

Laboratory Vimta Labs Limited, 2B, Bhakti Genesis, 5th Floor, Wakad, Tal Mulshi, Pune, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6921

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Validity 07.11.2018 to 06.11.2020

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

I.	<b>FOOD &amp; AGRICULTURAL PRODUCTS</b>			
1.	<b>Fruit &amp; Fruit Products</b>	Bacterial Count	IS 5402 ISO 4833	≥1cfu/mL ≥10cfu/g
		Coliforms	IS 5401(Part 1)	≥1cfu/mL ≥10cfu/g
		Escherichia coli	IS 5887 (Part 1)	Present or Absent/g or ml
		Escherichia coli Enumeration		≥10 CFU/ml ≥100 CFU/g
		Enterococci	IS 5887 Part 2	≥10 CFU/ml ≥100 cfu/g
		Yeasts & Molds	IS 5403:1999	≥1 CFU/ml ≥10 CFU/g
		Bacillus cereus	IS 5887 (Part 6) ISO 7932	≥10 CFU ml ≥100CFU/g
		Staphylococcus aureus	IS 5887(Part 2)	≥10 CFU/ml ≥100CFU/g
		Staphylococcus aureus	IS 5887(Part 8/Sec I & II)	Present or Absent/g or ml
		Salmonella	IS 5887(Part 3)	Present or Absent/25g or 25 ml
		Shigella	IS 5887(Part 7)	Present or Absent/25g 25 ml
		Sulphite reducing anaerobes (Clostridia)	IS 13428:2005, Annexure C	Present or Absent/50 ml
		Vibrio cholerae	IS 5887 (Part 5)	Present or Absent 25 ml or 25g
		Vibrio parahaemolyticus	IS 5887 (Part 5)	Present or Absent 25 ml or 25g
		Costridium perfringens	IS 5887 (Part 4)	Present or Absent/25 ml
	Flat sour Organism Incubation Test at 37 °C	APHA 4th Edition	Present or Absent/gm	

**Vinay Tyagi**  
Convenor

**Mallika Gope**  
Program Manager

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		for 10 days and 55 °C for 7 day		
2.	<b>Herbs, Spices &amp; Condiments</b>	Bacterial Count (Total Plate Count)	IS 5402 ISO 4833	≥1CFU/ml ≥ 10 CFU/g
		Coliforms	IS 5401 (Part 1) ISO 4832	≥1CFU/ml ≥10CFU/g
		Yeasts & Molds	IS 5403	≥1CFU/ml ≥10CFU/g
		Escherichia coli Escherichia Coli Detection	IS 5887 (Part 1)	≥10 CFU/ml ≥100 CFU/g Present or Absent/g or ml
		Bacillus cereus	IS 5887 (Part 6) ISO 7932	≥10 CFU/ml ≥100 CFU/g
		Faecal streptococci (Enterococci)	IS 5887(Part 2)	≥100 CFU/g ≥10 CFU ml
		Staphylococcus aureus	IS 5887 (Part 2) IS 5887 (Part 8/Sec I&II) ISO 6888	≥10CFU ml ≥ 100 CFU/g Present or absent in 1g/1 ml
		Salmonella	IS 5887 (Part 3) ISO 6579	Present or absent/25 ml or 25g
		Shigella	IS 5887 (Part 7)	Present or absent/25 ml or 25 g
		Clostridium perfringens	IS 5887 (Part 4)	Present or absent/25mLor 25g
		Vibrio cholerae	IS 5887 (Part 5)	Present or absent/25 ml or 25 g
		Vibrio parahaemolyticus	IS 5887 (Part 5)	Present or absent/25 ml or 25 g
		Listeria Species	IS 14988 (Part 1) IS 14988 (Part 2)	Present or absent 1g, 25g.
3.		<b>Jams, Juices, Sauces &amp; Concentrates</b>	Bacterial Count	IS 5402 ISO 4833
	Coliforms		IS 5401(Part 1)	≥1 CFU ml ≥10 CFU g

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		Escherichia coli	IS 5887 (Part 1)	Present or Absent/g or ml
		Escherichia coli		≥10 CFU/ml ≥100 CFU/g
		Enterococci	IS 5887 Part 2	≥10 CFU/ml ≥100 cfu/g
		Yeasts & Molds	IS 5403	≥1 CFU/ml ≥10 CFU/g
		Staphylococcus aureus	IS 5887 (Part 2) IS 5887 (Part 8/Sec I & II)	≥10 CFU/ml ≥100 cfu/g Present or Absent/g or ml
		Salmonella	IS 5887(Part 3)	Present or Absent/25g or 25 ml
		Bacillus cereus	IS 5887 (Part 6) ISO 7932	≥10 CFU/ml ≥100 cfu/g
		Shigella	IS 5887(Part 7)	Present or Absent/25g 25 ml
		Sulphite reducing anaerobes (Clostridia)	IS 13428	Present or Absent/50 ml
		Vibrio cholerae	IS5887(Part5)	Present or Absent/25 ml or 25g
		Vibrio parahaemolyticus	IS 5887 (Part 5)	Present or Absent 25 ml or25g
		Costridium perfringens	IS 5887 (Part 4)	Present or Absent/25 ml
		Flat sour Organism Incubation Test at 37 °C for 10 days and 55 °C for 7 day	APHA 4th Edition 2001	Present or Absent/gm
4.	Milk & Dairy Products	Microbial Count	IS 5402 ISO 4833	≥1 CFU ml ≥10 CFU g
		Yeast & Mold Count	IS 5403	≥1 CFU ml ≥10 CFU g
		Escherichia coli	IS 5887(Part 1)	Present or Absent/ 1ml or g
		Escherichia coli		≥10 CFU/ml ≥100 cfu/g

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		Coliforms	IS 5401(Part 1) ISO 4832 ISO 4831	≥1 CFU ml ≥10 CFU g
		Salmonella	IS 5887(Part 3) ISO 6579	Present or absent/25 ml or 25 g
		Shigella	IS 5887 (Part 7)	Present or absent/25 ml or 25 g
		Vibrio cholerae	IS 5887 (Part 5)	Present or absent/25 ml or 25 g
		Vibrio parahaemolyticus	IS 5887 (Part 5)	Present or absent/25 ml or 25 g
		Staphylococcus aureus	IS 5887(Part 2) IS 5887 (Part 8/Sec I & II) ISO 6888	≥10 CFU/ml ≥100 cfu/g Present or absent in 1g/1 ml,
		Faecal Streptococci	IS 5887 (Part 2)	≥10 CFU/ml ≥100 cfu/g
		Listeria Spp	IS 14988 Part 1 & Part 2	Present or absent/25 ml or 25 g
5.	<b>Nut &amp; Nut Products</b>	Bacterial Count (Total Plate Count)	IS 5402 ISO 4833	≥1 CFU ml ≥10 CFU g
		Coliforms	IS 5401 (Part 1) ISO 4832 ISO 4831	≥1 CFU ml ≥10 CFU g
		Yeasts & Molds	IS 5403	≥1 CFU ml ≥10 CFU g
		Escherichia coli	IS 5887 (Part 1)	≥10 CFU/ml ≥100 cfu/g Present or absent/g/ml
		Bacillus cereus	IS 5887 (Part 6) ISO 7932	≥10 CFU/ml ≥100 cfu/g
		Faecal streptococci (Enterococci)	IS 5887(Part 2)	≥10 CFU/ml ≥100 cfu/g
		Staphylococcus aureus	IS 5887 (Part 2) IS 5887 (Part 8/Sec I & II)	≥10 CFU/ml ≥100 cfu/g

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		Salmonella	IS 5887 (Part 3) ISO 6579	Present or absent/25g/ml
		Shigella	IS 5887 (Part 7)	Present or absent/25g./ml
		Clostridium perfringens	IS 5887 (Part 4)	Present or absent/25g./ml
		Vibrio cholerae	IS 5887 (Part 5)	Present or absent/25 ml or 25g
		Vibrio parahaemolyticus	IS 5887 (Part 5)	Present or absent/25 ml or 25g
		Listeria Species	IS 14988 Part 1 & Part 2	Present or absent 1g, 25g.
		Flat sour Organism Incubation Test at 37 °C for 10 days and 55 °C for 7 day	APHA 4th Edition	Present or absent/gm
6.	<b>Snacks &amp; Instant Mixes</b>	Bacterial Count (Total Plate Count)	IS 5402 ISO 4833	≥1 CFU ml ≥10 CFU g
		Coliforms	IS 5401 (Part 1) ISO 4832 ISO 4831	≥1 CFU ml ≥10 CFU g
		Yeasts & Moulds	IS 5403	≥1 CFU ml ≥10 CFU g
		Escherichia coli	IS 5887 (Part 1)	≥10 CFU/ml ≥100 cfu/g Present or absent/ml or g
		Bacillus cereus	IS 5887 (Part 6) ISO 7932	≥10 CFU/ml ≥100 cfu/g
		Faecal streptococci (Enterococci)	IS 5887(Part 2)	≥10 CFU/ml ≥100 cfu/g
		Staphylococcus aureus	IS 5887 (Part 2) IS 5887 (Part 8/Sec I & II)	≥10 CFU/ml ≥100 cfu/g Present or absent/1g/1mL

