole-Poppy Seeds, Garlic Celery, Ajwain, Star Anise		FSSAI Manual -Spices & Condiments (3.0)	
		Total Ash	IS 1797 FSSAI Manual -Spices & Condiments (4.0)	1% to 15%
		Acid Insoluble Ash	IS 1797 FSSAI Manual-Spices & Condiments (5.0)	0.01% to 5%
		Water Insoluble Ash	IS 1797	0.1% to 5%
		Water Soluble Ash	IS 1797	0.5% to 5%
		Non Volatile Ether Extract	IS 1797 FSSAI Manual -Spices & Condiments	5% to 50%
		Alcohol Soluble Extract	IS 1797	1% to 20%
		Light and Heavy Filth in Spices and Condiments	AOAC 20 <sup>th</sup> Ed. 975.48	Qualitative (Present/Absent)
		Bulk Density (Black Pepper)	FSSAI Manual -Spices & Condiments (14.1)	50 g/l to 800 g/l
		Cold Water Soluble Extract	IS1797	1% to 30%
		Volatile Oil	IS 1797 FSSAI Manual -Spices & Condiments	0.1% to 20%
2.	Dried Mango Powder (Amchur)	Acidity as anhydrous tartaric acid	FSSAI Manual -Fruits & Vegetable Products	1% to 20%
3.	Turmeric	Starch	IS 4706 (Part-2) IS 3576	40% to 60%
		Curcumine Content	IS 10925	1% to 10%
		Chromate test	IS 3576	Qualitative (Present/Absent)
		Defective Rhizomes	FSSAI Manual -Spices & Condiments	0.01% to 5%
4.	Black Pepper	Mineral Oil in Black Pepper	FSSAI Manual -Spices & Condiments (20.0)	Qualitative (Present/Absent)

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		Papaya Seeds in Black Pepper	FSSAI Manual -Spices & Condiments (21.0)	0.1% to 10%
		Light Berries	FSSAI Manual -Spices & Condiments	0.1% to 10%
		Pinheads or Broken Berries	FSSAI Manual-Spices & Condiments	0.1% to 10%
5.	Powdered-Curry, Masala Mix, Gravy mix, Pickle mix, Sambar Masala, Pav Bhaji Masala, Chat Masala, Chole Masala, Garam Masala, Biryani Masala)	Salt (as NaCl )	IS 1797	0.05% to 20%
E.	Cereals, Pulses & Cereal products			
1.	Wheat, Rice, Chana, Moong, Rajma, Barley, Oats, Watana-Black, Green& White, Masoor, Corn Flakes, Ready to Eat Cereal Based Products, Rawa, Lapshi [Daliya], Urad Dal , Tur Dal, Masoor Dal	Refraction (Ergot, Shriveled/ Shrunk, Broken, Insect / Weevilled Damaged, Damaged & Discolored, Foreign Matter / Admixture, Other Food / Edible Grains, Rodent Hair and Excreta, other than Foreign Matter	IS 4333:1996 (Part-1) FSSAI Manual-Cereal & Cereal Products	0.1% to 10%
	FLOURS: wheat flour, Maida, Besan, Barley Flour, Corn	Granularity [pass through sieve]	IS 1155 IS 1010 IS 1009	0.1% to 100%
		Moisture	FSSAI Manual -Cereal & Cereal Products (2.0) IS 1155, IS 1009	1% to 25%

