

**Laboratory** Vimta Labs Ltd., Visakhapatnam Branch, No. 9-13-45/2-9-3, 3<sup>rd</sup> Floor, N Circle, VIP Road, Visakhapatnam, Andhra Pradesh

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

**Certificate Number** TC-5374

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

<b>I. FOOD AND AGRICULTURAL PRODUCTS</b>				
1.	<b>Snacks and Instant Mixes</b>	Bacterial Count (Total Plate Count)	IS 5402 ISO 4833 (Part-1)	≥1 CFU/ml ≥10 CFU/g
		Coliforms	IS 5401 (Part-1) ISO 4832 IS 5401 (Part-2) ISO 4831	≥1 CFU/ml ≥10 CFU/g
		Yeasts & Molds	IS 5403	≥1 CFU/ml ≥10 CFU/g
		Escherichia coli	IS 5887 (Part-1)	0.30 to 110 MPN/g/m Qualitative (Present or Absent/g)
		Bacillus cereus	IS 5887(Part-6) ISO 7932	≥10 CFU/g/ ml ≥100 CFU/g
		Faecal streptococci (Enterococci)	IS 5887 (Part-2)	Qualitative (Present or Absent/g) ≥10 CFU/ml ≥100 CFU/g
		Staphylococcus aureus	IS 5887 (Part-2) IS 5887 (Part 8/Sec I & II) ISO 6888	≥1 CFU/ml ≥100 CFU/ g Qualitative (Present or Absent/g or 25g)
		Salmonella	IS 5887 (Part 3) ISO 6579	Qualitative (Present or Absent/25g)
		Shigella	IS 5887 (Part 7)	Qualitative (Present or Absent/25g)
		Clostridium perfringens	IS 5887 (Part 4)	Qualitative (Present or Absent/25g)
		Vibrio cholerae	IS 5887 (Part 5)	Qualitative (Present or Absent/25g)

**Rini Narayan**  
Convenor

**N. Venkateswaran**  
Program Director

Laboratory

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		Vibrio parahaemolyticus	IS 5887 (Part 5)	Qualitative (Present or Absent/25g)
		Listeria monocytogenes	IS 14988 (Part 1)	Qualitative (Present or Absent/g or 25g)
2.	<b>Herbs, Spices &amp; Condiments</b>	Bacterial Count (Total Plate Count)	IS 5402:2012/ ISO 4833 (Part 1)	≥1 CFU/ml ≥10 CFU/g
		Coliforms	IS 5401 (Part1) ISO 4832:1991 IS 5401 (Part-2) ISO 4831	≥1 CFU/ml ≥10 CFU/g 0.30-110 MPN/g
		Yeasts & Molds	IS 5403	≥1 CFU/ml ≥10 CFU/g
		Escherichia coli	IS 5887 (Part-1)	0.30 -110 MPN/g Qualitative (Present or Absent/g)
		Staphylococcus aureus	IS 5887 (Part 2) IS 5887 (Part 8/Sec I & II) ISO 6888	≥1 CFU /g or ml ≥100 CFU /g or ml Qualitative (Present or Absent/25g)
		Salmonella	IS 5887 (Part 3) ISO 6579	Qualitative (Present or Absent/25g)
		Shigella	IS 5887 (Part 7)	Qualitative (Present or Absent/25g)
3.	<b>Canned &amp; Processed Foods</b>	Bacterial Count (Total Plate Count)	IS 5402 ISO 4833 (Part 1)	≥1 CFU/ml ≥10 CFU/g
		Coliforms	IS 5401 (Part1) ISO 4832 IS 5401(Part-2) ISO 4831	≥1 CFU/ml ≥ 10 CFU/g Qualitative (Present or Absent/100g)
		Yeasts & Molds	IS 5403	≥10 CFU/g ≥1 CFU/ml
		Escherichia coli	IS 5887 (Part-1)	<0.30 -110 MPN/g Present or Absent/g

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Program Director

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		Bacillus cereus	IS 5887 (Part 6) ISO 7932	≥10 CFU/g or ml ≥100 CFU/g or ml
		Staphylococcus aureus	IS 5887 (Part 2) IS 5887 (Part 8/Sec I & II) ISO 6888	≥1 CFU/ml ≥100 CFU/g Present or Absent/25g or g
		Salmonella	IS 5887 (Part 3) ISO 6579	Present or Absent/25g
		Shigella	IS 5887 (Part7)	Present or Absent/25 g
<b>4.</b>	<b>Jams, Juices, Sauces &amp; Concentrates</b>	Bacterial Count (Total Plate Count)	IS 5402 ISO 4833 (Part 1)	≥1 CFU/g or ml ≥10 CFU/g or ml
		Coliforms	IS 5401 (Part1) ISO 4832 IS 5401(Part-2) ISO 4831	≥1 CFU/g or ml ≥ 10 CFU/g or ml
		Yeasts & Molds	IS 5403	≥1 CFU/g or ml ≥ 10 CFU/g or ml
		Escherichia coli	IS 5887(Part-1)	0.30 to 110 MPN/g or ml Qualitative (Present or Absent/g or ml)
		Staphylococcus aureus	IS 5887 (Part 2) IS 5887 (Part 8/Sec I & II) ISO 6888	≥1 CFU/g or ml ≥100 CFU/g or ml Qualitative (Present or Absent/25g or 25ml)
		Salmonella	IS 5887 (Part 3) ISO 6579	Qualitative (Present or Absent/25g or 25ml)
		Shigella	IS 5887 (Part 7)	Qualitative (Present or Absent/25g or 25ml)
		Vibrio cholerae	IS 5887 (Part 5)	Qualitative (Present or Absent/25g or 25ml)

