

Laboratory **Vimta Labs Limited, 3<sup>rd</sup> Floor, McArcade, Mini Bypass Road, Magunta Layout, Nellore (Dt.), Andhra Pradesh**

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

Certificate Number **TC-5644**

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Validity **23.11.2018 to 22.11.2020**

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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 AND AGRICULTURAL PRODUCTS</b>			
1.	<b>Bakery &amp; Confectionery Products</b>	Bacterial Count (Total Plate Count)	IS 5402 ISO 4833	≥10 CFU/g
		Coliform count	IS 5401 (Part-1) ISO 4832	≥10 CFU/g
		Yeasts & Mould count	IS 5403	≥10 CFU/g
		Escherichia coli	IS 5887 (Part-1)	Qualitative (Present or Absent/g)
		Salmonella	IS 5887 (Part-3) ISO 6579 FDA-BAM Chapter 5	Qualitative (Present or Absent/25g)
		Shigella	IS 5887 (Part-7)	Qualitative (Present or Absent/25g)
		Staphylococcus aureus	IS 5887 (Part-2)	≥100 CFU/g Present or Absent/g
		Bacillus cereus	IS 5887 (Part-6 ) ISO 7932	≥10 CFU/g or ≥100 CFU/g
		Clostridium perfringens	IS 5887 (Part-4)	Qualitative (Present or Absent/25g)
		Vibrio cholerae	IS 5887 (Part-5)	Qualitative (Present or Absent/25g)
		Vibrio parahaemolyticus	IS 5887 (Part-5)	Qualitative (Present or Absent/25g)
		Listeria monocytogenes	IS 14988 (Part-1) ISO 11290-1	Qualitative (Present or Absent/25g)
2.	<b>Milk &amp; Dairy products</b>	Bacterial Count (Total Plate Count)	IS 5402 ISO 4833	≥1 CFU/g or ml ≥10 CFU/g or ml
		Coliform count	IS 5401 (Part-1) ISO 4832	≥1 CFU/g or ml ≥10 CFU/g or ml
		Yeasts & Mould count	IS 5403	≥1 CFU/g or ml ≥10 CFU/g or ml

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		Escherichia coli	IS 5887 (Part-1)	Qualitative (Present or Absent/g or ml)
		Salmonella	IS 5887 (Part-3 ) ISO 6579	Present or Absent/ 25g or 25ml
		Shigella	IS 5887 (Part-7)	Present or Absent/ 25g or 25ml
		Staphylococcus aureus	IS 5887 (Part-2)	≥10 CFU/g or ml ≥100 CFU/g
		Bacillus cereus	IS 5887 (Part-6) ISO 7932	≥10 CFU/g or ml ≥100 CFU/g
		Clostridium perfringens	IS 5887 (Part-4)	≥10 CFU/g or ml ≥100 CFU/g
		Listeria monocytogenes	IS 14988 (Part-1) ISO 11290-1	Qualitative (Present or Absent/25g or 25 ml/g or ml)
3.	<b>Canned &amp; Processed Foods</b>	Bacterial Count (Total Plate Count)	IS 5402/ ISO 4833	≥10 CFU/g
		Coliform count	IS 5401 (Part-1) ISO 4832	≥10 CFU/g
		Yeasts & Mould count	IS 5403	≥10 CFU/g
		Escherichia coli	IS 5887 (Part-1)	Qualitative (Present or Absent/g)
		Salmonella	IS 5887 (Part-3) ISO 6579/FDA-BAM Chapter 5	Qualitative (Present or Absent/25g)
		Shigella	IS 5887 (Part-7)	Qualitative (Present or Absent/25g)
		Staphylococcus aureus	IS 5887 (Part-2)	≥100 CFU/g Present or Absent/g
		Bacillus cereus	IS 5887 (Part-6) ISO 7932	≥100 CFU/g
		Clostridium perfringens	IS 5887 (Part-4)	Qualitative (Present or Absent/25g)