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		Salmonella	IS 5887 (Part 3) ISO 6579	Present or Absent/25 ml or 25g
		Shigella	IS 5887 (Part 7)	Present or Absent/25 ml or 25 g
		Clostridium perfringens	IS 5887 (Part 4)	Present or Absent-/25g or 25ml
		Vibrio cholerae	IS 5887 (Part 5)	Present or absent/25 ml or 25 g
		Vibrio parahaemolyticus	IS 5887 (Part 5)	Present or Absent/25ml or 25 g
		Listeria Species	IS 14988 Part 1 & Part 2	Present or Absent 25g.or 25 ml
<b>II.</b>	<b>WATER</b>			
<b>1.</b>	<b>Drinking water</b>	Escherichia coli	IS 1622	< 2 to 1600 MPN/100 ml
		Coliform	IS 1622	< 2 to 1600 MPN/100 ml Present/Absent/100 ml

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**CHEMICAL TESTING**

I.	<b>FOOD &amp; AGRICULTURAL PRODUCTS</b>			
1.	<b>Fruit &amp; fruit products, Jams, juices, sauces &amp; concentrates</b>	Total soluble solids	IS 13815, FSSAI MANUAL FOR ANALYSIS OF FRUIT AND VEGETABLE PRODUCTS, No.1.6	1% to 90%
		Total sugars	FSSAI MANUAL FOR ANALYSIS OF FRUIT AND VEGETABLE PRODUCTS, No.2.6	0.4% to 95 %
		Percentage of reducing Sugar	FSSAI MANUAL FOR ANALYSIS OF FRUIT AND VEGETABLE PRODUCTS, No.2.6	0.4% to 95 %
		Added Sugar	FSSAI MANUAL FOR ANALYSIS OF FRUIT AND VEGETABLE PRODUCTS, No.2.6	0.4% to 95 %
		p <sup>H</sup>	FSSAI MANUAL FOR ANALYSIS OF FRUIT AND VEGETABLE PRODUCTS, No.2.3	1 to 13
		Ascorbic acid	FSSAI Volume 5, No.2.8, IS 5838	0.5 to 1000 mg/100g/mL
		Acidity as Acetic acid or Citric Acid or Lauric Acid	FSSAI MANUAL FOR ANALYSIS OF FRUIT AND VEGETABLE PRODUCTS, No 2.4 IS 13844	0.01% to 10%
		Calcium	SOP NO.106/55, Issue No. 1 Issue Date 14/11/2016	25 mg/kg to 1000 mg/kg

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		Sodium	SOP NO.106/55, Issue No. 1 Issue Date 14/11/2016	25 mg/kg to 1000 mg/kg
		Potassium	SOP NO.106/55, Issue No. 1 Issue Date 14/11/2016	25 mg/kg to 2000 mg/kg
		Iron	AOAC	0.1 mg/kg to 1000 mg/kg
		Magnesium	AOAC	25 mg/kg to 1000 mg/kg
2.	Vegetable & Vegetable Products (Soup Powder, Dehydrated Vegetables)	Moisture	FSSAI MANUAL FOR ANALYSIS OF FRUIT AND VEGETABLE PRODUCTS, No.4.1	0.1% to 60%
		Total ash	FSSAI MANUAL FOR ANALYSIS OF FRUIT AND VEGETABLE PRODUCTS, Clause 11.3 & 14.4	0.01% to 15 %
		Acid insoluble Ash	FSSAI MANUAL FOR ANALYSIS OF FRUIT AND VEGETABLE PRODUCTS, Clause 5.3	0.01% to 10 %
		<b>Natural colours</b>		
		Chlorophyll	FSSAI MANUAL (V)FOR ANALYSIS OF FOOD ADDITIVES, Clause 4.1.5	Present/Absent
		Caramel	FSSAI MANUAL V, Clause 4.1.1	Present/Absent
		Curcumin or turmeric	FSSAI MANUAL V, Clause 4.1.3	Present/Absent
		Annatto	FSSAI MANUAL V, Clause 4.1.4	Present/Absent
		Betanin	FSSAI MANUAL V, Clause 4.1.6	Present/Absent
		Cochineal	FSSAI MANUAL V, Clause 4.1.2	Present/Absent



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3.	Nuts & nut products	Damaged Kernels	IS 3579:1966 (RA 2015)	0.01% to 10 %
		Damaged Raisins		0.01% to 10 %
		Un opened shells	IS 3579:1966 (RA 2015)	0.01% to 10 %
		Empty Shells		0.01% to 10 %
		Extraneous Matter (Dates)	IS 3579:1966 (RA 2015)	0.01% to 10 %
		Extraneous vegetable matter	IS 3579:1966 (RA 2015)	0.01% to 10 %
		Blemished/damaged/ discoloured units	IS 3579:1966 (RA 2015)	0.01% to 10 %
		Moisture	IS 3579	0.1% to 60%
		Total ash	FSSAI MANUAL V, Clause 11.3 & 14.4, AOAC 950.49	0.01% to 25 %
		Total Fat	IS 3579, AOAC 948.22	0.1% to 90%
		Protein content	AOAC 950.48, FSSAI MANUAL FOR ANALYSIS OF FRUIT AND VEGETABLE PRODUCTS, Clause 14.9, IS 7219	0.1% to 40 % m/m
		Carbohydrate	AOAC 986.25, IS 1656	0.1% to 99 % m/m
		Energy	IS 9487 & FAO Chapter 3 Calculation of energy content in Food	2 kcal/100g to 1000 kcal/100g
		Acidity of Extracted Fat as Lauric/Oleic	FSSAI MANUAL FOR ANALYSIS OF CEREAL & CEREAL PRODUCTS. Clause 14.5, IS 3579	0.01% to 5%
Saturated Fatty acids	SOP No.106/168, Issue No.01, Issue Date 22/01/2018	0.1% to 100 % m/m		
Mono UnSaturated Fatty Acids (MUFA)		0.1% to 100 % m/m		
Poly Unsaturated Fatty acids (PUFA)		0.1% to 100 % m/m		
Transfat		0.1% to 100 % m/m		

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4.	Milk & dairy products	Milk Fat	FSSAI MANUAL FOR ANALYSIS OF MILK & MILK PRODUCTS, Clause 1.3.4, 6.3 & 15.3	0.1 % to 60 %
		Milk Solids	FSSAI MANUAL FOR ANALYSIS OF MILK & MILK PRODUCTS, Clause 4.5, 15.2 & 14.2, IS 1166	0.1 % to 80 %
		Milk protein in Milk solid not fat	FSSAI MANUAL FOR ANALYSIS OF MILK & MILK PRODUCTS, Clause 10.6 & 9.6	0.1 % to 50 %
		Milk fat on dry matter	FSSAI MANUAL FOR ANALYSIS OF MILK & MILK PRODUCTS, Clause. 1.3.4, 6.3 & 15.3	0.1 % to 100%
		Moisture	IS 2785 AOAC, 920.116 FSSAI MANUAL FOR ANALYSIS OF MILK & MILK PRODUCTS, Clause.11.2, 12.2, 13.2, 10.2	0.1 % to 95.0 %
		Total Solids	FSSAI MANUAL FOR ANALYSIS OF MILK & MILK PRODUCTS, Clause.1.3.3, 4.4, 7.2 & 9.2	1% to 95 %
		Total Fat	FSSAI MANUAL FOR ANALYSIS OF MILK & MILK PRODUCTS, Clause 1.3.4, 9.3	0.1 % to 99.9%
		Total Protein (N x 6.25)	FSSAI MANUAL FOR ANALYSIS OF MILK & MILK PRODUCTS, Clause 19.1, 7.5, IS 1479(Part II)	0.1 % to 95%

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		Titrateable acidity (ml 0.1 NaoH/10gm solid not fat)	FSSAI MANUAL FOR ANALYSIS OF MILK & MILK PRODUCTS, Clause 10.4	1 to 20
		Common salt	FSSAI MANUAL FOR ANALYSIS OF MILK & MILK PRODUCTS, Clause 12.4	0.01% to 10%
		Saturated Fatty acids	SOP No. 106/167, Issue No.1, Issue Date 22/01/2018	0.1% to 100 % m/m
		Mono UnSaturated Fatty Acids (MUFA)		0.1% to 100 % m/m
		Poly Unsaturated Fatty acids (PUFA)		0.1% to 100 % m/m
		Transfat		0.1% to 100% m/m
		Cholesterol	AOAC 994.10-Cholesterol	1 to 500mg/100g
		Total Ash	FSSAI MANUAL FOR ANALYSIS OF MILK & MILK PRODUCTS, Clause. 10.7 & 17.7	0.01% to 10%
		Titrateable acidity (as Lactic Acid)	FSSAI MANUAL FOR ANALYSIS OF MILK & MILK PRODUCTS, Clause. 9.5 & 10.4	0.01% to 10%
		Sugar as Sucrose	FSSAI MANUAL FOR ANALYSIS OF MILK & MILK PRODUCTS, Clause. 9.4.1	0.4 % to 80 %
5.	Ghee	Butyro Refractive Index at 40 degree	FSSAI MANUAL FOR ANALYSIS OF MILK & MILK PRODUCTS, Clause 13.3	35 to 50
		Reichert value	FSSAI MANUAL FOR ANALYSIS OF MILK & MILK PRODUCTS, Clause 13.5	1 to 50