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		Total Ash	FSSAI Manual-Cereal & Cereal Products (8.2) GAFTA 12:0 IS 1155, IS 1009	0.1% to 10%
		Total Insoluble Ash in Dilute HCl	FSSAI Manual -Cereal & Cereal Products (8.3) GAFTA 13:0, IS 1155	0.01% to 5%
		Alcoholic Acidity (with 90% Alcohol) expressed as H <sub>2</sub> SO <sub>4</sub>	FSSAI Manual -Cereal & Cereal Products (8.5), IS 1155, IS 1009	0.05% to 1%
		Protein	FSSAI Manual -Cereal & Cereal Products, AOAC 20 <sup>th</sup> Ed. 920.87, IS 7219	0.1% to 50%
		Crude Fiber	FSSAI Manual -Cereal & Cereal Products, GAFTA 12:0	1% to 25%
		Uric Acid	IS 4333 (Part-5) FSSAI Manual -Cereal & Cereal Products (3.0)	1 mg/kg to 200 mg/kg
		Total Fat	AOAC 20 <sup>th</sup> Ed. 922.06	0.1% to 10%
		Calcium	FSSAI Manual -Cereal & Cereal Products	0.01 mg/kg to 100 mg/kg
2.	Wheat Maida Rawa	Gluten Content	FSSAI Manual-Cereal & Cereal Products IS 1155 IS 1009	5% to 20%
3.	Corn Flakes, Custard powder, Macaroni Product	Total Ash excluding Salt	FSSAI Manual -Cereal & Cereal Products	0.01% to 5%
4.	Macaroni Product	Nitrogen	FSSAI Manual -Cereal & Cereal Products	1% to 3%

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<b>F.</b>	<b>Fresh &amp; Processed Fruit &amp; Vegetable Products</b>			
<b>1.</b>	<b>Fresh &amp; Processed Fruit &amp; Vegetable Products</b>	Extraneous Matter	IS 4333(Part-1)	Qualitative (Present/Absent)
		Brix	IS 13815	1 to 80 °Brix
	<b>[Concentrate &amp; Ready to serve], Fruit pulp, Puree, Vegetables, Dehydrated Instant Drink Powder, Thermally Processed Fruits &amp; Vegetables, Squashes, Crushes, Sherbet, Syrups, Marmalades, Synthetic Syrup &amp; Sherbet</b>	Total Solids	AOAC 20 <sup>th</sup> Ed 920.151, FSSAI Manual -Fruits & Vegetable Products (2.1)	1% to 80%
		Total Soluble Solids	FSSAI Manual-Fruits & Vegetable Products (1.6) IS 13815	1% to 80%
		Acidity expressed as Citric Acid / Total Acidity	FSSAI Manual-Fruits & Vegetable Products (2.4) IS 2860	0.01% to 5%
		Acidity expressed as Acetic Acid	FSSAI Manual -Fruits & Vegetable Products (2.4), IS 2860	0.1% to 5%
		Added sugar as sucrose	AOAC 20 <sup>th</sup> Ed. 925.52 IS 1479 (Part-2) FSSAI Manual-Fruits & Vegetable Products	0.5% to 80%
		Reducing sugar		0.5% to 80%
		Added starch	AOAC 20 <sup>th</sup> Ed. 925.38	Qualitative (Present/Absent)
		Specific gravity at 25 <sup>o</sup> C	IS 2860	0.8 to 1.5
		pH at 25 <sup>o</sup> C	FSSAI Manual -Fruits & Vegetable Products (2.3) IS 2860	2 to 10
<b>2.</b>	<b>Thermally Processed Food</b>	Container filled Volume	FSSAI Manual-Fruits & Vegetable Products (1.3)	60% to 99%
		Drained Weight	FSSAI Manual -Fruits & Vegetable Products (1.4, 1.7) IS 2860	50% to 100%



