

Laboratory **Auriga Research Private Limited, Vill-Bagbania, Teh. Nalagarh, Distt. Solan, Himachal Pradesh**

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

Certificate Number **TC-5350**

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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

I.	FOOD & AGRICULTURAL PRODUCTS			
1.	Milk & Dairy Products			
a.	Condensed Milk/ Partly Skimmed/ Skimmed Condensed Milk, Dairy Whitener, Dahi, Cheese, Hard/ Processed, Spread, Ice Cream/ Ice Cream Dry Mix/Ice Cream Frozen Desert/ Ice Candy, Malted Milk Food, Malt Extract, Milk Powder, Partly Skimmed/ Whey Powder, Milk Paneer, Sweetened Condensed Milk UHT, Casein Edible, Milk Sterilized, Whole Milk Powder, Butter Pasteurized, Butter Oil, Infant Foods, Infant Milk, Baby Food, Weaning Food, Milk Based Complementary	Total Plate Count	IS 5402	≥1 cfu/ml ≥10 cfu/g
		Coliform Count	IS 5401 (Part 1)	≥1 cfu/ml ≥10 cfu/g
		Yeast & Mould Count	IS 5403	≥1 cfu/ml ≥10 cfu/g
		Staphylococcus aureus (Coagulase positive)	IS 5887 (Part 2)	Qualitative (Present/Absent/g/ml)
		E. coli	IS 5887 (Part 1)	Qualitative (Present/Absent/g/ml)
		Salmonella	IS 5887 (Part 3)	Qualitative (Present/Absent/25g/25ml)
		Shigella	IS 5887 (Part 7)	Qualitative (Present/Absent/25g/25ml)
		Listeria spp.	IS 14988 (Part 1 & Part 2)	Qualitative (Present/Absent/25g/25ml)

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	Food			
2.	Beverages (Alcoholic / Non-Alcoholic)			
a.	Soft Drinks / Non- Alcoholic Beverages / Alcoholic Beverages / Carbonated Water	Total Plate count	IS 5402	≥1 cfu/ml
		Yeast & Mould Count	IS 5403	≥1 cfu/ml
		Escherichia coli	IS 5887 (Part 1)	Qualitative (Present/absent per ml)
		Coliform	IS 5401 (Part 2)	0.3 to > 110 MPN/ml
		Listeria spp.	IS 14988 (Part 1)	Qualitative (Present/absent per ml)
		Vibrio cholerae & Vibrio parahaemolyticus	IS 5887 (Part 5)	Qualitative (Present/Absent/25 ml)
		Enterobacteriaceae	IS ISO 7402	Qualitative (Present/Absent/ml)
		Staphylococcus aureus	IS 5887 (Part 2)	Qualitative (Present/Absent/ml)
		Salmonella	IS 5887 (Part 3)	Qualitative (Present/Absent/25 ml)
		Shigella	IS 5887 (Part 1)	Qualitative (Present/Absent/25 ml)
3.	Fish and Sea Food Meat and Meat Products	Total Plate Count	IS 5402	≥10 cfu/g
		Yeast and mould	IS 5403	≥10 cfu/g
		Escherichia coli	IS 5887 (Part 1)	Qualitative (Present/Absent per g)
		Coliform	IS 5401 (Part 1)	≥10 cfu/g
		Staphylococcus aureus	IS 5887 (Part 2)	Qualitative (Present/Absent per g)
		Salmonella	IS 5887(Part 3)	Qualitative (Present/Absent per 25 g)
		Shigella	IS 5887 (Part 7)	Qualitative (Present/Absent per 25 g)
		Listeria Spp.	IS 14988 (Part 1)	Qualitative (Present/Absent per 25 g)
		Enterobacteriaceae	IS 7402	Qualitative (Present/Absent per g)

Pankaj Goyal
Convenor

Sunita Rawat
Program Manager

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4.	Herbs, Spices & Condiments	Total Plate Count	IS 5402	≥10 cfu/g
Yeast and mould		IS 5403	≥10 cfu/g	
Escherichia coli		IS 5887 (Part 1)	Qualitative (Present/Absent per g)	
Salmonella		IS 5887(Part 3)	Qualitative (Present/Absent per 25 g)	
5.	Cereals, Pulses & Cereal Products			
a.	Wheat/ Rice/ Pulses	Escherichia coli	IS 5887 (Part 1)	Qualitative (Present/Absent per g)
Salmonella		IS 5887(Part 3)	Qualitative (Present/Absent per 25 g)	
Shigella		IS 5887 (Part 7)	Qualitative (Present/Absent per 25 g)	
Total Plate Count		IS 5402	≥10 cfu/g	
Coliform		IS 5401	≥10 cfu/g	
Yeast and mould		IS 5403	≥10 cfu/g	
S. aureus		IS 5887 (Part 2)	Qualitative (Present/Absent per g)	
b.	Nuts and Nut Products	Escherichia coli	IS 5887 (Part 1)	Qualitative (Present/Absent per g)
Salmonella		IS 5887(Part 3)	Qualitative (Present/Absent per 25 g)	
Shigella		IS 5887 (Part 7)	Qualitative (Present/Absent per 25 g)	
Total Plate Count		IS 5402	≥10 cfu/g	
Coliform		IS 5401 (Part 1)	≥10 cfu/g	
Yeast and mould		IS 5403	≥10 cfu/g	
S.aureus		IS 5887 (Part 2)	Qualitative (Present/Absent per g)	
6.	Tea / Coffee Products	Escherichia coli	IS 5887 (Part 1)	Qualitative (Present/Absent per g)
Salmonella		IS 5887(Part 3)	Qualitative (Present/Absent per 25 g)	

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		Shigella	IS 5887 (Part 7)	Qualitative (Present/Absent per 25 g)
		Total Plate Count	IS 5402	≥10 cfu/g
		Coliform	IS 5401 (Part 1)	≥10 cfu/g
		Yeast and mould	IS 5403:1999	≥10 cfu/g
		S.aureus	IS 5887 (Part 2)	Qualitative (Present/Absent per g)
7.	Oil Seeds & By-Products			
a.	Oil	Escherichia coli	IS 5887 (Part 1)	Qualitative (Present/Absent per ml)
		Salmonella	IS 5887(Part 3)	Qualitative (Absent/Present per 25ml)
		Shigella	IS 5887 (Part 7)	Qualitative (Absent/Present per 25ml)
		Total Plate Count	IS 5402	≥1 cfu/ml ≥10 cfu/ml
		Coliform	IS 5401 (Part 1)	≥1 cfu/ml
		Yeast and mould	IS 5403	≥1 cfu/ml ≥10 cfu/ml
		S. aureus	IS 5887 (Part 7)	Qualitative (Absent/present per ml)
8.	Fruits and Fruits Product			
a.	Jam, Jellies & Juices	Yeast & Mould	AOAC-955.47	≥10 cfu/g
		Staphylococcus aureus	IS 5887(Part 2)	Qualitative (Present/Absent per g)
		Salmonella	IS 5887 (Part 3)	Qualitative (Present/Absent per 25 g)
		Shigella	IS 5887 (Part 7)	Qualitative (Present/Absent per 25 g)
		E.coli	IS 5887 (Part 1)	Qualitative (Present/Absent per g)
		Vibrio cholerae	IS 5887 (Part 5)	Qualitative (Present/Absent per 25 g)