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		Listeria monocytogenes	IS 14988 (Part 1)	Qualitative (Present or Absent/g or ml)
5.	Vegetables & Vegetable Products	Bacterial Count (Total Plate Count)	IS 5402 ISO 4833( Part 1)	≥ 10 CFU/g or ml
		Coliforms	IS 5401 (Part1) ISO 4832 IS 5401(Part-2) ISO 4831	≥ 10 CFU/g or ml
		Yeasts & Molds	IS 5403	≥1 CFU/ml ≥ 10 CFU/g or ml
		Escherichia coli	IS 5887(Part-1)	0.30 to 110 MPN/g or ml Qualitative (Present or Absent/g or ml)
		Staphylococcus aureus	IS 5887 (Part 2) IS 5887 (Part 8/Sec I & II) ISO 6888	≥1 CFU/ml ≥100 CFU/g or ml Qualitative (Present or Absent/25g or 25ml)
		Salmonella	IS 5887 (Part 3) ISO 6579	Qualitative (Present or Absent/25g or 25ml)
		Shigella	IS 5887 (Part 7)	Qualitative (Present or Absent/25g or 25ml)
		Vibrio cholerae	IS 5887 (Part 5)	Qualitative (Present or Absent/25g or 25ml)
		Listeria monocytogenes	IS 14988 (Part 1 & 2)	Qualitative (Present or Absent/25g or 25ml)
6.	Ready to Serve Cooked Foods	Bacterial Count (Total Plate Count)	IS 5402 ISO 4833 (Part 1)	≥ 10 CFU/g or ml

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		Coliforms	IS 5401 (Part1) ISO 4832 IS 5401(Part-2) ISO 4831	≥ 10 CFU/g or ml
		Yeasts & Molds	IS 5403	≥ 1 CFU/ml ≥ 10 CFU/g or ml
		Escherichia coli	IS 5887(Part-1)	<0.30 to 110 MPN/ g or ml Present or Absent /g or ml
		Staphylococcus aureus	IS 5887 (Part 2) IS 5887 (Part 8/Sec I & II) ISO 6888	≥1 CFU/ml ≥100 CFU/g or ml
		Salmonella	IS 5887 (Part 3) ISO 6579	Qualitative (Present or Absent/25g or 25ml)
		Shigella	IS 5887 (Part 7)	Qualitative (Present or Absent/25g or 25ml)
		Vibrio cholerae	IS 5887 (Part 5)	Qualitative (Present or Absent/25g or 25ml)
		Listeria monocytogenes	IS 14988 (Part 1)	Qualitative (Present or Absent/25g or 25ml)
<b>II.</b>	<b>WATER</b>			
<b>1.</b>	<b>Drinking Water</b>	Coliforms	IS 1622	<2 to 1600 MPN /100ml
		Esherichia coli or Thermotolerant coliform count/faecal coliforms	IS 1622 ISO 9308-2 ISO 15185	<2 to 1600 MPN/100 ml, Qualitative (Present or Absent /250ml)

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Program Director

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III.	<b>MARINE/ AQUACULTURE FOOD PRODUCTS</b>			
1.	<b>Shrimp &amp; Shrimp Products</b>	Esherichia coli	IS 5887 (Part 1) ISO :16649	<0.30-110 MPN/g/ml Present or Absent/g or ml
		Staphylococcus aureus	IS 5887 (Part 2) IS 5887 (Part 8/Sec I & II) ISO 6888-1	Qualitative (Present or Absent/25g or 25ml)
		Salmonella	IS 5887 (Part 3) ISO 6579-2	Qualitative (Present or Absent/25g or 25ml)
		Total plate count	IS 5402 ISO 4833-1	≥10 CFU/g or ml
		Vibrio cholerae	IS 5887 (Part 5) ISO/TS 21872-1	Qualitative (Present or Absent/25g or 25ml)
		Vibrio parahaemolyticus	IS: 5887 (Part 5) ISO/TS 21872-1	Qualitative (Present /Absent per 25 g)
		Listeria monocytogenes	IS 14988 (Part 1) ISO 11290-1	Qualitative (Present /Absent per 25 g)
		Coliforms	IS: 5401 (Part 1) ISO:4832	≥10 CFU/g
		Shigella	ISO : 21567	Qualitative (Present /Absent per 25 g)
		Clostridium perfringens	ISO:7937	≥10 CFU/g
		Bacillus cereus	IS 5887 (Part 6) ISO:7932	≥10 CFU/g

