

Laboratory Vimta Labs Limited, DN-51, 11th Floor, Unit No.1104 & 1105, Merlin Infinite Building, Sector-V, Kolkata, West Bengal
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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
<u>BIOLOGICAL TESTING</u>				
I.	FOOD & AGRICULTURAL PRODUCTS			
1.	Snacks & Instant Mixes(Cooked Food, Canteen food, Pizza, Pasta Noodles & mixes)	Total plates count/Total bacterial count/ Aerobic microbial count	IS 5402	≥10 cfu/g
		Coliform Count	IS 5401 (Part-1)	≥10 cfu/g
		<i>E.coli</i>	IS 5887 (Part-1)	≥10 cfu/g
				Qualitative (Present / Absent/ gm)
		Salmonella	IS 5887 (Part-3)	Qualitative (Present / Absent/ 25 gm)
		Yeast & mould enumeration	IS 5403	≥10 cfu/g
		Shigella	IS 5887 (Part-7)	Qualitative (Present / Absent/ 25 gm)
		Staphylococcus aureus enumeration & detection	IS 5887 (Part-2) / IS 5887 (Part-8 sec- I &II)	≥10 cfu/g Qualitative (Present / Absent/ gm)
		Feacal Streptococci	IS 5887 (Part-2)	Qualitative (Present / Absent/gm)
		Clostridium perfringens enumeration	AOAC 20 th Edn , 976.30	≥10 cfu/g
		Listeria monocytogenes Detection	IS 14988	Qualitative (Present / Absent/ 25 gm)
		Bacillus cereus enumeration	IS 5887 (Part-6)	≥10 cfu/g
		Vibrio paraheamolyticus	IS 5887(Part-5)	Qualitative (Present / Absent/ 25 gm)
		Vibrio cholerae	IS 5887(Part-5)	Qualitative (Present / Absent/ 25 gm)

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2.	Tea	Total plates count/Total bacterial count/ Aerobic microbial count	IS 5402	≥10 cfu/g
		Coliform Count	IS 5401 (Part-1)	≥10 cfu/g
		<i>E.coli</i>	IS 5887 (Part-1)	≥10 cfu/g Qualitative (Present / Absent/ gm)
		Salmonella	IS 5887 (Part-3)	Qualitative (Present / Absent/ 25 gm)
		Yeast & Mould	IS 5403	≥10 cfu/g
3.	Milk & Dairy Products (Curd, Paneer, Cheese, powdered & condensed milk, liquid milk)	Total plates count/Total bacterial count/ Aerobic microbial count	IS 5402	≥10 cfu/g or ml ≥1 cfu/ml
		Coliform Count	IS 5401 (Part-1)	≥10 cfu/g or ml ≥1 cfu/ml
		<i>E.coli</i>	IS 5887 (Part-1)	≥10 cfu/g Qualitative (Present / Absent/ gm)
		Staphylococcus aureus detection/enumeration	IS 5887 (Part-2) / IS 5887 (Part-8 sec- I & II)	≥10 cfu/g or ml ≥1 cfu/ml Qualitative (Present / Absent/ gm or ml)
		Vibrio cholerae	IS 5887 (Part-5)	Qualitative (Present / Absent/ 25 gm or ml)
		Feacal Streptococci detection	IS 5887 (Part-2)	Qualitative (Present / Absent/ gm or ml)
		Salmonella Detection	IS 5887 (Part-3)	Qualitative (Present / Absent/ 25 gm or ml)

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		Shigella Detection	IS 5887 (Part-7)	Qualitative (Present / Absent/ 25 gm or ml)
		Listeria monocytogens Detection	IS 14988	Qualitative (Present / Absent/ 25 gm or ml)
		Bacillus cereus	IS 5887 (Part-6)	≥10 cfu/g or ml
		Yeast & mould	IS 5403	≥10 cfu/g or ml ≥1 cfu/ml
		Clostridium perfringenes	AOAC 20 th Edn, 976.30	≥10 cfu/g or ml ≥1 cfu/ml
4.	Fruits & Fruit products (Raw Fruits, thermally processed Fruit)	Coliform Count	IS 5401 (Part-1)	≥10 cfu/g or ml ≥1 cfu/ml
		E.coli enumeration & detection	IS 5887 (Part-1)	≥10 cfu/g or ml ≥1 cfu/ml Qualitative (Present / Absent/ gm)
		Salmonella	IS 5887 (Part- 3)	Qualitative (Present / Absent/ 25 gm or ml)
		Yeast & mould enumeration	IS 5403	≥10 cfu/g or ml
		Staphylococcus aureus enumeration & detection	IS 5887 (Part-2) / IS 5887 (p-8 sec- I & II)	≥10 cfu/g or ml ≥1 cfu/ml Qualitative (Present / Absent / gm or ml)
		Vibrio paraheamolyticus	IS 5887(Part-5)	Qualitative (Present / Absent/ 25 gm or ml)
		Clostridium perfringenes enumeration	AOAC 20 th Edn, 976.30	≥10 cfu/g or ml ≥1 cfu/ml

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		Vibrio cholerae	IS 5887(Part-5)	Qualitative (Present / Absent/25 gm or ml)
		Total plates count/Total bacterial count/ Aerobic microbial count	IS 5402	≥10 cfu/g or ml ≥1 cfu/ml
		Shigella	IS 5887 (Part-7)	Qualitative (Present / Absent/ 25 gm or ml)
		Flat Sour Organism	APHA Ch- 26 5 th ed	≥10 cfu/g or ml ≥1 cfu/ml
		Incubation Test at 55 degree Celcius & 37 degree celcius	FSSAI lab manual 14	Qualitative
		Bacillus cereus	IS 5887 (Part-6)	≥10 cfu/g or ml
5.	Veg & Vegetable Products (Raw Veg, Pickles, Processed Veg)	Staphylococcus aureus enumeration & detection	IS 5887 (Part-2) / IS 5887(Part 8 sec- I & II)	≥10 cfu/g or ml ≥1 cfu/ml Qualitative (Present / Absent / gm or ml)
		Total plates count/bacterial count/ Aerobic microbial count	IS 5402	≥10 cfu/g or ml ≥1 cfu/ml
		Salmonella	IS 5887 (Part-3)	Qualitative (Present / Absent/ 25 gm or ml)
		<i>E.coli</i>	IS 5887 (Part-1)	≥10 cfu/g or ml ≥1 cfu/ml Qualitative (Present / Absent / gm or ml)
		Flat Sour Organism	APHA Ch- 26 5 th edition	≥10 cfu/g or ml ≥1 cfu/ml

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		Incubation Test at 55 degree celcius & 37 degree celcius	FSSAI Lab manual 14	Qualitative
		Shigella	IS 5887 (Part-7)	Qualitative (Present / Absent/ 25 gm or ml)
		Clostridium perfringenes	AOAC 20 th Edn, 976.30	≥10 cfu/g or ml ≥1 cfu/ml
		Vibrio paraheamolyticus	IS 5887(Part-5)	Qualitative (Present / Absent/ 25 gm or ml)
		Vibrio cholerae	IS 5887(Part-5)	Qualitative (Present / Absent/ 25 gm or ml)
		Coliform Count	IS 5401 (Part-1)	≥10 cfu/g or ml ≥1 cfu/ml
		Yeast & mould	IS 5403	≥10 cfu/g or ml ≥1 cfu/ml
		Bacillus cereus	IS 5887 (Part-6)	≥10 cfu/g
6.	Betel leaves	Salmonella	SOP No: 106/113, Issue No:1, D.O.E, 2017-07-01	Qualitative (Present or Absent)
II.	WATER			
1.	Drinking Water	Total Coliform	IS 1622	2-1600 (MPN) /100 ml & Qualitative (Present or Absent/ 100ml)
		E.coli	IS 1622	Qualitative (Present or Absent/ 100ml)
		Total Bacterial Count/ Standard Plate Count/ Heterotropic Plate Count	IS 1622 / IS 5402	≥1 cfu/ml

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2.	Packaged Drinking Water & packaged natural mineral water	Total Bacterial Count/Aerobic Microbial Count at 22 Degree C/ 72 hrs & 37 Degree C/ 24 hr	IS 5402	≥1 cfu/ml
		Coliform/250 ml	IS 5401 (Part-1) & IS 15185	Qualitative (Present or Absent/ 250 ml)
		E.coli/250 ml	IS 15185	Qualitative (Present or Absent/ 250 ml)
		Feacal Streptococci/250 ml	IS 5887(Part-II) & IS 15186	Qualitative (Present or Absent/ 250 ml)
		S.aureus/250 ml	IS 5887(p-II)	Qualitative (Present or Absent/ 250 ml)
		P.aeruginosa/250 ml	IS 13428 ANNEX-D	Qualitative (Present or Absent/ 250 ml)
		Salmonella/250ml	IS 5887 (Part-3) & IS 15187	Qualitative (Present or Absent/ 250 ml)
		Shigella/250 ml	IS 5887 (Part-7)	Qualitative Present or Absent/ 250 ml
		Sulphite reducing anaerobs (Clostridia)/50ml	IS 13428 ANNEX-C	Qualitative (Present or Absent/50 ml)
		Yeast/250 ml	IS 5403	Qualitative (Present or Absent/ 250 ml)
		Vibrio cholerae/250 ml	IS 5887(Part-5)	Qualitative (Present or Absent/ 250 ml)

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		Vibrio paraheamolyticus/ 250 ml	IS 5887(Part-5)	Qualitative (Present or Absent/ 250 ml)
		Mould/ 250ml	IS 5403	Qualitative (Present or Absent/ 250 ml)