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		Vibrio cholerae	IS 5887 (Part-5)	Qualitative (Present or Absent/25g)
		Vibrio parahaemolyticus	IS 5887 (Part-5)	Qualitative (Present or Absent/25g)
		Listeria monocytogenes	IS 14988 (Part-1) ISO 11290-1	Qualitative (Present or Absent/25g)
		pH (Incubation test)	APHA 5 <sup>th</sup> Edition, Chapter 61 (Clause 61.41 & 61.46)	Change/ No changes in pH
		Aciduric Flat sour organisms	APHA 5 <sup>th</sup> Edition Chapter 25 (Clause 25.64)	Qualitative (Present or Absent/25g)
4.	<b>Fruit &amp; Fruit Products</b>	Bacterial Count (Total Plate Count)	IS 5402 ISO 4833	≥1 CFU/ml or ≥10 CFU/g
		Coliform count	IS 5401 (Part-1) ISO 4832	≥1 CFU/ml or ≥10 CFU/g
		Yeasts & Mould count	IS 5403	≥1 CFU/ml or ≥10 CFU/g
		Escherichia coli	IS 5887 (Part-1)	Qualitative (Present or Absent/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)
		Staphylococcus aureus	IS 5887 (Part-2)	Qualitative (Present or Absent/g or ml)
		Vibrio cholerae	IS 5887 (Part-5)	Qualitative (Present or Absent/25g or ml)
		Listeria monocytogenes	IS 14988 (Part-1) ISO 11290-1	Qualitative (Present or Absent/25g or 25 ml)

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		pH (Incubation test)	APHA 5 <sup>th</sup> Edition, Chapter 61 (Clause 61.41 & 61.46)	Qualitative Change/No changes in pH
		Aciduric Flat sour organisms	APHA 5 <sup>th</sup> Edition Chapter 25 (Clause 25.64)	Qualitative (Present or Absent/25g or ml)
<b>II.</b>	<b>MARINE AND AQUA CULTURES</b>			
<b>1.</b>	<b>Fish &amp; Sea Foods</b>	Total Plate Count	IS 5402 ISO 4833-1	≥10 CFU/g
		Coliform count	IS 5401 (Part-1) ISO 4832	≥10 CFU/g
		Esherichia coli	ISO :16649-2	≥10 CFU/g
		Salmonella	IS 5887 (Part-3) ISO 6579-1	Qualitative (Present or Absent/25g)
		Shigella	ISO 21567	Qualitative (Present or Absent/25g)
		Staphylococcus aureus	IS 5887 (Part-8)/Sec-1 ISO 6888-1	≥100 CFU/g
		Vibrio cholerae	ISO 21872-1	Qualitative (Present or Absent/25g)
		Vibrio parahaemolyticus	ISO 21872-1	Qualitative (Present or Absent/25g)
		Listeria monocytogenes	IS 14988 (Part-1) ISO 11290-1	Qualitative (Present or Absent/25g)
<b>III.</b>	<b>WATER</b>			
<b>1.</b>	<b>Packaged Drinking Water</b>	Aerobic Microbial Count (at 22°C)	IS 5402	≥ 1CFU/ml
		Aerobic Microbial Count (at 37°C)	IS 5402	≥ 1CFU/ml
		Coliforms	IS15185 ISO 9308-1	Qualitative (Present or Absent/250ml)

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		Esherichia coli	IS15185 ISO 9308-1	Qualitative (Present or Absent/250ml)
		Yeast & Mould	IS 5403	Qualitative (Present or Absent/250ml)
		Pseudomonas aeruginosa	IS13428 (Annex. D)	Qualitative (Present or Absent/250ml)
		Staphylococcus aureus	IS 5887 (Part-2)	Qualitative (Present or Absent/250ml)
		Faecal Streptococci	IS15186	Qualitative (Present or Absent/250ml)
		Shigella	IS 5887 (Part-7)	Qualitative (Present or Absent/250ml)
		Salmonella	IS 15187	Qualitative (Present or Absent/250ml)
		Vibrio cholera	IS 5887 (Part-5)	Qualitative (Present or Absent/250ml)
		Vibrio parahaemolyticus	IS 5887 (Part-5)	Qualitative (Present or Absent/250ml)
		Sulphite reducing anaerobes	IS 13428 (Annex. C)	Qualitative (Present or Absent/50ml)
<b>2.</b>	<b>Drinking water</b>	Coliform count	IS 1622	<2 to 1600 MPN/100ml
		Esherichia coli	IS 1622	<2 to 1600 MPN/100 ml

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3.	Water for Processed Food Industry	Coliform count	IS 1622	<2 to 1600 MPN/100ml
		Standard Plate Count	IS 1622	≥ 1CFU/ml
		Proteolytic bacterial count	IS 4251 Annex: A-1	≥ 1CFU/ml
		Lipolytic bacterial count	IS 4251 Annex: A-2	≥ 1CFU/ml