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**CHEMICAL TESTING**

I.	FOOD AND AGRICULTURAL PRODUCTS			
1.	Edible Oils and Fats	<b>General Parameters</b>		
		Moisture	5.1 (Hot Air Oven Method) IS 548 (Part 1)	0.01-5 % (m/m)
		Insoluble impurities	6 (gravimetric method) of IS 548 (Part 1)	0.1-5 % (m/m)
		Colour (Y + 5R)	13 (Lovibond Tintometer) of IS 548 (Part 1)	Upto 30 units
		Refractive Index at 40 °C	10 of IS 548 (Part 1)	1.33298- 1.56999
		Saponification value	15 of IS 548 (Part 1)	100 - 300
		Iodine value (Wijs)	14 of IS 548 (Part 1)	10 - 150
		Acid value	7 of IS 548 (Part 1)	0.5 - 10
		Unsaponifiable matter	8 of IS 548 (Part 1)	0.1 – 1.5 %
		Flash point pensky-martens(closed)	IS 1448 (part 21)	50°C-300°C
		Argemone Oil Test	Section 30.0 of FSSAI Manual of Methods of Analysis of Oils and Fats	Qualitative
		Cotton Seed Oil Test	Section 16.0 of FSSAI Manual of Methods of Analysis of Oils and Fats	Qualitative
		Castor Oil Test	Section 29.0 of FSSAI Manual of Methods of Analysis of Oils and Fats	Qualitative
	Mineral Oil Test	Section 28.0 of FSSAI Manual of Methods of Analysis of Oils and Fats	Qualitative	
	Animal Fat Presence	Section 22.0 of FSSAI Manual of Methods of Analysis of Oils and Fats	Qualitative	

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		TBHQ	Section 5.2.4 of FSSAI Manual of Methods of Analysis of Food Additives	20-200 µg/G	
		<b>Fatty Acid Profile</b>			
		Saturated Fatty acid	AOAC 20 <sup>th</sup> edition 969.33	0.1 – 100 %	
		Mono unsaturated fatty acid	AOAC 20 <sup>th</sup> edition 969.33	0.1- 100 %	
		Poly unsaturated fatty acid	AOAC 20 <sup>th</sup> edition 969.33	0.1 – 100 %	
		Trans Fatty Acids	AOAC 20 <sup>th</sup> edition 969.33	0.1 – 10 %	
<b>II.</b>	<b>RESIDUES IN FOOD PRODUCTS</b>				
<b>1.</b>	<b>Edible Oils and Fats</b>	<b>Metals and Minerals</b>	SOP 106/39 Issue No.2.0 Date 04.02.2017		
		Iron		1-100 mg/Kg	
		Zinc		0.1 – 50 mg/kg	
		Lead		0.1 - 50 mg/Kg	
		Copper		1 - 1000 mg/Kg	
		Arsenic		0.1 - 50 mg/Kg	
		Tin		0.1 - 200 mg/Kg	
		Cadmium		0.1 - 25 mg/Kg	
		Mercury		0.1 - 50 mg/Kg	
		Nickel		5.0 - 100 mg/Kg	
		Chromium		5.0 - 150 mg/Kg	
		<b>Mycotoxins and Naturally occurring Toxic Substances</b>		AOAC 20 <sup>th</sup> edition , 971.22	
		Aflatoxin B1			0.25-4.0 µg/Kg
		Aflatoxin B2			0.0625-1.0 µg/Kg
	Aflatoxin G1		0.125-1.0 µg/Kg		
	Aflatoxin G2		0.0625-1.0 µg/Kg		
	<b>Pesticide Residues</b>	304 EPA-PAM, volume 1			
	Acephate		10 - 200 µg/Kg		

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		Alachlor		10 - 200 µg/Kg
		Benomyl		10 - 200 µg/Kg
		Bitertanol		10 - 200 µg/Kg
		Carbendazim		10 - 200 µg/Kg
		Carbofuran (sum of carbofuran and 3-hydroxy carbofuran expressed as carbofuran)		10 - 200 µg/Kg
		Chlorienvinphos		10 - 200 µg/Kg
		Chlorothalonil		10 - 200 µg/Kg
		Clomazone		10 - 200 µg/Kg
		Cypermethrin (sum of all isomers, fat soluble residue)		10 - 200 µg/Kg
		Imazethapyr		10 - 200 µg/Kg
		Indoxacarb		10 - 200 µg/Kg
		Methamido-phos (A metabolite of Acephate)		10 - 200 µg/Kg
		Metolachlor		10 - 200 µg/Kg
		Myclobutanil		10 - 200 µg/Kg
		Oxyflufen		10 - 200 µg/Kg
		Pendimethalin		10 - 200 µg/Kg
		Permethrin		10 - 200 µg/Kg
		Phenthoate		10 - 200 µg/Kg
		Phorate (sum of phorate, its oxygen analogue and their sulphoxides and sulphones, expressed as phorate)		10 - 200 µg/Kg
		Phosalone		10 - 200 µg/Kg