Ashok Kumar
Convenor

N. Venkateswaran
Program Director

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<u>CHEMICAL TESTING</u>				
I.	FOOD AND AGRICULTURAL PRODUCTS			
1.	Cereals, Pulses & Cereal Products	Physical examination for	Section 1.2 of FSSAI Manual of Methods of Analysis of Cereal and Cereal Products, 2016.	
		Moulds		Qualitative
		Living and dead insect fragments		Qualitative
		Rodent contamination (Hair & Excreta)	IS 4333(part-1)	Qualitative
		Khesari Dal		1% to 10 %
		Foreign Matter		1% to 10 %
		Mineral matter		1% to 10 %
		Organic matter		1% to 10%
		Damaged Grains		0.1% to 10 %
		Insect Damaged grains/beans		0.1% to 10 %
		Wevilled grains		0.1% to 10 %
		Other edible grains		0.1% to 10 %
		Argemone seeds		0.1% to 10 %
		Presence of mould		Qualitative
		Test for mineral oil		Qualitative
		Fragments		0.1% to 10 %
		Kernels with husk.		0.1% to 10 %
		Red Grains (Rice)		1% to 10 %
		Chalky Grains (Rice)		0.1% to 10 %
		Proximate Analysis		
		Moisture	Section 8.1 of FSSAI Manual of Methods of Analysis of Cereal and Cereal Products	1.0% to 40.0 %

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		Total Ash (on Dry Basis)	Section 8.2 of FSSAI Manual of Methods of Analysis of Cereal and Cereal Products	0.05% to 15%
		Acid Insoluble Ash in dilute HCl (on Dry Basis)	Section 8.3 of FSSAI Manual of Methods of Analysis of Cereal and Cereal Products	0.05 % to 5 %
		Gluten (Dry Basis)	Section 8.4 of FSSAI Manual of Methods of Analysis of Cereal and Cereal Products	1 % to 25 %
		Alcoholic acidity (as H ₂ SO ₄) with 90 % alcohol.	Section 8.5 of FSSAI Manual of Methods of Analysis of Cereal and Cereal Products	0.05 % to 5 %
		Crude Protein	IS 7219	0.1 % to 40 %
		Crude Fat	AOAC 20 th Ed., 2003.06, (Hexane Extraction)	0.1 % to 25 %
			Codex Guideline for Nutritional Labelling (Calculation Method)	10% to 90 %
		Energy in Kcal	Codex Guideline for Nutritional Labelling (Calculation Method)	340 kcal/100 g to 600 kcal/100 g
		Total Sugars	AOAC 20 th Ed., 920.184	0.1 % to 100 %
		Crude Fiber (on Dry Basis)	AOAC 20 th Ed. 962.09 IS 10226 (Part 1),	1 % to 17 %
		Dietary Fiber (on dry basis)	AOAC 20 th Ed., 985.29	1.0 % to 45%

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		Antioxidants		
		BHA	AOAC 983.15,	10 mg/Kg to 1000
		TBHQ	AOAC 20 th Ed.	mg/Kg
		Preservatives		
		Benzoic acid & its sodium & Potassium salt or both (calculated as Benzoic acid)	SOP No.06/44, Issue 2.0, Issue Date: 2015/03/31	10 mg/Kg to 3000 mg/kg
		Sorbic acid and its cal., Sod., Pot. salt (Calculated as sorbic acid)		
		Colors		
		Test for Natural colors	Section 4.1 of FSSAI Manual of Methods of Analysis of Food additives	Qualitative
		Test for Synthetic colors	Section 4.2 of FSSAI Manual of Methods of Analysis of Food additives	Qualitative
		Fatty acid Profiling		
		Saturated Fat	AOAC 20th Ed., 969.33	0.10 % to 100 %
		Mono Unsaturated Fatty Acids (MUFA)		0.01 % to 100 %
		Poly Unsaturated Fatty acids (PUFA)		0.01 % to 100 %
		Cholesterol	AOAC 20th Ed., 994.10	0.01 mg/g to 10 mg/g
		Taste Enhancers		
		Monosodium Glutamate (MSG)	Section 7.5 of FSSAI Manual of Methods of Analysis-Additives, HPLC Method	1.0 mg/Kg to 10 mg/Kg

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		Metals and Minerals	AOAC 20th Ed., 2015.01 microwave Digestion followed by Sec. 3 of FSSAI Lab Manual for Metals; by AAS / SOP : 06/02, Issue No: 8.0, Issue date: 2016/06/07	
		Iron		2 mg/kg to 100 mg/kg
		Zinc		5.0 mg/kg to 50 mg/kg
		Lead		0.2 mg/kg to 50 mg/kg
		Copper		4 mg/kg to 100 mg/kg
		Arsenic		0.05 mg/kg to 50 mg/kg
		Tin		1.0 mg/kg to 200 mg/kg
		Cadmium		0.05 mg/kg to 25 mg/kg
		Mercury		0.1 mg/kg to 50 mg/kg
		Mycotoxins	AOAC 20 th Ed., ;2008.02	
		Aflatoxin B1		1.5 µg/kg to 50 µg/kg
		Aflatoxin B2		0.5µg/kg to 50 µg/kg
		Aflatoxin G1		1.5µg/kg to 50 µg/kg
		Aflatoxin G2		0.5µg/kg to 50 µg/kg
		Ochratoxin A		5 µg/kg to 100 µg/kg
		Pesticide Residues	AOAC 20 th Ed.; 2007.1 EN 15662 (QuEChERS) SOP No. 106/26, Issue No:1.0, Issue date: 2016/07/05	
		Aldrin		10 µg/kg to 200 µg/kg
		Alachlor		10 µg/kg to 200 µg/kg
		Atrazine		10 µg/kg to 200 µg/kg
		Benfuracarb		10 µg/kg to 200 µg/kg
		Chlorfenvinphos		10 µg/kg to 200 µg/kg
		Chlorpyrifos		10 µg/kg to 200 µg/kg
		Cypermethrin I,II,III,IV		10 µg/kg to 200 µg/kg
		Deltamethrin I,II		10 µg/kg to 200 µg/kg
		Diuron		10 µg/kg to 200 µg/kg
		Dieldrin		10 µg/kg to 200 µg/kg
		Edifenfos		10 µg/kg to 200 µg/kg
		Endosulfan Alpha		10 µg/kg to 200 µg/kg
		Endosulfan Beta		
		Endosulfan sulphate		
		Malathion		10 µg/kg to 200 µg/kg
		Malaaxon		

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		Metasulfuron-methyl	AOAC 20 th Ed.; 2007.1 EN 15662 (QuEChERS) SOP No. 106/26, Issue No:1.0, Issue date: 2016/07/05	10 µg/kg to 200 µg/kg
		Methyl Chloro-phenoxy-acetic acid (MCPA)		10 µg/kg to 200 µg/kg
		Pendimethalin		10 µg/kg to 200 µg/kg
		Pretilachlor		10 µg/kg to 200 µg/kg
		Trifluralin		10 µg/kg to 200 µg/kg
		α-HCH		10 µg/kg to 200 µg/kg
		Beta-HCH		10 µg/kg to 200 µg/kg
		δ-HCH		10 µg/kg to 200 µg/kg
		Gamma-HCH		10 µg/kg to 200 µg/kg
		Anilophos		10 µg/kg to 200 µg/kg
		Bitertanol		10 µg/kg to 200 µg/kg
		Buprofezin		10 µg/kg to 200 µg/kg
		Butachlor		10 µg/kg to 200 µg/kg
		Carbaryl		10 µg/kg to 200 µg/kg
		Carbendazim		10 µg/kg to 200 µg/kg
		Carbofuran		10 µg/kg to 200 µg/kg
		Carpropamid		10 µg/kg to 200 µg/kg
		Chlorimuron-ethyl		10 µg/kg to 200 µg/kg
		Clodinafop-proparyl		10 µg/kg to 200 µg/kg
		Clomazone		10 µg/kg to 200 µg/kg
		Cyhalofop-butyl		10 µg/kg to 200 µg/kg
		Diclofop-methyl		10 µg/kg to 200 µg/kg
		Ethion		10 µg/kg to 200 µg/kg
		Ethoxysulfruron		10 µg/kg to 200 µg/kg
		Fenobucarb		10 µg/kg to 200 µg/kg
		Fenthion		10 µg/kg to 200 µg/kg
		Fenthion sulfone		10 µg/kg to 200 µg/kg
		Fenthion sulphoxide		10 µg/kg to 200 µg/kg
		Flufenacet		10 µg/kg to 200 µg/kg
		Imidacloprid		10 µg/kg to 200 µg/kg
		Isoprothiolane		10 µg/kg to 200 µg/kg
		Isoproturon		10 µg/kg to 200 µg/kg
		Metalaxyl		10 µg/kg to 200 µg/kg

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		Monocrotophos	AOAC 20 th Ed.; 2007.1	10 µg/kg to 200 µg/kg
		Oxyflufen	EN 15662:2008	10 µg/kg to 200 µg/kg
		Phenthoate	(QuEChERS)	10 µg/kg to 200 µg/kg
		Phorate	SOP No. 106/26, Issue	10 µg/kg to 200 µg/kg
		Phorate sulfone	No:1.0, Issue date:	10 µg/kg to 200 µg/kg
		Phorate sulphoxide	2016/07/05	10 µg/kg to 200 µg/kg
		Phosphamidon		10 µg/kg to 200 µg/kg
		Propiconazole		10 µg/kg to 200 µg/kg
		Pyrethrins I		10 µg/kg to 200 µg/kg
		Pyethrins II		10 µg/kg to 200 µg/kg
		Quinalphos		10 µg/kg to 200 µg/kg
		Simazine		10 µg/kg to 200 µg/kg
		Tebuconazole		10 µg/kg to 200 µg/kg
		Thiamethoxam		10µg/kg to 200 µg/kg
		Thiachloprid		10 µg/kg to 200 µg/kg
		Thiometon		10 µg/kg to 200 µg/kg
		Thiometon sulphoxide		10 µg/kg to 200 µg/kg
		Triadimefon		10 µg/kg to 200 µg/kg
		Triallate		10 µg/kg to 200 µg/kg
		Triazophos		10 µg/kg to 200 µg/kg
		Trichlorfon	AOAC 20 th Ed., 2007.1	10 µg/kg to 200 µg/kg
		Tricyclazole	EN 15662 (QuEChERS)	10 µg/kg to 200 µg/kg
		Tridemorph	SOP No. 106/26, Issue	10 µg/kg to 200 µg/kg
			No:1.0, Issue date:	
			2016/07/05	
		2,4-D	SOP No. 106/26, Issue No:	10 µg/kg to 200 µg/kg
		Cartap hydrochloride	1.0, Issue date:	10 µg/kg to 200 µg/kg
		Dithiocarbamates	2016/07/05.	10 µg/kg to 200 µg/kg
		Paraquat Dichloride		10 µg/kg to 200 µg/kg
		Inorganic Bromide	EPA 300.1	1 mg/Kg to 100 mg/Kg

