

Laboratory **Vimta Labs Limited, 1<sup>st</sup> & 2<sup>nd</sup> Floor, #1047, Rukmini Plaza, 20<sup>th</sup> Main, 5<sup>th</sup> Block, West of Chord Road, Rajajinagar, Bangalore, Karnataka**

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

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Validity **26.12.2017 to 25.12.2019** Last Amended on 06.08.2018

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 & AGRICULTURE PRODUCTS			
1.	<b>Beverages (Alcoholic- Wine, Beer, Brandy, Rum, Whisky, Scotch, Vodka, Gin)</b>	Coliform Count	IS 3752	≥100 CFU/ml
		Escherichia coli	IS 5887 (Part 1)	Qualitative (Absent or Present/ml)
		Total Plate Count	IS 5402/ISO 4833	≥100 CFU/ml
		Yeast & Mould Count	IS 5403	≥100 CFU/ml
2.	<b>Beverages (Non-Alcoholic- Carbonated Drinks &amp; Fermented fruit juice)</b>	Coliform Count	IS 5401 (Part 1)/ISO 4832	≥1 CFU/ml
		Escherichia coli	IS 5887 (Part 1)	Qualitative (Absent or Present/25ml)
		Total Plate Count	IS 5402/ISO 4833	≥1 CFU/ml
		Yeast & Mould Count	IS 5403	≥1 CFU/ml
3.	<b>Fruit &amp; Fruit Products (Raw Fruit products/ Thermally and other processed products/ Dehydrated fruits, Fruit based jam, Concentrated fruit juice, Fruit juice &amp; Proprietary products)</b>	Coliform Count	IS 5401 (Part 1)/ISO 4832	≥1 CFU/ml/≥10 CFU/gm
		Total Plate Count	IS 5402/ISO 4833	≥1 CFU/ml/≥10 CFU/gm
		Yeast & Mould Count	IS 5403	≥1CFU/ml/≥10 CFU/gm
		Escherichia coli	IS 5887 (Part 1)	Qualitative (Absent or Present/25gm or 25ml)
		Salmonella	IS 5887 (Part 3)/ISO 6579	Qualitative (Absent or Present/25gm or 25ml)
		Shigella	IS 5887 (Part 7)	Qualitative (Absent or Present/25gm or 25ml)
	Staphylococcus aureus	IS 5887 (Part 2)	Qualitative (Absent or Present/25gm or 25ml)	

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			IS 5887(Part8/Sec1)/ISO6887-1	≥10CFU/ml/≥100CFU/gm
		Vibrio cholerae	IS 5887 (Part 5)	Qualitative (Absent or Present/25gm or 25ml)
		Listeria monocytogens	IS 14988 (Part 1)	Qualitative (Absent or Present/25gm or 25ml)
		Incubation Test @37°C/10 days & @55°C/7 days	FSSAI Lab Manual 14	Qualitative (No changes in pH)
4.	Milk & Dairy Products (Raw Milk, Standardized Milk, Toned Milk, Skimmed Milk, Pasteurized Milk, Boiled Milk, Evaporated Milk, Butter Milk, Curd, Panner, Chesse, Yoghurt, Milk Powder, Peanut Butter & Other Processed Milk Products)	Coliform Count	IS 5401 (Part 1)/ISO 4832	≥1 CFU/ml/≥10 CFU/gm
			IS 5401 (Part 2)/ISO 4831	Qualitative (Absent or Present/25gm or 25ml)
			IS 5401 (Part 2)/ISO 4831	(0.30 to 110.0) x 10 <sup>n</sup> MPN/gm or ml
		Total Plate Count	IS 5402/ISO 4833	≥1 CFU/ml/≥10 CFU/gm
		Yeast & Mould Count	IS 5403	≥1 CFU/ml/≥10 CFU/gm
		Escherichia coli	IS 5887 (Part 1)	Qualitative (Absent or Present/25gm or 25ml)
		Salmonella	IS 5887 (Part 3)/ISO 6579	Qualitative (Absent or Present/25gm or 25ml)
		Shigella	IS 5887 (Part 7)	Qualitative (Absent or Present/25gm or 25ml)
		Staphylococcus aureus	IS 5887 (Part 2)	Qualitative (Absent or Present/25gm or 25ml)
			IS 5887 (Part 8/Sec 1)/ISO 6888-1	≥10 CFU/gm or ml/≥100 CFU/gm

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		Bacillus cereus	IS 5887 (Part 6)/ISO 7932	≥10 CFU/ml/≥100 CFU/gm
		Clostridium perfringens	IS 5887 (Part 4)	≥10 CFU/gm or ml ≥100 CFU/gm
		Listeria monocytogens	IS 14988 (Part 1)	Qualitative (Absent or Present/25gm or 25ml)
5.	<b>Snacks &amp; Instant mixes (Veg Cutlet, Sandwich, Vegetable Based Snack, Cereal Based Snack, Other Traditional Snack, Biscuit, Cereal Based Instant Mix, Vegetable Based Instant Mix, Proprietary Food, Crispy Rice Terets, Chips, Cooked Foods And Ready to Eat Food)</b>	Coliform Count	IS 5401 (Part 1)/ISO 4832	≥1 CFU/ml/≥10 CFU/gm
		Total Plate Count	IS 5402/ISO 4833	≥1 CFU/ml/≥10 CFU/gm
		Yeast & Mould Coun	IS 5403	≥1 CFU/ml/≥10 CFU/gm
		Escherichia coli	IS 5887 (Part 1)	Qualitative (Absent or Present/25gm or 25ml)
		Salmonella	IS 5887 (Part 3)/ISO 6579	Qualitative (Absent or Present/25gm or 25ml)
		Staphylococcus aureus	IS 5887 (Part 2)	Qualitative (Absent or Present/25gm or 25ml)
			IS 5887 (Part 8/Sec 1)/ ISO 6888-1	≥10 CFU/ml ≥100 CFU/gm
		Bacillus cereus	IS 5887 (Part 6)/ISO 7932	≥10 CFU/ml ≥100 CFU/gm
		Vibrio cholerae	IS 5887 (Part 5)	Qualitative (Absent or Present/25gm or 25ml)
	Listeria monocytogens	IS 14988 (Part 1)	Qualitative (Absent or Present/25gm or 25ml)	
6.	<b>Vegetables &amp; Vegetable Products (Raw Products/ Thermally Processed)</b>	Coliform Count	IS 5401 (Part 1)/ISO 4832	≥1 CFU/ml/≥10 CFU/gm
		Total Plate Count	IS 5402/ISO 4833	≥1 CFU/ml/≥10 CFU/gm
		Yeast & Mould Count	IS 5403	≥1 CFU/ml/≥10 CFU/gm
		Escherichia coli	IS 5887 (Part 1)	Qualitative (Absent or Present/25gm or 25ml)