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2.	<b>Cereals, Pulses &amp; Cereal Products</b>	Moisture	Section 2.0 of FSSAI Manual of Methods of Analysis of Cereal and Cereal Products	0.1 % to 40.0 %
		Gluten (Dry Basis)	Section 8.4 of FSSAI Manual of Methods of Analysis of Cereal and Cereal Products	1.0 % to 15 %
		Alcoholic acidity (as H <sub>2</sub> SO <sub>4</sub> ) with 90 % alcohol.	Section 8.5 of FSSAI Manual of Methods of Analysis of Cereal and Cereal Products	0.01 % to 5 %
		Total Ash (on Dry Basis)	Section 8.2 of FSSAI Manual of Methods of Analysis of Cereal and Cereal Products	0.01-15%
		Acid Insoluble Ash in dilute HCl (on Dry Basis)	Section 8.3 of FSSAI Manual of Methods of Analysis of Cereal and Cereal Products	0.01 % to 5 %
		Crude Fiber (on Dry Basis)	AOAC 20 <sup>th</sup> edition 962.09 - fiber in foods IS 10226 (Part 1)	0.1 – 17 percent m/m
		Dietary Fiber (on dry basis)	AOAC 20 <sup>th</sup> edition 2001.03 (Gravimetric Method).	0.1 - 45 percent m/m
		Crude Protein	Section 8.7 of FSSAI Manual of Methods of Analysis of Cereal and Cereal Products	0.1 % to 40 %
		Crude Fat	AOAC 20 <sup>th</sup> edition 2003.06 (Hexane Extraction)-All Foods	0.1 % to 25 %
		Mono Unsaturated Fatty Acids (MUFA)	AOAC 20 <sup>th</sup> edition 2000.10 - Fatty Acid Profile,	0.1 – 100 percent relative

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		Poly Unsaturated Fatty acids (PUFA)		0.1 – 100 percent relative
		Transfat		0.1 – 100 percent relative
		Cholesterol	AOAC 20 <sup>th</sup> edition 994.10 – cholesterol	0.1 – 100 percent m/m
		Total Sugars (reducing and non reducing)	AOAC 20 <sup>th</sup> edition 939.03	0.1 – 100 %
		Energy	AOAC 20 <sup>th</sup> edition 986.25	0.1 – 500 Kcal
		Husk of foreign food grains	Section 1.2 of FSSAI Manual of Methods of Analysis of Cereal and Cereal Products	0.1 % to 10 %
		Foreign Matter	IS:4333(part-1)	0.1 % to 10 %
		Admixture and other food grains		0.1 % to 10 %
		Slightly Damaged and touched Grains		0.1 % to 10 %
		Shrivelled & Immature Grains		0.1 % to 10 %
		Insect Damaged grains/beans		0.1 % to 10 %
		Broken/Split beans		0.1 % to 10 %
		Varietal Admixture		0.1 % to 10 %
		Damaged & Discoloured grains		0.1 % to 10 %
		Fragments		0.1 % to 10 %
		Kernels with husk.		0.1 % to 10 %
		Red Grains (Rice)		0.1 % to 10 %
		Chalky Grains (Rice)		0.1 % to 10 %
		<b>Metals and Minerals</b>	SOP No.106/39 Issue No.2.0 Date 04.02.2017	
		Iron		1-100 mg/Kg
		Calcium		1-1000 mg/kg
		Magnesium		1-5000 mg/kg
		Lead		0.1 - 50 mg/Kg

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		Copper		1 - 100 mg/Kg
		Arsenic		0.1 - 50 mg/Kg
		Tin		0.1 - 50mg/Kg
		Zinc		5 - 200 mg/Kg
		Cadmium		0.1 - 25 mg/Kg
		Mercury		0.1 - 50 mg/Kg
		Nickel		0.5 - 100 mg/Kg
		Chromium		0.1 - 150 mg/Kg
		<b>Mycotoxins</b>	SOP 106/67 Issue No.01, Issue Date :25.01.2017	
		Aflatoxin B1		0.25-4.0 µg/Kg
		Aflatoxin B2		0.0625-1.0 µg/Kg
		Aflatoxin G1		0.125-1.0 µg/Kg
		Aflatoxin G2		0.0625-1.0 µg/Kg
		Ochratoxin A (Wheat, Barley and Rye based products)		0.25-4.0 µg/Kg
		<b>Pesticide Residues</b>	EN 15662 (GC-MS-MS)	
		Alachlor		10 - 200 µg/Kg
		Atrazine		10 - 200 µg/Kg
		Benfuracarb		10 - 200 µg/Kg
		Chlorienvinphos (E)		10 - 200 µg/Kg
		Chlorienvinphos (Z)		10 - 200 µg/Kg
		Chlorpyrifos		10 - 200 µg/Kg
		Cypermethrin (sum of all isomers, fat soluble residue)		10 - 200 µg/Kg
		Cypermethrin 1		10 - 200 µg/Kg
		Cypermethrin 2		10 - 200 µg/Kg
		Cypermethrin 3		10 - 200 µg/Kg
		Cypermethrin 4		10 - 200 µg/Kg
		Deltamethrin 1		10 - 200 µg/Kg
		Deltamethrin 2		10 - 200 µg/Kg
		Edifenfos		10 - 200 µg/Kg