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		Total plate count	IS 5402	≥10 cfu/g
II.	WATER			
1.	Drinking Water	Coliform	IS 1622	< 2 to1600 MPN/100ml
		E.coli	IS 1622	Present/Absent/100 ml
2.	Packaged Drinking Water	Total viable colony count	IS 5402	
		At 37°C for 24 hours		≥1 cfu/ml
		At 22°C for 72 hours		≥1 cfu/ml
		Yeast & Mould	IS 5403	Qualitative (Present/absent per 250ml)
		E.coli	IS 5887	Qualitative (Present/absent per 250ml)
		Coliform	IS 5401 (Part 1)	Qualitative (Present/absent per 250ml)
		Faecal streptococcus	IS 15186	Qualitative (Present/absent per 250ml)
		Staphylococcus aureus	IS 5887 (Part 1)	Qualitative (Present/absent per 250ml)
		Pseudomonas aeruginosa	IS 13428	Qualitative (Present/absent per 250ml)
		Salmonella spp.	IS 15187	Qualitative (Present/absent per 250ml)
		Shigella spp.	IS 5887 (Part 7)	Qualitative (Present/absent per 250ml)
		Vibrio cholera	IS 5887 (Part 5)	Qualitative

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				(Present/absent per 250ml)
		Vibrio parahaemolyticus	IS 5887 (Part 5)	Qualitative (Present/absent per 250ml)
3.	Packaged Natural Mineral Water	E.coli	IS 5887 (Part 1)	Qualitative (Present/absent per 250ml)
		Coliform	IS 5401 (Part 1 & Part 2)	Qualitative (Present/absent per 250ml)
		Faecal streptococci	IS 15186	Qualitative (Present/absent per 250ml)
		Sulphite reducing anaerobes	IS 13428	Qualitative (Present/absent per 50ml)
		Pseudomonas aeruginosa	IS 13428	Qualitative (Present/absent per 250ml)
		Staphylococcus aureus	IS 5887 (Part 7)	Qualitative (Present/absent per 250ml)
		Yeast & mould	IS 5403 1999	Qualitative (Present/absent per 250ml)
		Salmonella spp.	IS 15187	Qualitative (Present/absent per 250ml)
		Shigella spp.	IS 5887 (Part 7)	Qualitative (Present/absent per 250ml)
		Vibrio Cholera	IS 5887 (Part 5)	Qualitative (Present/absent per 250ml)

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		V. parahaemolyticus	IS 5887 (Part 5)	Qualitative (Present/absent per 250ml)
4.	Water for Processed Food Industry	Thermophilic Bacteria Count	IS 4251	≥1 cfu/ml
		Slime Forming Bacteria	IS 1622	Qualitative (Present/Absent)
		E.coli	IS 5887 (Part 1)	Qualitative (Present/Absent per ml)
		Coliform Bacteria	IS 1622	< 2 to 1600 MPN/100ml
		Standard Plate Count	IS 1622	≥1 cfu/ml
		Proteolytic and Lipolytic Organisms	IS 4251	≥1 cfu/ml
III.	ENVIRONMENT AND POLLUTION			
1.	Effluents/ Waste Water	Aerobic Microbial Count/ Standard Plate Count/ Total Plate Count/ Heterotrophic Plate Count	APHA	≥1 cfu/ml
		Coliform/ Total Coliform	APHA	1.8 to 1600 MPN/100 ml multiplied by the dilution factor
		Coliform (MFT)	APHA	1 to 200 cfu/volume filtered
		Faecal Coliform (MFT)	APHA IS 1622	1 to 200 cfu/volume filtered
		E. Coli	APHA	1.8 to 1600 MPN/100 ml multiplied by the dilution factor
		E. Coli (MFT)	APHA IS 15185	1 to 200 cfu/volume filtered
2.	Air / Surface			

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a.	Surface (By swab Method)	Bacterial Count	IS 5402 (ARLB/MC/SOP-050, Issue no. 02 & Issue Date 10-08-2016)	≥1 cfu/25 sqcm/cfu multiplied by the dilution factor/25 sqcm
		Yeast & Mould Count	IS 5403 (ARLB/MC/SOP-050, Issue no. 02 & Issue Date 10-08-2016)	≥1 cfu/25 sqcm/cfu multiplied by the dilution factor/25 sqcm
		Coliform	IS 5401(Part 1) (ARLB/MC/SOP-050, Issue no. 02 & Issue Date 10-08-2016)	≥1 cfu/25 sqcm/cfu multiplied by the dilution factor/25 sqcm
		E. Coli	IS 5887 (Part 1) (ARLB/MC/SOP-050, Issue no. 02 & Issue Date 10-08-2016)	≥1 cfu/25 sqcm/cfu multiplied by the dilution factor/25 sqcm
		S. Aureus	IS 5887 (Part 2) (ARLB/MC/SOP-050, Issue no. 02 & Issue Date 10-08-2016)	≥1 cfu/25 sqcm/cfu multiplied by the dilution factor/25 sqcm
3.	Air (By Settle Plate Method and Air Sampler)	Bacterial Count	IS 5402 (ARLB/MC/SOP-051, Issue no. 02 & Issue Date 10-08-2016)	≥ 1 cfu/plate/duration of exposure
		Yeast & Mould Count	IS 5403 (ARLB/MC/SOP-051, Issue no. 02 & Issue Date 10-08-2016)	≥ 1 cfu/plate/duration of exposure
		Coliform	IS 5401(Part 1) (ARLB/MC/SOP-051, Issue no. 02 & Issue Date 10-08-2016)	≥ 1 cfu/plate/duration of exposure

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		E. Coli	IS 5887 (Part 1) (ARLB/MC/SOP-051 Issue no. 02 & Issue Date 10-08-2016)	≥ 1 cfu/plate/duration of exposure
		S. Aureus	IS 5887 (Part 8) (ARLB/MC/SOP-051 Issue no. 02 & Issue Date 10-08-2016)	≥ 1 cfu/plate/duration of exposure
IV.	DRUGS AND PHARMACEUTICALS			
1.	Surgical Dressing and Medical Accessories			
a.	Medical Devices, Cannula, Catheter, Disposable Syringes, Surgical Gloves	Sterility	United State Pharmacopoeia	Qualitative
2.	Microbial Enumeration Test (Microbial Limit Test)			
a.	Finished Pharmaceutical Preparation, Tablet, Capsule, Dry Syrup, Liquid Syrup, Sachet, Bolus, inhalation preparation, Cream, Ointment, Purified Water	Staphylococcus Aureus	Indian Pharmacopoeia	Qualitative (Present/absent per ml or g)
		E. Coli	Indian Pharmacopoeia	Qualitative (Present/absent per ml or g)
		Pseudomonas Aeruginosa	Indian Pharmacopoeia	Qualitative (Present/absent per ml or g)
		Salmonella	Indian Pharmacopoeia	Qualitative (Present/absent per ml or g)
		Shigella	Indian Pharmacopoeia	Qualitative (Present/absent per ml or g)
		Total Viable Aerobic	Indian Pharmacopoeia	≥1 cfu/ml