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	<b>Products/ Dehydrated Vegetable, Concentrated Vegetable juice, Pickles)</b>	Salmonella	IS 5887 (Part 3)/ISO 6579	Qualitative (Absent or Present/25gm or 25ml)
		Shigella	IS 5887 (Part 7)	Qualitative (Absent or Present/25gm or 25ml)
		Staphylococcus aureus	IS 5887 (Part 2)	Qualitative (Absent or Present/25gm or 25ml)
			IS 5887 (Part 8/Sec 1)/ ISO 6888-1	≥10 CFU/ml ≥100 CFU/gm
		Vibrio cholerae	IS 5887 (Part 5)	Qualitative (Absent or Present/25gm or 25ml)
		Listeria monocytogens	IS 14988 (Part 1)	Qualitative (Absent or Present/25gm or 25ml)
		Incubation Test (i) @37°C/10 days (ii) @55°C/7 days	FSSAI Lab Manual 14	Qualitative (No changes in pH)
<b>II.</b>	<b>WATER</b>			
<b>1.</b>	<b>Domestic and Potable Water</b>	Total Colifoms	IS 1622	<2 to 1600 MPN/100ml
		Escherichia coli	IS 1622	<2 to 1600 MPN/100ml
<b>2.</b>	<b>Packaged Drinking Water</b>	Aerobic Microbial Count at 22°C	IS 5402/ISO 4833	≥1 CFU/ml
		Aerobic Microbial Count at 37°C	IS 5402/ISO 4833	≥1 CFU/ml
		Yeast & Mould Count	IS 5403	Qualitative (Absent or Present/250ml)
		Pseudomonas aeruginosa	IS 13428(Annex.D)	Qualitative (Absent or Present/250ml)
		Coliforms & E. coli	IS 15185/ISO 9308-I	Qualitative (Absent or Present/250ml)

**Rini Narayan**  
Convenor

**Venugopal C**  
Program Manager

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		Staphylococcus aureus	IS 5887(Part-2)	Qualitative (Absent or Present/250ml)
		Faecal Streptococci	IS 15186	Qualitative (Absent or Present/250ml)
		Shigella	IS 5887 (Part-7)	Qualitative (Absent or Present/250ml)
		Salmonella	IS 15187/ISO 6340	Qualitative (Absent or Present/250ml)
		Vibrio cholerae	IS 5887 (Part-5)	Qualitative (Absent or Present/250ml)
		Vibrio parahaemolyticus	IS 5887 (Part-5)	Qualitative (Absent or Present/250ml)
		Sulphite Reducing Anaerobes	IS 13428 (Annex-C)	Qualitative (Absent or Present/50ml)
<b>3.</b>	<b>Water for Processed Food Industry</b>	Standard Plate Count	IS 1622	≥1 CFU/ml
		Coliform	IS 1622	<2 to 1600 MPN/100ml
		Proteolytic bacteria	IS 4251 (Appendix A-1)	≥1 CFU/ml
		Lipolytic bacteria	IS 4251 (Appendix A-2U)	≥1 CFU/ml
		Thermophilic bacteria	IS 4251 (Appendix A-3)	≥1 CFU/ml
<b>III.</b>	<b>NUTRACEUTICALS AND FUNCTIONAL FOOD</b>			
<b>1</b>	<b>Fortified Food</b>	Coliform Count	IS 5401 (Part 1)/ISO 4832	≥10 CFU/gm
		Total Plate Count	IS 5402, ISO 4833	≥10 CFU/gm
		Yeast & Mould Count	IS 5403	≥10 CFU/gm
		Escherichia coli	IS 5887 (Part 1)	Qualitative (Absent or Present/25gm)
		Shigella	IS 5887 (Part 7)	Qualitative (Absent or Present/25gm)
		Staphylococcus aureus	IS 5887 (Part 2)	Qualitative (Absent or Present/25gm)
			IS 5887 (Part 8/Sec 1): ISO 6888-1	≥ 100 CFU/gm

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<b><u>CHEMICAL TESTING</u></b>				
<b>I.</b>	<b>FOOD &amp; AGRICULTURAL PRODUCTS</b>			
<b>1.</b>	<b>Milk &amp; dairy Products (Milk, Flavoured milk, Condensed milk, Butter milk, Yogurt, Curd, Butter, Ghee, Milk powder, Skimmed milk powder, Dried Milk, Whey powder, Casein, Whey Protein, Cheese, Proprietary food(Milk based), Ice cream, Processed milk products)</b>	Total fat	FSSAI Manual for Milk and Milk Products, S.No. 1.3.4.2	0.1 g/100g to 100 g/100g
		Milk Solids	FSSAI Manual for Milk and Milk Products, S.No. 4.5	0.1 g/100g to 20 g/100g
		Milk solids non fat	FSSAI Manual for Milk and Milk Products, S.No. 15.2	0.1 g/100g to 15 g/100g
		Ash insoluble in Dil HCl	FSSAI Manual for Milk and Milk Products, S.No. 10.8	0.01 g/100g to 2 g/100g
		Milk fat	FSSAI Manual for Milk and Milk Products, S.No. 15.3	0.1 g/100g to 50 g/100g
		Moisture	FSSAI Manual for Milk and Milk Products, S.No. 10.2	0.1 g/100g to 90 g/100g
		Total Solids	FSSAI Manual for Milk and Milk Products, S.No. 1.3.3	0.1 g/100g to 99 g/100g
		Total Protein	FSSAI Manual for Milk and Milk Products, S.No.19.4, 7.5, 14.4, 15.4	0.5 g/100g to 90 g/100g
		Milk Protein in Milk Solids not Fat of Cream Powder	FSSAI Manual for Milk and Milk Products, S.No. 3.4	10 g/100g to 60 g/100g
		Common salt	FSSAI Manual for Milk and Milk Products, S.No. 12.4	0.05 g/100g to 20 g/100g
		Refractive index at 40°C	FSSAI Manual for Milk and Milk Products, S.No. 13.3	40.0 to 45.0
		Reichert Meissel value	FSSAI Manual for Milk and Milk Products, S.No. 13.5	1 to 50
		FFA as oleic acid	FSSAI Manual for Milk and Milk Products, S.No. 13.4	0.1 g/100g to 10 g/100g

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		Peroxide Value	FSSAI Manual for Milk and Milk Products, S.No. 13.9	0.1 meq/Kg to 20 meq/Kg
		Boudouins Test	FSSAI Manual for Milk and Milk Products, S.No. 13.6	Qualitative
		Total ash	FSSAI Manual for Milk and Milk Products, S.No. 14.6	0.1 g/100g to 10 g/100g
		Titration acidity (as lactic acid)	FSSAI Manual for Milk and Milk Products, S.No. 14.5, 9.5	0.1 g/100g to 10 g/100g
		Sugar (Sucrose)	FSSAI Manual for Milk and Milk Products, S.No. 9.4.1	1.0 g/100g to 40 g/100g
		pH	FSSAI Manual for Milk and Milk Products, S.No. 16.6	2 to 13
		Energy	IS 14433	50 Kcal/100g to 900 Kcal/100g
		Carbohydrates	AOAC 20 <sup>th</sup> Edition, 986.25, IS 1656	5 g/100g to 80 g/100g
		<b>Fatty Acids</b>		
		Saturated Fatty Acids	AOAC 20 <sup>th</sup> Edition, 969.33	0.01 g/100g to 40 g/100g
		Mono unsaturated fatty acids	AOAC 20 <sup>th</sup> Edition, 969.33	0.01 g/100g to 40 g/100g
		Poly unsaturated fatty acids	AOAC 20 <sup>th</sup> Edition, 969.33	0.01 g/100g to 80 g/100g
		Trans fatty acids	AOAC 20 <sup>th</sup> Edition, 969.33	0.01 g/100g to 5 g/100g
		<b>Sterols</b>		
		Cholesterol	AOAC 20 <sup>th</sup> Edition, 994.10	10 mg/Kg to 1000 mg/Kg
		<b>Antioxidants</b>		
		BHA	AOAC 20 <sup>th</sup> Edition 983.15	5 mg/Kg to 300 mg/Kg
		TBHQ	AOAC 20 <sup>th</sup> Edition 983.15	5 mg/Kg to 300 mg/Kg
		<b>Adulteration tests</b>		
		Urea	FSSAI Manual for Milk and Milk Products, S.No.1.2.4.1	Qualitative
		added starch	FSSAI Manual for Milk and Milk Products, S.No.1.2.2.1	Qualitative