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2.	Milk & Dairy Products.	Milk Fat	Section 6.3 of FSSAI Manual of Methods of Analysis of Milk and Milk Products	1% to 10 %
		Milk Solids not fat	Section 14.2 of FSSAI Manual of Methods of Analysis of Milk and Milk Products	1 % to 95%
		Milk protein in Milk solid not fat	Section 3.4 of FSSAI Manual of Methods of Analysis of Milk and Milk Products,	1 % to 95%
		Milk fat on dry matter	Section 6.3 of FSSAI Manual of Methods of Analysis of Milk and Milk Products	1 % to 50 %
		Moisture	IS 16072	1 % to 95%
		Total Solids	Section 1.3.3 of FSSAI Manual of Methods of Analysis of Milk and Milk Products	1 % to 100 %
		Total Fat	Section 6.3 of FSSAI Manual of Methods of Analysis of Milk and Milk Products,	0.1 % to 30 %
		Total Protein (N x 6.38)	IS 7219	0.1 % to 95%
		Titrateable acidity (0.1 ml NaOH/10gm solid not fat)	Section 9.5 of FSSAI Manual of Methods of Analysis of Milk and Milk Products	0.1 % to 20%
		Common salt	Section 12.4 of FSSAI Manual of Methods of Analysis of Milk and Milk Products	0.5 % to 10%

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		B.R. value of Ghee at 40 degree	Section 13.3 of FSSAI Manual of Methods of Analysis of Milk and Milk Products	20 to 60
		Reichert Meissel value	Section 13.5 of FSSAI Manual of Methods of Analysis of Milk and Milk Products	1 to 50
		FFA as oleic acid	Section 13.4 of FSSAI Manual of Methods of Analysis of Milk and Milk Products	0.1 %to 10%
		Peroxide Value	Section 13.9 of FSSAI Manual of Methods of Analysis of Milk and Milk Products	0.1 meq/Kg to 50 meq/Kg
		Boudouins Test	Section 13.6 of FSSAI Manual of Methods of Analysis of Milk and Milk Products	Qualitative
		Total Ash on dry basis	Section 14.6 of FSSAI Manual of Methods of Analysis of Milk and Milk Products	0.01% to 10%
		Acid Insoluble ash in dil. HCl	IS 14433	0.01 % to 5%
		Sugar as sucrose, on dry basis	AOAC 920.184	0.4 %% to 80 %
		pH of 10.0% aqueous solution	Section 16.6 of FSSAI Manual of Methods of Analysis of Milk and Milk Products	1 to 13

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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
		Casein	Section 17.4 of FSSAI Manual of Methods of Analysis of Milk and Milk Products	0.1% to 99%
		Adulterants in Milk		
		Test for added Urea	Section 1.0 of FSSAI Manual of Methods of Analysis of Milk and Milk Products	Qualitative
		Test for added starch		Qualitative
		Test for Cane sugar		Qualitative
		Test for Cellulose		Qualitative
		Test for detergents		Qualitative
		Test for Neutralizers		Qualitative
		Test for rancidity		Qualitative
		Test for Ammonium compounds		Qualitative
		Test for Sulphates		Qualitative
		Test for added Glucose		Qualitative
		Test for Sodium Chloride		Qualitative
		Test for Foreign Fat		Qualitative
		Test for Nitrates		Qualitative
		Detection of Hypochlorites and Chloramines		Qualitative
		Test for Quaternary Ammonium Compounds		Qualitative
		Test for Presence of Anionic Detergent		Qualitative
		Test for Presence of Skimmed milk Powder in Natural milk		Qualitative
		Test for Detection of Gelatine		Qualitative
		Test for Presence of Formalin		Qualitative
		Test for Presence of Hydrogen Peroxide		Qualitative

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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
		Test for Presence of Boric acid and Borates	Section 1.0 of FSSAI Manual of Methods of Analysis of Milk and Milk Products	Qualitative
		Test for Presence of Salicylic acid		Qualitative
		Antioxidants		
		BHA	AOAC 983.15, AOAC 20 th Ed.	10 mg/kg to 1000 mg/Kg
		TBHQ		10 mg/kg to 1000 mg/Kg
		Preservatives		
		Benzoic acid & its sodium & Potassium salt or both (calculated as Benzoic acid)	SOP No.06/44, Issue 2.0, Issue date: 2015/03/31.	10 mg/kg to 3000 mg/kg
		Sorbic acid and its Calcium Sodium, Pottasium.salt(Calculated as sorbic acid)		10 mg/kg to 3000 mg/kg
		Colors		
		Test for Natural colors	Section 4.1 of FSSAI Manual of Methods of Analysis of Food additives,	Qualitative
		Test for Synthetic colors	Section 4.2 of FSSAI Manual of Methods of Analysis of Food additives,	Qualitative
		Fatty acid profiling		
		Saturated Fat	AOAC 20 th Ed., 969.33	0.1 % to 100 %
		Mono Unsaturated Fatty Acids (MUFA)		0.1 % to 100 %
		Poly Unsaturated Fatty acids (PUFA)		0.1 % to 100 %
		Trans fat		0.1 % to 100 %
		Cholesterol	AOAC 20 th Ed., 994.10	0.01 % to 10 mg/g

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		Metals and Minerals		
		Iron	AOAC 20 th Ed., 2015.01 microwave Digestion followed by Sec. 3 of FSSAI Lab Manual for Metals; by AAS/ SOP: 06/02, Issue No: 8.0, Issue date: 2016/06/07.	2 mg/kg to 100 mg/kg
		Zinc		5 mg/kg to 50 mg/kg
		Lead		0.2 mg/kg to 50 mg/kg
		Copper		5 mg/kg to 100 mg/kg
		Arsenic		0.05 mg/kg to 50 mg/kg
		Tin		2.0 mg/kg to 200 mg/kg
		Zinc		5 mg/kg to 200 mg/kg
		Cadmium		0.1 mg/kg to 25 mg/kg
		Mercury		0.2 mg/kg to 50 mg/kg
		Melamine	USFDA CLG-MEL 1.01 ,	10 µg/Kg to 2000 µg/Kg
		Mycotoxins		
		Aflatoxin M1 (Milk based)	AOAC 20 th Ed., 2000.08	0.4 µg/Kg to 10 µg/Kg
		Pesticide Residues		
		Aldrin	AOAC 20 th Ed., 2007.1 EN 15662 (QuEChERS) SOP No. 106/29, Issue No: 1.0, Dated 2016/08/08.	10 µg/Kg to 200 µg/Kg
		Diieldrin		10 µg/Kg to 200 µg/Kg
		Chlordane		10 µg/Kg to 200 µg/Kg
		o,p – DDT		10 µg/Kg to 200 µg/Kg
		p,p – DDT		10 µg/Kg to 200 µg/Kg
		o,p – DDD	AOAC 20 th Ed., 2007.1 EN 15662 (QuEChERS) SOP No. 106/29, Issue No: 1.0, 2016/08/08	10 µg/Kg to 200 µg/Kg
		p,p – DDD		10 µg/Kg to 200 µg/Kg
		o,p – DDE		10 µg/Kg to 200 µg/Kg
		p,p – DDE		10 µg/Kg to 200 µg/Kg
		Fenitrothion		10 µg/Kg to 200 µg/Kg
		Heptachlor		10 µg/Kg to 200 µg/Kg
		Heptachlor epoxide		10 µg/Kg to 200 µg/Kg
		Alpha-HCH		10 µg/Kg to 200 µg/Kg
		Beta-HCH		10 µg/Kg to 200 µg/Kg
		Y-HCH		10 µg/Kg to 200 µg/Kg
		δ-HCH		10 µg/Kg to 200 µg/Kg

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		Chlorfenvinphos	AOAC 20 th Ed., 2007.1 EN 15662 (QuEChERS) SOP No. 106/29, Issue No: 1.0,2016/08/08	10 µg/Kg to 200 µg/Kg
		Chlorpyrifos		10 µg/Kg to 200 µg/Kg
		Ethion		10 µg/Kg to 200 µg/Kg
		Monocrotophos		10 µg/Kg to 200 µg/Kg
		Trichlorfon		10 µg/Kg to 200 µg/Kg
		Carbendazim		10 µg/Kg to 200 µg/Kg
		Edifenfos		10 µg/Kg to 200 µg/Kg
		Cypermethrin I		10 µg/Kg to 200 µg/Kg
		Cypermethrin II		10 µg/Kg to 200 µg/Kg
		Cypermethrin III		10 µg/Kg to 200 µg/Kg
		Cypermethrin IV		10 µg/Kg to 200 µg/Kg
		Fenthion		10 µg/Kg to 200 µg/Kg
		Fenthion sulfone		10 µg/Kg to 200 µg/Kg
		Fenthion sulphoxide		10 µg/Kg to 200 µg/Kg
		Fenvalerate		10 µg/Kg to 200 µg/Kg
		Esfenvalerate		10 µg/Kg to 200 µg/Kg
		Phenthoate		10 µg/Kg to 200 µg/Kg
		Phorate		10 µg/Kg to 200 µg/Kg
		Phorate sulfone		10 µg/Kg to 200 µg/Kg
		Phorate sulphoxide		10 µg/Kg to 200 µg/Kg
		Pirimiphos-methyl		10 µg/Kg to 200 µg/Kg
		2,4-D	SOP No. 106/29, Issue No: 1.0,2016/08/08.	10 µg/Kg to 200 µg/Kg
3	Tea	Moisture (on dry basis) m/m	IS 13853	1% to 50 %
		Total Ash (m/m)	IS 13854	1 % to 10 %
		Water Soluble Ash of-total ash	IS 13855	1 % to 95 %
		Alkalinity of water soluble ash expressed as KOH (m/m)	IS 13856	0.1% to 4 %
		Acid-insoluble ash (m/m)	IS 13857	0.1% to 2.0 %