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		Count		≥10 cfu/g
		Total Yeast And Mould Count	Indian Pharmacopoeia	≥1 cfu/ml ≥10 cfu/g
3.	Sterility			
a.	Pharmaceutical Sterile Preparation, Liquid Injection, Dry Injection, Ophthalmic Preparations, Raw Material, Water for Injection	Sterility	Indian Pharmacopoeia	Qualitative
4.	Bacterial Endotoxin			
a.	Pharmaceutical Sterile Preparation, Liquid Injection, Dry Injection, Raw Material, Water for Injection	Bacterial Endotoxin	Indian Pharmacopoeia	Qualitative
5.	Antibiotics (Finished Product)			
a.	Gentamycin sulphate Injection IP	Assay	Indian Pharmacopoeia	60% to 150%
V.	AYUSH PRODUCTS			
1.	Ayurvedic Herbal Tablet, Capsule & Syrup	Staphylococcus Aureus	Ayurvedic Pharmacopoeia of India, Vol- II Part-2	Qualitative (Present/absent/g/ml)
		Salmonella sp	Ayurvedic Pharmacopoeia of India, Vol- II Part-2	Qualitative (Present/absent/g/ml)
		Pseudomonas	Ayurvedic Pharmacopoeia of	Qualitative

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		Aeruginosa	India, Vol-II Part-2	(Present/absent/g/ml)
		Escherichia Coli	Ayurvedic Pharmacopoeia of India, Vol- II Part-2	Qualitative (Present/absent/g/ml)
		Total Microbial Plate Count (TPC)	Ayurvedic Pharmacopoeia of India, Vol- II Part-2	≥10 cfu/g/ml
		Total Yeast & Mould Count	Ayurvedic Pharmacopoeia of India, Vol- II Part-2	≥10 cfu/g/ml
VI.	COSMETICS AND ESSENTIAL OILS			
1.	Tooth Paste, Cosmetics (Skin Creams, Lotions, Shaving Creams, Hair Oil, Hair Gel)	Total Microbial Count	IS 14648	≥10 cfu/g/ml
		Total Yeast & Mould Count		≥10 cfu/g/ml
		Escherichia Coli		Qualitative (Present/absent/g/ml)
		Pseudomonas Aeruginosa		Qualitative (Present/absent/g/ml)
		Staphylococcus Aureus		Qualitative (Present/absent/g/ml)
		Candida Albicans		Qualitative (Present/absent/g/ml)

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CHEMICAL TESTING

I.	COSMETIC & ESSENTIAL OIL			
1.	Tooth Paste	Stability	IS 6356	Qualitative
		Fineness	IS 6356	0.5% to 2.0% (75 micron to 150 micron)
		pH of aqueous solution	IS 6356	1 to 13
		Heavy Metals (Lead)	IS 6356	Qualitative (NMT 20 ppm)
		Arsenic	IS 6356	Qualitative (NMT 2 ppm)
		Foaming power	IS 6356	10 ml to 200 ml
		Fluoride	IS 6356	10 ppm to 1000 ppm
2.	Tooth Powder	Fineness	IS 5383	0.5% to 2.0% (75 micron to 150 micron)
		pH of aqueous solution	IS 5383	1 to 13
		Heavy metals (Lead)	IS 5383	Qualitative (NMT 20 ppm)
		Arsenic	IS 5383	Qualitative (NMT 2 ppm)
		Foaming power	IS 5383	10 ml to 200.0 ml
		Moisture & Volatile Matter	IS 5383	1.0% to 50.0%
3.	Skin Powder	Stability	IS 3959	Qualitative
		Fineness	IS 3959	0.5% to 2.0% (75 micron to 150 micron)
		pH of aqueous solution	IS 3959	1 to 13
		Heavy metals (Lead)	IS 3959	Qualitative (NMT 20 ppm)
		Arsenic	IS 3959	Qualitative (NMT 2 ppm)

Pankaj Goyal
Convenor

Sunita Rawat
Program Manager

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		Moisture & Volatile Matter	IS 3959	1.0% to 50.0%
		Matter insoluble in boiling water	IS 3959	1.0% to 100.0%
4.	Shaving Cream	Homogeneity	IS 9740	Qualitative
		Stability	IS 9740	Qualitative
		Total Fatty Matter	IS 9740	1% to 90.0%
		Water Content	IS 9740	10% to 90.0%
		Foaming Power	IS 9740	50 ml to 200 ml
		Free Caustic Alkalinity	IS 9740	Qualitative
5.	Lipstick	Softening Point	IS 9875	25°C to 100°C
		Rancidity (Peroxide Value)	IS 9875	2.0 meq to 20.0 meq
		Heavy Metals (Lead)	IS 9875	Qualitative (NMT 20 ppm)
		Arsenic	IS 9875	Qualitative (NMT 2 ppm)
6.	Hair Dyes-Powder	pH of 5% solution	IS 10350	1.0 to 13
7.	Henna Powder	Sieve analysis	IS 11142	10.0% to 100.0% (75 micron to 150 micron)
		Moisture & Volatile Matter	IS 11142	1% to 25.0%
		Cold water extract	IS 11142	5% to 90.0%
		Crude Fibre	IS 11142	2.0% to 30.0%
		Mineral matter	IS 11142	1.0% to 25.0%
		Acid insoluble ash	IS 11142	1.0% to 20.0%
		Extraneous sand	IS 11142	0.1% to 25.0%
		Extraneous Dyes	IS 11142	Qualitative
		Lawson Content	IS 11142	0.1% to 5.0%
8.	Skin Cream	Thermal Stability	IS 6608	Qualitative
		pH	IS 6608	1.0 to 13
		Total fatty Substances	IS 6608	1.0% to 50.0%
		Total Residue	IS 6608	0.1% to 90.0%