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		FFA as Oleic Acid	FSSAI MANUAL FOR ANALYSIS OF MILK & MILK PRODUCTS, Clause 13.4	0.01% to 10%
		Peroxide Value	FSSAI MANUAL FOR ANALYSIS OF MILK & MILK PRODUCTS, Clause. 13.9	0.1 meq/Kg to 50 meq/Kg
		Boudouins Test	FSSAI MANUAL FOR ANALYSIS OF MILK & MILK PRODUCTS, Clause 13.6	+ve/-ve Present/Absent
6.	Cereals, pulses & cereal products	Moisture	IS 10901 IS 4333(Part 2) IS 1155 FSSAI MANUAL FOR ANALYSIS OF CEREAL & CEREAL PRODUCTS, Clause 2 IS 7463 IS 10902 IS 1010 IS 6895 IS 1005 IS 1009	0.1 % to 40.0 %
		Total Ash on Dry basis	IS 10901 IS 4333(part2) IS 1155 FSSAI MANUAL FOR ANALYSIS OF CEREAL & CEREAL PRODUCTS, Clause 2, Clause.8.2 IS 7463 IS 10902 IS 1010 IS 6895	0.01% to 15%

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			IS 1005 IS 1009	
		Acid Insoluble Ash	IS 10901/IS 4333 (Part 2)/ IS 1155/FSSAI Manual for Analysis of cereal & Cereal products Clause 63, Clause 8.2/IS 74631, IS 10902, IS 10902, IS 1010, IS 68951, IS 1005, IS 1009.	0.01% to 5%
		Alcoholic Acidity as H <sub>2</sub> SO <sub>4</sub> (On dry weight basis)	IS 10901 IS 4333(Part 2) IS 1155 FSSAI MANUAL FOR ANALYSIS OF CEREAL & CEREAL PRODUCTS, Clause.8.5 IS 7463 IS 10902 IS 1010 IS 6895 IS 1005 IS 1009	0.01 % to 5 %
		Extraneous matter	IS 10901 IS 4333(part2) IS 1155 FSSAI MANUAL FOR ANALYSIS OF CEREAL & CEREAL PRODUCTS, Clause 1.2 IS 7463 IS 10902 IS 1010 IS 6895 IS 1005	0.01 % to 10 %

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			IS 1009 IS 4333(part 1)	
		Other food grains	IS 4333(Part 1)	0.01 % to 10 %
		Damaged grains	IS 10901	0.01% to 10%
		Weevilled Grains	IS 4333(part-2)	0.01% to 10%
		Total of Foreign matter, other edible grains and damaged grains	IS 1155 FSSAI Manual for Analysis of Cereal & Cereal Products, Clause 1.2 IS 7463 IS 10902 IS 1010 IS 6895 IS 1005 IS 1009	0.01% to 10%
		Protein	FSSAI MANUAL FOR ANALYSIS OF CEREAL & CEREAL PRODUCTS, Clause 8.7, IS 7219	0.1 % to 40 %
		Fat on dry basis	AOAC	0.1 % to 25 %
		Acidity of extracted fat (as Oleic Acid)	IS 1011 FSSAI MANUAL FOR ANALYSIS OF CEREAL & CEREAL PRODUCTS, Clause 14.5	0.01 % to 5 %
		Crude Fiber	AOAC 962.09-fiber in foods IS 10226 (Part 1)	0.1% to 5% m/m
		Gluten	FSSAI MANUAL FOR ANALYSIS OF CEREAL & CEREAL PRODUCTS, Clause 8.4 & 10.1, IS 1009	0.1 % to 25 %

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7.	Other (Snacks, RTE, Namkeen, etc.)	Moisture content	AOAC 925.10 AOAC 20.116, IS 15271, IS 2234	0.1% to 60% m/m
		Protein content	AOAC 920.87-Flour, AOAC 920.152—Fruits, AOAC 955.04, AOAC 923.04-Water soluble flour, AOAC 930.29-Protein in Dried Milk, AOAC 991.20-Protein in Milk, IS 7219, IS 2234	0.1% to 50% m/m
		Fat content	AOAC <b>922.06</b> -Flour, AOAC <b>933.05</b> -Cheese, AOAC 932.06-Dried Milk Products, AOAC 948.22-Nut & Nut products, AOAC 950.54-Food Dressings, AOAC 952.06-Ice cream and frozen desserts, AOAC 960.32-Ice Creams, AOAC 989.05-Milk, AOAC 974.09-Whey protein, AOAC 983.23-Foods, AOAC 2003.05-Cereal Grains, AOAC 2003.06-All Foods, IS 15271, FSSAI MANUAL FOR ANALYSIS OF MILK & MILK PRODUCTS, Clause 1.3.4	0.1% to 40 %m/m
		Total Sugars	AOAC 975.14 Bread, AOAC 925.05, AOAC 935.39-baked products, AOAC 939.03-Flour FSSAI MANUAL FOR ANALYSIS OF FRUIT & VEGETABLE PRODUCTS, Clause 2.6 ; FSSAI MANUAL	0.4% to 90% m/m

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			FOR ANALYSIS OF MILK & MILK PRODUCTS, Clause 9.4.1	
		Total Carbohydrates	AOAC 986.25, IS 1656	0.1% to 99% m/m
		Total Ash	AOAC 923.03-Flour, AOAC 930.30-Dried Milk Products, AOAC 941.12 Ash in spices, AOAC 950.49-Ash of nut & Nut products, IS 12220, IS 2234	0.01% to 10% m/m
		Energy	IS 9487 & FAO Chapter 3 Calculation of energy content in Food	2 kcal/100g to 1000 kcal/100g
		Crude Fibre	AOAC 962.09-Fiber in Foods IS 10226 (Part 1) IS 2234	0.1% to 45% m/m
		Dietary Fibre	AOAC 985.29, AOAC 991.43	0.1% to 90% m/m
		Saturated Fatty Acids	AOAC 969.33-Fatty Acid Profile	0.1% to 100% m/m
		Mono Unsaturated Fatty Acids (MUFA)	AOAC 969.33-Fatty Acid Profile	0.1% to 100% m/m
		Poly Unsaturated Fatty acids (PUFA)	AOAC 969.33-Fatty Acid Profile	0.1% to 100% m/m
		Transfat	AOAC 969.33-Fatty Acid Profile	0.1% to 100% m/m
		Cholesterol	AOAC 994.10-Cholesterol	1 to 500mg/100g
		<b>Vitamins</b>		
		Vitamin C	FSSAI MANUAL FOR ANALYSIS OF FRUIT & VEGETABLE PRODUCTS, Clause 2.8, IS 5838	0.5 to 1000 mg/100g
		<b>Minerals</b>		
		Iron	AOAC by AAS/ICP-MS.	0.1 to 1000 mg/kg
		Magnesium	Microwave Digestion	25 mg/kg to 10000 mg/kg
		Sodium		25 mg/kg to 10000

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		Potassium	SOP NO.106/55, Issue No. 1 Issue Date 14/11/2016	mg/kg 25 mg/kg to 10000 mg/kg
		Calcium		25 mg/kg to 10000 mg/kg
		Sulphur dioxide(Carry over from fruit products)	AOAC 20 <sup>th</sup> Edition 990.28	10 mg/kg to 1000 mg/kg
8.	Bakery & Confectionery Products	Moisture	IS 12711	5% to 60%
		Ash		0.01% to 10%
		Acid Insoluble Ash		0.01 % to 5 %
		Fat		0.1% to 70 %
		Protein	IS 7219	0.1% to 50%
		Carbohydrate	AOAC 986.25, IS 1656	0.1% to 99%
		Energy	IS 9487& FAO Chapter 3 Calculation of energy content in Food	2 kcal/100g to 1000 kcal/100g
		Total Sugar	FSSAI MANUAL FOR ANALYSIS OF MILK & MILK PRODUCTS, Clause 9.4.1	0.4% to 90% m/m
		<b>Minerals</b>		
		Zinc	SOP 106/197 Issue No.1.0, Effective Date 28/08/2018	0.1mg/kg to 1000 mg/kg
		Sodium	SOP NO.106/55, Issue No. 1 Issue Date 14/11/2016	25 mg/kg to 10000 mg/kg
		Potassium		25 mg/kg to 10000 mg/kg
		Calcium		25 mg/kg to 10000 mg/kg
9.	Edibles Oil & Fat	FFA as oleic acid	IS 548(P-I)	0.01% to 10%
		Acid Value	IS 548(P-I)	0.01 to 10
		Peroxide Value	IS 548(P-I)	0.1meq/kg to 50meq/kg
		Iodine Value	IS 548(P-I)	1 to 200
		Saponification Value	IS 548(P-I)	10 to 300
		Refractive Index	IS 548(P-I)	1.3 to 1.8
		Saturated Fatty acids	AOAC 969.33-Fatty Acid Profile	0.1% to 95 % m/m
		Mono Unsaturated Fatty Acids (MUFA)	AOAC 969.33-Fatty Acid Profile	0.1% to 95 % m/m