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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
		Water extract (m/m)	IS 13862	32% to 70 %
		Crude Fibre (m/m)	IS10226, and AOAC 962.09, AOAC 20 th Ed.	1.0% to 20 %
		Total catechins (m/m)	SOP No: 106/116 Issue No :1.0 Issue date : 2017/07/04	0.10 % to 25 %
		Caffeine	SOP 06/01, Issue No :8.0 Issue date : 2017/04/10	0.1 % to 25 %
		Total Polyphenols	ISO 14502-1	0.10 % to 25 %
		Total Fat	AOAC 920.97; 20 th Ed.,	0.1 % to 10%
		Total protein	IS 7219	0.1% to 10%
		Carbohydrates (of 2 % solution)	Codex Guideline for Nutritional Labelling (Calculation Method)	10% to 90 %
		Total Sugar (as Sucrose %)	AOAC 906.03 ; 20 th Ed.,	0.1% to 10 %
		Energy (of 2 % solution)	Codex Guideline for Nutritional Labelling (Calculation Method)	340 kcal/100 g to 600 kcal/100 g
		Vitamin C	IS 5838	0.1mg/100g to 40mg/100g
		Fatty Acid Profile		
		Saturated fat	AOAC 20 th Ed.	0.1 % to 100 %
		MUFA	AOAC 969.33 ;	0.001 % to 100 %
		PUFA		0.004 % to 100 %
		Cholesterol	AOAC 20 th Ed. 994.10	0.01 mg/g to 10 mg/g
		Iron Filings	IS 3633	10 mg/kg to 1000 mg/kg
		Trace Metals		
		Iron	AOAC 20 th Ed., 2015.01	2 mg/kg to 100 mg/kg
		Lead	microwave Digestion	0.2 mg/kg to 50 mg/kg
		Copper	followed by Sec. 3 of	5 mg/kg to 100 mg/kg
		Arsenic	FSSAI Lab Manual for	0.2 mg/kg to 50 mg/kg

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		Tin	Metals; by AAS / SOP : 06/02, Issue 8.0, Issue date:2016/06/07;	1 mg/kg to 200 mg/kg
		Zinc		5 mg/kg to 200 mg/kg
		Cadmium		0.05 mg/kg to 25 mg/kg
		Mercury		0.1 mg/kg to 50 mg/kg
		Pesticides	AOAC 20 th Ed., 2007.1, EN 15662 (QuEChERS)	
		Dicofol		10 µg/kg to 200 µg/kg
		Propargite		10 µg/kg to 200 µg/kg
		Fenazaquin		10 µg/kg to 200 µg/kg
		Ethion		10 µg/kg to 200 µg/kg
		Quinalphos		10 µg/kg to 200 µg/kg
		Fenpyroximate		10 µg/kg to 200 µg/kg
		Hexaconazole		10 µg/kg to 200 µg/kg
		Propiconazole		10 µg/kg to 200 µg/kg
		Glufosinate-ammonium	SOP No :106/117, Issue No:01, Issued on 2017/07/04	10 µg/kg to 200 µg/kg
		Glyphosate		10 µg/kg to 200 µg/kg
4.	Fruits & Fruit Products	Physical Parameters		
		Rotting	FSSAI Manual of Methods of Analysis of Fruit and Vegetable products	Qualitative
		Rodent Contamination	Section 17.1 of FSSAI Manual of Methods of Analysis of Fruit and Vegetable products	Qualitative
		Added wax coating	FSSAI Manual of Methods of Analysis of Fruit and Vegetable products	Qualitative
		Mould	Section 17.1 of FSSAI Manual of Methods of Analysis of Fruit and Vegetable products	Qualitative
		Moisture (m/m)	IS 3579 Section .4.1; 6 of FSSAI Manual of Methods of Analysis of Fruit and	1% to 90%

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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
		pH	Vegetable products Section 2.3 ;6 of FSSAI Manual of Methods of Analysis of Fruit and Vegetable products	1 to 13
		Total ash (m/m)	Section 11.3 & 14.4; 6 of FSSAI Manual of Methods of Analysis of Fruit and Vegetable products	0.05 % to 25 %
		Percentage of reducing Sugar to total sugar	AOAC 920.184, AOAC 20 th Edition.	0.1 % to 95 %
		Acid Insoluble Ash	Section 5.3 of FSSAI Manual of Methods of Analysis of Fruit and Vegetable products	0.01 % to 10%
		Total Sugar (as Sucrose)	AOAC 920.184, AOAC 20 th Edition.	0.4 % to 90%
		Ascorbic acid	IS 5838	0.5 mg/100g to 1000 mg/100g
		Acidity as acetic acid or Citric Acid or Malic acid or Oleic acid	Section 2.4 of FSSAI Manual of Methods of Analysis of Fruit and Vegetable products IS 13844	0.1 % to 10%
		Total soluble solids(Brix)	IS 13815	1 % to 50
		Anti-Oxidants		
		BHA	AOAC 983.15, AOAC 20 th Edition.	10 mg/kg to 1000mg/kg
		TBHQ		10 mg/kg to 1000 mg/kg
		Preservatives		
		Benzoic acid & its sodium & Potassium salt or both (calculated as Benzoic acid)	SOP No.06/44, Issue 2.0, Effective from: 2015/04/15.	5.0 mg/kg to 3000mg/kg

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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
		Sorbic acid and its calcium., Sodium.,Pot.salt(Calculated as sorbic acid)		5.0mg/kg to 3000mg/kg
		Sulphur dioxide	AOAC 990.28, 20 th Edition	10.0mg/kg to 1000mg/kg
		Colors		
		a)Test for Natural colors	Section 4.1 of FSSAI Manual of Methods of Analysis of Food additives	Qualitative (Qualitative)
		b)Synthetic		
		Ponceau 4R	FSSAI Manuals, Manual-8, No.4.2.7. 3 (HPLC Method)	5 mg/kg to 1000 mg/Kg
		Carmoisine	^SOP No.06/43, Issue 2.0,	5 mg/kg to 1000 mg/Kg
		Tartarazine	Issue date: 2015/04/20.	5 mg/kg to 1000 mg/Kg
		Sunset yellow FCF		5 mg/kg to 1000 mg/Kg
		Artificial Sweeteners		
		Aspertame	Section 3.5.3 of FSSAI Manual of Methods of Analysis of Fruit and Vegetable products, SOP No.06/44, Issue No:2.0, Issue date: 2015/04/15.	100 mg/kg to 1000 mg/Kg
		Acesulphame K		100mg/kg to 1000mg/kg
		Metals		
		Iron	AOAC 20 th Ed., 2015.01 microwave Digestion followed by Sec. 3 of FSSAI Lab Manual for Metals; by AAS / SOP : 06/02, Issue No:8.0, Issue date: 2016/06/07.	10 mg/kg to 100 mg/kg
		Arsenic		0.1 mg/kg to 10 mg/kg
		Cadmium		0.05 mg/kg to 50 mg/kg
		Lead		0.1 mg/kg to 50 mg/kg
		Copper		1.0 mg/kg to 50 mg/kg
		Tin		1.0 mg/kg to 50 mg/kg
		Zinc		5 mg/kg to 50 mg/kg
		Copper oxy chloride as copper		1 mg/kg to 200 mg/Kg
		Mercury		0.2 - 50 mg/kg

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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
		Container filled	IS 3884	NA
		Insects	Visual examination	Present / Absent
		Naturally Occurring Toxic Substances		
		Safrole	AOAC 969.13; 20 th Ed., SOP No.06/37, Issue No:2.0, Issue date:2015/07/31	1 mg/kg to 20 mg/kg
		Mycotoxins		
		Patulin	AOAC 995.10 (HPLC-UV); 20 th Ed.	5 mg/kg to 50 mg/kg
		Pesticide Residues		
		Aldrin	AOAC 20 th Ed., 2007.1	10 µg/kg to 200 µg/kg
		Dieldrin	EN 15662 (QuEChERS)	10 µg/kg to 200 µg/kg
		o,p – DDT	SOP No. 106/25,	10 µg/kg to 200 µg/kg
		p,p – DDT	Issue No:1.0,	10 µg/kg to 200 µg/kg
		o,p – DDD	date:2016/07/01	10 µg/kg to 200 µg/kg
		p,p – DDD		10 µg/kg to 200 µg/kg
		o,p – DDE		10 µg/kg to 200 µg/kg
		p,p – DDE		10 µg/kg to 200 µg/kg
		Dichlorvos		10 µg/kg to 200 µg/kg
		Dicofol		10 µg/kg to 200 µg/kg
		Endosulfan A		10 µg/kg to 200 µg/kg
		Endosulfan B		10 µg/kg to 200 µg/kg
		Endosulfan Sulphate		10 µg/kg to 200 µg/kg
		Fenitrothion		10 µg/kg to 200 µg/kg
		Alpha-Hexachlorocyclohexane		10 µg/kg to 200 µg/kg
		Beta-Hexachlorocyclohexane		10 µg/kg to 200 µg/kg
		Gamma-Hexachlorocyclohexane		10 µg/kg to 200 µg/kg
		Delta-Hexachlorocyclohexane		10 µg/kg to 200 µg/kg
		Parathion		10 µg/kg to 200 µg/kg