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		Heavy Metals (Lead)	IS 6608	Qualitative (NMT 20 ppm)
		Arsenic	IS 6608	Qualitative (NMT 2 ppm)
9.	Shampoo	Physical Characteristics	IS 7884	Qualitative
		Non-Volatile Alcohol Soluble Matter	IS 7884	1% to 50%
		Active Detergent	IS 7884	1.0% to 50.0%
		pH	IS 7884	1.0 to 13
		Foam Height	IS 7884	50 mm to 500 mm
10.	Nail Polish	Non-Volatile Matter	IS 9245	1.0% to 70.0%
		Drying Time	IS 9245	0.5 min to 6.0 min
		Adhesion Test	IS 9245	Qualitative
		Blush Test	IS 9245	Qualitative
		Heavy Metals (Lead)	IS 9245	Qualitative (NMT 20 ppm)
		Arsenic	IS 9245	Qualitative (NMT 2 ppm)
11.	Hair oil	Acid Value	IS 7123	1 to 15
		Peroxide Value	IS 7123	1 meq/kg to 10 meq/kg
12.	Soap Detergents and Toiletries			
a.	Shaving Soap	Moistures & Volatiles Matter	IS 5784	1.0% to 50.0%
		Matter Insoluble in Alcohols	IS 5784	0.1% to 50%
		Free Caustic Alkali as (KOH)	IS 5784	0.005% to 5.0%
		Chlorides (as KCL)	IS 5784	0.1% to 5.0%
		Unsaponified fatty matter	IS 5784	0.1% to 10.0%
		Total fatty matter	IS 5784	1% to 90.0%
		Titre of Total fatty acids	IS 5784	40°C to 50°C
		Rosin acids	IS 5784	Qualitative

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				(Present/Absent)
		Free Carbonated alkali	IS 5784	0.002% to 2.0%
		Foaming power	IS 286	10 ml to 500 ml
b.	Antibacterial Toilet Soaps	Free caustic alkali as (Sodium Hydroxide, KOH)	IS 11479	0.005% to 5.0%
		Total fatty matter	IS 11479	1% to 90.0%
		Rosin acids	IS 11479	1% to 3%
		Free Carbonated alkali	IS 11479	0.002% to 2.0%
		Matter insoluble in alcohols	IS 11479	0.1% to 50%
c.	Bathing Bar	Free caustic alkali (as NaOH)	IS 13498	0.005% to 5.0%
		Total fatty matter	IS 13498	1% to 90.0%
		Free Carbonated alkali	IS 13498	0.002% to 2.0%
		Lather	IS 13498	200 ml to 350 ml
		Active ingredient	IS 13498	1% to 40%
d.	Laundry Soap	Total fatty matter	IS 286	1% to 90.0%
		Free caustic alkali as Sodium Hydroxide	IS 286	0.005% to 5.0%
		Chlorides (as NaCl)	IS 286	0.1 to 5.0
		Unsaponified fatty matter	IS 286	0.1 to 10.0
		Rosin acids	IS 286	1% to 15%
		Matter insoluble in alcohols	IS 286	0.1% to 20%
e.	Laundry Detergent Powder	Active ingredient	IS 4955	1% to 40%
		Active alkalinity	IS 4955	10 ml to 30 ml
II.	DRUG AND PHARMACEUTICALS			
1.	Raw Materials Having Identical	Description	Indian Pharmacopoeia	Qualitative
		Solubility	Indian Pharmacopoeia	Qualitative

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	Test	Identification (Chemical, IR & TLC)	Indian Pharmacopoeia	Qualitative
		Clarity and colour of solution	Indian Pharmacopoeia	Qualitative
		Limits of Heavy Metals	Indian Pharmacopoeia	Qualitative
		Specific Optical rotation	Indian Pharmacopoeia	0 to 360°
		Weight /ml	Indian Pharmacopoeia	1 g/ml to 1.7g/ml
		Acid Insoluble Ash	Indian Pharmacopoeia	0.01% to 5%
		Loss on Drying	Indian Pharmacopoeia	1% to 11%
		Water by K.F.	Indian Pharmacopoeia	1% to 20%
		pH	Indian Pharmacopoeia	1 to 13
2.	Finished Product Having Identical Test	Average Weight/ Average Filled Weight	Indian Pharmacopoeia	Qualitative
		Identification (Chemical, IR & TLC)	Indian Pharmacopoeia	NA
		pH	Indian Pharmacopoeia	1 to 13
		Specific optical rotation	Indian Pharmacopoeia	0 to 360°
		Water by K.F.	Indian Pharmacopoeia	1% to 20%
		Alkalinity of solution	Indian Pharmacopoeia	Qualitative
		Weight per ml.	Indian Pharmacopoeia	1 g/ml to 1.7 g/ml
		Uniformity of weight	Indian Pharmacopoeia	2.5% to 10%
3.	Finished Products			
A.	Tablets			
i.	Albendazole	Assay by UV	Indian Pharmacopoeia	80% to 120%
ii.	Paracetamol	Identification by HPLC	Indian Pharmacopoeia	Qualitative
		Dissolution		30% to 150%
		Related Substances		Qualitative
		Assay by UV spectrophotometer		80% to 120%
B.	Capsules			
i.	Amoxicillin Capsules	Assay by HPLC Dissolution by UV	Indian Pharmacopoeia	80% to 120% 30% to 150%
C.	Syrup			
i.	Paracetamol	4-aminophenol (by	Indian Pharmacopoeia	Qualitative

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	Syrup	HPLC) Assay (By HPLC)		80% to 120%
D.	External Preparation			
1.	Povidone-Iodine Solution	Assay (by Titrimetric)	Indian Pharmacopoeia	80% to 120%
III.	AYUSH PRODUCTS			
1.	Ayush (Raw Materials and Finished Products Having Identical Tests)	Water soluble extractives	Ayurvedic Pharmacopoeia of India, (Part 1), Volume-IV, Appendix:2.2.7	1% to 80%
		Arsenic	Ayurvedic Pharmacopoeia of India, (Part 1), Volume-VII, Appendix:3.2.8	Qualitative
		Lead	Ayurvedic Pharmacopoeia of India, (Part 1), Volume-VII, Appendix:3.2.2	0.8mg/kg to 100mg/kg
		Cadmium	Ayurvedic Pharmacopoeia of India, (Part 1), Volume-VII, Appendix:3.2.2	0.1mg/kg to 100mg/kg
		Mercury	Ayurvedic Pharmacopoeia of India, (Part 1), Volume-VII, Appendix:3.2.9	0.2 mg/kg to 100 mg/kg
		Iron	Ayurvedic Pharmacopoeia of India, (Part 1), Volume-VII, Appendix:3.1.4	Qualitative
		Copper	Ayurvedic Pharmacopoeia of India, (Part 1), Volume-VII, Appendix:3.2.2	0.2 mg/kg to 100 mg/kg
		Zinc	Ayurvedic Pharmacopoeia of India, (Part 1), Volume-VII, Appendix:3.2.2	0.2 mg/kg to 100 mg/kg
		Tin	Ayurvedic Pharmacopoeia of India, (Part 1), Volume-VII,	0.2 mg/kg to 100 mg/kg