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		Poly Unsaturated Fatty acids (PUFA)	AOAC 969.33-Fatty Acid Profile	0.1% to 95 % m/m
		Transfat	AOAC 969.33-Fatty Acid Profile	0.1% to 95 % m/m
		BHA	FSSAI MANUAL FOR ANALYSIS OF FOOD ADDITIVE, Clause 5.2.4	5 mg/Kg to 100 mg/Kg
		TBHQ		5 mg/Kg to 100 mg/Kg
<b>II.</b>	<b>RESIDUES IN FOOD</b>			
<b>A.</b>	<b>Pesticides</b>			
<b>1.</b>	<b>Fruits &amp; Vegetables, and products</b>	2,4-D	SOP No. 106/25, Issue No. 3.0, Issue Date-20/07/2018	0.01 mg/Kg to 1 mg/kg
		4-Bromo-2-chlorophenol		0.01 mg/Kg to 1 mg/kg
		4-Chloro Phenoxy Acetic Acid		0.01 mg/kg to 1 mg/kg
		6-Benzyl adenine		0.01 mg/kg to 1 mg/kg
		Abamectin		0.01 mg/kg to 1 mg/kg
		Acephate		0.01 mg/kg to 1 mg/kg
		Acetamiprid		0.01 mg/kg to 1 mg/kg
		Alachlor		0.01 mg/kg to 1 mg/kg
		Aldrin, Dieldrin (the limits apply to aldrin and dieldrin singly or in any combination and expressed as dieldrin)		0.01 mg/Kg to 1 mg/kg
		Alfa Napthyl acetic acid (A.N.A.)		SOP No. 106/25, Issue No. 3.0, Issue Date-20/07/2018
		Allethrin and Bio-Allethrin	0.01 mg/kg to 1 mg/kg	
		Ametoctradin	0.01 mg/kg to 1 mg/kg	
		Atrazine	0.01 mg/kg to 1 mg/kg	
		Azadirachtin	1.1 mg/kg to 1 mg/kg	
		Azoxystrobin	0.01 mg/kg to 1 mg/kg	
	Benalaxyl	0.01 mg/kg to 1 mg/kg		
	Bendiocarb	0.01 mg/kg to 1 mg/kg		

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		Benfuracarb		0.01 mg/kg to 1 mg/kg
		Benomyl		0.01 mg/kg to 1 mg/kg
		Bifenazate (Sum Of Bifenaate Plus Bifenazate-Diazene)		0.01 mg/kg to 1 mg/kg
		Bifenthrin		0.01 mg/kg to 1 mg/kg
		Bitertanol		0.01 mg/kg to 1 mg/kg
		Buprofezin		0.01 mg/kg to 1 mg/kg
		Butachlor		0.01mg/kg to 1 mg/kg
		Captafol		0.01 mg/kg to 1 mg/kg
		Captan		0.01 mg/kg to 1 mg/kg
		Carbaryl		0.01 mg/kg to 1 mg/kg
		Carbendazim		0.01 mg/kg to 1 mg/kg
		Carbofuran (sum of carbofuran and 3-hydroxy carbofuran expressed as carbofuran)		0.01 mg/kg to 1 mg/kg
		Carbosulfan		0.01 mg/kg to 1 mg/kg
		Carboxin		0.01 mg/kg to 1 mg/kg
		Cartap hydrochloride	SOP No. 106/25, Issue No. 3.0, Issue Date-20/07/2018	0.01 mg/kg to 1 mg/kg
		Chlorantraniliprole		0.01 mg/kg to 1 mg/kg
		Chlordane		0.01 mg/kg to 1 mg/kg
		Chlorfenapyr		0.01 mg/kg to 1 mg/kg
		Chlorfenvinphos		0.01 mg/kg to 1 mg/kg
		Chlormequat chloride (CCC)		0.01 mg/kg to 1 mg/kg
		Chlorothalonil		0.01 mg/kg to 1 mg/kg
		Chlorpyrifos		0.01 mg/kg to 1 mg/kg
		Chlorpyrifos methyl		0.01 mg/kg to 1 mg/kg
		Chlothianidin		0.01 mg/kg to 1 mg/kg
		Cyantraniliprole		0.01 mg/kg to 1 mg/kg
		Cyazofamid		0.01 mg/kg to 1 mg/kg
		Cyfluthrin		0.01 mg/kg to 1 mg/kg
		Cymoxanil		0.01 mg/kg to 1 mg/kg

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		Cypermethrin (sum of all isomers, fat soluble residue)		0.01 mg/kg to 1 mg/kg
		Dazomet		0.01 mg/kg to 1 mg/kg
		DDD		0.01 mg/kg to 1 mg/kg
		DDE		0.01 mg/kg to 1 mg/kg
		DDT (The limits apply to D.D.T., D.D.D. AND D.D.E. singly or in combination form.)	SOP No. 106/25, Issue No. 3.0, Issue Date-20/07/2018	0.01 mg/kg to 1 mg/kg
		Deltamethrin		0.01 mg/kg to 1 mg/kg
		Diafenthiuron		0.01 mg/kg to 1 mg/kg
		Diathionon		0.01 mg/kg to 1 mg/kg
		Diazinon		0.01 mg/kg to 1 mg/kg
		Dichlorvos (content of dichloroacetaldehyde (D.C.A.) be reported where possible)		0.01 mg/kg to 1 mg/kg
		Dicofol		0.01 mg/kg to 1 mg/kg
		Dimethoate (residues to be determined as dimethoate and expressed as dimethoate)		0.01 mg/kg to 1 mg/kg
		Difenoconazole		0.01 mg/kg to 1 mg/kg
		Diflubenzuron		0.01 mg/kg to 1 mg/kg
		Dimethomorph	0.01 mg/kg to 1 mg/kg	
		Dinocap	0.01 mg/kg to 1 mg/kg	
		Dinotefuron	0.01 mg/kg to 1 mg/kg	
		Dithiocarbamates	SOP No. 106/25, Issue No. 3.0, Issue Date-20/07/2018	0.01 mg/kg to 1 mg/kg
		Diquat		0.01 mg/kg to 1 mg/kg
		Diuron (Diuron including all components containing		0.01 mg/kg to 1 mg/kg

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		3,4-dichloroaniline moiety expressed as 3,4-dichloroaniline)		
		Dodine		0.01 mg/kg to 1 mg/kg
		Edifenfos		0.01 mg/kg to 1 mg/kg
		Emamectin Benzoate		0.01 mg/kg to 1 mg/kg
		Endosulfan A		0.01 mg/kg to 1 mg/kg
		Endosulfan B		0.01 mg/kg to 1 mg/kg
		Endosulfan-sulfate		0.01 mg/kg to 1 mg/kg
		Endrin		0.01 mg/kg to 1 mg/kg
		Esfenvalerate		0.01 mg/kg to 1 mg/kg
		Ethephon		0.01 mg/kg to 1 mg/kg
		Ethion (Ethion & its Oxygen Analogue)		0.01 mg/kg to 1 mg/kg
		Ethofenprox		0.01 mg/kg to 1 mg/kg
		Etoxazole		0.01 mg/kg to 1 mg/kg
		Etrimphos		0.01 mg/kg to 1 mg/kg
		Famoxadone	SOP No. 106/25, Issue No. 3.0, Issue Date-20/07/2018	0.01 mg/kg to 1 mg/kg
		Fenamidone		0.01 mg/kg to 1 mg/kg
		Fenarimol		0.01 mg/kg to 1 mg/kg
		Fenazaquin		0.01 mg/kg to 1 mg/kg
		Fenitrothion		0.01 mg/kg to 1 mg/kg
		Fenobucarb		0.01 mg/kg to 1 mg/kg
		Fenpropathrin		0.01 mg/kg to 1 mg/kg
		Fenpyroximate		0.01 mg/kg to 1 mg/kg
		Fenthion (sum of fenthion, its oxygen analogue and their sulphoxides and sulphones)		0.01 mg/kg to 1 mg/kg
		Fenvalerate		0.01 mg/kg to 1 mg/kg
		Fipronil (Sum of Fipronil and sulphone)		0.01 mg/kg to 1 mg/kg
		Flonicamid		0.01 mg/kg to 1 mg/kg