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		Parathion methyl		10 µg/kg to 200 µg/kg
		Phosphamidon		10 µg/kg to 200 µg/kg
		Pyrethins I		10 µg/kg to 200 µg/kg
		Pyrethins II		10 µg/kg to 200 µg/kg
		Chlorfenvinphos		10 µg/kg to 200 µg/kg
		Aldicarb		10 µg/kg to 200 µg/kg
		Cypermethrin I,II,III,IV		10 µg/kg to 200 µg/kg
		Fenvalerate		10 µg/kg to 200 µg/kg
		Hexaconazole		10 µg/kg to 200 µg/kg
		Captafol		10 µg/kg to 200 µg/kg
		Captan		10 µg/kg to 200 µg/kg
		Chlorpyrifos		10 µg/kg to 200 µg/kg
		Diuron		10 µg/kg to 200 µg/kg
		Dodine		10 µg/kg to 200 µg/kg
		Malathion		10 µg/kg to 200 µg/kg
		Malaoxon		10 µg/kg to 200 µg/kg
		Carbendazim		10 µg/kg to 200 µg/kg
		Chlorobenzilate		10 µg/kg to 200 µg/kg
		Cymoxanil		10 µg/kg to 200 µg/kg
		Dithianon		10 µg/kg to 200 µg/kg
		Difenoconazole	AOAC 20 th Ed., 2007.1 EN 15662 (QuEChERS) SOP No. 106/25, Issue No:1.0, date:2016/07/01	10 µg/kg to 200 µg/kg
		Dimethomorph		10 µg/kg to 200 µg/kg
		Ethion		10 µg/kg to 200 µg/kg
		Fenarimol		10 µg/kg to 200 µg/kg
		Fenthion		10 µg/kg to 200 µg/kg
		Fenthion sulfone		10 µg/kg to 200 µg/kg
		Fenthion sulphoxide		10 µg/kg to 200 µg/kg
		Formothion / Dimethoate		10 µg/kg to 200 µg/kg
		Hexaconazole		10 µg/kg to 200 µg/kg
		Monocrotophos		10 µg/kg to 200 µg/kg
		Myclobutanil		10 µg/kg to 200 µg/kg
		Novaluron		10 µg/kg to 200 µg/kg
		Paraquat Dichloride		10 µg/kg to 200 µg/kg
		Penconazole		10 µg/kg to 200 µg/kg

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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
		Phorate	SOP No. 106/25, IssueNo:1.0, date:2016/07/01	10 µg/kg to 200 µg/kg
		Phorate sulfone		10 µg/kg to 200 µg/kg
		Phorate sulphoxide		10 µg/kg to 200 µg/kg
		Phosalone		10 µg/kg to 200 µg/kg
		Thiometon		10 µg/kg to 200 µg/kg
		Thiometon sulphoxide		10 µg/kg to 200 µg/kg
		Thiophenate methyl		10 µg/kg to 200 µg/kg
		Triadimefon		10 µg/kg to 200 µg/kg
		Trichlorfon		10 µg/kg to 200 µg/kg
		Tridemorph		10 µg/kg to 200 µg/kg
		2,4-D		10 µg/kg to 200 µg/kg
		Chlormequat chloride		10 µg/kg to 200 µg/kg
		Dithiocarbamates		10 µg/kg to 200 µg/kg
		Alfa Naphthyl acetic acid (A.N.A.)		10 µg/kg to 200 µg/kg
		Ethephon		10 µg/kg to 200 µg/kg
		Fosetyl-Al		10 µg/kg to 200 µg/kg
5.	Vegetables & vegetable products	Moisture (m/m)	IS 3579 Section .4.1; 6 of FSSAI Manual of Methods of Analysis of Fruit and Vegetable products	1 % to 90%
		pH	Section 2.3; 6 of FSSAI Manual of Methods of Analysis of Fruit and Vegetable products	1 to 13
		Total ash (m/m)	Section 11.3 & 14.4; 6 of FSSAI Manual of Methods of Analysis of Fruit and Vegetable products	0.1 % to 25 %
		Acid Insoluble Ash	Section 5.3 of FSSAI Manual of Methods of Analysis of Fruit and Vegetable products	0.01 % to 10%

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		Sugar as sucrose	Section 2.6 of FSSAI Manual of Methods of Analysis of Fruit and Vegetable products	0.4 % to 90%
		Ascorbic acid	Section 2.8 of FSSAI Manual of Methods of Analysis of Fruit and Vegetable products IS 5838	0.5 mg/100g to 1000 mg/100g
		Acidity as acetic acid or Citric Acid or Lauric Acid or Malic acid	IS 13844	0.1% to 10%
		Total soluble solids(Brix)	IS 13815	1 to 20
		Container filled	IS 3884	NA
		Anti Oxidants		
		BHA	AOAC 983.15, 20 th Edition	10 mg/kg to 1000 mg/kg
		TBHQ		10 mg/kg to 1000 mg/kg
		Preservatives		
		Benzoic acid & its sodium & Potassium salt or both (calculated as Benzoic acid)	Section 2.4.1 of FSSAI Manual of Methods of Analysis of Food additives	10 mg/kg to 3000 mg/Kg
		Sorbic acid and its cal., Sod.,Pot.salt(Calculated as sorbic acid)		10 mg/kg to 3000 mg/kg
		Sulphur dioxide	Section 2.5.3 of FSSAI Manual of Methods of Analysis of Food additives	10 mg/kg to 1000 mg/kg
		Artificial Sweeteners		
		Aspartame	SOP No.06/44, Issue 2.0, Effective from: 2015/04/15.	100 mg/kg to 1000 mg/kg
		Acesulphame K		100 mg/kg to 1000 mg/kg

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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
		Metals		
		Arsenic	AOAC 20 th Ed., 2015.01	0.1 mg/kg to 10 mg/kg
		Cadmium	microwave Digestion	0.05 mg/kg to 50 mg/kg
		Lead	followed by Sec. 3 of	0.05 mg/kg to 50 mg/kg
		Copper	FSSAI Lab Manual for	1.0 mg/kg to 50 mg/kg
		Tin	Metals; by AAS / SOP :	1.0 mg/kg to 50 mg/kg
		Zinc	06/02, Issue 8.0,	5 mg/kg to 50 mg/kg
		Mercury	Issue date: 2016/06/07.	0.1 mg/kg to 50 mg/kg
		Pesticide Residues	AOAC 20th Ed, 2007.1	
		Aldrin	EN 15662 (QuEChERS)	10 µg/kg to 200 µg/kg
		Dieldrin	SOP No. 106/25,	10 µg/kg to 200 µg/kg
		o,p – DDT	IssueNo:1.0,	10 µg/kg to 200 µg/kg
		p,p – DDT	date:2016/07/01	10 µg/kg to 200 µg/kg
		o,p – DDD		10 µg/kg to 200 µg/kg
		p,p – DDD		10 µg/kg to 200 µg/kg
		o,p – DDE		10 µg/kg to 200 µg/kg
		p,p – DDE		10 µg/kg to 200 µg/kg
		Dichlorvos		10 µg/kg to 200 µg/kg
		Dicofol		10 µg/kg to 200 µg/kg
		Endosulfan A		10 µg/kg to 200 µg/kg
		Endosulfan B		10 µg/kg to 200 µg/kg
		Endosulfan Sulphate		10 µg/kg to 200 µg/kg
		Fenitrothion		10 µg/kg to 200 µg/kg
		Alpha		10 µg/kg to 200 µg/kg
		Hexachlorocyclohexane		
		Beta		10 µg/kg to 200 µg/kg
		Hexachlorocyclohexane		
		Gamma		10 µg/kg to 200 µg/kg
		Hexachlorocyclohexane		
		Delta		10 µg/kg to 200 µg/kg
		Hexachlorocyclohexane		
		Parathion		10 µg/kg to 200 µg/kg
		Parathion methyl		10 µg/kg to 200 µg/kg
		Phosphamidon		10 µg/kg to 200 µg/kg

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		Pyrethins I		10 µg/kg to 200 µg/kg
		Pyrethins II		10 µg/kg to 200 µg/kg
		Copper oxychloride		1 mg/kg to 200 mg/kg
		Chlorfenvinphos		10 µg/kg to 200 µg/kg
		Aldicarb		10 µg/kg to 200 µg/kg
		Cypermethrin I,II,III,IV		10 µg/kg to 200 µg/kg
		Fenvalerate		10 µg/kg to 200 µg/kg
		Hexaconazole		10 µg/kg to 200 µg/kg
		Captan		10 µg/kg to 200 µg/kg
		Chlorpyrifos		10 µg/kg to 200 µg/kg
		Diuron		10 µg/kg to 200 µg/kg
		Dodine		10 µg/kg to 200 µg/kg
		Malathion		10 µg/kg to 200 µg/kg
		Malaoxon		10 µg/kg to 200 µg/kg
		Carbendazim		10 µg/kg to 200 µg/kg
		Carbofuran		10 µg/kg to 200 µg/kg
		Chlormequat chloride		10 µg/kg to 200 µg/kg
		Chlorobenzilate		10 µg/kg to 200 µg/kg
		Cymoxanil		10 µg/kg to 200 µg/kg
		Dithianon		10 µg/kg to 200 µg/kg
		Difenoconazole	AOAC 20th Ed.,2007.1 EN 15662 (QuEChERS) SOP No. 106/25, Issue No:1.0, date:2016/07/01	10 µg/kg to 200 µg/kg
		Dimethomorph – I		10 µg/kg to 200 µg/kg
		Dimethomorph – II		10 µg/kg to 200 µg/kg
		Ethion		10 µg/kg to 200 µg/kg
		Fenarimol		10 µg/kg to 200 µg/kg
		Fenthion		10 µg/kg to 200 µg/kg
		Fenthion sulfone		10 µg/kg to 200 µg/kg
		Fenthion sulphoxide		10 µg/kg to 200 µg/kg
		Formothion / Dimethoate		10 µg/kg to 200 µg/kg
		Hexaconazole		10 µg/kg to 200 µg/kg
		Monocrotophos		10 µg/kg to 200 µg/kg
		Myclobutanil		10 µg/kg to 200 µg/kg
		Novaluron		10 µg/kg to 200 µg/kg