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		cane sugar	FSSAI Manual for Milk and Milk Products, S.No.1.2.1.1	Qualitative
		glucose	FSSAI Manual for Milk and Milk Products, S.No.1.2.7.1	Qualitative
		anionic detergents	FSSAI Manual for Milk and Milk Products, .No.1.2.14.1	Qualitative
		neutralizers	FSSAI Manual for Milk and Milk Products, S.No.1.2.11	Qualitative
		Sodium chloride	FSSAI Manual for Milk and Milk Products, S.No.1.2.8	Qualitative
		Cellulose	FSSAI Manual for Milk and Milk Products, S.No.1.2.3.1	Qualitative
		Ammonium compounds	FSSAI Manual for Milk and Milk Products, S.No.1.2.5.1	Qualitative
		Sulphates	FSSAI Manual for Milk and Milk Products, S.No.1.2.6.1	Qualitative
		<b>Preservatives</b>		
		Benzoic acid and its sodium and potassium salt	SOP NO:106/146, Issue no.1.0, Issued on 2017-08-31	25 mg/Kg to 1000 mg/Kg
		Sorbic Acid and its Sodium, Potassium and Calcium salts	SOP NO:106/146, Issue no.1.0, Issued on 2017-08-31	25 mg/Kg to 1000 mg/Kg
		<b>added colours</b>		
		added Natural colours	FSSAI Manual for food additives, S.No.4.1	Qualitative
		added synthetic colours	FSSAI Manual for food additives, S.No.4.2.1	Qualitative
		<b>Artificial Sweeteners</b>		
		Aspartame	SOP NO:106/146, Issue no.1.0, Issued on 2017-08-31	50 mg/Kg to 2000 mg/Kg
		Acesulfame-K	FSSAI Manual for food additives, S.No.3.5	10 mg/Kg to 1000 mg/Kg



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2.	<b>Fruit &amp; Fruit Products (Raw fruits and processed fruit products, Proprietary food (Fruit based), Pickles, Jellies)</b>	Moisture content	FSSAI Manual for Fruits and Vegetables Products, S.No. 4.1	0.1 g/100g to 90 g/100g
		pH	FSSAI Manual for Fruits and Vegetables Products, S.No. 2.3	2 to 13
		Total Ash	FSSAI Manual for Fruits and Vegetables Products, S.No. 11.3	0.1 g/100g to 10 g/100g
		Ash insoluble in Dil HCL	FSSAI Manual for Fruits and Vegetables Products, S.No. 5.3	0.01 g/100g to 2 g/100g
		Total soluble solids	FSSAI Manual for Fruits and Vegetables Products, S.No. 1.6	1 g/100g to 80 g/100g
		Total Sugars	FSSAI Manual for Fruits and Vegetables Products, S.No. 2.6	1.0 g/100g to 80 g/100g
		Acidity (Acetic acid/Citric Acid/Maleic acid/ Tartaric acid/Lactic acid)	FSSAI Manual for Fruits and Vegetables Products, S.No. 2.4	0.1 g/100g to 10 g/100g
		Ascorbic acid	FSSAI Manual for Fruits and Vegetables Products, S.No. 2.8	(10 to 1000) mg/100ml or mg/100g
		<b>Preservatives</b>		
		Benzoic acid and its sodium and potassium salt	SOP NO:106/146, Issue no.1.0, Issued on 2017-08-31	25 mg/Kg to 1000 mg/Kg
		Sulphur Dioxide	FSSAI Manual for Fruits and Vegetables Products, S.No. 17.7	10 mg/Kg to 1000 mg/Kg

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		Sorbic acid and its sodium, potassium and calcium salt	SOP NO:106/146, Issue no.1.0, Issued on 2017-08-31	25 mg/Kg to 1000 mg/Kg
		<b>Naturally Occurring Toxic Substances</b>		
		Safrole	SOP NO:106/149, Issue no.1.0, Issued on 2017-08-31	4 mg/Kg to 80 mg/Kg
		Agaric acid	SOP NO:106/148, Issue no.1.0, Issued on 2017-08-31	50 mg/Kg to 500 mg/Kg
		Hydrocyanic acid	AOAC 20 <sup>th</sup> Edition, 920.144	5 mg/Kg to 50 mg/Kg
		<b>Added colours</b>		
		Added Natural colours	FSSAI Manual for food additives, S.No.4.1	Qualitative
Added synthetic colours	FSSAI Manual for food additives, S.No.4.2.1	Qualitative		
3.	<b>Vegetable &amp; Vegetable Products (Raw vegetables and processed vegetable products, Proprietary food (Vegetable based), Pickles)</b>	Moisture content	FSSAI Manual for Fruits and Vegetables Products, S.No. 4.1	0.1 g/100g to 90 g/100g
		pH	FSSAI Manual for Fruits and Vegetables Products, S.No. 2.3	2 to 13
		Total Ash	FSSAI Manual for Fruits and Vegetables Products, S.No. 11.3	0.1 g/100g to 10 g/100g
		Ash insoluble in Dil HCL	FSSAI Manual for Fruits and Vegetables Products, S.No. 5.3	0.01 g/100g to 2 g/100g
		Total soluble solids	FSSAI Manual for Fruits and Vegetables Products, S.No. 1.6	1 g/100g to 80 g/100g
		Total Sugars	FSSAI Manual for Fruits and Vegetables Products, S.No. 2.6	1.0 g/100g to 80 g/100g

Rini Narayan  
Convenor

Venugopal C  
Program Manager

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		Acidity (Acetic acid/Citric Acid/Maleic acid/Tartaric acid/Lactic acid)	FSSAI Manual for Fruits and Vegetables Products, S.No. 2.4	0.1 g/100g to 10 g/100g
		Ascorbic acid	FSSAI Manual for Fruits and Vegetables Products, S.No. 2.8	10 mg/100g to 1000 mg/100g
		<b>Preservatives</b>		
		Benzoic acid and its sodium and potassium salt	SOP NO:106/146, Issue no.1.0, Issued on 2017-08-31	25 mg/Kg to 1000 mg/Kg
		Sulphur Dioxide	FSSAI Manual for Fruits and Vegetables Products, S.No. 17.7	10 mg/Kg to 1000 mg/Kg
		Sorbic acid and its sodium, potassium and calcium salt	SOP NO:106/146, Issue no.1.0, Issued on 2017-08-31	25 mg/Kg to 1000 mg/Kg
		<b>Naturally Occurring Toxic Substances</b>		
		Hydrocyanic acid	AOAC 20 <sup>th</sup> Edition, 920.144	5 mg/Kg to 50mg/Kg
		Agaric acid	SOP NO:106/148, Issue no.1.0, Issued on 2017-08-31	50 mg/Kg to 500 mg/Kg
		<b>Added colours</b>		
		Added Natural colours	FSSAI Manual for food additives, S.No.4.1	Qualitative
		Added synthetic colours	FSSAI Manual for food additives, S.No.4.2.1	Qualitative
4	<b>Jam (Fruit based), Juices, Sauces and Concentrates Sauces (Cereal based, Vegetable based),</b>	Moisture content	FSSAI Manual for Fruits and Vegetables Products, S.No. 4.1	0.1 g/100g to 90 g/100g
		pH	FSSAI Manual for Fruits and Vegetables Products, S.No. 2.3	2 to 13