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

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**CHEMICAL TESTING**

I.	<b>RESIDUES IN FOOD PRODUCTS</b>			
1.	<b>Marine/Aquaculture Food Products</b>			
	<b>Prawn and Prawn Products (Fresh, Frozen &amp; canned)/ Shrimp (Fresh, Frozen &amp; canned) Fish and Fish Products (Fresh, Frozen &amp; canned)</b>	<b>Antibiotics</b>	SOP No. 106/89 Issue no.3.0, Issue Date:22.08.2017	0.15 µg/kg to 1.5 µg/kg
		Chloramphenicol	SOP No. 106/93 Issue no.3.0, Issue Date:22.08.2017	0.3 µg/kg to 4 µg/kg
		3-Amino-2-Oxazolidinone(AOZ)		0.2 µg/kg to 4 µg/kg
		3-Amino-5-morpholinomethyl-2-oxazolidinone (AMOZ)		0.2 µg/kg to 4 µg/kg
		1-Amino Hydantoin (AHD)		0.2 µg/kg to 4 µg/kg
		Semicarbazide (SEM)	SOP No. 106/88 Issue no.3.0, Issue Date:22.08.20172	10 µg/kg to 200 µg/kg
		Tetracycline		
		4-epitetracycline		10 µg/kg to 200 µg/kg
		Oxy tetracycline		
		4-epi oxytetracycline		10 µg/kg to 200 µg/kg
		Chloretetracycline		
		4-epi chlortetracycline		
		<b>Poly chlorinated biphenyls</b>	SOP No. 106/92 Issue no.2.0, Issue Date: 17.07.2017	2.5 µg/kg to 100 µg/kg
		PCBs (Trichlorobiphenyl)		
		PCBs (Tetrachlorobiphenyl)		
	PCBs (Pentachlorobiphenyl)			
	PCBs (Hexachlorobiphenyl 1)			
	PCBs			

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		(Hexachlorobiphenyl 1) PCBs		
		(Hexachlorobiphenyl 2) PCBs		
		(Heptachlorobiphenyl) <b>Pesticides</b>		
		DDT (The limits apply to D.D.T., D.D.D. and D.D.E. singly or in any combination form.	SOP No. 106/91 Issue no.2.0, Issue Date:17.07.2017	10 µg/kg-200 µg/kg
		2,4-DDE		
		4,4-DDE		
		2,4-DDD		
		4-4-DDD		
		2,4-DDT		
		4,4-DDT		
		α-HCH		
		β-HCH		
		γ-HCH		
		Dieldrin		
		Endrin		
		Aldrin		
		Heptachlor		
		HCB		
		Cis-Chlordane		
		Trans-Chlordane		
		<b>Trace Metals</b>	<b>Trace Metals</b>	
		Arsenic	SOP No. 106/90 Issue no.1.0, Issue Date: 17.07.2017	200 µg/kg to 1500 µg/kg
		Cadmium		100 µg/kg to 1000 µg/kg
		Lead		100 µg/kg to 1000 µg/kg
		Mercury		100 µg/kg to 1000 µg/kg
		Tin	SOP No. 106/193 Issue	50 µg/kg to 800 µg/kg



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		Zinc	no.1.0 , Issue Date:01.07.2018	0.5 µg/kg to 50 µg/kg
		Copper		0.5 µg/kg to 50 µg/kg
		Nickel		50 µg/kg to 50000 µg/kg
		Chromium		0.5 µg/kg to 50 µg/kg
		Total Volatile Basic Nitrogen (TVB-N)	Commission Decision, 95/149/EC, 1995 Annexure II	5.0 mg/100 grams to 100 mg/100 grams
2.	<b>Oils &amp; Fats</b> Edible oils, Soya bean oil, sun flower oil, rice bran oil, palmolein oil, mustard oil & Ground nut oil	<b>Trace Metals</b>		
		Lead	SOP No. 106/193 Issue no.1.0 , Issue Date:01.07.2018	0.05 mg/kg to 25 mg/kg
		Copper		0.5 mg/kg to 50 mg/kg
		Arsenic		0.05 mg/kg to 5 mg/kg
		Tin		0.05 mg/kg to 5 mg/kg
		Zinc		0.5 mg/kg to 50 mg/kg
		Cadmium		0.05 mg/kg to 50 mg/kg
		Mercury		0.05 mg/kg to 5.0 mg/kg
		Nickel		0.05 mg/kg to 50 mg/kg
		Chromium		0.5 mg/kg to 50 mg/kg
II.	<b>ANIMAL FOOD AND FEED</b>			
1.	<b>Aqua Feed</b>	<b>Antibiotics</b>		
		Chloramphenicol	SOP 106/182, Issue No. 1.0. Issue date 24.05.2018	0.15 µg/kg to 1.2 µg/kg
		Nitrofurazone	SOP 106/183, Issue No. 1.0. Issue date 24.05.2018	100 µg/kg to 1000 µg/kg
		Nitrofurantion		100 µg/kg to 1000 µg/kg
		Furaltadone		100 µg/kg to 1000 µg/kg
		Furazolidone		100 µg/kg to 1000 µg/kg
		Tetracycline & 4-epitetracycline	SOP 106/10 , Issue No. 3.0, 05.07.2016	10 µg/kg to 200 µg/kg
		Oxy tetracycline & 4-epi Oxytetracycline		10 µg/kg to 200 µg/kg
		Chlortetracycline & 4-epi chlortetracycline		10 µg/kg to 200 µg/kg
		<b>Pesticides</b>		