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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
		Penconazole	SOP No. 106/25, Issue No:1.0, date:2016/07/01	10 µg/kg to 200 µg/kg
		Phorate		10 µg/kg to 200 µg/kg
		Phorate sulfone		10 µg/kg to 200 µg/kg
		Phorate sulphoxide		10 µg/kg to 200 µg/kg
		Phosalone		10 µg/kg to 200 µg/kg
		Thiometon		10 µg/kg to 200 µg/kg
		Thiometon sulphoxide		10 µg/kg to 200 µg/kg
		Thiophenate methyl		10 µg/kg to 200 µg/kg
		Triadimefon		10 µg/kg to 200 µg/kg
		Trichlorfon		10 µg/kg to 200 µg/kg
		Tridemorph		10 µg/kg to 200 µg/kg
		2,4-D		10 µg/kg to 200 µg/kg
		Paraquat chloride		10 µg/kg to 200 µg/kg
		Dithiocarbamates		10 µg/kg to 200 µg/kg
		Alfa Naphthyl acetic acid (A.N.A.)		10 µg/kg to 200 µg/kg
		Fosetyl-Al		10 µg/kg to 200 µg/kg
		Ethephon		10 µg/kg to 200 µg/kg
6.	Jams, Juices, Sauces & Concentrates	Total soluble solids	IS 13815	1% to 90%
		Total sugars (as Sucrose)	AOAC 920.184, AOAC 20 th Edition	0.4% to 90%
		Moisture (m/m)	IS 3579 Section .4.1; 6 of FSSAI Manual of Methods of Analysis of Fruit and Vegetable products	1% to 60%
		pH	Section 2.3 ;6 of FSSAI Manual of Methods of Analysis of Fruit and Vegetable products	1 to13
		Total ash	Section 11.3 & 14.4; 6 of FSSAI Manual of Methods of Analysis of Fruit and Vegetable products	0.05 % to 25 %

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		Percentage of reducing Sugar to total sugar	Section 2.6; 6 of FSSAI Manual of Methods of Analysis of Fruit and Vegetable products	0.4 to 95 %
		Acid Insoluble Ash	Section 5.3 of FSSAI Manual of Methods of Analysis of Fruit and Vegetable products	0.01 to 10%
		Ascorbic acid	IS 5838	0.5 mg/100g to 1000 mg/100g
		Acidity as acetic acid or Citric Acid or Lauric Acid	Section 2.4 of FSSAI Manual of Methods of Analysis of Fruit and Vegetable products IS 13844	0.1 to 10%
		Anti Oxidants		
		BHA	AOAC 983.15, AOAC 20th Edition	10 mg/kg to 1000 mg/kg
		TBHQ		10 mg/kg to 1000 mg/kg
		Preservatives		
		Benzoic acid & its sodium & Potassium salt or both (calculated as Benzoic acid)	SOP No.06/44, Issue 2.0, Effective from: 2015/04/15.	10 mg/kg to 3000 mg/kg
		Sorbic acid and its Calcium. Sodium, Potassium. Salt (Calculated as sorbic acid)		10 mg/kg to 3000 mg/kg
		Sulphur dioxide	Section 2.5.3 of FSSAI Manual of Methods of Analysis of Food additives	10 mg/kg to 1000 mg/kg

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		Colors		
		a) Test for Natural colors	Section 4.1 of FSSAI Manual of Methods of Analysis of Food additives	Qualitative
		b) Synthetic		
		Ponceau 4R	SOP No.06/43, Issue 2.0, Effective from 2015/04/22.	10 mg/kg to 1000 mg/kg
		Carmoisine		10 mg/kg to 1000 mg/kg
		Tartarazine		10 mg/kg to 1000 mg/kg
		Sunset yellow FCF		10 mg/kg to 1000 mg/kg
		Artificial Sweeteners		
		Aspartame	SOP No.06/44, Issue 2.0, Effective from: 2015/04/15.	100mg/kg to 1000 mg/kg
		Acesulphame K		100 mg/kg to 1000 mg/kg
		Metals	AOAC 20th Ed., 2015.01 microwave Digestion followed by Sec. 3 of FSSAI Lab Manual for Metals; by AAS / SOP : 06/02, Issue No:8.0, Issue date:2016/06/07;	
		Arsenic		0.1 mg/kg to 10 mg/kg
		Cadmium		0.04 mg/kg to 50 mg/kg
		Lead		0.2 mg/kg to 50 mg/kg
		Copper		1.0 mg/kg to 50 mg/kg
		Tin		1.0 mg/kg to 50 mg/kg
		Zinc		5 mg/kg to 50 mg/kg
		Mercury		0.2 mg/kg to 50 mg/kg
		Pesticide Residues		
		Aldrin	AOAC 20 th Ed., 2007.1 QuEChERS; EN 15662 SOP No.106/25, Issue No:1.0,2016/07/01.	10 µg/kg to 200 µg/kg
		Dieldrin		10 µg/kg to 200 µg/kg
		o,p – DDT		10 µg/kg to 200 µg/kg
		p,p – DDT		10 µg/kg to 200 µg/kg
		o,p – DDD		10 µg/kg to 200 µg/kg
		p,p – DDD		10 µg/kg to 200 µg/kg
		o,p – DDE		10 µg/kg to 200 µg/kg
		p,p – DDE		10 µg/kg to 200 µg/kg
		Dichlorvos		10 µg/kg to 200 µg/kg
		Dicofol		10 µg/kg to 200 µg/kg
		Endosulfan A		10 µg/kg to 200 µg/kg

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		Endosulfan B		10 µg/kg to 200 µg/kg
		Endosulfan Sulphate		10 µg/kg to 200 µg/kg
		Fenitrothion		10 µg/kg to 200 µg/kg
		Alpha-Hexachlorocyclohexane		10 µg/kg to 200 µg/kg
		Beta-Hexachlorocyclohexane		10 µg/kg to 200 µg/kg
		Gamma-Hexachlorocyclohexane		10 µg/kg to 200 µg/kg
		Delta-Hexachlorocyclohexane		10 µg/kg to 200 µg/kg
		Parathion		10 µg/kg to 200 µg/kg
		Parathion methyl		10 µg/kg to 200 µg/kg
		Phosphamidon		10 µg/kg to 200 µg/kg
		Pyrethins I		10 µg/kg to 200 µg/kg
		Pyrethins II		10 µg/kg to 200 µg/kg
		Chlorfenvinphos		10 µg/kg to 200 µg/kg
		Aldicarb		10 µg/kg to 200 µg/kg
		Cypermethrin I		10 µg/kg to 200 µg/kg
		Cypermethrin II		10 µg/kg to 200 µg/kg
		Cypermethrin III		10 µg/kg to 200 µg/kg
		Cypermethrin IV		10 µg/kg to 200 µg/kg
		Fenvalerate		10 µg/kg to 200 µg/kg
		Hexaconazole		10 µg/kg to 200 µg/kg
		Captan		10 µg/kg to 200 µg/kg
		Chlorpyrifos		10 µg/kg to 200 µg/kg
		Diuron	AOAC 20 th Ed., 2007.1	10 µg/kg to 200 µg/kg
		Dodine	QuEChERS; EN 15662	10 µg/kg to 200 µg/kg
		Malathion	SOP No.106/25,	10 µg/kg to 200 µg/kg
		Malaonoxon	Issue No:1.0,2016/07/01.	10 µg/kg to 200 µg/kg
		Carbendazim		10 µg/kg to 200 µg/kg
		Chlorobenzilate		10 µg/kg to 200 µg/kg
		Cymoxanil		10 µg/kg to 200 µg/kg

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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
		Dithianon		10 µg/kg to 200 µg/kg
		Difenoconazole		10 µg/kg to 200 µg/kg
		Dimethomorph – I		10 µg/kg to 200 µg/kg
		Dimethomorph – II		10 µg/kg to 200 µg/kg
		Ethion		10 µg/kg to 200 µg/kg
		Fenarimol		10 µg/kg to 200 µg/kg
		Fenthion		10 µg/kg to 200 µg/kg
		Fenthion sulfone		10 µg/kg to 200 µg/kg
		Fenthion sulphoxide		10 µg/kg to 200 µg/kg
		Formothion / Dimethoate		10 µg/kg to 200 µg/kg
		Hexaconazole		10 µg/kg to 200 µg/kg
		Monocrotophos		10 µg/kg to 200 µg/kg
		Myclobutanil		10 µg/kg to 200 µg/kg
		Novaluron		10 µg/kg to 200 µg/kg
		Penconazole		10 µg/kg to 200 µg/kg
		Phorate		10 µg/kg to 200 µg/kg
		Phorate sulfone		10 µg/kg to 200 µg/kg
		Phorate sulphoxide		10 µg/kg to 200 µg/kg
		Phosalone		10 µg/kg to 200 µg/kg
		Thiometon		10 µg/kg to 200 µg/kg
		Thiometon sulphoxide		10 µg/kg to 200 µg/kg
		Thiophenate methyl		10 µg/kg to 200 µg/kg
		Triadimefon		10 µg/kg to 200 µg/kg
		Trichlorfon		10 µg/kg to 200 µg/kg
		Tridemorph		10 µg/kg to 200 µg/kg
		2,4-D	SOP No.106/25, Issue No:1.0,2016/07/01	10 µg/kg to 200 µg/kg
		Paraquat chloride		10 µg/kg to 200 µg/kg
		Dithiocarbamates		10 µg/kg to 200 µg/kg
		Alfa Naphthyl acetic acid (A.N.A.)		10 µg/kg to 200 µg/kg
		Fosetyl-Al		10 µg/kg to 200 µg/kg
		Ethephon		10 µg/kg to 200 µg/kg

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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
7.	Proprietary/ Ready to eat Foods	Energy (Calories)	Codex Guideline for Nutritional Labelling (Calculation Method)	340 kcal/100 g to 600 kcal/100 g
		Total ash	IS 1155	1.0 % to 25 %
		Acid Insoluble ash	IS 1155	0.05 % to 10%
		Moisture	IS 1155	1.0 % to 40%
		Calories from Fat	Codex Guideline for Nutritional Labelling (Calculation Method)	340 kcal/100 g to 600 kcal/100 g
		Total Fat	AOAC 2003.06, (Hexane Extraction); 20 th Edition	0.1 % to 25 %
		Saturated Fat	AOAC 20 th Ed., 969.33	0.1 % to 100 %
		Monounsaturated Fat		0.1 % to 100 %
		Polyunsaturated Fat		0.1 % to 100 %
		Trans Fat		0.01 % to 100 %
		Cholesterol	AOAC 20 th Ed., 994.10	0.01 % to 10 mg/g
		Common salt	IS 2860	0.5 % to 10%
		Total Carbohydrates	Codex Guideline for Nutritional Labelling (Calculation Method)	10% to 90 %
		Dietary Fiber (on dry basis)	AOAC 985.29, 20 th Edition	0.1 % to 45%
		Sugar	AOAC 906.02; 20 th Edition	1 mg/Kg to 100 mg/kg
		Protein	IS 7219	3 % to 25%
		Vitamin A (Retinol)	SOP 06/27, Issue No: 05 ; Issue Date : 2016.03.01	1 mg/kg to 100 mg/kg
		Vitamin C (Ascorbic acid)	AOAC 2012.21; 20 th Edition	0.1 mg/100g- 40 mg/100g
		Iron	AOAC 20 th Ed., 2016; 2015.01 microwave Digestion followed by Sec. 3 of FSSAI Lab Manual for Metals; by AAS/SOP:106/55, Issue No:1.0, Dated:2016/11/03	2 mg/Kg to 100 mg/kg