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		Flonicamid TNFA		0.01 mg/kg to 1 mg/kg
		Flonicamid TNFG		0.01 mg/kg to 1 mg/kg
		Flubendiamite		0.01 mg/kg to 1 mg/kg
		Fluopicolide		0.01 mg/kg to 1 mg/kg
		Flufenacet		0.01 mg/kg to 1 mg/kg
		Flufenoxuron		0.01 mg/kg to 1 mg/kg
		Flufenazine	SOP No. 106/25, Issue No. 3.0, Issue Date-20/07/2018	0.01 mg/kg to 1 mg/kg
		Fluopyram		0.01 mg/kg to 1 mg/kg
		Flusilazole		0.01 mg/kg to 1 mg/kg
		Fluxapyroxad		0.01 mg/kg to 1 mg/kg
		Forchlorofenuron (CPPU)		0.01 mg/kg to 1 mg/kg
		Fosetyl-AL		0.01 mg/kg to 1 mg/kg
		Fypronil sulfone		0.01 mg/kg to 1 mg/kg
		Gibberellic acid	SOP No. 106/25, Issue No. 3.0, Issue Date-20/07/2018	0.01 mg/kg to 1 mg/kg
		Glufosinate-ammonium		0.01 mg/kg to 1 mg/kg
		Glufosinate-MPP		0.01 mg/kg to 1 mg/kg
		Glufosinate-NAG		0.01 mg/kg to 1 mg/kg
		Glyphosate		0.01 mg/kg to 1 mg/kg
		Heptachlor (combined residues of helotachlor and its epoxide to be determined and expressed as Heptachlor)		0.01 mg/kg to 1 mg/kg
		Hexaconazole		0.01 mg/kg to 1 mg/kg
		Hexythiazox		0.01 mg/kg to 1 mg/kg
		Homobrassinolide		0.01 mg/kg to 1 mg/kg
		Hydrogen Cyanamide		0.01 mg/kg to 1 mg/kg
		Imidacloprid		0.01 mg/kg to 1 mg/kg
		Indoxacarb		0.01 mg/kg to 1 mg/kg
		Iodosulfuron-methyl		0.01 mg/kg to 1 mg/kg
		Iprobenfos		0.01 mg/kg to 1 mg/kg
		Iprovalicarb		0.01 mg/kg to 1 mg/kg
		Iprodione		0.01 mg/kg to 1 mg/kg

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		Isoprothiolane		0.01 mg/kg to 1 mg/kg
		Isoproturon		0.01 mg/kg to 1 mg/kg
		Kresoxim methyl		0.01 mg/kg to 1 mg/kg
		Lamda cyhalothrin		0.01 mg/kg to 1 mg/kg
		Linuron		0.01 mg/kg to 1 mg/kg
		Lufenuron		0.01 mg/kg to 1 mg/kg
		Malathion (Malthion to be 23etermined and expressed as combined residues of malathion and malaoxon)		0.01 mg/kg to 1 mg/kg
		Malic Hydrazide		0.01 mg/kg to 1 mg/kg
		Mandipropamide		0.01 mg/kg to 1 mg/kg
		Mepiquat	SOP No. 106/25, Issue No. 3.0, Issue Date-20/07/2018	0.01 mg/kg to 1 mg/kg
		Meptyldinocap (sum of 2,4 DNOPC and 2,4 DNOP expressed as meptyldinocap)		0.01 mg/kg to 1 mg/kg
		Metalaxyl & Metalaxyl-M		0.01 mg/kg to 1 mg/kg
		Metasulfuron-methyl		0.01 mg/kg to 1 mg/kg
		Methamidophos (A metabolite of Acephate)		0.01 mg/kg to 1 mg/kg
		Methomyl		0.01 mg/kg to 1 mg/kg
		Metiram as Dithiocarbamates		0.01 mg/kg to 1 mg/kg
		Metolachlor Metolachlor and S-metolachlor (metolachlor including other mixtures of constituent isomers including S-metolachlor (sum of isomers))		0.01 mg/kg to 1 mg/kg

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		Metrafenone		0.01 mg/kg to 1 mg/kg
		Metribuzin		0.01 mg/kg to 1 mg/kg
		Milbemectin (sum of Milbemycin A-4 and Milebemycin A3, expressed as Milbemectin)		0.01 mg/kg to 1 mg/kg
		Monocrotophos		0.01 mg/kg to 1 mg/kg
		Myclobutanil		0.01 mg/kg to 1 mg/kg
		Nereistoxin		0.01 mg/kg to 1 mg/kg
		Novaluron		0.01 mg/kg to 1 mg/kg
		Oxadiazon		0.01 mg/kg to 1 mg/kg
		Omethoate		0.01 mg/kg to 1 mg/kg
		Oxamyl		0.01 mg/kg to 1 mg/kg
		Oxycarboxin		0.01 mg/kg to 1 mg/kg
		Oxydemeton Methyl (sum of oxydemeton methyl and demeton-S-methylsulfone expressed as oxydemeton methyl)		0.01 mg/kg to 1 mg/kg
		Oxyflurfen		0.01 mg/kg to 1 mg/kg
		Paclobutrazole		0.01 mg/kg to 1 mg/kg
		Paraquat Dichloride (determined as paraquat cations)	SOP No. 106/25, Issue No. 3.0, Issue Date-20/07/2018	0.01 mg/kg to 1 mg/kg
		Parathion methyl (Combined residues of parathion and paraoxon to be determined and expressed parathion)		0.01 mg/kg to 1 mg/kg
		Parathion ethyl		0.01 mg/kg to 1 mg/kg
		Penconazole		0.01 mg/kg to 1 mg/kg

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		Pencycuron	SOP No. 106/25, Issue No. 3.0, Issue Date-20/07/2018	0.01 mg/kg to 1 mg/kg
		Pendimethalin		0.01 mg/kg to 1 mg/kg
		Permethrin (sum of isomers)		0.01 mg/kg to 1 mg/kg
		Phenthoate		0.01 mg/kg to 1 mg/kg
		Phorate (sum of phorate, its oxygen analogue and their sulphoxides and sulphones, expressed as phorate)		0.01 mg/kg to 1 mg/kg
		Phosalone		0.01 mg/kg to 1 mg/kg
		Phosphamidon residues (expressed as the sum of phosphamidon and its desethyl derivatives).		0.01 mg/kg to 1 mg/kg
		Pirimiphos-methyl		0.01 mg/kg to 1 mg/kg
		Profenophos		0.01 mg/kg to 1 mg/kg
		Propamocarb		0.01 mg/kg to 1 mg/kg
		Propanil		0.01 mg/kg to 1 mg/kg
		Propargite		0.01 mg/kg to 1 mg/kg
		Propineb as Dithiocarbamates		0.01 mg/kg to 1 mg/kg
		Propetamphos		0.01 mg/kg to 1 mg/kg
		Propiconazole		0.01 mg/kg to 1 mg/kg
		Propoxur		0.01 mg/kg to 1 mg/kg
		Pyraclostrobin		0.01 mg/kg to 1 mg/kg
		Pyridaben		0.01 mg/kg to 1 mg/kg
		Pyriproxyfen		0.01 mg/kg to 1 mg/kg
		Pyrethrins		0.01 mg/kg to 1 mg/kg
		Quinalphos		0.01 mg/kg to 1 mg/kg
		Simazine		0.01 mg/kg to 1 mg/kg
		S-Metalachlor		0.01 mg/kg to 1 mg/kg
		Spinosad	0.01 mg/kg to 1 mg/kg	
		Spirodiclofen	0.01 mg/kg to 1 mg/kg	

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		Spiromesifen		0.01 mg/kg to 1 mg/kg
		Sulphur		0.01 mg/kg to 1 mg/kg
		tau-Fluvalinate		0.01 mg/kg to 1 mg/kg
		Tebuconazole		0.01 mg/kg to 1 mg/kg
		Temephos		0.01 mg/kg to 1 mg/kg
		Tetraconazole		0.01 mg/kg to 1 mg/kg
		Thiamethoxam		0.01 mg/kg to 1 mg/kg
		Thiobencarb		0.01 mg/kg to 1 mg/kg
		Thiochlorid		0.01 mg/kg to 1 mg/kg
		Thiocyclam		0.01 mg/kg to 1 mg/kg
		Thiodicarb		0.01 mg/kg to 1 mg/kg
		Thiometon (Residues determined as thiometon its sulfoxide and sulphone expressed as thiometon)	SOP No. 106/25, Issue No. 3.0, Issue Date-20/07/2018	0.01 mg/kg to 1 mg/kg
		Thiophenyl methyl		0.01 mg/kg to 1 mg/kg
		Transfluthrin		0.01 mg/kg to 1 mg/kg
		Triadimefon		0.01 mg/kg to 1 mg/kg
		Triadimenol		0.01 mg/kg to 1 mg/kg
		Triazophos		0.01 mg/kg to 1 mg/kg
		Trichlorfon		0.01 mg/kg to 1 mg/kg
		Tricyclazole		0.01 mg/kg to 1 mg/kg
		Tridemorph		0.01 mg/kg to 1 mg/kg
		Trifloxystrobin		0.01 mg/kg to 1 mg/kg
		Trifluralin		0.01 mg/kg to 1 mg/kg
		Uracil		0.01 mg/kg to 1 mg/kg
		α-HCH		0.01 mg/kg to 1 mg/kg
		β-HCH		0.01 mg/kg to 1 mg/kg
		δ-HCH		0.01 mg/kg to 1 mg/kg
		Lindane (γ-HCH)		0.01 mg/kg to 1 mg/kg
2.	Cereals, pulses & cereal products	2,4-D	SOP No. 106/26 Issue No.1 Issue Date 12/07/2016	0.01 mg/kg to 1 mg/kg
		Alachlor		0.01 mg/kg to 1 mg/kg
		Aldrin, Dieldrin (the limits apply to aldrin and dieldrin)		0.01 mg/kg to 1 mg/kg