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Convenor

N. Venkateswaran  
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		Endosulfan (residues to be determined and reported as total endosulfan A and B and endosulfan-sulphate)		10 - 200 µg/Kg
		Endosulfan A	EN 15662:2008 (LC-MS-MS)	10 - 200 µg/Kg
		Endosulfan B		10 - 200 µg/Kg
		Endosulfan Sulfate		10 - 200 µg/Kg
		Ethofenprox		10 - 200 µg/Kg
		Kitazin		10 - 200 µg/Kg
		Malathion (Malathion to be determined and expressed as combined residues of malathion and malaoxon)		10 - 200 µg/Kg
		Malaoxon		10 - 200 µg/Kg
		Metasulfuron-methyl		10 - 200 µg/Kg
		Pendimethalin		10 - 200 µg/Kg
		Pretilachlor		10 - 200 µg/Kg
		Trifluralin		10 - 200 µg/Kg
		α-HCH		10 - 200 µg/Kg
		β-HCH		10 - 200 µg/Kg
		δ-HCH		10 - 200 µg/Kg
		γ-HCH		10 - 200 µg/Kg
		2,4-D		10 - 200 µg/Kg
		Anilophos		10 - 200 µg/Kg
		Benomyl		10 - 200 µg/Kg
		Bitertanol		10 - 200 µg/Kg
		Buprofezin		10 - 200 µg/Kg
		Butachlor		10 - 200 µg/Kg
		Carbaryl		10 - 200 µg/Kg
		Carbendazim		10 - 200 µg/Kg

Rini Narayan  
Convenor

N. Venkateswaran  
Program Director

**Laboratory** Vimta Labs Ltd., Visakhapatnam Branch, No. 9-13-45/2-9-3, 3<sup>rd</sup> Floor, N Circle, VIP Road, Visakhapatnam, Andhra Pradesh

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		Carbofuran (sum of carbofuran and 3-hydroxy carbofuran expressed as carbofuran)		10 - 200 µg/Kg
		Carpropamid		10 - 200 µg/Kg
		Cartap hydrochloride		10 - 200 µg/Kg
		Chlorimuron-ethyl		10 - 200 µg/Kg
		Clodinafop-propargyl		10 - 200 µg/Kg
		Clomazone		10 - 200 µg/Kg
		Cyhalofop-butyl		10 - 200 µg/Kg
		Diclofop-methyl		10 - 200 µg/Kg
		Diuron		10 - 200 µg/Kg
		Ethion (Residues to be determined as ethion and its oxygen analogue and expressed as ethion)		10 - 200 µg/Kg
		Ethoxysulfuron		10 - 200 µg/Kg
		Fenobucarb		10 - 200 µg/Kg
		Fenoxypropargyl		10 - 200 µg/Kg
		Fenthion (sum of fenthion, its oxygen analogue and their sulphoxides and sulphones)		10 - 200 µg/Kg
		Flufenacet		10 - 200 µg/Kg
		Imidacloprid		10 - 200 µg/Kg
		Iprodione		10 - 200 µg/Kg
		Isoprothiolane		10 - 200 µg/Kg
		Isoproturon		10 - 200 µg/Kg
		Metalaxyl		10 - 200 µg/Kg
		Methabenzthiazuron		10 - 200 µg/Kg
		Methyl Chloro-phenoxy-		10 - 200 µg/Kg

Rini Narayan  
Convenor

N. Venkateswaran  
Program Director

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		acetic acid (MCPA)		
		Monocrotophos		10 - 200 µg/Kg
		Oxadiargyl		10 - 200 µg/Kg
		Oxyflufen		10 - 200 µg/Kg
		Paraquat Dichloride (determined as paraquat cations)		10 - 200 µg/Kg
		Phenthoate		10 - 200 µg/Kg
		Phorate (sum of phorate, its oxygen analogue and their sulphoxides and sulphones, expressed as phorate)		10 - 200 µg/Kg
		Phosphamidon residues (expressed as the sum of phosphamidon and its desethyl derivatives).		10 - 200 µg/Kg
		Propiconazole		10 - 200 µg/Kg
		Pyrazosulfuron ethyl		10 - 200 µg/Kg
		Pyrethrins (Sum of pyrethrins I & II and other structurally related insecticide ingredients of pyrethrum)		10 - 200 µg/Kg
		Quinalphos		10 - 200 µg/Kg
		Simazine		10 - 200 µg/Kg
		Sulfosulfuron		10 - 200 µg/Kg
		Tebuconazole		10 - 200 µg/Kg
		Thiamethoxam		10 - 200 µg/Kg
		Thiochlorid		10 - 200 µg/Kg
		Thiometon (Residues determined as		10 - 200 µg/Kg

Rini Narayan  
Convenor

N. Venkateswaran  
Program Director

Laboratory

Vimta Labs Ltd., Visakhapatnam Branch, No. 9-13-45/2-9-3, 3<sup>rd</sup> Floor,  
N Circle, VIP Road, Visakhapatnam, Andhra Pradesh