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		Sodium	AOAC 20th Ed., 2016; 2015.01 microwave Digestion followed by Sec. 3 of FSSAI Lab Manual for Metals; by Flame photometer	2.0 mg/kg to 50 mg/kg
II.	WATER			
1.	Water for Processed Food Industry	Colour	APHA 22nd Edition, 2120B IS 3025 (Part 4)	1.0 Hazen Unit to 50 Hazen Unit
		Odour	APHA 22nd Edition, 2150B IS 3025 (Part 5)	Unobjectionable / Agreeable
		Turbidity	APHA 22nd Edition, 2130B IS 3025 (Part 10)	1.0 NTU to 40.0 NTU
		pH	APHA 22nd Edition, 4500-H+ IS 3025 (Part 11)	1.0 to 12.0
		Iron as Fe	APHA 22nd Edition, 3500Fe – B	0.05 mg/l to 1.0 mg/l
		Chloride as Cl	APHA 22nd Edition, 4500Cl IS 3025 (Part 32)	5.0 mg/l 1000.0 mg/l
		Total Solids	IS 3025 (Part-15) APHA 22nd Edition, 2540 B	10 mg/l 5000 mg/l
		Magnesium as Mg	APHA 22nd Edition, 3500Mg IS 3025 (Part 46)	10 mg/l 100.0 mg/l
		Total Hardness as CaCO ₃	APHA 21 ST Edition, 2340 C IS 3025 (Part 21)	5.0 mg/l 1000.0 mg/l
		Copper as Cu	APHA 22nd Edition, 3111B IS 3025 (Part 42)	0.05 mg/l 1.0 mg/l
		Manganese as Mn	APHA 22nd Edition, 3111B	0.05 mg/l 1.0 mg/l
		Sulphate as SO ₄	IS 3025 (Part 24) (Turbidity method)	1.0 mg/l 500.0 mg/l

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		Nitrate as N	APHA 22nd Edition, 4500-NO ₃ -E (Spectrophotometric method)	0.1 mg/l to 100.0 mg/l
		Fluoride as F	APHA 22nd Edition 2012, 4500F (SPADNS method) IS 3025 (Part 60) (SPADNS method)	0.1 mg/l to 1.5 mg/l
		Phenolic Compounds as C ₆ H ₅ OH	APHA 22nd Edition, 5530C IS 3025 (Part 43)	0.001 mg/l to 1.0 mg/l
		Selenium as Se	APHA 22nd Edition, 3114B IS 15303	0.005 mg/l to 0.05 mg/l
		Arsenic as As	APHA 22nd Edition, 3114B IS 3025 (Part 37)	0.005 mg/l to 0.25 mg/l
		Lead as Pb	APHA 22nd Edition, 3113B IS 3025 (Part 47)	0.005 mg/l to 0.10 mg/l
		Zinc as Zn	APHA 22nd Edition, 3111B IS 3025 (Part 49)	0.05 mg/l to 1.0 mg/l
		Total Chromium as Cr	APHA 22nd Edition, 3111B Cr	0.001 mg/l to 0.1 mg/l
		Cyanide as CN	APHA 22nd Edition, 4500 CN IS 3025 (Part 27)	0.01 mg/l to 10.0 mg/l
2.	Drinking Water	Colour	APHA 22nd Edition, 2120B IS 3025 (Part 4)	1.0 Hazen Unit to 50 Hazen Unit
		Odour	APHA 22nd Edition, 2150B IS 3025 (Part 5)	Unobjectionable/ Agreeable (Qualitative)
		Taste	IS 3025 (Part 8)	Unobjectionable/ Agreeable (Qualitative)
		Turbidity	APHA 22nd Edition, 2130B IS 3025 (Part 10)	1.0 NTU to 40.0 NTU

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		pH	APHA 22nd Edition, 4500-H+ IS 3025 (Part 11)	1.0 to 12.0
		Specific Conductivity	APHA 22nd Edition, 2510B IS 3025 (Part 14)	1.0µS/cm to 1000µS/cm
		Iron as Fe	APHA 22nd Edition, 3500Fe – B	0.05 mg/l to 1.0 mg/l
		Chloride as Cl	APHA 22nd Edition, 4500Cl	5.0 mg/l to 2000.0 mg/l
		Total Dissolved Solids	APHA 22nd Edition, 2540B IS 3025 (Part 16)	10.0 mg/l to 5000 mg/l
		Calcium as Ca	APHA 22nd Edition, 3500Ca IS 3025 (Part 40)	10 mg/l to 500.0 mg/l
		Magnesium as Mg	APHA 22nd Edition, 3500Mg IS 3025 (Part 46)	0.24 mg/l to 120.0 mg/l
		Total Hardness as CaCO ₃	APHA 21 ST Edition, 2340 C IS 3025 (Part 21)	5.0 mg/l to 1000.0 mg/l
		Copper as Cu	APHA 22nd Edition, 3111B IS 3025 (Part 42)	0.05 mg/l to 1.0 mg/l
		Boron as B	APHA 22nd Edition, 4500B,C	0.50 mg/l to 10.0 mg/l
		Manganese as Mn	APHA 22nd Edition, 3111B	0.05 mg/l to 1.0 mg/l
		Sulphate as SO ₄	IS 3025 (Part 24) (Turbidity method)	1.0 mg/l to 500.0 mg/l
		Nitrate as NO ₃	APHA 22nd Edition, 4500-NO ₃ - E (Spectrophotometric method)	0.4 mg/l to 100 mg/l
		Fluoride as F	APHA 22nd Edition, 4500F (SPADNS method) IS 3025 (Part 60) (SPADNS method)	0.1 1.5 mg/l
		Phenolic Compounds as C ₆ H ₅ OH	APHA 22nd Edition, 5530C IS 3025 (Part 43)	0.001 mg/l to 1.0 mg/l

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		Mercury as Hg	APHA 22nd Edition, 3112B IS 3025 (Part 48)	0.001 mg/l to 0.02 mg/l
		Cadmium as Cd	APHA 22nd Edition , 3111B IS 3025 (Part 41)	0.001 mg/l to 0.02 mg/l
		Selenium as Se	APHA 22nd Edition, 3114B IS 15303	0.005 mg/l to 0.05 mg/l
		Arsenic as As	APHA 22nd Edition, 3114B IS 3025 (Part 37)	0.005 mg/l to 0.05 mg/l
		Lead as Pb	APHA 22nd Edition, 3113B IS 3025 (Part 47)	0.005 mg/l to 0.05 mg/l
		Zinc as Zn	APHA 22nd Edition, 3111B IS 3025 (Part 49)	0.05 mg/l to 10 mg/l
		Nickel as Ni	13428 (Annex L)	0.004 mg/l to 0.1 mg/l
		Antimony as Sb	IS 15303	0.001 mg/l to 0.02 mg/l
		Total Chromium as Cr	APHA 22nd Edition,3111B Cr	0.001 mg/l to 0.1 mg/l
		Alkalinity as CaCO ₃	APHA 22nd Edition, 2320B IS 3025 (Part 23)	5.0 mg/l to 1000.0 mg/l
		Aluminium as Al	APHA 22nd Edition, 3112B	0.01 mg/l to 0.1 mg/l
		Cyanide as CN	APHA 22nd Edition,4500 CN IS 3025 (Part 27)	0.01 mg/l to 10.0 mg/l
		Silver as Ag	APHA 22nd Edition, 3111B IS 13428(Annex J)	0.001 – 0.10 mg/L
		Barium in as Ba	APHA 22nd Edition, 3500	0.5 mg/l to 5.0 mg/l
		Sodium as Na	IS 3025 (Part 45)	1.0 mg/l to 500.0 mg/l
		Potassium as K	IS 3025 (Part 45)	1.0 mg/l to 100.0 mg/l
		Sulphide as H ₂ S	APHA 22nd Edition, 4500S2- D IS 3025 (Part 29)	0.01 mg/l to 0.7 mg/l
		Anionic Surface Active Agents as (MBAS)	APHA 22nd Edition, 5540C	0.02 mg/l to 2.0 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	
		Mineral Oil	IS 3025 (Part 39)	0.1 mg/l to 10.0 mg/l	
		Ammonia (as total ammonia- N)	APHA 22nd Edition, 4500NH ₃ - F IS 3025 (Part 34)	0.1 mg/l to 1.0 mg/l	
		Residual Free Chlorine	IS 3025 (Part 26)	0.1 mg/l to 50 mg/l	
		Chloramines (as Cl ₂)	IS 3025 (part 26)	1 mg/l to 50mg/l	
		Molybdenum as Mo	APHA 22nd Edition, 3111B	0.005 mg/l to 0.100 mg/l	
		Polychlorinated Biphenyls (PCBs)			
		Monochloro biphenyl	Annexure- M ,IS 13428	0.01 µg/l to 0.1 µg/l (each)	
		Di chloro biphenyl			
		Tri chloro biphenyl	US EPA 8082,		
		Tetra chloro biphenyl			
		Penta chloro biphenyl			
		Hexa chloro biphenyl			
		Hepta chloro biphenyl			
		Octa chloro biphenyl			
		Polynuclear aromatic hydrocarbons (PAH)			
		Napthalene,	APHA 22 nd Edition, 6440 US EPA 8270C, Annex N, IS 13428/ SOP No. 106/27, Issue No:1.0, dated 2016/07/11	0.1 µg/l to 1.0 µg/l (each)	
		Anthracene			
		Phenanthrene			
		Chrysene			
		benzo (a) anthracene			
		fluoranthene			
benzo (a) pyrene					
benzo (K) fluoranthene					
indeno (1, 2, 3-cd) pyrene					
benzo (ghi) perylene					
Acenaphthylene					
Acenaphthene					
Fluorene					
Pyrene					
benzo (b) fluoranthene					
dibenzo(a,h) anthracene					