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		singly or in combination)		
		Anilophos		0.01 mg/kg to 1 mg/kg
		Atrazine		0.01 mg/kg to 1 mg/kg
		Benfuracarb		0.01 mg/kg to 1 mg/kg
		Benomyl	SOP No. 106/26 Issue No.1 Issue Date 12/07/2016	0.01 mg/kg to 1 mg/kg
		Bitertanol		0.01 mg/kg to 1 mg/kg
		Buprofezin		0.01 mg/kg to 1 mg/kg
		Butachlor		0.01 mg/kg to 1 mg/kg
		Carbaryl		0.01 mg/kg to 1 mg/kg
		Carbendazim		0.01 mg/kg to 1 mg/kg
		Carbofuran (sum of carbofuran and 3-hydroxy carbofuran expressed as carbofuran)		0.01 mg/kg to 1 mg/kg
		Carbosulfan		0.01 mg/kg to 1 mg/kg
		Carpropamid		0.01 mg/kg to 1 mg/kg
		Cartap hydrochloride		0.01 mg/kg to 1 mg/kg
		Chlordane (Cis & Trans)		0.01 mg/kg to 1 mg/kg
		Chlorfenvinphos		0.01 mg/kg to 1 mg/kg
		Chlorimuron-ethyl		0.01 mg/kg to 1 mg/kg
		Chlorobenzilate		0.01 mg/kg to 1 mg/kg
		Chlorothalonil	0.01 mg/kg to 1 mg/kg	
		Chlorpyrifos	0.01 mg/kg to 1 mg/kg	
		Clodinafop-propargyl	0.01 mg/kg to 1 mg/kg	
		Clomazone	0.01 mg/kg to 1 mg/kg	
		Cyhalofop-butyl	0.01 mg/kg to 1 mg/kg	
		Cypermethrin (sum of all isomers, fat soluble residue)	0.01 mg/kg to 1 mg/kg	
		Decamethrin/ Deltamethrin	0.01 mg/kg to 1 mg/kg	
		Diazinon	0.01 mg/kg to 1 mg/kg	
		Dichlorvos (content of di-chloroacetaldehyde	SOP No. 106/26 Issue No.1 Issue Date 12/07/2016	0.01 mg/kg to 1 mg/kg

**Vinay Tyagi**  
Convenor

**Mallika Gope**  
Program Manager

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		(D.C.A.) be reported where possible		
		DDT (Singly or Sum of DDT, DDD, DDE)		0.01 mg/kg to 1 mg/kg
		Diclofop-methyl		0.01 mg/kg to 1 mg/kg
		Dithiocarbamates		0.01 mg/kg to 1 mg/kg
		Diuron		0.01 mg/kg to 1 mg/kg
		Edifenfos		0.01 mg/kg to 1 mg/kg
		Endosulfan (residues to be determined and reported as total endosulfar A and B and endosulfan-sulphate)		0.01 mg/kg to 1 mg/kg
		Ethion (Residues to be determined as ethion and its oxygen analogue and expressed as ethion)		0.01 mg/kg to 1 mg/kg
		Ethoxysulfruron		0.01 mg/kg to 1 mg/kg
		Etofenprox		0.01 mg/kg to 1 mg/kg
		Fenitrothion		0.01 mg/kg to 1 mg/kg
		Fenobucarb		0.01 mg/kg to 1 mg/kg
		Fenoxaprop-ehtyl		0.01 mg/kg to 1 mg/kg
		Fenthion (sum of fention, its oxygen analogue and their sulphoxides and sulphones)		0.01 mg/kg to 1 mg/kg
		Fluchloralin		0.01 mg/kg to 1 mg/kg
		Flufenacet		0.01 mg/kg to 1 mg/kg
		Formothion (Determined as as diemthoate and its oxygen analogue and expressed as dimethoate except in case of citrous		0.01 mg/kg to 1 mg/kg

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		fruits where it is to be determined as formothion)		
		Heptachlor (combined residues of helotachlor and its epoxide to be determined and expressed as Heptachlor)		0.01 mg/kg to 1 mg/kg
		Imidacloprid		0.01 mg/kg to 1 mg/kg
		Iprodione		0.01 mg/kg to 1 mg/kg
		Isoprothiolane		0.01 mg/kg to 1 mg/kg
		Isoproturon		0.01 mg/kg to 1 mg/kg
		Kitazin (Iprobenfos)		0.01 mg/kg to 1 mg/kg
		Malathion (Malthion to be determined and expressed as combined residues of malathion and malaaxon)		0.01 mg/kg to 1 mg/kg
		Metalaxyl		0.01 mg/kg to 1 mg/kg
		Metasulfuron-methyl		0.01 mg/kg to 1 mg/kg
		Methabenzthiazuron		0.01 mg/kg to 1 mg/kg
		Methyl Chloro-phenoxy-acetic acid (MCPA)		0.01 mg/kg to 1 mg/kg
		Metolachlor		0.01 mg/kg to 1 mg/kg
		Metribuzin	SOP No. 106/26 Issue No.1 Issue Date 12/07/2016	0.01 mg/kg to 1 mg/kg
		Monocrotophos		0.01 mg/kg to 1 mg/kg
		Myclobutanil		0.01 mg/kg to 1 mg/kg
		Oxadiargyl		0.01 mg/kg to 1 mg/kg
		Oxadiazon		0.01 mg/kg to 1 mg/kg
		Oxydemeton Methyl		0.01 mg/kg to 1 mg/kg
		Oxyflurfen		0.01 mg/kg to 1 mg/kg
		Pendimethalin		0.01 mg/kg to 1 mg/kg
		Phenthoate		0.01 mg/kg to 1 mg/kg
		Phorate (sum of phorate,		0.01 mg/kg to 1 mg/kg

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		its oxygen analogue and their sulphoxides and sulphones, expressed as phorate)		
		Phosphamidon residues (expressed as the sum of phosphamidon and its desethyl derivatives).		0.01 mg/kg to 1 mg/kg
		Pirimiphos-methyl		0.01 mg/kg to 1 mg/kg
		Pretilachlor		0.01 mg/kg to 1 mg/kg
		Propiconazole		0.01 mg/kg to 1 mg/kg
		Pyrazosulfuron ethyl		0.01 mg/kg to 1 mg/kg
		Pyrethrins (Sum of pyrethins I & II and other structurally related insecticide ingredients of pyrethrum)		0.01 mg/kg to 1 mg/kg
		Quinalphos		0.01 mg/kg to 1 mg/kg 0.02
		Simazine	SOP No. 106/26 Issue No.1 Issue Date 12/07/2016	0.01 mg/kg to 1 mg/kg
		Suflosulfuron		0.01 mg/kg to 1 mg/kg
		Tebuconazole		0.01 mg/kg to 1 mg/kg
		Thiamethoxam		0.01 mg/kg to 1 mg/kg
		Thiochlorid		0.01 mg/kg to 1 mg/kg
		Thiometon (Residues determined as thiometon its sulfoxide and sulphone expressed as thiometon)		0.01 mg/kg to 1 mg/kg
		Triadimefon		0.01 mg/kg to 1 mg/kg
		Triallate		0.01 mg/kg to 1 mg/kg
		Triazophos		0.01 mg/kg to 1 mg/kg
		Trichlorfon		0.01 mg/kg to 1 mg/kg
		Tricyclazole	0.01 mg/kg to 1 mg/kg	