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		thiometon its sulfoxide and sulphone expressed as thiometon)		
		Triadimefon		10 - 200 µg/Kg
		Triallate		10 - 200 µg/Kg
		Triazophos		10 - 200 µg/Kg
		Trichlorfon		10 - 200 µg/Kg
		Tricyclazone		10 - 200 µg/Kg
		Tridemorph		10 - 200 µg/Kg
		Inorganic Bromide	EPA 300.1 (Ion Chromatography)	1-100 mg/Kg
3.	<b>Herbs, Spices &amp; Condiments</b>	<b>General Parameters</b>		
		Moisture	Section 3.0 of FSSAI Manual of Methods of Analysis of Spices and Condiments	0.1-40 %
		Organic Extraneous Matter	Section 2.0 of FSSAI Manual of Methods of Analysis of Spices and Condiments.	0.1-10%
		Inorganic Extraneous Matter		0.1-10 %
		Unripened & Marked Fruits (Chillies)		0.1-10 %
		Broken Fruits and Fragments		0.01-15%
		Total Ash (on dry basis)	Section 4.0 of FSSAI Manual of Methods of Analysis of Spices and Condiments	0.5-15%
		Ash insoluble in dil HCl (on dry basis)	Section 5.0 of FSSAI, Manual of Methods of Analysis of Spices and Condiments	0.1-5%

Rini Narayan  
Convenor

N. Venkateswaran  
Program Director



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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
		Insect Damaged Matter	Section 2.0 of FSSAI Manual of Methods of Analysis of Spices and Condiments	0.1-10 %
		Volatile oil	Section 10.0 of FSSAI Manual of Methods of Analysis of Spices and Condiments Distillation Method.	0.5 % to 10 % (ml/100ml)
		Defective Rhizomes	Section 2.0 of FSSAI Manual of Methods of Analysis of Spices and Condiments	0.5 % to 10 %
		Curcuminoid content (dry weight basis)	Section 15.4 of FSSAI Manual of Methods of Analysis of Spices and Condiments Spectrophotometric Method	0.5 % to 10 %
		Cut Bulbs	Section 2.0 of FSSAI Manual of Methods of Analysis of Spices and Condiments	Qualitative
		Lead Chromate Test	Section 15.6 of FSSAI Manual of Methods of Analysis of Spices and Condiments	Qualitative
		<b>Metals and Minerals</b>	SOP 106/39 Issue No.2.0 Date 04.02.2017	
		Iron		1-100 mg/Kg
		Calcium		1-5000mg/kg
		Magnesium		1-500 mg/kg
		Sodium		1-500 mg/kg
		Potassium		1-5000 mg/kg
		Zinc		0.5-50 mg/kg
		Lead		0.1 - 50 mg/Kg

**Rini Narayan**  
Convenor

**N. Venkateswaran**  
Program Director

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Copper		5 - 100 mg/Kg
		Arsenic		0.1 - 50 mg/Kg
		Tin		0.10 - 25 mg/Kg
		Cadmium		0.1 - 25 mg/Kg
		Mercury		0.1 - 50 mg/Kg
		Nickel		5.0 - 100 mg/Kg
		Chromium		5.0 - 150 mg/Kg
		<b>Mycotoxins</b>	AOAC 20 <sup>th</sup> edition 2008.02	
		Aflatoxin B1		0.25- 4.0 µg/Kg
		Aflatoxin B2		0.0625-1.0 µg/Kg
		Aflatoxin G1		0.125-1.0 µg/Kg
		Aflatoxin G2		0.0625-1.0 µg/Kg
		<b>Pesticide Residues</b>	EN 15662:2008 (LC-MS-MS)	
		Formothion (Determined as as diemthoate and its oxygen analogue and expressed as dimethoate except in case of citrous fruits where it is to be determined as formothion)		10 - 200 µg/Kg
		Monocrotophos		10 - 200 µg/Kg
		Quinalphos		10 - 200 µg/Kg
		Endosulfan A		10 - 200 µg/Kg
		Endosulfan B		10 - 200 µg/Kg
		Endosulfan Sulphate		10 - 200 µg/Kg
<b>III.</b>	<b>MARINE/ AQUACULTURE FOOD PRODUCTS</b>			
<b>1.</b>	<b>Marine/ Aquaculture Food Products</b>	<b>Antibiotic Residues</b>		
		Chloramphenicol	SOP 106/66: LC-MS/MS, version/issue No. 1.0,	0.1-50µg/Kg
		Metabolites of		0.5 - 50 µg/Kg