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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
		Pesticide Residues		
		α – HCH	AOAC 990.06, USEPA 508	0.01 µg/l to 0.1 µg/l (each)
		β - HCH		
		δ- HCH		
		γ- HCH (Lindane)	Annex N, IS 13428/ SOP No. 106/27, Issue No:1.0, dated 2016/07/11	
		2,4-DDD		
		2,4-DDE		
		2,4-DDT		
		4,4-DDD	USEPA	
		4,4-DDE	8141A,1657A,525.281, 515.1,525.2,532,507	
		4,4-DDT		
		Endosulphan -α		0.01 µg/l to 0.1 µg/l (each)
		Endosulphan-β		
		Endosulphan-sulphate		
		Monocrotophos		
		Ethion		
		Chlorpyrifos	AOAC 990.06, USEPA 508	
		Phorate		
		Phorate sulfoxide	Annex N, IS 13428/ SOP No. 106/27, Issue No:1.0, dated 2016/07/11	
		Phorate sulphone		
		2,4-D		
		Butachlor		
		Isoproturon		
		Alachlor	USEPA	
		Atrazine	8141A,1657A,525.281,814 1A,	
		Methyl parathion	515.1,525.2,532,507	
		Methyl paraoxon	AOAC 990.06	
		Malathion		
		Malaoxon		
		Aldrin		
		Dieldrin		

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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
3.	Packaged Drinking water/ Packaged Natural Mineral water	Colour	APHA 22nd Edition, 2120B IS 3025 (Part 4)	1.0 Hazen Unit to 50 Hazen Unit
		Odour	APHA 22nd Edition, 2150B IS 3025 (Part 5)	Unobjectionable / Agreeable
		Taste	IS 3025 (Part 8)	Unobjectionable / Agreeable
		Turbidity	APHA 22nd Edition, 2130B IS 3025 (Part 10)	1.0 NTU to 40.0 NTU
		pH	APHA 22nd Edition, 4500-H+ IS 3025 (Part 11)	1.0 to 12.0
		Specific Conductivity	APHA 22nd Edition, 2510B IS 3025 (Part 14)	1.0 μ S/cm to 1000 μ S/cm
		Iron as Fe	APHA 22nd Edition, 3500Fe – B	0.05 mg/l to 1.0 mg/l
		Chloride as Cl	APHA 22nd Edition, 4500Cl IS 3025 (Part 32)	5.0 mg/l to 500.0 mg/l
		Total Dissolved Solids	APHA 22nd Edition, 2540B IS 3025 (Part 16)	10.0 mg/l to 5000 mg/l
		Calcium as Ca	APHA 22nd Edition, 3500Ca IS 3025 (Part 40)	10 mg/l to 200.0 mg/l
		Magnesium as Mg	APHA 22nd Edition, 3500Mg IS 3025 (Part 46)	10 mg/l to 100.0 mg/l
		Total Hardness as CaCO ₃	APHA 21 ST Edition, 2340 C IS 3025 (Part 21)	5.0 mg/l to 500.0 mg/l
		Copper as Cu	APHA 22nd Edition, 3111B IS 3025 (Part 42)	0.05 mg/l to 1.0 mg/l
		Borate as B	IS 13428– 2005, Annex H	0.1 mg/l to 10 mg/l
		Manganese as Mn	APHA 22nd Edition , 3111B	0.05 mg/l to 1.0 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
		Sulphate as SO ₄	IS 3025 (Part 24) (Turbidity method)	1.0 mg/l to 400 mg/l
		Nitrate as NO ₃	APHA 22nd Edition, 4500-NO3- - E (Spectrophotometric method)	0.4 mg/l to 100 mg/l
		Nitrite as NO ₂	APHA 22nd Edition, 4500-NO2- - B (Spectrophotometric method)	0.01 mg/l to 0.1 mg/l
			IS 3025 (Part 34) (Spectrophotometric method)	
		Fluoride as F	APHA 22nd Edition, 4500F (SPADNS method)	0.1 mg/l to 1.5 mg/l
			IS 3025 (Part 60) (SPADNS method)	
		Phenolic Compounds as C ₆ H ₅ OH	APHA 22nd Edition, 5530C/ IS 3025 (Part 43)	0.001 mg/l to 1.0 mg/l
		Mercury as Hg	APHA 22nd Edition, 3112B IS 3025 (Part 48)	0.001 mg/l to 0.02 mg/l
		Cadmium as Cd	APHA 22nd Edition, 3111B IS 3025 (Part 41)	0.001 mg/l to 0.02 mg/l
		Selenium as Se	APHA 22nd Edition, 3114B IS 15303	0.005 mg/l to 0.05 mg/l
		Arsenic as As	APHA 22nd Edition, 3114B IS 3025 (Part 37)	0.005 mg/l to 0.05 mg/l
		Lead as Pb	APHA 22nd Edition, 3113B IS 3025 (Part 47)	0.005 mg/l to 0.05 mg/l
		Zinc as Zn	APHA 22nd Edition, 3111B IS 3025 (Part 49)	0.05 mg/l to 10 mg/l
		Nickel as Ni	IS 13428 (Annex L)	0.004 mg/l to 0.1 mg/l
		Antimony as Sb	IS 15303 & 13428(Annex G)	0.001 mg/l to 0.02 mg/l
		Total Chromium as Cr	APHA 22nd Edition, 3111B Cr	0.001 mg/l to 0.1 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	
		Alkalinity as HCO ₃	APHA 22nd Edition, 2320B IS 3025 (Part 23)	5.0 mg/l to 1000.0 mg/l	
		Aluminium as Al	APHA 22nd Edition, 3112B	0.004 mg/l to 0.10 mg/l	
		Cyanide as CN	APHA 22nd Edition, 4500 CN/ IS 3025 (Part 27)	0.01 mg/l to 10.0 mg/l	
		Silver as Ag	APHA 22nd Edition, 3111B IS 13428(Annex J)	0.001 mg/l to 0.10 mg/l	
		Barium in as Ba	APHA 22nd Edition, 3500	0.5 mg/l to 5.0 mg/l	
		Sodium as Na	IS 3025 (Part 45)	1.0 mg/l to 500 mg/l	
		Potassium as K	IS 3025 (Part 45)	1.0 mg/l to 100 mg/l	
		Sulphide as H ₂ S	APHA 22nd Edition, 4500S2- D	0.01 mg/l to 0.7 mg/l	
			IS 3025 (Part 29)		
		Anionic Surface Active Agents as (MBAS)	APHA 22nd Edition, 5540C	0.02 mg/l to 2.0 mg/l	
		Mineral Oil	IS 3025 (Part 39)	0.01 mg/l to 10.0 mg/l	
		Ammonia (as total ammonia- N)	APHA 22nd Edition, 4500NH ₃ - F	0.1 mg/l to 1.0 mg/l	
			IS 3025 (Part 34)		
		Residual Free Chlorine	IS 3025 (Part 26)	0.1 mg/l to 50 mg/l	
		Bromate (as BrO ₃)	ISO 15061; EPA 300.1, (Ion Chromatography)	0.002 mg/l to 0.02 mg/l	
		Polychlorinated Biphenyls (PCBs)			
		Monochloro bi phenyl	Annexure- M ,IS 13428 US EPA 8082,	0.01 µg/l to 0.1 µg/l (each)	
		Di chloro bi phenyl			
		Tri chloro bi phenyl			
		Tetra chloro bi phenyl			
		Penta chloro bi phenyl			
		Hexa chloro bi phenyl			
Hepta chloro bi phenyl					
Octa chloro bi phenyl					

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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
		Polynuclear aromatic hydrocarbons (PAH)		
		Napthalene,	APHA 22 nd Edition, 6440	0.01 µg/l to 1.0 µg/l (each)
		Anthracene		
		Phenanthrene		
		Chrysene		
		benzo (a) anthracene		
		fluoranthene		
		benzo (a) pyrene		
		Benzo (k) fluoranthene		
		indeno (1, 2, 3-cd) pyrene		
		benzo (ghi) perylene		
		Acenaphthylene		
		Acenaphthene		
		Fluorene		
		Pyrene		
		benzo (b) fluoranthene		
		dibenzo(a,h) anthracene		
		Pesticide Residues		
		α – HCH	Annex N, IS 13428 / SOP No. 106/27, Issue No:1.0, dated2016/07/11	0.01 µg/l to 0.1 µg/l (each)
		β - HCH		
		δ- HCH		
		γ- HCH (Lindane)		
		2,4-DDD	USEPA 8141A,1657A,525.281, 515.1,525.2,532,507 AOAC 990.06	
		2,4-DDE		
		2,4-DDT		
		4,4-DDD		

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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
		4,4-DDE	Annex N, IS 13428/ SOP No. 106/27, Issue No:1.0, dated 2016/07/11	0.01 µg/l to 0.1 µg/l (each)
		4,4-DDT		
		Endosulphan -α	USEPA 8141A, 1657A, 525.281, 814 1A, 515.1, 525.2, 532, 507 AOAC 990.06	
		Endosulphan-β		
		Endosulphan-sulphate		
		Monocrotophos		
		Ethion		
		Chlorpyrifos		
		Phorate		
		Phorate sulphoxide		
		Phorate sulphone		
		2,4-D		
		Butachlor		
		Isoproturon		
		Alachlor		
		Atrazine		
		Methyl parathion		
		Methyl paraoxon		
		Malathion		
		Malaoxon		
		Aldrin		
		Dieldrin		

***NOTE:** The Laboratory has demonstrated competence for the stated scope for **WATER**. This however **does not fully cover** the specification requirements of **BIS for the Packaged Drinking Water as per IS:14543 and the Packaged Natural Mineral Water IS:13428**.