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3.	Dehydrated Fruits & Vegetables	Sodium Chloride as NaCl	AOAC 20 <sup>th</sup> Ed. 950:52	0.1% to 10%
		Peroxidase	FSSAI Manual -Fruits & Vegetable Products (17.5)	Qualitative (Present/Absent)
G.	<b>Nut &amp; Nut Products</b>			
1.	Nut & Nut Products	Refraction / Extraneous Matter (Damaged Kernel, Damaged Raisins, Sugared Raisins)	IS 4333 (Part-1) , FSSAI Manual -Cereal & Cereal Products	0.01% to 20%
		Ash Insoluble in dilute HCl	FSSAI Manual -Cereal & Cereal Products	0.01% to 1%
		Crude fiber	IS 10226 (Part-1)	1% to 20%
		Salt	AOAC 20 <sup>th</sup> Ed. 950.52	0.1% to 10%
		Acidity expressed as Oleic Acid	AOAC 20 <sup>th</sup> Ed. 939.05	0.1% to 5%
2.	Peanut Butter	Moisture	AOAC 20 <sup>th</sup> Ed. 925.40 IS 9037	0.1% to 15%
		Fat	AOAC 20 <sup>th</sup> Ed. 948.22 IS 9037	20% to 60%
		Protein	IS 7219 IS 9037	10% to 40%
		Total Ash	AOAC 20 <sup>th</sup> Ed. 950.49, IS 9037	0.1% to 5%
		Acid value of extracted Fat	IS 9037	0.1% to 4%
H.	<b>Sugar Confectionary Products</b>			
1.	Sugar Confectionary Products	Sulphated Ash	IS 6287	0.01% to 5%
		Total Ash	IS 12711 DGHS Manual 4:Clause 1.3	0. 1% to 5%
		Ash insoluble in dil HCl	IS 6287	0.01% to 5%
		Sucrose Content	IS 6287 DGHS Manual 4:Clause 14.6	30% to 90%
		Moisture	IS 6287	0.1% to 5%

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2.	Plantation White Sugar, Refined Sugar, Khandsari Sugar, Cube Sugar, Icing Sugar, Misri	Moisture	IS 498	0.01% to 2%
		Sucrose	IS 1151	80% to 100%
		Extraneous Matter	IS 1168	0.01% to 10%
		Added coloring matter	IS 15279	Qualitative (Present/Absent)
		Reducing sugar	IS 1607	0.01% to 1%
		Sieves Test/Granularity		0.01% to 100%
		Polarization	IS 498	30 to 34.6° (85 to 100°Z)
		Ash insoluble in dilute HCL	IS 1151	0.01% to 1%
		Color in ICUMSA units	IS 1168	10 to 500
		Sulphur Dioxide	IS 15279	1 mg/kg to 200 mg/kg
		Total Ash	IS 1607	0.01% to 1%
		Sulphated Ash		0.01% to 1%
		Total Sugars	IS 12923	80% to 99%
		Sucrose	DGHS Manual 4	55% to 99%
3.	Jaggery	Extraneous Matter Insoluble in Water		0.01% to 5%
		Total ash		0.1% to 10%
		Ash Insoluble in HCl		0.01% to 1%
		Moisture		1% to 15%
I.	Edible oils & fats			
1.	Coconut Oil, Sesame Seed Oil, Olive Oil, Palm Oil, Cotton Seed, Maize Oil, Almond Oil, Palm Kernel Oil, Safflower Oil, Rice Bran Oil, Ground Nut Oil, Sunflower Oil, Mustard Soyabean Oil, Palmolein Oil	Test of rancidity	FSSAI Manual-Oils & Fats (37.0)	Qualitative (Present/Absent)
		Test for adulterant		
		Presence of Karanja oil	IS 548 (Part-2) FSSAI Manual-Oils & Fats (31.0)	Qualitative (Present/Absent)
		Presence of Argemone	IS 548 (Part-2) FSSAI Manual-Oils & Fats (30.0)	Qualitative (Present/Absent)
		Presence of Hydrocyanic acid	IS 548 (Part-2) FSSAI Manual-Oils & Fats (32.0)	Qualitative (Present/Absent)