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		Tridemorph		0.01 mg/kg to 1 mg/kg
		Trifluralin		0.01 mg/kg to 1 mg/kg
		α-HCH		0.01 mg/kg to 1 mg/kg
		β-HCH		0.01 mg/kg to 1 mg/kg
		δ-HCH		0.01 mg/kg to 1 mg/kg
		Lindane (γ-HCH)		0.01 mg/kg to 1 mg/kg
3.	Milk & Dairy Products	Edifenfos	SOP No. 106/29 Issue No. 1.0, Issue Date 12/08/2016	0.01 mg/kg to 1 mg/kg
		Ethion (Residues to be determined as ethion and its oxygen analogue and expressed as ethion)		0.01 mg/kg to 1 mg/kg
		Monocrotophos		0.01 mg/kg to 1 mg/kg
		Paraquat Dichloride (determined as paraquat cations)	SOP No. 106/29 Issue No. 1.0, Issue Date 12/08/2016	0.01 mg/kg to 1 mg/kg
		Trichlorfon		0.01 mg/kg to 1 mg/kg
		Carbendazim		0.01 mg/kg to 1 mg/kg
		Benomyl	SOP No. 106/29 Issue No. 1.0, Issue Date 12/08/2016	0.01 mg/kg to 1 mg/kg
		Carbofuran (sum of carbofuran and 3-hydroxy carbofuran expressed as carbofuran)		0.01 mg/kg to 1 mg/kg
		Fenthion (sum of fenthion, its oxygen analogue and their sulphoxides and sulphones)		0.01 mg/kg to 1 mg/kg
		Fenvalerate		0.01 mg/kg to 1 mg/kg
		Phenthoate		0.01 mg/kg to 1 mg/kg
		Phorate (sum of phorate, its oxygen analogue and their sulphoxides and sulphones, expressed as phorate)		0.01 mg/kg to 1 mg/kg
		Pirimiphos-methyl		0.01 mg/kg to 1 mg/kg

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4.	<b>Pesticides in Spices and condiments</b>	2,4-D	SOP No. 106/28, Issue. 1.0, Issue Dated. 08/08/2016	0.01 mg/kg to 1 mg/kg
		Endosulfan (residues to be determined and reported as total endosulfan A and B and Endosulfan (residues to be determined and reported as total endosulfan A and B and endosulfan-sulphate)		0.01 mg/kg to 1 mg/kg
		Fosetyl-Al		0.01 mg/kg to 1 mg/kg
		Monocrotophos		0.01 mg/kg to 1 mg/kg
		Carbaryl		0.01 mg/kg to 1 mg/kg
		Quinalphos		0.01 mg/kg to 1 mg/kg
		Dicofol		0.01 mg/kg to 1 mg/kg
		Triazophos		0.01 mg/kg to 1 mg/kg
		Dithiocarbamate		0.01 mg/kg to 1 mg/kg
		5.		<b>Edible Oil, Fats &amp; Oil Seeds</b>
Chlorpyrifos	0.01 mg/kg to 1 mg/kg			
Alpha-Endosulfan	0.01 mg/kg to 1 mg/kg			
Profenofos	0.01 mg/kg to 1 mg/kg			
Oxyfluorfen	0.01 mg/kg to 1 mg/kg			
beta-Endosulfan	0.01 mg/kg to 1 mg/kg			
Triazophos	0.01 mg/kg to 1 mg/kg			
Endosulfan sulfate	0.01 mg/kg to 1 mg/kg			
Fenpropathrin	0.01 mg/kg to 1 mg/kg			
Phosalone	0.01 mg/kg to 1 mg/kg			
Cyhalothrin-Lambda	0.01 mg/kg to 1 mg/kg			
Fenvalerate-1	0.01 mg/kg to 1 mg/kg			
Fluvalinate-1	0.01 mg/kg to 1 mg/kg			
Fluvalinate-2	0.01 mg/kg to 1 mg/kg			
Fenvalerate-II	0.01 mg/kg to 1 mg/kg			
<b>B.</b>	<b>Mycotoxins</b>			
1.	<b>Fruit Juices,</b>	Patulin (Apple based)	AOAC 995.10	20 µg/L to 1000 µg/L



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2.	Cereals & Pulses,	Aflatoxin B1, G1, B2, G2 & Total	SOP No. 106/44 Issue No.1.0, Issue Date 22/09/2016	1 µg/Kg to 100 µg/Kg
3.	Spices & Condiments	Aflatoxin B1, G1, B2, G2 & Total		1 µg/Kg to 100 µg/Kg
4.	Nut & Nut products	Aflatoxin B1, G1, B2, G2 & Total		1 µg/Kg to 100 µg/Kg
C.	Trace Metal Elements			
1.	Fruit & Fruit Products, Vegetable & Vegetable products,(Grapes, Pomegranate, Mango)	Arsenic	SOP No. 106/197 Issue No.1.0 Issue Date 28/08/2018	0.2 mg/kg to 50 mg/kg
		Cadmium		0.05 mg/kg to 50 mg/kg
		Lead		0.05 mg/kg to 50 mg/kg
		Copper		0.2 mg/kg to 50 mg/kg
		Tin		0.25 mg/kg to 50 mg/kg
		Zinc		0.2 mg/kg to 50 mg/kg
		Mercury		0.05 mg/kg to 1.0 mg/kg
		Chromium		0.2 mg/kg to 50 mg/kg
		Nickel		0.2 mg/kg to 50 mg/kg
2.	Cereals, Cereal products & Pulses (rice, Wheat, Dal)	Lead	SOP No. 106/197 Issue No.1.0 Issue Date 28/08/2018	0.2 mg/kg to 50 mg/kg
		Arsenic		0.2 mg/kg to 50 mg/kg
		Copper		0.2 mg/kg to 50 mg/kg
		Tin		0.25 mg/kg to 50 mg/kg
		Zinc		0.2 mg/kg to 50 mg/kg
		Cadmium		0.2 mg/kg to 50 mg/kg
		Mercury		0.05 mg/kg to 1.0 mg/kg
		Nickel		0.2 mg/kg to 50 mg/kg
		Chromium		0.2 mg/kg to 50 mg/kg
3.	Spices & Condiments (Cumin seed, Chili powder, masala)	Lead	SOP No. 106/197 Issue No.1.0 Issue Date 28/08/2018	0.2 mg/kg to 50 mg/kg
		Arsenic		0.2 mg/kg to 50 mg/kg
		Tin		0.25 mg/kg to 50 mg/kg
		Zinc	SOP No. 106/197 Issue No.1.0 Issue Date 28/08/2018	0.2 mg/kg to 50 mg/kg
		Cadmium		0.2 mg/kg to 50 mg/kg
		Mercury		0.05 mg/kg to 1 mg/kg
		Nickel		0.2mg/kg to 50 mg/kg

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4.	Milk & Dairy Products (Skimmed Milk powder)	Chromium	SOP No. 106/197 Issue No.1.0 Issue Date 28/08/2018	0.2mg/kg to 50 mg/kg
		Copper		0.2 mg/kg to 50 mg/kg
		Arsenic		0.2 mg/kg to 50 mg/kg
		Cadmium		0.2 mg/kg to 50 mg/kg
		Lead		0.2 mg/kg to 50 mg/kg
		Copper		0.2 mg/kg to 50 mg/kg
		Tin		0.25mg/kg to 50 mg/kg
		Zinc		0.2 mg/kg to 50 mg/kg
		Mercury		0.05mg/kg to 1.0 mg/kg
		Chromium		0.2 mg/kg to 50 mg/kg
5.	Nut & Nut Products (Peanut)	Arsenic	SOP No. 106/197 Issue No.1.0 Issue Date 28/08/2018	0.2 mg/kg to 50 mg/kg
		Cadmium		0.2 mg/kg to 50 mg/kg
		Lead		0.2 mg/kg to 50 mg/kg
		Copper		0.2 mg/kg to 50 mg/kg
		Tin		0.25mg/kg to 50 mg/kg
		Zinc		0.2 mg/kg to 50 mg/kg
		Mercury		0.05 mg/kg to 1.0 mg/kg
		Chromium		0.2 mg/kg to 50 mg/kg
		Nickel		0.2 mg/kg to 50 mg/kg
		6.		Other (Snacks, RTE, Namkeen, etc )
Arsenic	0.2 mg/kg to 50 mg/kg			
Tin	0.25 mg/kg to 50 mg/kg			
Zinc	0.2 mg/kg to 50 mg/kg			
Cadmium	0.2 mg/kg to 50 mg/kg			
Mercury	0.05 mg/kg to 1 mg/kg			
Nickel	0.2 mg/kg to 50 mg/kg			
Chromium	0.2 mg/kg to 50 mg/kg			
Copper	0.2mg/kg to 1000 mg/kg			
7.	Bakery & Confectionary Products (Biscuits & Cakes)		Lead	
		Arsenic	0.2 mg/kg to 50 mg/kg	
		Tin	0.25 mg/kg to 50 mg/kg	
		Zinc	0.2 mg/kg to 50 mg/kg	