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	<b>Concentrates (Fruits and vegetable based)</b>	Total Ash	FSSAI Manual for Fruits and Vegetables Products, S.No. 11.3	0.1 g/100g to 10 g/100g
		Ash insoluble in Dil HCL	FSSAI Manual for fruits and Vegetables Products, S.No. 5.3	0.01 g/100g to 2 g/100g
		Total soluble solids	FSSAI Manual for Fruits and Vegetables Products, S.No. 1.6	1 g/100g to 80 g/100g
		Total Sugars	FSSAI Manual for Fruits and Vegetables Products, S.No. 2.6	1.0 g/100g to 80 g/100g
		Acidity (Acetic acid/Citric Acid/ Maleic acid/Tartaric acid/Lactic acid)	FSSAI Manual for Fruits and Vegetables Products, S.No. 2.4	0.1 g/100g to 10 g/100g
		Ascorbic acid	FSSAI Manual for Fruits and Vegetables Products, S.No. 2.8	(10 to 1000) mg/100ml or mg/100g
		Sodium Chloride	FSSAI Manual for Fruits and Vegetables Products, S.No. 1.7	0.1 g/100g to 20 g/100g
		<b>Preservatives</b>		
		Benzoic acid and its sodium and potassium salt	SOP NO:106/146, Issue no.1.0, Issued on 2017-08-31	25 mg/Kg to 1000 mg/Kg
		Sulphur Dioxide	FSSAI Manual for Fruits and Vegetables Products, S.No. 17.7	10 mg/Kg to 1000 mg/Kg
		Sorbic acid and its sodium, potassium and calcium salt	SOP NO:106/146, Issue no.1.0, Issued on 2017-08-31	25 mg/Kg to 1000 mg/Kg
		<b>Added colours</b>		
	Added Natural colours	FSSAI Manual for food additives, S.No.4.1	Qualitative	

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		<b>Synthetic colours</b>		
		Ponceau 4R	SOP No:106/151, Issue no.:1.0, Issued on 2017-08-31	20 mg/Kg to 1000 mg/Kg
		Carmoisine	SOP No:106/151, Issue no.:1.0, Issued on 2017-08-31	20 mg/Kg to 1000 mg/Kg
		Tartrazine	SOP No:106/151, Issue no.:1.0, Issued on 2017-08-31	20 mg/Kg to 1000 mg/Kg
		Sunset yellow FCF	SOP No:106/151, Issue no.:1.0, Issued on 2017-08-31	20 mg/Kg to 1000 mg/Kg
		<b>Artificial Sweeteners</b>		
		Aspartame	SOP NO:106/146, Issue no.1.0, Issued on 2017-08-31	50 mg/Kg to 2000 mg/Kg
		Acesulfame-K	FSSAI Manual for food additives, S.No.3.5	10 mg/Kg to 1000 mg/Kg
		<b>Naturally Occurring Toxic Substances</b>		
		Safrole	SOP NO:106/149, Issue no.1.0, Issued on 2017-08-31	4 mg/Kg to 80 mg/Kg
		Hydrocyanic acid	AOAC 20 <sup>th</sup> Edition, 920.144	5 mg/Kg to 50mg/Kg
5.	<b>Beverages (Alcoholic): (Wine, Beer, Brandy, Rum, Whisky)</b>	Alcoholic content	IS 3752	1 % to 60 % v/v
		Total acid as tartaric acid	IS 3752	(5 to 1500) g/100 L abs. alcohol
		Volatile acid as acetic acid	IS 3752	(5 to 1500) g/100 L abs. alcohol
		Residue on evaporation	IS 3752	0.5 % to 20 % w/v
		Ash	IS 3752	0.01 % to 5% w/v
		Esters as ethyl acetate	IS 3752	(10 to 2000) g/100 L abs alcohol

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		Higher alcohols as amyl alcohol	IS 3752 (Method 1)	Qualitative
		Aldehydes as acetaldehyde	IS 3752	(10 to 2000) g/100 L abs alcohol
		Furfural	IS 3752	(5 to 200) g/100 L of abs alcohol
		Reducing residual sugar	IS 7585	0.5 g/100 ml to 10 g/100 ml
		pH	IS 7585	2 to 13
		Total sulphur dioxide	IS 7585	10 mg/L to 1000 mg/L
		Extracts	IS 7585 (Method 6.2)	0.1 g/100g to 20 g/100ml
		Tannins	IS 7585 (Method 8.2)	0.1 g/L to 10 g/L
<b>II.</b>	<b>NUTRACEUTICALS AND FUNCTIONAL FOODS</b>			
<b>1.</b>	<b>Fortified food: (Cereal and Milk Based Proprietary Foods)</b>	Moisture	AOAC 20 <sup>th</sup> Edition, 935.29	0.5 g/100g to 50 g/100g
		Protein content	AOAC 20 <sup>th</sup> Edition, 950.09	1.0 g/100g to 50 g/100g
		Fat content	AOAC 20 <sup>th</sup> Edition, 932.06	1.0 g/100g to 50 g/100g
		Total sugars	FSSAI Manual for Fruits and Vegetables Products, S.No. 2.6	1.0 g/100g to 50 g/100g
		Total carbohydrates	AOAC 20 <sup>th</sup> Edition, 986.25, IS 1656	1.0 g/100g to 50 g/100g
		Total Ash	AOAC 20 <sup>th</sup> Edition, 942.05	0.5 g/100g to 10 g/100g
		Energy	IS 14433	(50 to 600) Kcal/100g
		Crude fiber	GAFTA Method 9.0	1.0 g/100g to 20 g/100g
		Dietary fiber	AOAC 20 <sup>th</sup> Edition, 991.43	1.0 g/100g to 30 g/100g
		<b>Fatty acids</b>		
		Saturated Fatty acids	AOAC 20 <sup>th</sup> Edition, 969.33	0.01 g/100g to 10 g/100g
		Mono unsaturated fatty acids		0.01 g/100g to 10 g/100g
		Poly unsaturated fatty acids		0.01 g/100g to 10 g/100g
		Trans fatty acids		0.01 g/100g to 5 g/100g

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		<b>Sterols</b>		
		Cholesterol	AOAC 20 <sup>th</sup> Edition,994.10	10 mg/Kg to 750 mg/Kg
		<b>Vitamins</b>		
		Thiamine (Vitamin B1-Thiamine Hydrochloride)	SOP No.: 106/150 Issue No. : 2.0, Issued on 2017-10-30	5.0 mg/Kg to 500 mg/Kg
		Riboflavin (Vitamin B2)	SOP No.: 106/150 Issue No. : 2.0, Issued on 2017-10-30	5.0 mg/Kg to 1000 mg/Kg
		Niacin (Vitamin B3- Nicotinic acid and Niacinamide)	SOP No.: 106/150 Issue No. : 2.0, Issued on 2017-10-30	5.0 mg/Kg to 500 mg/Kg
		Pyridoxin (Vitamin B6- Pyridoxine Hydrochloride)	SOP No.: 106/150 Issue No. : 2.0, Issued on 2017-10-30	5.0 mg/Kg to 500 mg/Kg
		Folic acid (Vitamin B9)	SOP No.: 106/150 Issue No. : 2.0, Issued on 2017-10-30	0.5 mg/Kg to 50 mg/Kg
		Pantothenic acid (Vitamin B5- Pantothenic acid hemi calcium salt)	SOP No.: 106/150 Issue No. : 2.0, Issued on 2017-10-30	2.0 mg/Kg to 500 mg/Kg
		Vitamin -A (Retinyl acetate)	SOP No.:106/147, Issue No.:1.0, Issued on 2017-08-31	1.0 mg/Kg to 500 mg/Kg
		Vitamin-E (dl- $\alpha$ -Tocopheryl acetate)	SOP No.:106/147, Issue No.:1.0, Issued on 2017-08-31	1.0 mg/Kg to 500 mg/Kg
		Cholecalciferol (Vitamin D3)	SOP No.:106/147, Issue No.:1.0, Issued on 2017-08-31	1.0 mg/Kg to 500 mg/Kg