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		Presence of Mineral oil	IS 548 (Part-2): FSSAI Manual-Oils & Fats (28.0)	Qualitative (Present/Absent)
		Presence of Ground nut oil	IS 548 (Part-2)	Qualitative (Present/Absent)
		Presence of Kusum Oil	IS 548 (Part-2)	Qualitative (Present/Absent)
		Presence of Castor oil	IS 548 (Part-2) FSSAI Manual-Oils & Fats (29.0)	Qualitative (Present/Absent)
		Presence of Neem oil	IS 548 (Part-2) FSSAI Manual-Oils & Fats (21.0)	Qualitative (Present/Absent)
		Presence of Animal fat in vegetable	IS 548 (Part-2) FSSAI Manual-Oils & Fats (21.0)	Qualitative (Present/Absent)
		Moisture & Volatile Matter	IS 548 (Part-1)	0.01% to 2%
		Refractive Index	IS 548 (Part-1)	1.4000 to 1.6000
		Free Fatty Acids	IS 548 (Part-1)	0.01 to 5
		Acid Value	IS 548 (Part-1)	0.01 to 10
		Iodine Value	IS 548 (Part-1)	2 to 250
		Peroxide Value	IS 548 (Part-1)	0.2 to 20 meq of Oxygen /kg
		Saponification Value	IS 548 (Part-1)	50 to 300
		Unsaponifiable Matter	IS 548 (Part-1)	0.1% to 10%
		Specific Gravity	IS 548 (Part-1)	0.8 to 1.5
		B.R Reading	IS 548 (Part-1)	30 to 70
		Bellier Test Turbidity Temperature (Acetic Acid Method)	IS 548 (Part-2)	10 to 50 °C
		Phosphorus as P	FSSAI Manual-Oils & Fats (34.0) IS 4276	10 mg/kg to 400 mg/kg

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		Flash Point	FSSAI Manual-Oils & Fats IS 1448 (Part-21)	150 °C to 400 °C
2.	Olive oil	Suspended or Foreign Matter	IS 548 (Part-1)	Qualitative (Present/Absent)
		Added Colour	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
		Test for Tea seed Oil in olive oil	FSSAI Manual-Oils & Fats (24.0)	Qualitative (Present/Absent)
		Presence of Olive Pomace Oil in Olive Oil	FSSAI Manual-Oils & Fats (25.0)	Qualitative (Present/Absent)
		Presence of Semisiccative Oil in Olive Oil	FSSAI Manual-Oils & Fats 5 (26.0)	Qualitative (Present/Absent)
3.	Soyabean Oil	Insoluble Bromide Test	IS 4276 Annex-D	Qualitative (Present/Absent)
J.	Oil seeds & by-products			
1.	Groundnut, Sesame Seeds, Sunflower, Soyabean Oil, Mustard Oil, Cotton Seed Oil	Damaged & Weevilled seeds / Kernels	IS 3579	0.01% to 20%
		Slightly Damaged Seeds / Kernels		0.01% to 20%
		Shriveled & Immature and Dark Seeds / Kernels		0.01% to 20%
		Split or Cracked Seeds / Split & Broken Kernels		0.01% to 20%
		Impurities		0.01% to 20%
		Moisture	IS 3579	2% to 15%
		Oil Content		10% to 65%
		Acidity of Extracted Fat		0.01% to 10%
		Ash	GAFTA 12:0	1% to 10%
		Acid Insoluble Ash	GAFTA 13:0	0.01% to 2%

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K.	Snacks/ savouries, namkeens, Chips, Snack pellets	Moisture	IS 15271	1% to 10%
		Ash	IS 15271	1% to 10%
		Acid Insoluble Ash	IS 15271	0.01% to 2%
		Fat		10% to 50%
		Peroxide Value meq oxygen / kg fat		0.1 to 50 meq Oxygen / kg fat
		Acidity of Extracted Fat		0.1% to 10%
L.	Tea & Tea Products & Coffee, Chicory, Cocoa & Its Product	Salt	IS 15271	1% to 10%
		Moisture	IS 13853 IS 2791 IS 1164	1% to 10%
		Total Ash	IS 13855, IS 1164, IS 2791	1% to 10%
		Crude Fiber	IS 10226 (Part-1) DGHS Manual 4-(5.8)	5% to 20%
		Acid Insoluble Ash	IS 13857 IS 1164	0.01% to 5%
		Water Soluble Ash	IS 13855	30% to 80%
		Alkalinity of Water Soluble Ash (as K <sub>2</sub> O <sub>2</sub> )	IS 13856	1% to 10%
		Water Extract	IS 13862	20% to 80%
		Iron Particles	IS 3633	Qualitative (Present/Absent)
		Caffeine	DGHS Manual 4 (1.8,2.7,3.3) IS 2791	1% to 5%
		Solubility in cold water	IS 2791	Descriptive
		Solubility in boiling water	IS 2791	Descriptive
		Extraneous matter & Foreign matter impurities	IS 3077	Qualitative (Present/Absent)
		Water Soluble matter	IS 3077 Annex K	30% to 50%
		Petroleum Ether Extract	IS 3077	2% to 10%
		Solubility in cold water	IS 2791	Qualitative (Present/Absent)