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		Cadmium		0.2 mg/kg to 50 mg/kg
		Mercury		0.05 mg/kg to 1 mg/kg
		Copper		0.2mg/kg to 1000 mg/kg
		Nickel		0.2 mg/kg to 50 mg/kg
		Chromium		0.2 mg/kg to 50 mg/kg
8.	Edible Oil, Fats & Oil Seeds (Soya Oil, Groundnut Oil, Sunflower Oil)	Lead	SOP No. 106/197 Issue No.1.0 Issue Date 28/08/2018	0.2 mg/kg to 50 mg/kg
		Arsenic		0.2 mg/kg to 50 mg/kg
		Copper		0.2 mg/kg to 50 mg/kg
		Tin		0.25 mg/kg to 50 mg/kg
		Zinc		0.2 mg/kg to 50 mg/kg
		Cadmium		0.2 mg/kg to 50 mg/kg
		Mercury	SOP No. 106/197 Issue No.1.0 Issue Date 28/08/2018	0.05 mg/kg to 1.0 mg/kg
		Nickel		0.2 mg/kg to 50 mg/kg
		Chromium		0.1 mg/kg to 50 mg/kg
III.	WATER			
1.	Drinking water, Process water	Color (Pt-Co)	IS 3025 (Part 4) (Method 2) APHA 2120 B	1 Pt-Co Units to 50 Pt-Co Units
		Odour	IS 3025 (Part 5) APHA 2150 A	Qualitative
		Total dissolved solids	IS 3025 (Part 16) APHA 2540 C	0.5 mg/L to 1000mg/L
		Turbidity	IS 3025 (Part 10) APHA 2130 B	0.1 NTU to 500 NTU
		pH	S 3025 (Part 11), (Method 2) APHA 4500B	1 to 13
		Taste	IS 3025 (Part 8)	Qualitative
		Mineral oil	IS 3025(Part 39), (Method 6) APHA 5520(C)	0.05 mg/L to 100 mg/L
		Residual free chlorine	IS 3025(Part-26, 3) APHA 4500 Cl B	0.1 mg/L to 500 mg/L
		Chloride	IS 3025:(Part 32)	1 mg/L to 1000mg/L

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			(Method 2)	
		Fluoride	APHA 4500 F-D	0.2mg/L to 100mg/L
		Calcium as Ca	IS 3025(Part40) Method 5	1.0 mg/L to 1000 mg/L
		Alkalinity (P & M)	IS 3025 (Part 23) APHA 2320 B	1 mg/L to 500mg/L
		Total hardness as CaCO <sub>3</sub>	IS 3025 (Part 21) APHA 2340 B&C	1.0 mg/L to 1000 mg/L
		Phenolic compounds	IS 3025 (Part 43) APHA 5530 C	0.001 mg/L to 10 mg/L
		Nitrate	APHA 4500 NO <sub>3</sub> B&C	0.1 mg/L to 100mg/L
		Sulphates	IS 3025(Part 24,4), APHA 4500 SO <sub>4</sub> <sup>2-</sup> E	1 mg/L to 500mg/L
		Sulphide	IS 3025(Part-29, 3) APHA 4500 S <sub>2</sub> D	0.02 mg/L to 100 mg/L
		Copper	APHA 3125	0.005 mg/L to 1mg/L
		Iron	APHA 3125	0.005 mg/L to 1mg/L
		Manganese	APHA 3125	0.005 mg/L to 1mg/L
		Arsenic	APHA 3125	0.005 mg/L to 1mg/L
		Mercury	APHA 3125	0.001 mg/L to 1 mg/L
		Cadmium	APHA 3125	0.001 mg/L to 1 mg/L
		Chromium	APHA 3125	0.005 mg/L to 1mg/L
		Zinc	APHA 3125	0.005 mg/L to 1mg/L
		Selenium	APHA 3125	0.005 mg/L to 1mg/L
		Boron	APHA 3125	0.005 mg/L to 1mg/L
		Aluminium	APHA 3125	0.005 mg/L to 1mg/L
		Lead	APHA 3125	0.005 mg/L to 1mg/L
		Molybdenum	APHA 3125	0.005 mg/L to 1mg/L
		Nickel	APHA 3125	0.005 mg/L to 1mg/L
		Magnesium	APHA 3125	1mg/L to 1000 mg/L
		Silver	APHA 3125	0.005 mg/L to 1mg/L
		Barium	APHA 3125	0.005 mg/L to 1mg/L
		Ammonia	IS 3025 (Part 34) Method 2.3	0.1mg/L to 2 mg/L
<b>IV.</b>	<b>RESIDUES IN WATER</b>			

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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
1.	Pesticides	2,4-D	SOP No. 106/27, Issue No.1, Issue Date 18/07/2016	0.01µg/L to 1000 µg/L
		2,4-DDD		0.01µg/L to 1000 µg/L
		4,4-DDD		0.01µg/L to 1000 µg/L
		2,4-DDT		0.01µg/L to 1000 µg/L
		4,4-DDT		0.01µg/L to 1000 µg/L
		2,4'-DDE		0.01µg/L to 1000 µg/L
		4,4-DDE		0.01µg/L to 1000 µg/L
		Alachlor		0.01µg/L to 1000 µg/L
		Aldrin		SOP No. 106/27, Issue No.1.0, Issue Date 18/07/2016
		Atrazine	0.01µg/L to 1000 µg/L	
		Butachlor	0.01µg/L to 1000 µg/L	
		Chlorpyrifos	0.01µg/L to 1000 µg/L	
		Dieldrin	0.01µg/L to 1000 µg/L	
		Endosulfan Alpha	0.01µg/L to 1000 µg/L	
		Endosulfan Beta	0.01µg/L to 1000 µg/L	
		Endosulfan-sulfate	0.01µg/L to 1000 µg/L	
		Alpha-HCH	0.01µg/L to 1000 µg/L	
		Beta-HCH	0.01µg/L to 1000 µg/L	
		Gamma-HCH	0.01µg/L to 1000 µg/L	
		Delta-HCH	0.01µg/L to 1000 µg/L	
		Isoproturon	SOP No. 106/27, Issue No.1.0, IssueDate 18/07/2016	0.01µg/L to 1000 µg/L
		Malathion		0.01µg/L to 1000 µg/L
		Malaaxon		0.01µg/L to 1000 µg/L
		Monocrotophos		0.01µg/L to 1000 µg/L
		Paraoxon-methyl		0.01µg/L to 1000 µg/L
		Parathion-methyl		0.01µg/L to 1000 µg/L
		Phorate		0.01µg/L to 1000 µg/L
		Phorate-sulfone		0.01µg/L to 1000 µg/L
		Phorate-Sulfoxide		0.01µg/L to 1000 µg/L
		2.	PAH	Anthracene
Acenaphthene	0.01µg/L to 1000 µg/L			
Acenaphthylene	0.01µg/L to 1000 µg/L			
Benz[a]anthracene	0.01µg/L to 1000 µg/L			

Laboratory **Vimta Labs Limited, 2B, Bhakti Genesis, 5th Floor, Wakad, Tal Mulshi, Pune, Maharashtra**

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

Certificate Number **TC-6921**

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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
		Benzo[b]fluoranthene		0.01µg/L to 1000 µg/L
		Benzo(g,h,i) perylene		0.01µg/L to 1000 µg/L
		Benzo(k)fluoranthene		0.01µg/L to 1000 µg/L
		Dibenz(a,h)anthracene		0.01µg/L to 1000 µg/L
		Fluoranthene		0.01µg/L to 1000 µg/L
		Fluorene		0.01µg/L to 1000 µg/L
		Indeno(1,2,3-cd)Pyrene		0.01µg/L to 1000 µg/L
		Naphthalene		0.01µg/L to 1000 µg/L
		Phenanthrene		0.01µg/L to 1000 µg/L
		Pyrene		0.01µg/L to 1000 µg/L
		Chrysene		0.01µg/L to 1000 µg/L
		Banzo(a)pyrene		0.01µg/L to 1000 µg/L
3.	PCB	2,4,5 Trichlorobiphenyl	SOP No. 106/27, Issue No.1.0, Issue Date 18/07/2016	0.01µg/L to 1000 µg/L
		2,2',4,4' Tetrachlorobiphenyl	SOP No. 106/27, Issue No.1.0, Issue Date 18/07/2016	0.01µg/L to 1000 µg/L
		2,2',3',4,6 Pentachlorobiphenyl		0.01µg/L to 1000 µg/L
		2,2'4,4,5,6 Hexachlorobiphenyl		0.01µg/L to 1000 µg/L
		2,2',4,4',5,6 Hexachlorobiphenyl		0.01µg/L to 1000 µg/L
4.	Trihalomethanes	2,2',3,3',4,4',6 Heptachlorobiphenyl	SOP No. 106/27, Issue No.1.0, Issue Date 18/07/2016	0.01µg/L to 1000 µg/L
V.	WATER			
1.	Water	Bromoform	SOP No. 106/145	0.05mg/L to 1 mg/L
		Dibromochloromethane	Issue No.1.0	0.05mg/L to 1 mg/L
		Bromodichloromethane	Issue Date-2017-12-12	0.05mg/L to 1 mg/L
		Chloroform		0.05mg/L to 1 mg/L