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			Appendix:3.2.3	
		Cobalt	Ayurvedic Pharmacopoeia of India, (Part 1), Volume-VII, Appendix:3.2.2	0.2 mg/kg to 100 mg/kg
		Loss on drying	Ayurvedic Pharmacopoeia of India, (Part 1), Volume-IV, Appendix:2.2.9	1% to 40%
		Ash	Ayurvedic Pharmacopoeia of India, (Part 1), Volume-IV, Appendix:2.2.3	0.1% to 30%
		Foreign Matter	Ayurvedic Pharmacopoeia of India, (Part 1), Volume-IV, Appendix:2.2.2	0.1% to 10%
		Acid insoluble ash	Ayurvedic Pharmacopoeia of India, (Part 1), Volume-IV-Appendix:2.2.4	0.1% to 20%
		Alcohol soluble extractives	Ayurvedic Pharmacopoeia of India, (Part 1), Volume-IV-Appendix:2.2.6	1% to 85%
		Fixed Oil Content	Ayurvedic Pharmacopoeia of India, (Part 1), Volume-IV, Appendix:2.2.8	0.1% to 20%
		Volatile oil	Ayurvedic Pharmacopoeia of India, (Part 1), Volume-IV, Appendix:2.2.10	0.5% to 20%
		Thin layer Chromatography (TLC)	Ayurvedic Pharmacopoeia of India, (Part 1), Volume-IV, Appendix:2.2.12	Qualitative
		Water Soluble ash	Ayurvedic Pharmacopoeia of India, (Part 1), Volume-IV Appendix:2.2.5	0.002% to 2.5%

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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
IV.	FOODS AND AGRICULTURAL PRODUCTS			
1.	Edible Oils, Fats and Related Products			
a.	Edible Oil and Fats	Melting Point	IS 548 (Part 1)	30°C to 5 0°C
		BR Value	IS 548 (Part 1)	0 to 100
		Acid value	IS 548 (Part 1)	0.2 to 20
		Bellier Test (Turbidity temperature) Acetic acid method	IS 548 (Part 1)	15°C to 42°C
		Richert Missel value	IS 548 (Part 1)	10 to 35
		Polensky value	IS 548 (Part 1)	0.1 to 5.0
		Saponification value	IS 548 (Part 1)	100 to 300
		Unsaponifiable matter	IS 548 (Part 1)	(0.3 to 50) g/100 g
		Specific gravity at 30/30 °C	IS 548 (Part 1)	0.8 to 1.2
		Refractive index	IS 548 (Part 1)	1.4 to 1.50
		Peroxide value	IS 548 (Part 1)	(0.1 to 50.0) meq/kg
		Iodine value	IS 548 (Part 1)	10 to 200
		Saturated fat	AOAC:996.06	(0.10 to 70.0) g/100g
		Monounsaturated fat	AOAC:996.06	(0.1 to 80.0) g/100 g
		Polyunsaturated fat	AOAC:996.06	(0.1 to 30.0) g/100 g
		Omega -3 Fatty Acids (C18:3n3,C20:3n3,C20:5n, C22:6n3)	AOAC:996.06/ 991.39	(0.10 to 30.0) g/100 g
		Vit D	AOAC 981.17, IS 5835	(1 to 200) mcg/100g
		Vit A	AACC-86-06 IS 5886	(1.0 to 1000) mcg/100 g
		Test for Presence of Sesame oil (Baudouin Test)	IS 548 (Part 2)	Qualitative (Present/absent)
		Test for Presence of Cottonseed oil	IS 548 (Part 2)	Qualitative (Present/absent)

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		(Halphen's Test)		
		Determination of cloud point	FSSAI Lab Manual (Oil & Fat-2)	2°C to 52°C
		Test for of Rice-Bran oil	FSSAI Lab Manual (Oil & Fat-2)	Qualitative (Present/absent)
		Test for Presence of Linseed oil (Hexabromide Test)	IS 548	Qualitative (Present/absent)
		Polybromide test for Mustard oil	FSSAI Lab Manual (Oil & Fat-2)	Qualitative (Present/absent)
		Test for Presence of Olive residue oil in Olive oil	FSSAI Lab Manual (Oil & Fat-2)	Qualitative (Present/absent)
		Test for Semi-siccative oil in Olive Oil	FSSAI Lab Manual (Oil & Fat-2)	Qualitative (Present/absent)
		Test for presence of Mineral Oil	IS 548	Qualitative (Present/absent)
		Test for presence of Castor Oil	IS 548	Qualitative (Present/absent)
		Determination of Nickel in vanaspati (by AAS)	FSSAI Lab Manual (Oil & Fat-2)	1 mg/kg to 20mg/kg
		Test for Presence of Rancidity	FSSAI Lab Manual (Oil & Fat-2)	Qualitative
		Determination of Carotenoid content of Raw palm oil	FSSAI Lab Manual (Oil & Fat-2)	Qualitative (Present/absent)
2.	Bakery & Confectionary Product			
a.	Pastry, Cakes, Bread, Sweets, Wafers ,Candies, Rusk, Biscuits Bakery, Baked	Moisture	IS 1011	0.5% to 50%
		Ash content	AOAC:923.03	0.001% to 20%
		Total ash (Excluding NaCl)	FSSAI Lab Manual AOAC (923.03)	0.02% to 20%
		Acid insoluble ash	IS 1011	0.1% to 5%

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	and Proprietary Foods	Acidity of extracted fat	IS 1011 FSSAI Lab Manual	0.1% to 5%
		Alcoholic acidity	FSSAI Lab Manual	0.01% to 5.0%
		Sucrose	IS 1163	1% to 50%
		Milk fat	IS 1163	0.1% to 40.0%
		Milk solid	IS 1163	0.11% to 20%
		Carbohydrate	IS 1656	0.5 g to 90.0 g
		Protein	IS 7219	(1.0 to 70.0) g/100 g
		Fat	IS 4684 IS 12711	(0.1 to 30) g/100 g
		Saturated fat	AOAC:996.06	(0.10 to 70.0) g/100g
		Monounsaturated fat	AOAC:996.06	(0.1 to 80.0) g/100 g
		Polyunsaturated fat	AOAC:996.06	(0.1 to 30.0) g/100 g
		Omega -3 Fatty Acids (C18:3n3,C20:3n3,C20:5n3, C22:6n3)	AOAC:996.06/ 991.39	(0.10 to 30.0) g/100 g
		Crude Fiber	IS 1155	(0.5 to 20.0) g/100 g
		Total Sugars	IS 6287 IS 4079	(0.1 to 70) g/100 g
		Energy	21CFR Part 101 Sub part B	(50 to 900) kcal/100g
		Vit. C (Ascorbic Acid)	IS 5838	(0.5 to 1000) mg/100g
		Thiamine(B1)	IS 5398; AACC 86-90	(0.2 to 1000) mg/100g
		Riboflavin(B2)	IS 5399; AACC 86-90,	(0.5 to 1000) mg/100g
		Vit D	AOAC 981.17, IS 5835	(1 to 200) mcg/100g
		Vit A	AACC-86-06, IS 5886	(1.0 to 1000) mcg/100 g
		Calcium	AOAC:985.35	0.1 mg/kg to 2000 mg/kg
		Phosphorous	AOAC:995.11	0.1 mg/kg to 2000 mg/kg
		Sodium	AOAC:985.35	0.1 mg/kg to 2000mg/kg
		Potassium	AOAC:985.35	0.1 mg/kg to 5000 mg/kg
		Magnesium	AOAC:985.35	0.1 mg/kg to 200 mg/kg
		Manganese	AOAC:985.35	0.1 mg/kg to 200 mg/kg
		Iron	AOAC:985.35	0.1 mg/kg to 200 mg/kg
		Zinc	AOAC:985.35	0.1 mg/kg to 200 mg/kg