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<b>M.</b>	<b>Fish &amp; Fishery Products</b>	Moisture	FSSAI Manual-Meat & Meat product and Fish & Fish product (2.2)	10% to 90%
		Sodium Chloride	FSSAI Manual-Meat & Meat product and Fish & Fish product (2.3)	0.1% to 20%
		Ash Insoluble in HCl	FSSAI Manual-Meat & Meat product and Fish & Fish product (2.4)	0.01% to 5%
		Histamine	FSSAI Manual-Meat & Meat product and Fish & Fish product (1.3)	10 mg/kg to 1000 mg/kg
		Total Volatile Base Nitrogen	FSSAI Manual-Meat & Meat product and Fish & Fish product	1 to 100 mg/100 g
<b>N.</b>	<b>Nutrition Labeling (Packaged Products)</b>	Moisture	FSSAI Manual-Spices & Condiments FSSAI Manual -Fruits & Vegetable Products FSSAI Manual -Cereal & Cereal Products FSSAI Manual -Milk & Milk Products	1% to 95%
		Ash	AOAC 20th Ed. 900.02	0.1% to 10%
		Total Fat	IS 12711, IS 1164, IS 1163 , IS 6287, FSSAI Manual -Spices & Condiments FSSAI Manual -Fruits & Vegetable Products FSSAI Manual-Cereal & Cereal Products FSSAI Manual -Milk & Milk	0.1% to 99%

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			Products GAFTA [3:0] AOAC 20 <sup>th</sup> Ed. 996.01	
		Protein	IS 7219	1.0% to 50%
		Carbohydrate	IS 1656, AOAC 20 <sup>th</sup> Ed. 986.25	1% to 99%
		Energy	FAO Food & Nutrition Paper 77	100 to 900 kcal/100 g
		Salt as NaCl	IS 1797	0.1% to 2%
		Sugar	FSSAI Manual -Milk & Milk Products (3, 5, 4 & 10)	0.1% to 99%
<b>O.</b>	<b>Food additives &amp; preservatives</b>			
<b>1.</b>	<b>FLAVOURS</b>	Benzoic acid	FSSAI Manual-Food additives (2.1& 2.2)	50 mg/kg to 2000 mg/kg
		Sorbic Acid	FSSAI Manual-Food additives (2.2)	50 mg/kg to 2000 mg/kg
		Sulphur dioxide	FSSAI Manual-Food additives (2.5)	10 mg/kg to 1000 mg/kg
		Citric Acid	FSSAI Manual-Fruit & Vegetable Products	0.1% to 5%
		Tartaric Acid	FSSAI Manual-Fruit & Vegetable Products	0.1% to 20%
		Ascorbic acid	AOAC 20 <sup>th</sup> Ed. 985.33, 967.21	0.01% to 1%
		Refractive index	FSSAI Manual-Oils & Fats	1.4200 to 1.5200
		Specific Gravity	FSSAI Manual-Oils & Fats	0.5 to 1.5
<b>2.</b>	<b>Synthetic Food Colours</b>	Carmosine, Ponceau 4R, Erythrosine, Green FCF, Indigo Carmine, Brilliant Blue FCF, Tartrazine, Sunset Yellow FCF	FSSAI Manual-Food Additives (2.5)	5 mg/kg to 250 mg/kg