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III	<b>RESIDUES IN FOOD PRODUCTS</b>			
A.	<b>Mycotoxins</b>			
1.	<b>Milk &amp; Dairy products (Liquid Milk, processed milk products)</b>	Aflatoxin M1	AOAC 20 <sup>th</sup> Edition, 2000.8	0.1 µg/L to 1000 µg/L
2.	<b>Jams, Juices, Sauces and Concentrates (Apple juice)</b>	Patulin	AOAC 20 <sup>th</sup> Edition, 995.10	20 µg/L to 200 µg/L
B.	<b>Pesticides</b>			
1.	<b>Milk &amp; dairy Products (Milk, Flavoured milk, Condensed milk, Butter milk, Yogurt, Curd, Butter, Ghee, Milk powder, Skimmed milk powder, Dried Milk, Whey powder, Casein, Whey Protein, Cheese, Proprietary food (Milk based), Ice cream, Processed milk products)</b>	Aldrin Dieldrin Chlordane o,p-DDT o,p-DDE o,p-DDD p,p-DDT p,p-DDE p,p-DDD Fenitrothion Heptachlor Alpha HCH Beta HCH Lindane Delta HCH Chlorfenvinphos Chlorpyrifos 2,4-D Ethion Monocrotophos Paraquat Dichloride Trichlorfon Carbendazim	AOAC 20 <sup>th</sup> Edition, 2007.01; QuEChERS; EN 15662, SOP:106/29, Issued on 2016.08.12 Issue No:1.0	0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg



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		Benomyl Carbofuran (sum of carbofuran and 3-hydroxy carbofuran express as Cabofuran) Cypermethrin Edifenfos Fenthion Fenvalerate Phenthoate Phorate Pirimiphos methyl		0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg  0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg
2.	Fruit and Fruit products, Vegetable and vegetable products, Jam, Juices, Sauces and Concentrates	Aldrin Dieldrin Chlordane o,p-DDT o,p-DDE o,p-DDD p,p-DDT p,p-DDE p,p-DDD Dichlorvos Dicofol Dimethoate Endosulfan I Endosulfan II Endosulfan Sulfate Fenitrothion Heptachlor Alpha HCH Beta HCH Lindane Delta HCH Malathion	AOAC 20 <sup>th</sup> Edition, 2007.01; QuEChERS; EN 15662, NRL Method, SOP:106/25, Issued on 2016.07.07 Issue no.:1.0	0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg 0.02 mg/Kg to 0.4 mg/Kg 0.02 mg/Kg to 0.4 mg/Kg 0.02 mg/Kg to 0.4 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg 0.01 mg/Kg to 0.2 mg/Kg

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		Parathion		0.01 mg/Kg to 0.2 mg/Kg
		Parathion Methyl		0.01 mg/Kg to 0.2 mg/Kg
		Phosphamidon		0.01 mg/Kg to 0.2 mg/Kg
		Profenofos		0.01 mg/Kg to 0.2 mg/Kg
		Pyrethrins		0.01 mg/Kg to 0.2 mg/Kg
		Chlorobenzilate		0.01 mg/Kg to 0.2 mg/Kg
		Chlorpyrifos		0.01 mg/Kg to 0.2 mg/Kg
		2,4-D		0.01 mg/Kg to 0.2 mg/Kg
		Ethion		0.01 mg/Kg to 0.2 mg/Kg
		Formothion		0.01 mg/Kg to 0.2 mg/Kg
		Monocrotophos		0.01 mg/Kg to 0.2 mg/Kg
		Paraquat Dichloride		0.01 mg/Kg to 0.2 mg/Kg
		Phosalone		0.01 mg/Kg to 0.2 mg/Kg
		Trichlorfon		0.01 mg/Kg to 0.2 mg/Kg
		Thiometon		0.01 mg/Kg to 0.2 mg/Kg
		Carbendazim		0.01 mg/Kg to 0.2 mg/Kg
		Benomyl		0.01 mg/Kg to 0.2 mg/Kg
		Captan		0.02 mg/Kg to 0.4 mg/Kg
		Carbofuran		0.01 mg/Kg to 0.2 mg/Kg
		Fenthion		0.01 mg/Kg to 0.2 mg/Kg
		Fenthion Sulfone		0.01 mg/Kg to 0.2 mg/Kg
		Fenthion Sulfoxide		0.01 mg/Kg to 0.2 mg/Kg
		Dithiocarbamates		0.01 mg/Kg to 0.2 mg/Kg
		Phorate		0.01 mg/Kg to 0.2 mg/Kg
		Phorate Sulfone		0.01 mg/Kg to 0.2 mg/Kg
		Phorate Sulfoxide		0.01 mg/Kg to 0.2 mg/Kg
		Isoproturon		0.01 mg/Kg to 0.2 mg/Kg
		Cyfluthrin		0.01 mg/Kg to 0.2 mg/Kg
		Phenthoate		0.01 mg/Kg to 0.2 mg/Kg
		Quinolphos		0.01 mg/Kg to 0.2 mg/Kg
		Tricyclazole		0.01 mg/Kg to 0.2 mg/Kg
		Chlormequat chloride		0.01 mg/Kg to 0.2 mg/Kg
		Thiomethoxam		0.01 mg/Kg to 0.2 mg/Kg

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		Deltamethrin		0.01 mg/Kg to 0.2 mg/Kg
		Dodine		0.01 mg/Kg to 0.2 mg/Kg
		Diuron		0.01 mg/Kg to 0.2 mg/Kg
		Thiophenate-methyl		0.01 mg/Kg to 0.2 mg/Kg
		Fenarimol		0.01 mg/Kg to 0.2 mg/Kg
		Hexaconazole		0.01 mg/Kg to 0.2 mg/Kg
		Iprodion		0.05 mg/Kg to 1.0 mg/Kg
		Tridemorph		0.01 mg/Kg to 0.2 mg/Kg
		Penconazole		0.01 mg/Kg to 0.2 mg/Kg
		Myclobutanil		0.01 mg/Kg to 0.2 mg/Kg
		Cymoxanil		0.01 mg/Kg to 0.2 mg/Kg
		Triadimefon		0.01 mg/Kg to 0.2 mg/Kg
		Fosetyl Al		0.05 mg/Kg to 1.0 mg/Kg
		Difenoconazole		0.01 mg/Kg to 0.2 mg/Kg
		Dimethomorph		0.01 mg/Kg to 0.2 mg/Kg
		Propineb		0.01 mg/Kg to 0.2 mg/Kg
		Carbaryl		0.01 mg/Kg to 0.2 mg/Kg
		Diazinon		0.01 mg/Kg to 0.2 mg/Kg
		Chlorfenvinphos		0.01 mg/Kg to 0.2 mg/Kg
		Fenvalerate		0.01 mg/Kg to 0.2 mg/Kg
		Spinosad		0.01 mg/Kg to 0.2 mg/Kg
		Lufenuron		0.01 mg/Kg to 0.2 mg/Kg
		Captafol		0.02 mg/Kg to 0.4 mg/Kg
		Metiram		0.01 mg/Kg to 0.2 mg/Kg
		Novaluron		0.01 mg/Kg to 0.2 mg/Kg
		Alachlor		0.01 mg/Kg to 0.2 mg/Kg
		Fluchoralin		0.01 mg/Kg to 0.2 mg/Kg
		Acephate		0.01 mg/Kg to 0.2 mg/Kg
<b>C.</b>	<b>Trace metal elements</b>			
<b>1.</b>	<b>Milk &amp; dairy Products (Milk, Flavoured milk, Condensed</b>	Sodium Potassium Calcium Iron	AOAC 20 <sup>th</sup> Edition 2015.01 by ICP-MS FSSAI Manual for Analysis of metals, S.No. 6.0,	5 mg/Kg to 5000 mg/Kg 10 mg/Kg to 10000 mg/Kg 5 mg/Kg to 5000 mg/Kg 0.05 mg/Kg to 50 mg/Kg