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3.	Sugar and Sugar Products			
a.	Sugar and Sugar Products (Invert Syrups, Refined Sugar, Jaggery) Glucose/ Liquid Glucose	Loss on drying / Moisture	IS 15279	0.5% to 50%
		Sulphated Ash	IS 15279	0.02% to 2%
		Reducing Sugar	IS 15279	1% to 15%
		Conductivity ash	IS15279	1.0 to 14.0
		Colour	IS15279	Qualitative
		Polarization	IS15279	40° to 100°
		Invert sugars	IS15279	0.1% to 70.0% w/w
		Determination of Sulphur dioxide	IS15279	1 mg/kg to 800 mg/kg
4.	Milk and Dairy Products			
a.	Curd, Powder, Ice-Cream & Cheese	Moisture	FSSAI Lab Manual Milk & Milk Product-1	0.5% to 50%
		pH	IS 1166, FSSAI Lab Manual Milk & Milk Product-1	1 to 13
		Ash content	IS 14433, FSSAI Lab Manual Milk & Milk Product-1	0.001% to 10%
		Acid insoluble ash	IS 14433 , Anx –B , FSSAI Lab Manual Milk & Milk Product-1	0.1% to 5%
		Acidity	IS 14433 Anx –c FSSAI Lab Manual Milk & Milk Product-1	0.1% to 25%
		Drain Weight	IS 2802	50% to 100% w/w
		Titration acidity as Lactic acid	IS 1165; FSSAI Lab Manual Milk & Milk Product-1	1% to 15%
		Appearance	SOP Nos. ARLB/QC/TPF-301/Issue nos.01 Effective date:- 31-09-2018	Qualitative
		Total Solids (Curd)	FSSAI Lab Manual Milk & Milk Product-1	1% to 30%

Pankaj Goyal
Convenor

Sunita Rawat
Program Manager

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		Milk protein	FSSAI Lab Manual Milk & Milk Product-1	2.1% to 35%
		BR Value	IS 3508	30 to 50
		Baudouin Test	IS 3508	Qualitative
		Chloride	IS 1479	1% to 20%
		Sucrose	IS 2802; IS 13688	upto 20%
		Added Salt	IS 2785	0.1% to 3%
		Total solids	FSSAI Lab Manual Milk & Milk Product-1	0.2% to 30%
		Milk fat	IS 11721; IS 2785 IS 2802; IS 2802	10% to 80%
		Calcium	IS 5949	0.2 mg/kg to 10000mg/kg
		Total added sugar	IS 4079	0.1% to 50%
		Test for presence of Starch	FSSAI Lab Manual Milk & Milk Product-1	Qualitative
		Urea	FSSAI Lab Manual Milk & Milk Product-1	Qualitative (Present/absent)
		Test for Glucose/ invert sugar	FSSAI Lab Manual Milk & Milk Product-1	Qualitative
		Ammonium Sulphate	FSSAI Lab Manual Milk & Milk Product-1	Qualitative (Present/absent)
		Salt (NaCl)	FSSAI Lab Manual Milk & Milk Product-1	Qualitative (Present/absent)
		Hydrogen Peroxide	FSSAI Lab Manual Milk & Milk Product-1	Qualitative (Present/absent)
		Sugar	FSSAI Lab Manual Milk & Milk Product-1 IS 1479 (Part-1); IS 1166	Qualitative
		Boric acid	AOAC Ch 47	Qualitative (Present/absent)
5.	Herbs Spices & Condiments			
a.	Spices & Condiments, Saffron	Moisture	IS 1797	0.5% to 20.0% w/w
		T. Ash content	IS 1797	0.001% to 100% w/w
		Acid insoluble ash	IS 1797	0.1% to 5% w/w

Pankaj Goyal
Convenor

Sunita Rawat
Program Manager

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		Acid insoluble matter	IS 7224	0.001% to 5%
		Matter soluble in water other than sodium chloride	IS 7224	0.001% to 5%
		Common Salt (NaCl)	IS 1797	1% to 100% w/w
		Cold water extract	IS 1797	2.0% to 40%
		Alcohol Soluble extract	IS 1797	(1 to 99) g/100g
		Determination of extraneous matter and other refractions in whole spices	IS 1797	0.5% to 15%
		Volatile Acidity	AOAC Ch 41	0.1% to 24%
		Non-Volatile Ether Extract	IS 1797	0.1% to 50.0%
		Volatile Contents	IS 1797	0.1% to 25%
		Crude fibre	IS 1797	1% to 20%
		Added synthetic food color	FSSAI Lab Manual 8 Food Additives	Qualitative (Present/absent)
		Detection of Papaya seeds in Black pepper	IS 15642	Qualitative (Present/absent)
		Presence of chromates	Annex-A of IS 3576	Qualitative (Present/absent)
		Coloring Strength (Only for Saffron)	IS 5453	0.1 to 195
6.	Honey and Honey Products	Specific Gravity at 27 ^o c	Annex-A of 4941	1 to 2
		Total Reducing sugar	Annex-C of 4941	10% to 90.0% w/w
		Moisture	Annex-B of 4941	12.0% to 40% w/w
		Fructose-glucose ratio	Annex-C of 4941	0.5 to 2
		Acidity (as formic acid)	Annex-E of 4941	0.1% to 2% w/w
		Sucrose	Annex-C of 4941	1.0% to 10% w/w
		Ash	Annex-D of IS 4941	0.1% to 5% w/w
		Fiehe's Test	Annex-F of 4941	Qualitative
		Hydroxy methyl furfural test (HMF)	Annex-F of 4941	10 mg/kg to 100mg/kg