Rini Narayan  
Convenor

N. Venkateswaran  
Program Director

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		Nitrofuran - AOZ	2017-01-27	
		Metabolites of Nitrofuran - AMOZ		0.5 - 50 µg/Kg
		Metabolites of Nitrofuran - AHD		0.5 - 50 µg/Kg
		Metabolites of Nitrofuran - SEM		0.5 - 50 µg/Kg
		Tetracycline		10 - 200 µg/Kg
		4-epitetracycline		10 - 200 µg/Kg
		Oxy tetracycline		10 - 200 µg/Kg
		4-epi oxytetracycline		10 - 200 µg/Kg
		Chlortetracycline		10 - 200 µg/Kg
		4-epi chlortetracycline		10 - 200 µg/Kg
		<b>Quinolones/ Fluoroquinolones</b>		
		Oxolinic acid		10 - 200 µg/Kg
		Difloxacin		10 - 200 µg/Kg
		Enrofloxacin (sum of Enrofloxacin & Ciprofloxacin)		10 - 200 µg/Kg
		Danofloxacin		10 - 200 µg/Kg
		Flumequine		10 - 200 µg/Kg
		Norfloxacin		10 - 200 µg/Kg
		Nalidixic acid		10 - 200 µg/Kg
		Sarafloxacin		5-80 µg/Kg
		<b>Sulfonamides</b>		
		Sulfadiazine		5 - 200 µg/Kg
		Sulfamethoxazole		5 - 200 µg/Kg
		Sulfamethoxypyridine		5 - 200 µg/Kg
		Sulfamethazole		5 - 200 µg/Kg
		Sulfamethazine		5 - 200 µg/Kg
		Sulfamerazine		5 - 200 µg/Kg
		Sulfapyridine		5 - 200 µg/Kg

Rini Narayan  
Convenor

N. Venkateswaran  
Program Director

**Laboratory** Vimta Labs Ltd., Visakhapatnam Branch, No. 9-13-45/2-9-3, 3<sup>rd</sup> Floor, N Circle, VIP Road, Visakhapatnam, Andhra Pradesh

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		Sulfadimethaxine		5 - 200 µg/Kg
		Sulfachloropyradizine		5 - 200 µg/Kg
		Sulfathiozole-Free Acid		5 - 200 µg/Kg
		<b>Metals</b>		
		Arsenic	SOP No.106/39, Issue 2.0, Date 04.02.2017	0.05 - 50 mg/Kg
		Cadmium		0.05 - 25 mg/Kg
		Lead		0.05 - 50 mg/Kg
		Copper		5 - 100 mg/Kg
		Tin		0.10 - 200 mg/Kg
		Zinc		5 - 200 mg/Kg
		Mercury		0.001 - 20 mg/Kg
		Nickel		0.1 - 100 mg/Kg
		Chromium		0.1 - 100 mg/Kg
		<b>Pesticide Residues</b>	SOP 106/12: /issue no. 1.0, 2016-05-22.	
		DDT (The limits apply to D.D.T., D.D.D. and D.D.E. singly or in any combination form)		
		2,4-DDE		20 - 200 µg/Kg
		4,4-DDE		20 - 200 µg/Kg
		2,4-DDD		10 - 200 µg/Kg
		4-4-DDD		10 - 200 µg/Kg
		2,4-DDT		10 - 200 µg/Kg
		4,4-DDT		10 - 200 µg/Kg
		Endosulfan A		10 - 200 µg/Kg
		Endosulfan B		10 - 200 µg/Kg
		Endosulfan sulphate		10 - 200 µg/Kg
		α-HCH		10 - 200 µg/Kg
		β-HCH		10 - 200 µg/Kg
		γ-HCH		10 - 200 µg/Kg
		δ-HCH		10 - 200 µg/Kg
		Dieldrin		10 - 200 µg/Kg
		Aldrin		10 - 200 µg/Kg

Rini Narayan  
Convenor

N. Venkateswaran  
Program Director

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		Endrin		10 - 200 µg/Kg
		Heptachlor		10 - 200 µg/Kg
		HCB		10 - 200 µg/Kg
		Chlordane - Cis		10 - 200 µg/Kg
		Chlordane - Trans		10 - 200 µg/Kg
		<b>PCBs</b>		
		Trichlorobiphenyl (PCB 28)	SOP 106/11: issue No. 1.0, 2016-05-22.	5 - 100 µg/Kg
		Tetrachlorobiphenyl (PCB 52)		5 - 100 µg/Kg
		Pentachlorobiphenyl (PCB 101)		5 - 100 µg/Kg
		Hexachlorobiphenyl (PCB 138)		5 - 100 µg/Kg
		Hexachlorobiphenyl (PCB 153)		5 - 100 µg/Kg
		Heptachlorobiphenyl(P CB 180)		5 - 100 µg/Kg
<b>IV.</b>	<b>WATER</b>			
<b>1.</b>	<b>Surface Water, Ground Water, Drinking Water , Packaged Drinking Water, Construction Water, Irrigation Water &amp; Water from Purifiers</b>	<b>Physico Chemical Parameters</b> Dissolved Oxygen	4500-O, APHA (22nd edition)/ AOAC 20 <sup>th</sup> edition 973.45,	1 - 9 mg/L
		Color	IS 3025 (Part 4), APHA (22nd edition) 2150	1 - 50 Pt-Co Units
		Turbidity	IS 3025 (Part 10); 2130 B APHA (22nd edition)	0.1 – 10 NTU
		Conductivity	IS 3025 (Part 14) 2510 B, APHA (22nd edition)	0.01-1000 µs/cm
		pH	IS 3025 (Part 11), 4500 B, APHA (22nd edition)	1 - 14