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	<b>milk, Butter milk,, Yogurt, Curd, Butter, Ghee, Milk powder, Skimmed milk powder, Dried Milk, Whey powder, Casein, Whey Protein, Cheese, Proprietary food(Milk based), Ice cream, Processed milk products)</b>	Lead Magnesium Copper Arsenic Tin Zinc Cadmium Mercury Chromium Nickel	SOP: 106/39 issue no. 2.0, issued on: 2017/02/04 AOAC 20 <sup>th</sup> Edition 2015.06	0.05 mg/Kg to 5 mg/Kg 0.5 mg/Kg to 5000 mg/Kg 0.05 mg/Kg to 50 mg/Kg 0.05 mg/Kg to 5 mg/Kg 0.05 mg/Kg to 500 mg/Kg 0.05 mg/Kg to 100 mg/Kg 0.05 mg/Kg to 5 mg/Kg 0.005 mg/Kg to 1 mg/Kg 0.05 mg/Kg to 20 mg/Kg
2.	<b>Fruit and Fruit products, Vegetable and vegetable products, Jam, Juices, Sauces and Concentrates</b>	Sodium Potassium Calcium Iron Magnesium Lead Copper Arsenic Tin Zinc Cadmium Mercury Chromium Nickel	AOAC 20 <sup>th</sup> Edition, 2015.01 by ICP-MS FSSAI Manual for Analysis of metals, S.No. 6.0 SOP: 106/39 issue no. 2.0, issued on: 2017/02/04 AOAC 20 <sup>th</sup> Edition 2015.06	5.0 mg/Kg to 1000 mg/Kg 5.0 mg/Kg to 5000 mg/Kg 1.0 mg/Kg to 500 mg/Kg 0.05 mg/Kg to 100 mg/Kg 0.5 mg/Kg to 500 mg/Kg 0.05 mg/Kg to 5 mg/Kg 0.05 mg/Kg to 25 mg/Kg 0.05 mg/Kg to 5 mg/Kg 0.05 mg/Kg to 500 mg/Kg 0.05 mg/Kg to 50 mg/Kg 0.05 mg/Kg to 5 mg/Kg 0.005 mg/Kg to 1 mg/Kg 0.05 mg/Kg to 10 mg/Kg 0.05 mg/Kg to 10 mg/Kg
3.	<b>Nutraceutical and Functional Foods Fortified food (Cereal and milk based Proprietary food)</b>	Sodium Potassium Calcium Iron Lead Magnesium	AOAC 20th Edition, 2015.01 by ICP-MS FSSAI Manual for Analysis of metals, S.No. 6.0, SOP: 106/39 issue no. 2.0, issued on: 2017/02/04 AOAC 20th Edition, 2015.06	10 mg/Kg to 5000 mg/Kg 10 mg/Kg to 20000 mg/Kg 10 mg/Kg to 5000 mg/Kg 0.05 mg/Kg to 500 mg/Kg 0.05 mg/Kg to 5 mg/Kg 10 mg/Kg to 1000 mg/Kg

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		Selenium		0.05 mg/Kg to 10 mg/Kg
		Manganese		0.05 mg/Kg to 100 mg/Kg
		Copper		0.05 mg/Kg to 50 mg/Kg
		Arsenic		0.05 mg/Kg to 5 mg/Kg
		Tin		0.05 mg/Kg to 500 mg/Kg
		Zinc		0.05 mg/Kg to 100 mg/Kg
		Cadmium		0.05 mg/Kg to 5 mg/Kg
		Mercury		0.005 mg/Kg to 1 mg/Kg
		Chromium		0.05 mg/Kg to 50 mg/Kg
		Nickel		0.05 mg/Kg to 50 mg/Kg
4.	<b>Alcoholic Beverages (Wine, Beer, Brandy, Rum, Whisky)</b>	Sodium	AOAC 20 <sup>th</sup> Edition, 2015.01 by ICP-MS	0.05 mg/L to 500 mg/L
		Potassium		0.05 mg/L to 500 mg/L
		Calcium	FSSAI Manual for Analysis of metals, S.No. 6.0	0.05 mg/L to 100 mg/L
		Iron	SOP: 106/39 issue no. 2.0, issued on: 2017/02/04	0.01 mg/L to 50 mg/L
		Lead		0.01 mg/L to 5 mg/L
		Magnesium	AOAC 20 <sup>th</sup> Edition 2015.06	0.05 mg/L to 500 mg/L
		Copper		0.01 mg/L to 25 mg/L
		Arsenic		0.01 mg/L to 50 mg/L
		Tin		0.01 mg/L to 5 mg/L
		Zinc		0.01 mg/L to 25 mg/L
		Cadmium		0.01 mg/L to 5 mg/L
		Mercury		0.005 mg/L to 1 mg/L
		Chromium		0.01 mg/L to 5 mg/L
		Nickel		0.01 mg/L to 5 mg/L
IV.	<b>WATER</b>			
1.	<b>Packaged drinking water</b>	Color	IS 3025 (Part 4) (Platinum Cobalt method)	(1 to 50) Hazen Units
		Odour	IS 3025 (Part 5)	Qualitative (Unobjectionable/Agreeable)
		Taste	IS 3025 (Part 7&8)	Qualitative (Unobjectionable/Agreeable)