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		Optical Density	Annex-H of IS 4941	0.5 to 3.0
7.	Tea	Ash content	IS 13854; IS1164	0.001% to 120%
		Acid insoluble ash	IS 1164	0.1% to 20%
		Water soluble ash	IS 13855	1.0% to 2.2%
		Moisture	FSSAI Lab Manual -4	4.0% to 30%
		Alkalinity of water soluble ash	IS 13856 IS 1164	25.0% to 70%
		Determination of Water extract	IS 13862	2.0% to 40%
		Caffeine content	IS 2791	0.1% to 10%
		Alkalinity of ash	IS 1164	1.0% to 12%
		Crude fibre	IS 1164	2.0% to 40%
8.	Beverages (Alcoholic / Non Alcoholic)			
a.	Alcoholic Drinks	pH	IS 3865	2 to 12
		Ash content	IS 3752	0.001% to 2%
		Alcohol content	IS 3752	5% to 70% v/v
		Higher Alcohols	IS 3752	(10 to 250) g/100 l of absolute alcohol
		Methanol content	IS 3752	0.5 mg/l to 500 mg/l
		Aldehydes	IS 3752	(10 to 50) g/100 l of absolute alcohol
		Furfural	IS 3752	(10 to 20) g/100 l of absolute alcohol
		Esters	IS 3752	(0.1 to 20) g/100 l of absolute alcohol)
		Ethyl alcohol	IS 3506	1% to 70% v/v
		Volatile Acidity	IS 3752	(0.1 to 24) g/100 l of absolute alcohol
		Residue on evaporation	IS 3752	0.05% to 5.0%
		Total acidity as tartaric	IS 3752	10g/100 l to 1000g/100 l
		Volatile acidity as Acetic Acid	IS 3752	0.1g/100 l to 0.2g/100 l
b.	Non Alcoholic	Volatile acids	FSSAI Manual	1% to 50%

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	Carbonated and Non Carbonated Beverages and Concentrates (Soft Drinks, Fruit Drinks Concentrates)		Fruits & Vegetable Product-5	
		Determination of Fruit Content	FSSAI Manual Fruits & Vegetable Product-5	2.0% to 50%
		Total Soluble Solids	FSSAI Manual Fruits & Vegetable Product-5	0.1% to 90%
9.	Cereals, Pulses and Cereals Products			
a.	Cereals, Pulses and their by Products, Proprietary food & Animal Feed	Moisture	IS 1155	0.5% to 30%
		Ash content	IS 1155	0.001% to 20%
		Acid insoluble ash	IS 1155	0.1% to 5%
		Gluten	IS 1155	0.05% to 20%
		Alcoholic acidity	IS 1155	0.01% to 5.0%
		Foreign Matter (Organic/Inorganic)	IS 4333	0.02% to 20%
		Sieve analysis	IS 1010	0.5% to 5%
		Vit. C (Ascorbic Acid)	IS 5838	(0.5 to 1000) mg/100g
		Thiamine(B1)	IS 5398	(0.2 to 1000) mg/100g
		Riboflavin(B2)	IS 5399	(0.5 to 1000) mg/100g
		Vit D	AOAC 981.17, IS 5835	(1 to 200) mcg/100g
	Vit A	AACC-86-06, IS 5886	(1.0 to 1000) mcg/100 g	
	Folic acid	ARLB/STP/MC-008, Issue no-02, Issue Date 01-08-2016	(1.0 to 1000) mcg/100 g	
10.	Fruits and Fruit Products			
a.	Unprocessed/ Processed/ Frozen/Fresh Fruits & Vegetables & Dehydrated Fruit/ veg. & their Products, Fruit Juices	Moisture	FSSAI Manual Fruits & Vegetable Product-5	0.5% to 50%
		pH	FSSAI Manual Fruits & Vegetable Product-5	2 to 12
		T. Ash content	IS 13846	0.1% to 20%
		Acid insoluble ash	FSSAI Manual	0.1% to 5%

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			Fruits & Vegetable Product-5	
		Total ash Insoluble in dilute HCl	FSSAI Manual Fruits & Vegetable Product-5	1% to 20%
		Acidity	FSSAI Manual Fruits & Vegetable Product-5	0.1% to 25%
		Sodium Chloride (NaCl)	FSSAI Manual Fruits & Vegetable Product-5	1% to 20%
		Drained Weight	FSSAI Manual Fruits & Vegetable Product-5	0.1% to 100%
		Determination of pH of Brine	FSSAI Manual Fruits & Vegetable Product-5	1 to 13
		Determination of Acidity of Brine	FSSAI Manual Fruits & Vegetable Product-5	0% to 10%
		Acidity (as citric acid)	FSSAI Manual Fruits & Vegetable Product-5	0.2% to 8.0%
		Total Soluble Solids	FSSAI Manual Fruits & Vegetable Product-5	0.1% to 90%
		Determination of Sulphur dioxide	FSSAI Manual Fruits & Vegetable Product-5	1 mg/kg to 1000 mg/kg
		Free from stalks, peels, stems and extraneous matter	ARLB/QC/TPF-303 Issue nos.01 Effective date:- 20-06-2018	Qualitative
		Free from any other harmful substances	ARLB/QC/TPF-303 Issue nos.01	Qualitative

Pankaj Goyal
Convenor

Sunita Rawat
Program Manager

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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
			Effective date:- 20-06-2018	
		Colouring matter	FSSAI Manual Fruits & Vegetable Product-5 Colour & Preservatives, AOAC Ch 26, 30, 32	Qualitative
		Tin	AOAC:980.19	20 ppm to 500 ppm
11.	Vegetable and Vegetable Product			
a.	Unprocessed/ processed/ frozen/ fresh fruits & vegetables & dehydrated fruit/ veg. & their Products, Fruit Juices	Moisture	FSSAI Manual Fruits & Vegetable Product-5	0.5% to 50%
		pH	FSSAI Manual Fruits & Vegetable Product-5	2 to 12
		T. Ash content	IS 13846	0.1% to 20%
		Acid insoluble ash	FSSAI Manual Fruits & Vegetable Product-5	0.1% to 5%
		Total ash Insoluble in dilute HCl	FSSAI Manual Fruits & Vegetable Product-5	1% to 20%
		Acidity	FSSAI Manual Fruits & Vegetable Product-5	0.1% to 25%
		Sodium Chloride (NaCl)	FSSAI Manual Fruits & Vegetable Product-5	1% to 20%
		Drained Weight	FSSAI Manual Fruits & Vegetable Product-5	0.1% to 100%
		Determination of pH of Brine	FSSAI Manual Fruits & Vegetable Product-5	1 to 13
		Determination of Acidity	FSSAI Manual	0% to 10%