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3.	Pan Masala	Added coal tar colouring matter	FSSAI Manual-Food additives	Qualitative (Present/Absent)
		Moisture	IS 5643	5% to 30%
		Total ash	IS 5643	2% to 30%
		Ash insoluble in dilute HCl	IS 5643	0.1% to 10%
P.	Adulterants In Food			
1.	Milk	Water	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
		Removal of fat		Qualitative (Present/Absent)
		Glucose		Qualitative (Present/Absent)
		Sodium-bi-carbonate		Qualitative (Present/Absent)
		Vanaspati		Qualitative (Present/Absent)
		Formalin		Qualitative (Present/Absent)
		Detergent		Qualitative (Present/Absent)
2.	Milk Synthetic milk	Synthetic milk	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
		Test for Protein		Qualitative (Present/Absent)
		Sodium Chloride		Qualitative (Present/Absent)
3.	Sweet curd	Vanaspati	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
4.	Rabdi	Blotting paper	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)



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5.	Khoa and its products	Starch	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
6.	Chhana or paneer	Starch	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
7.	Ghee, cottage cheese, condensed milk, khoa, milk powder	Coal tar dyes	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
8.	Ghee	Vanaspathy or margarine	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
		Mashed potatoes, sweet potatoes and other starches		Qualitative (Present/Absent)
9.	Oils and fats	Argemone oil	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
		Mineral oil		Qualitative (Present/Absent)
		Castor oil		Qualitative (Present/Absent)
		TOCO (Tri-ortho-cresyl-phosphate)		Qualitative (Present/Absent)
10.	Mustard Oil	Cotton seed oil	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
11.	Edible Oil	Prohibited color	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
		Rancidity		Qualitative (Present/Absent)
		Karanja Oil (Pungam Oil)		Qualitative (Present/Absent)
12.	Coconut Oil	Any other oil	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Cyanide		Qualitative (Present/Absent)
		Urea		Qualitative (Present/Absent)
13.	Pithi Sugar	Washing soda	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
		Chalk powder		Qualitative (Present/Absent)
14.	Honey	Invert sugar/Jaggery	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
		Sugar solution		Qualitative (Present/Absent)
15.	Bura Sugar	Washing soda	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
16.	Sweetmeats, Ice-Cream And Beverages	Metanil yellow ( a non-permitted coal tar colour)	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
		Saccharin		Qualitative (Present/Absent)
17.	Wheat, Rice, Maize, Jawar, Bajra, Channa, Barley	Dust, pebble, stone, straw, weed seeds, damaged grain, weevilled grain, insects, rodent hair and excreta	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
		Ergot ( a fungus containing poisonous substance)		Qualitative (Present/Absent)
		Dhatura		Qualitative (Present/Absent)
		Karnel bunt		Qualitative (Present/Absent)

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
18.	Sella Rice (Parboiled Rice)	Metanil yellow ( a non-permitted coal tar colour)	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
		Turmeric (colouring for golden appearance)		Qualitative (Present/Absent)
19.	Parched Rice	Urea	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
20.	Maida/Rice	Boric acid	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
21.	Maida	Resultant atta or cheap flour	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
22.	Food Grains	Hidden insect		Qualitative (Present/Absent)
23.	Wheat flour	Chalk powder		Qualitative (Present/Absent)
		Excessive sand and dirt	FSSAI- Quick Test for Some Adulterants In Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
24.	Dal Whole And Split	Khesari dal	FSSAI- Quick Test for Some Adulterants In Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
25.	Besan	Metanil yellow	FSSAI- Quick Test for Some Adulterants In Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
		Khesari flour		Qualitative (Present/Absent)
26.	Pulses	Lead chromate	FSSAI- Quick Test for Some Adulterants In Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
27.	Black Pepper	Light black berries	FSSAI- Quick Test for Some Adulterants In Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
		Papaya Seed		Qualitative (Present/Absent)