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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
		Turbidity	IS 3025 (Part 10)	1 NTU to 20 NTU
		Total dissolved solids	IS 3025 (Part 16)	1 mg/L to 1000 mg/L
		pH	IS 3025 (Part 11) (Electrometric method)	1 to 13
		Barium as Ba	APHA 3125, 23 <sup>rd</sup> Edition	0.001 mg/L to 5 mg/L
		Copper as Cu	APHA 3125, 23 <sup>rd</sup> Edition	0.001 mg/L to 1mg/L
		Iron as Fe	APHA 3125, 23 <sup>rd</sup> Edition	0.005 mg/L to 1mg/L
		Manganese as Mn	APHA 3125, 23 <sup>rd</sup> Edition	0.001 mg/L to 1mg/L
		Nitrate as NO <sub>3</sub>	APHA 4500 NO <sub>3</sub> <sup>-</sup> 23 <sup>rd</sup> Edition	0.1 mg/L to 200 mg/L
		Nitrite as NO <sub>2</sub>	IS 3025 (Part 34) (Method 4)	0.01 mg/L to 10 mg/L
		Fluoride as F	APHA 4500 F- D (Spadns method), 23 <sup>rd</sup> Edition	0.1 mg/L to 50 mg/L
		Zinc as Zn	APHA 3125, 23 <sup>rd</sup> Edition	0.005 mg/L to 20mg/L
		Silver as Ag	APHA 3125, 23 <sup>rd</sup> Edition	0.001 mg/L to 1mg/L
		Aluminium as Al	APHA 3125, 23 <sup>rd</sup> Edition	0.005 mg/L to 1mg/L
		Chloride as Cl	IS 3025 (Part 32) (Argentometric Method)	5 mg/L to 500 mg/L
		Selenium as Se	APHA 3125, 23 <sup>rd</sup> Edition	0.005 mg/L to 1mg/L
		Sulphate as SO <sub>4</sub>	IS 3025 (Part 24) (Turbidity Method)	0.1 mg/L to 500 mg/L
		Alkalinity as HCO <sub>3</sub>	IS 3025 (Part 23)	10 mg/L to 1000 mg/L
		Calcium as Ca	IS 3025 (Part 40) (EDTA titrimetric Method)	10 mg/L to 1000 mg/L
		Magnesium as Mg	IS 3025 (Part 46) (Volumetric Method Using EDTA), 23 <sup>rd</sup> Edition	5 mg/L to 1000 mg/L
		Sodium as Na	APHA 3500 Na B (Flame Emission Photometric method), 23 <sup>rd</sup> Edition	1.0 mg/L to 500 mg/L
		Residual free chloride	IS 3025 (Part 26) (Iodometric method)	0.1 mg/L to 10 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
		Phenolic compounds as C <sub>6</sub> H <sub>5</sub> OH	APHA 5530 D (Direct Photometric Method), 23 <sup>rd</sup> Edition	0.001 mg/L to 10.0 mg/L
		Mineral oil	IS 3025 (Part 39) (Infrared Spectroscopic Method, Amendment 2)	0.05 mg/L to 100 mg/L
		Anionic surface active agent as MBAS	IS 13428 Annex. K	0.02 mg/L to 2.0 mg/L
		Sulphide as H <sub>2</sub> S	APHA 4500 S2- F, 23 <sup>rd</sup> Edition	0.02 mg/L to 100 mg/L
		Antimony as Sb	APHA 3125, 23 <sup>rd</sup> Edition	0.0005 mg/L to 0.5 mg/L
		Borates as B	APHA 3125, 23 <sup>rd</sup> Edition	0.005 mg/L to 10mg/L
		Bromate as BrO <sub>3</sub>	EPA 300.1 In house developed method SOP No. 106/188, Issued on 2018-07-11	2.5 µg/L to 20 µg/L
		Cyanide as CN	IS 3025 (Part 27)	0.01 mg/L to 10.0 mg/L
		Chromium as Cr	APHA 3125, 23 <sup>rd</sup> Edition	0.001 mg/L to 1mg/L
		Nickel as Ni	APHA 3125, 23 <sup>rd</sup> Edition	0.005 mg/L to 1mg/L
2.	Drinking water	Color	IS 3025 (Part 4) (Platinum Cobalt method)	(1 to 50) Hazen Units
		Odour	IS 3025 (Part 5)	Qualitative (Unobjectionable/Agreeable)
		pH	IS 3025 (Part 11) (Electrometric method)	1 to 13
		Taste	IS 3025 (Part 7&8)	Qualitative (Unobjectionable/Agreeable)
		Turbidity	IS 3025 (Part 10)	1 NTU to 20 NTU
		Total dissolved solids	IS 3025 (Part 16)	1 mg/L to 5000mg/L
		Aluminium as Al	APHA 3125, 23 <sup>rd</sup> Edition	0.005 mg/L to 1mg/L
		Ammonia as N	IS 3025 (Part 34)	0.01 mg/L to 10.0 mg/L
		Anionic detergents as MBAS	IS 13428 Annex. K	0.02 mg/L to 2.0 mg/L
		Barium as Ba	APHA 3125, 23 <sup>rd</sup> Edition	0.001 mg/L to 5mg/L
		Boron as B	APHA 3125, 23 <sup>rd</sup> Edition	0.005 mg/L to 10mg/L

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		Calcium as Ca	IS 3025 (Part 40) (EDTA titrimetric Method)	1.0 mg/L to 1000 mg/L
		Chloramines as Cl <sub>2</sub>	APHA 4500 Cl G 23rd Edition (DPD Colorimetric Method)	0.1 mg/L to 10 mg/L
		Chloride as Cl	IS 3025 (Part 32) (Argentometric Method)	5 mg/L to 2000 mg/L
		Copper as Cu	APHA 3125, 23rd Edition	0.001 mg/L to 5mg/L
		Fluoride as F	APHA 4500 F- D (Spadns method), 23rd Edition	0.1 mg/L to 100 mg/L
		Free residual chlorine	IS 3025 (Part 26) (Iodometric method)	0.1 mg/L to 10 mg/L
		Iron as Fe	APHA 3125, 23 <sup>rd</sup> Edition	0.005 mg/L to 1mg/L
		Magnesium as Mg	IS 3025 (Part 46) (Volumetric Method Using EDTA)	5 mg/L to 1000 mg/L
		Manganese as Mn	APHA 3125, 23 <sup>rd</sup> Edition	0.001 mg/L to 5 mg/L
		Mineral oil	IS 3025 (Part 39) (Infrared Spectroscopic Method, Amendment 2)	0.05 mg/L to 100 mg/L
		Nitrate as NO <sub>3</sub>	APHA 4500 NO <sub>3</sub> <sup>-</sup> , 23rd Edition	0.1 mg/L to 100 mg/L
		Phenolic compounds as C <sub>6</sub> H <sub>5</sub> OH	APHA 5530 D (Direct Photometric Method), 23rd Edition	0.001 mg/L to 10.0 mg/L
		Selenium as Se	APHA 3125, 23 <sup>rd</sup> Edition	0.005 mg/L to 1mg/L
		Silver as Ag	APHA 3125, 23 <sup>rd</sup> Edition	0.001 mg/L to 1mg/L
		Sulphate as SO <sub>4</sub>	IS 3025 (Part 24) (Turbidity Method)	0.1 mg/L to 1000 mg/L
		Sulphide as H <sub>2</sub> S	APHA 4500 S2- F (Iodometric Method), 23rd Edition	0.02 mg/L to 100 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
		Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23)	1 mg/L to 1000 mg/L
		Total hardness as CaCO <sub>3</sub>	IS 3025 (Part 21)	1.0 mg/L to 1000 mg/L
		Zinc as Zn	APHA 3125, 23 <sup>rd</sup> Edition	0.005 mg/L to 50 mg/L
		Cyanide as CN	IS 3025 (Part 27)	0.01 mg/L to 10.0 mg/L
		Molybdenum as Mo	APHA 3125, 23 <sup>rd</sup> Edition	0.001 mg/L to 1mg/L
		Nickel as Ni	APHA 3125, 23 <sup>rd</sup> Edition	0.005 mg/L to 1mg/L
		Total Chromium as Cr	APHA 3125, 23 <sup>rd</sup> Edition	0.001 mg/L to 1mg/L
<b>V.</b>	<b>RESIDUES IN WATER</b>			
<b>A.</b>	<b>Packaged drinking water</b>	<b>Pesticides</b>		
<b>1.</b>	<b>Packaged drinking water</b>	2,4-DDT	SOP No. 106/177, Issued on 2018-06-30	0.01 µg/L to 100 µg/L
		4,4-DDT		0.01 µg/L to 100 µg/L
		2,4-DDE		0.01 µg/L to 100 µg/L
		4,4-DDE		0.01 µg/L to 100 µg/L
		2,4'-DDD		0.01 µg/L to 100 µg/L
		4,4-DDD		0.01 µg/L to 100 µg/L
		Gamma-HCH(Lindane)		0.01 µg/L to 100 µg/L
		Alpha-HCH		0.01 µg/L to 100 µg/L
		Beta - HCH		0.01 µg/L to 100 µg/L
		Delta-HCH		0.01 µg/L to 100 µg/L
		Endosulfan Alpha		0.01 µg/L to 100 µg/L
		Endosulfan Beta		0.01 µg/L to 100 µg/L
		Endosulfan-sulfate		0.01 µg/L to 100 µg/L
		Monocrotophos		0.01 µg/L to 100 µg/L
		Ethion		0.01 µg/L to 100 µg/L
		Chlorpyrifos		0.01 µg/L to 100 µg/L
		Phorate	0.01 µg/L to 100 µg/L	
		Phorate-sulfone	0.01 µg/L to 100 µg/L	
		Phorate-Sulfoxide	0.01 µg/L to 100 µg/L	