Pankaj Goyal
Convenor

Sunita Rawat
Program Manager

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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
		of Brine	Fruits & Vegetable Product-5	
		Acidity (as citric acid)	FSSAI Manual Fruits & Vegetable Product-5	0.2% to 8.0%
		Total Soluble Solids	FSSAI Manual Fruits & Vegetable Product-5	0.1% to 90%
		Determination of Sulphur dioxide	FSSAI Manual Fruits & Vegetable Product-5	1 mg/kg to 1000 mg/kg
		Free from stalks, peels, stems and extraneous matter	ARLB/QC/TPF-303 Issue nos.01 Effective date:- 20-06-2018	Qualitative
		Free from any other harmful substances	ARLB/QC/TPF-303 Issue nos.01 Effective date:- 20-06-2018	Qualitative
		Colouring matter	FSSAI Manual Fruits & Vegetable Product-5 Colour & Preservatives, AOAC Ch 26, 30, 32	Qualitative
V.	WATER			
1.	Drinking Water	Color	IS 3025	1 Hazen to 10 Hazen unit
	Packaged Drinking Water, Packaged Water, Packaged Natural Mineral Water	Odour	IS 3025	Qualitative
		Turbidity	IS 3025	1 to 200 NTU
		Total solids	IS 3025	5 mg/l to 1000 mg/l
		pH value	IS 3025	1 to 13
		Total Hardness (as CaCO ₃)	IS 3025	1 mg/l to 2000 mg/l
		Nitrate (as NO ₃)	IS 3025	0.1 mg/l to 50 mg/l
		Nitrite (as NO ₂)	IS 3025	0.01 mg/l to 1.9 mg/l

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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
		Sulfide as H ₂ S	IS 3025	0.02 mg/l to 100 mg/l
		Copper	IS 3025	0.02 mg/l to 50mg/l
		Manganese	IS 3025	0.04 mg/l to 50.0 mg/l
		Zinc	IS 3025	0.1 mg/l to 10.0mg/l
		Fluoride	IS 3025	0.2 mg/l to 50.0 mg/l
		Barium	IS 15302	1 mg/l to 20 mg/l
		Ammonia (Total NH ₃ -N)	IS 3025	0.1 mg/l to 100 mg/l
		Residual Chlorine (as Cl ₂)	IS 3025	0.5 mg/l to 5.0 mg/l
		Silver	IS 13428	0.1 mg/l to 10 mg/l
		Chloride	IS 3025	1 mg/l to 5000mg/l
		Sulfates	IS 3025	1 mg/l to 500 mg/l
		Calcium	IS 3025	1 mg/l to 1500 mg/l
		Magnesium	IS 3025	1 mg/l to 1000 mg/l
		T. Alkalinity(as CaCO ₃)	IS 3025	1 mg/l to 500 mg/l
		Selenium	IS 3025	1 mg/l to 10 mg/l
		Mineral oil	IS 3025	0.1 mg/l to 40 mg/l
		Cadmium	IS 3025	0.05 mg/l to 50.0 mg/l
		Lead	IS 3025	0.05 mg/l to 50 mg/l
		Chromium (Total)	IS 13428	0.02 mg/l to 20 mg/l
		Nickel	IS 3025	0.3 mg/l to 10 mg/l
		Boron	IS 3025	0.02 mg/l to 2.0 mg/l
		Iron	IS 3025	0.01 mg/l to 100 mg/l
2.	Water for Processed Food Industries	Color	IS 3025	1 Hazen to 10 Hazen unit
		Odour	IS 3025	Qualitative
		Turbidity	IS 3025	1 to 200 NTU
		Total solids	IS 3025	5 mg/l to 1000 mg/l
		pH value	IS 3025	1 to 13
		Total Hardness (as CaCO ₃)	IS 3025	1 mg/l to 2000 mg/l
		Nitrate (as NO ₃)	IS 3025	0.1 mg/l to 50 mg/l
		Nitrite (as NO ₂)	IS 3025	0.01 mg/l to 1.9 mg/l
		Sulfide as H ₂ S	IS 3025	0.02 mg/l to 3.0 mg/l

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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
		Copper	IS 3025	0.02 mg/l to 50 mg/l
		Manganese	IS 3025	0.04 mg/l to 50.0 mg/l
		Zinc	IS 3025	0.01 mg/l to 20.0 mg/l
		Fluoride	IS 3025	0.2 mg/l to 50.0 mg/l
		Barium	IS 15302	1 mg/l to 20 mg/l
		Ammonia (Total NH ₃ -N)	IS 3025	0.1 mg/l to 100 mg/l
		Residual Chlorine (as Cl ₂)	IS 3025	0.5 mg/l to 5.0 mg/l
		Silver	IS 13428	0.1 mg/l to 10 mg/l
		Chloride(as Cl)	IS 3025	1 mg/l to 5000 mg/l
		Sulfates	IS 3025	1 mg/l to 500 mg/l
		Calcium	IS 3025	1 mg/l to 1500 mg/l
		Magnesium	IS 3025	1 mg/l to 1000 mg/l
		T.Alkalinity(as CaCO ₃)	IS 3025	1 mg/l to 500 mg/l
		Selenium	IS 3025	1 mg/l to 10 mg/l
		Mineral oil	IS 3025	0.1 mg/l to 40 mg/l
		Cadmium	IS 3025	0.05 mg/l to 50.0 mg/l
		Lead	IS 3025	0.05 mg/l to 50 mg/l
		Chromium (Total)	IS 13428	0.02 mg/l to 20 mg/l
		Nickel	IS 3025	0.3 mg/l to 10 mg/l
		Boron	IS 3025	0.02 mg/l to 100 mg/l
		Iron	IS 3025	0.01 mg/l to 100 mg/l
VI.	POLLUTION AND ENVIRONMENT			
1.	Effluent Water	Suspended solids	IS 3025	5 mg/l to 1000 mg/l
		pH value	IS 3025	1 to 13
		Oil & Grease	IS 3025	0.1 mg/l to 1000 mg/l
		Total residual chlorine	IS 3025	0.5 mg/l to 5.0 mg/l
		Ammonical nitrogen	IS 3025	0.1 mg/l to 1000 mg/l
		Total kjeldhal nitrogen	IS 3025	0.1 mg/l to 1000 mg/l
		Chemical Oxygen Demand (COD)	IS 3025	2 mg/l to 500 mg/l
		Lead	IS 3025	0.05 mg/l to 50 mg/l

Pankaj Goyal
Convenor

Sunita Rawat
Program Manager

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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
		Cadmium	IS 3025	0.05 mg/l to 50.0 mg/l
		Chromium	IS 13428	0.4 mg/l to 20 mg/l
		Copper	IS 3025	0.02 mg/l to 50.0 mg/l
		Selenium	IS 3025	1 mg/l to 10 mg/l
		Nickel	IS 3025	0.3 mg/l to 10 mg/l
		Fluoride	IS 3025	0.1 mg/l to 5.0 mg/l
		Phosphorus	IS 3025	0.2 mg/l to 1000 mg/l
		Sulphide	IS 3025	0.02 mg/l to 1000 mg/l
		Manganese	IS 3025	0.01 mg/l to 50 mg/l
		Iron	IS 3025	0.01 mg/l to 100 mg/l
		Nitrate nitrogen	IS 3025	0.1 mg/l to 1000 mg/l

Pankaj Goyal
Convenor

Sunita Rawat
Program Manager