Rini Narayan  
Convenor

N. Venkateswaran  
Program Director

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		Total Hardness	IS 3025 (Part 21), 2340 B&C, APHA (22 <sup>nd</sup> edition)	1 - 100 mg/L
		Odour	IS 3025 (Part 5), 2150, APHA (22 <sup>nd</sup> edition)	Qualitative
		Fluoride	IS 3025 (Part 60,1.2) : APHA 4500 F- D (SPADNS method), 22 <sup>nd</sup> Edition	0.1 - 19 mg/L
		Magnesium	IS 3025 (Part 46),	1-1000 mg/L
		Calcium	IS 3025 (Part 46)	1-1000 mg/L
		Ammonical Nitrogen	IS: 3025 P-34, 4500-NH3 – B & C, APHA 22 <sup>nd</sup> edition, AOAC 973.48 (Distillation followed by Titrimetric Method)	0.01 - 0.6 mg/L
		Nitrite	IS: 3025 Part 34 (Spectrophotometric Method)/	0.02 - 10 mg/L
		Nitrates	APHA 4500- NO3- B (Spectrophotometric Method) (22 <sup>nd</sup> edition);	0.1 - 10 mg/L
		Total Solids	2540-B, APHA (22 <sup>nd</sup> edition); IS 3025 (Part 15),	1 – 10000 mg/L
		Suspended Solids	2540-D APHA (22 <sup>nd</sup> edition)	1 – 200 mg/L
		Total Alkalinity	IS: 3025 Part 23, 2320 APHA (22 <sup>nd</sup> edition,)	10 – 1000 mg/L
		Hydrogen Sulfide	4500-S <sup>-2</sup> , APHA (22 <sup>nd</sup> edition); IS 3025-Part 29, (Methylene Blue Method),	0.05 – 100 mg/L
		Chlorides	4500-Cl <sup>-</sup> , APHA (22 <sup>nd</sup> edition); IS 3025 (Part 32), (Titrimetric Method);	10 – 1000 mg/L

**Rini Narayan**  
Convenor

**N. Venkateswaran**  
Program Director

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		Sulphates	IS:3025(Part-24, 4) 4500 SO <sub>4</sub> <sup>2-</sup> E, APHA (22nd edition,) (Turbidity Method)	1- 1000 mg/L
		Boron	4500-B A & 3125, APHA (22nd edition,) ICP-MS.	0.01 – 0.5 mg/L
		Borate	Annexure H of IS 13428	0.1-1.0 mg/L
		Taste	IS : 3025 Part 7&8	Qualitative
		Dissolved solids at 180°C	IS : 3025 (Part 16)	1-5000 mg/L
		Anionic surface active agents(as MBAS)	Annex K of IS:13428	0.01 mg/L to 2 mg/L
		Chloramines (asCl <sub>2</sub> )	IS: 3025 (Part 26)	0.05-10 mg/L
		Free residual chlorine	IS : 3025 (Part 26)	0.1- 500 mg/L
		Mineral Oil	Clause 6 of IS:3025 (Part 39)	4-100 mg/L
		Phenolic Compounds	IS:3025 Part 43, clause 6)	0.001- 5.0 mg/L
		Cyanide	Clause-2 of IS : 3025 (Part 27)	0.02 -10 mg/L
<b>V.</b>	<b>Residues in Water</b>			
<b>1.</b>	<b>Surface Water, Ground Water, Drinking Water, Packaged Drinking Water, Construction Water, Irrigation Water &amp; Water from Purifiers</b>	<b>Metals</b>	APHA (22nd Edition) 3125 (ICP-MS)	
		Antimony		0.005- 0.1 mg/L
		Barium as Ba		0.01- 0.1 mg/L
		Total Arsenic		0.01 - 0.1 mg/L
		Total Chromium		0.01 - 0.5 mg/L
		Copper		0.010 - 2.0 mg/L
		Lead		0.01 – 0.1mg/L
		Aluminium		0.01 - 2.0 mg/L
		Molybdenum as Mo		0.01 - 0.1 mg/L
		Manganese		0.01 - 2.0 mg/L
		Mercury		0.01 - 0.1 mg/L
	Selenium	0.01 - 0.05 mg/L		

**Rini Narayan**  
Convenor

**N. Venkateswaran**  
Program Director

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N Circle, VIP Road, Visakhapatnam, Andhra Pradesh

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		Silver as Ag		0.01 - 0.1 mg/L
		Zinc		0.010 - 2.0 mg/L
		Iron		0.10 - 2.0 mg/L
		Cadmium		0.003 - 0.005 mg/L
		Nickel		0.01 - 0.10 mg/L
		Sodium	IS : 3500-Na, APHA (22nd edition (Flame Photometer)	1 – 1000 mg/L
		Potassium	IS : 3500-Na, APHA (22nd edition (Flame Photometer)	1.0 – 500 mg/L

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Rini Narayan  
Convenor

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N. Venkateswaran  
Program Director