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		2,4-D		0.01 µg/L to 100 µg/L
		Butachlor		0.01 µg/L to 100 µg/L
		Isoproturon		0.01 µg/L to 100 µg/L
		Alachlor		0.01 µg/L to 100 µg/L
		Atrazine		0.01 µg/L to 100 µg/L
		Parathion-methyl		0.01 µg/L to 100 µg/L
		Paraoxon-methyl		0.01 µg/L to 100 µg/L
		Malathion		0.01 µg/L to 100 µg/L
		Malaoxon		0.01 µg/L to 100 µg/L
		Aldrin		0.01 µg/L to 100 µg/L
		Dieldrin		0.01 µg/L to 100 µg/L
		<b>PAH</b>		
		Anthracene	In house developed method SOP No. 106/177, Issued on 2018-06-30	0.01 µg/L to 100 µg/L
		Acenaphthene		0.01 µg/L to 100 µg/L
		Acenaphthylene		0.01 µg/L to 100 µg/L
		Benz[a]anthracene		0.01 µg/L to 100 µg/L
		Benzo[b]fluoranthene		0.01 µg/L to 100 µg/L
		Benzo(g,h,i)perylene		0.01 µg/L to 100 µg/L
		Benzo(k)fluoranthene		0.01 µg/L to 100 µg/L
		Dibenz(a,h)anthracene		0.01 µg/L to 100 µg/L
		Fluoranthene		0.01 µg/L to 100 µg/L
		Fluorene		0.01 µg/L to 100 µg/L
		Indeno(1,2,3-cd)		0.01 µg/L to 100 µg/L
		Pyrene		
		Naphthalene		0.01 µg/L to 100 µg/L
		Phenanthrene		0.01 µg/L to 100 µg/L
		Pyrene	0.01 µg/L to 100 µg/L	
		Chrysene	0.01 µg/L to 100 µg/L	
		Banzo(a)pyrene	0.01 µg/L to 100 µg/L	
		<b>PCB</b>		
		2,4,4' - Trichlorobiphenyl	SOP No. 106/177, Issued on 2018-06-30	0.01 µg/L to 100 µg/L
		2,2',5,5'- Tetrachlorobiphenyl		0.01 µg/L to 100 µg/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
		2,2',4',5,5'-Pentachlorobiphenyl		0.01 µg/L to 100 µg/L
		2,2',3,4,4,5-Hexachlorobiphenyl		0.01 µg/L to 100 µg/L
		2,2',4,4',5,5'-Hexachlorobiphenyl		0.01 µg/L to 100 µg/L
		2,2',3,4,4',5,5'-Heptachlor biphenyl		0.01 µg/L to 100 µg/L
2.	Drinking water	<b>Pesticides</b>	SOP No. 106/177, Issued on 2018-06-30	
		Alachlor		0.01 µg/L to 100 µg/L
		Atrazine		0.01 µg/L to 100 µg/L
		Aldrin		0.01 µg/L to 100 µg/L
		Dieldrin		0.01 µg/L to 100 µg/L
		Alpha-HCH		0.01 µg/L to 100 µg/L
		Beta - HCH		0.01 µg/L to 100 µg/L
		Butachlor		0.01 µg/L to 100 µg/L
		Chlorpyrifos		0.01 µg/L to 100 µg/L
		Delta-HCH		0.01 µg/L to 100 µg/L
		2,4-Dichlorophenoxyacetic acid		0.01 µg/L to 100 µg/L
		2,4-DDT		0.01 µg/L to 100 µg/L
		4,4-DDT		0.01 µg/L to 100 µg/L
		2,4-DDE		0.01 µg/L to 100 µg/L
		4,4-DDE		0.01 µg/L to 100 µg/L
		2,4-DDD		0.01 µg/L to 100 µg/L
		4,4-DDD		0.01 µg/L to 100 µg/L
		Endosulfan Alpha		0.01 µg/L to 100 µg/L
		Endosulfan Beta		0.01 µg/L to 100 µg/L
		Endosulfan-sulfate		0.01 µg/L to 100 µg/L
		Ethion	0.01 µg/L to 100 µg/L	
		Gamma-HCH(Lindane)	0.01 µg/L to 100 µg/L	
		Isoproturon	0.01 µg/L to 100 µg/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
		Malathion		0.01 µg/L to 100 µg/L
		Methyl parathion		0.01 µg/L to 100 µg/L
		Monocrotophos		0.01 µg/L to 100 µg/L
		Phorate		0.01 µg/L to 100 µg/L
		<b>PAH</b>		
		Anthracene	SOP No. 106/177, Issued on 2018-06-30	0.01 µg/L to 100 µg/L
		Acenaphthene		0.01 µg/L to 100 µg/L
		Acenaphthylene		0.01 µg/L to 100 µg/L
		Benz[a]anthracene		0.01 µg/L to 100 µg/L
		Benzo[b]fluoranthene		0.01 µg/L to 100 µg/L
		Benzo(g,h,i)perylene		0.01 µg/L to 100 µg/L
		Benzo(k)fluoranthene		0.01 µg/L to 100 µg/L
		Dibenz(a,h)anthracene		0.01 µg/L to 100 µg/L
		Fluoranthene		0.01 µg/L to 100 µg/L
		Fluorene		0.01 µg/L to 100 µg/L
		Indeno(1,2,3-cd)		0.01 µg/L to 100 µg/L
		Pyrene		
		Naphthalene		0.01 µg/L to 100 µg/L
		Phenanthrene		0.01 µg/L to 100 µg/L
		Pyrene	0.01 µg/L to 100 µg/L	
		Chrysene	0.01 µg/L to 100 µg/L	
		Banzo(a)pyrene	0.01 µg/L to 100 µg/L	
		<b>PCB</b>		
		2,4,4" - Trichlorobiphenyl		0.01 µg/L to 100 µg/L
		2,2',5,5'- Tetrachlorobiphenyl		0.01 µg/L to 100 µg/L
		2,2',4',5,5'- Pentachlorobiphenyl		0.01 µg/L to 100 µg/L
		2,2'3,4,4,5- Hexachlorobiphenyl		0.01 µg/L to 100 µg/L
		2,2',4,4',5,5'- Hexachlorobiphenyl		0.01 µg/L to 100 µg/L

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		2,2',3,4,4',5,5'-Heptachlor biphenyl		0.01 µg/L to 100 µg/L
		<b>Trihalomethanes</b>		
		Bromoform		0.05 mg/L to 1 mg/L
		Dibromochloromethane		0.05 mg/L to 1 mg/L
		Bromodichloromethane		0.05 mg/L to 1 mg/L
		Chloroform		0.05 mg/L to 1 mg/L
<b>B.</b>	<b>Trace Metals in Water</b>			
1.	<b>Packaged drinking water</b>	Mercury as Hg	EPA 200.8 followed by ICPMS	0.0005 mg/L to 1 mg/L
		Cadmium as Cd	APHA 3125, 23 <sup>rd</sup> Edition	0.001 mg/L to 1 mg/L
		Arsenic as As	APHA 3125, 23 <sup>rd</sup> Edition	0.001 mg/L to 1mg/L
		Lead as Pb	APHA 3125, 23 <sup>rd</sup> Edition	0.001 mg/L to 1mg/L
2.	<b>Drinking Water</b>	Cadmium as Cd	APHA 3125, 23 <sup>rd</sup> Edition	0.001 mg/L to 1 mg/L
		Lead as Pb	APHA 3125, 23 <sup>rd</sup> Edition	0.001 mg/L to 1mg/L
		Mercury as Hg	EPA 200.8 followed by ICPMS	0.0005 mg/L to 1 mg/L
		Total Arsenic as As	APHA 3125, 23 <sup>rd</sup> Edition	0.001 mg/L to 1mg/L