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Coated with Mineral oil		Qualitative (Present/Absent)
28.	Cloves	Volatile oil extracted(exhausted cloves)	FSSAI- Quick Test for Some Adulterants In Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
		Coated with Mineral oil		Qualitative (Present/Absent)
29.	Mustard Seed	Argemone Seed	FSSAI- Quick Test for Some Adulterants In Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
30.	Powdered Spices	Added starch	FSSAI- Quick Test For Some Adulterants In Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
		Chalk powder, yellow soap, stone powder		Qualitative (Present/Absent)
31.	Turmeric Powder	Coloured saw dust	FSSAI- Quick Test for Some Adulterants In Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
		Chalk powder or yellow soap stone powder		Qualitative (Present/Absent)
32.	Chilli Powder	Brick powder, salt powder or talc Powder	FSSAI- Quick Test for Some Adulterants In Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
		Oil soluble coal tar colour		Qualitative (Present/Absent)
		SudanIII		Qualitative (Present/Absent)
		Rhodamine B		Qualitative (Present/Absent)
33.	Asafoetida (Hing)	Starch	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
34.	Powdered Food Stuff like Betel nut, Spiced	Sand dirt, earth, gritty matter	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
35.	Iodized Salt	Common salt	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
36.	Coffee Powder	Cereal starch	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
		Tamarind seed /date	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
		Corched persimmon	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
37.	Catachu Powder	Chalk	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
38.	Processed Foods, Sweets & Syrups	Rhoda mine B	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
39.	Lemonade Soda	Mineral acid	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
40.	Silver Leaves	Aluminium leaves	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
41.	Vinegar	Mineral Acid	FSSAI- Quick test for Some Adulterants in Food Instruction Manual (Part-2)	Qualitative (Present/Absent)
II.	RESIDUES IN FOOD PRODUCTS			
A.	Mycotoxins			
1.	Milk & Milk Products Food & Agricultural Products	Aflatoxin M1	AOAC 20th Ed. 2000.08, 980.21 TTI/A-40 (Issue Date: 10/01/2013 & Issue no. 03)	0.05 µg/kg to 100 µg/kg
2.	Oil & Oilseeds, Spices, Nuts, Cereal & Pulses, Groundnut &	Total Aflatoxin Aflatoxin B1 Aflatoxin B2 Aflatoxin G1	AOAC 20th Ed. 999.07, 991.31 & 2005.08	0.2 µg/kg to 1000 µg/kg 0.2 µg/kg to 1000 µg/kg 0.2 µg/kg to 1000 µg/kg 0.2 µg/kg to 1000 µg/kg

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	Groundnut Products	Aflatoxin G2	TTI/A-41 (Issue Date: 10/01/2013 & Issue no. 03)	0.2 µg/kg to 1000 µg/kg
3.	Wheat & Wheat Product, Cereals, Spices, Tea & Coffee	Ochratoxin A	AOAC 20th Ed. 2008.02, 2000.03, 2000.09	0.2 µg/kg to 1000 µg/kg
III.	WATER			
1.	Potable Water & Water for Processed Food Industry	Colour	IS 3025 (Part-4)	1 to 25 Hazen
		Odour	IS 3025 (Part-5)	Qualitative (Agreeable/ Disagreeable)
		Taste	IS 3025 (Part-8)	Qualitative (Agreeable/ Disagreeable)
		Turbidity	IS 3025 (Part-10)	1 NTU to 40 NTU
		Total dissolved solids	IS 3025 (Part-16)	5 mg/l to 2000 mg/l
		pH	IS 3025 (Part-11)	4 to 10
		Chloride	IS 3025 (Part-32)	5 mg/l to 1000 mg/l
		Alkalinity	IS 3025 (Part-23)	5 mg/l to 1000 mg/l
		Calcium	IS-3025 (Part-40)	0.2 mg/l to 1000 mg/l
		Magnesium	IS-3025 (Part-46) APHA 22 <sup>nd</sup> Ed. 3500-Mg B	0.1 mg/l to 500 mg/l
		Total Hardness	IS 3025 (Part-21)	5 mg/l to 2000 mg/l
		Nitrates (as NO <sub>3</sub> )	IS 3025 (Part-34)	0.1 mg/l to 100 mg/l
		Nitrite (as NO <sub>2</sub> )	IS 3025 (Part-34)	0.002 mg/l to 25 mg/l
		Sulphide	IS 3025 (Part-29)	0.02 mg/l to 0.25 mg/l
		Fluoride	IS 3025 (Part-60)	0.1 mg/l to 10 mg/l
		Sulphate	IS 3025 (Part-24)	1 mg/l to 500 mg/l