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		DDT (The limits apply to D.D.T., D.D.D. and D.D.E. singly or in any combination form.)	SOP 106/184, Issue No. 1.0. Issue date 24.05.2018	10µg/kg to 200 µg/kg
		2,4-DDE		
		4,4-DDE		
		2,4-DDD		
		4,4-DDD		
		2,4-DDT		
		4,4-DDT		
		α-HCH		
		β-HCH		
		γ-HCH		
		Dieldrin		
		Endrin		
		Aldrin		
		Heptachlor		
		HCB		
		Cis-Chlordane		
		Trans-Chlordane		
		<b>Trace Metals</b>		
		Arsenic	SOP No. 106/193	0.05 mg/kg to 20 mg/kg
		Cadmium	Issue no.1.0,	0.05 mg/kg to 50 mg/kg
		Lead	Issue Date:01.07.2018	0.05 mg/kg to 50 mg/kg
		Copper		0.5 mg/kg to 50 mg/kg
		Tin		0.05 mg/kg to 10 mg/kg
		Zinc		0.5 mg/kg to 50 mg/kg
		Mercury		0.05 mg/kg to 10 mg/kg
		Nickel		0.05 mg/kg to 50 mg/kg
		Chromium		0.5 mg/kg to 50 mg/kg
		<b>Mycotoxins</b>		

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		Aflatoxins (B1, B2, G1, G2)	SOP No 106/185 Issue No 1.0, Issue date 24.05.2018	
		Aflatoxin B1		0.25 µg/kg to 10 µg/kg
		Aflatoxin B2		0.065 µg/kg to 10 µg/kg
		Aflatoxin G1		0.12 µg/kg to 10 µg/kg
		Aflatoxin G2		0.065 µg/kg to 10 µg/kg
		<b>Proximate Analysis</b>	IS 7874 (Part-1): 1975	
		Moisture		0.01% to 20 %
		Protein		0.1% to 50 %
		Oil Content		0.01% to 30 %
		Crude Fibre		1.0 % to 50 %
		Total Ash content		0.1% to 20 %
		Acid Insoluble Ash		0.01% to 10 %
		Free Fatty Acid	SOP No 106/169 Issue Date: 29.01.2018	0.01% to 15 %
<b>III.</b>	<b>WATER</b>			
<b>1.</b>	<b>Pond water</b>	Temperature	APHA 2550-B	Upto 50°C
		Dissolved Oxygen	APHA 4500-O	1 mg/L to 9 mg/L
		Color	APHA 2150 IS 3025 (Part-4)	1 to 50 Pt-Co Units
		Turbidity	APHA 2130B IS 3025 (Part-10)	0.1 NTU to 100 NTU
		Conductivity	APHA 2510-B IS 3025 (Part-14)	0.01 µS/cm to 20000 µS/cm
		pH	APHA 4500-B IS 3025 (Part-11)	3 to 12
		Total Hardness (as CaCO <sub>3</sub> )	APHA 2340-B & C IS 3025 (Part-21)	1 mg/L to 1000 mg/L
		Odour	APHA 2150 IS 3025 (Part-5)	Qualitative Agreeable/Disagreeable
			Cyanide	APHA 4500CN-H

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		Fluoride	IS 3025 (Part-27) APHA 4500F-D (SPADNS method) IS 3025 (Part-60,1.2)	0.1 mg/L to 10 mg/L
		Magnesium	IS 3025 (Part-46) (EDTA Titration with Poatton & reader Indicator)	1 mg/L to 1000 mg/L
		Calcium	IS 3025 (Part-46) (EDTA Titration)	1 mg/L to 1000 mg/L
		Ammoniacal Nitrogen	IS: 3025 (Part-34) APHA 4500-NH3-B & C AOAC 973.48 (Distillation followed by Titrimetric Method)	0.5 mg/L to 100 mg/L
		Nitrite	IS 3025 (Part-34) (Spectrophotometric Method)/EPA 300.1	0.01 mg/L to 10 mg/L
		Nitrates	IS 3025 (Part-34) APHA 4500-NO <sub>3</sub> . B	1 mg/L to 100 mg/L
		Total Solids	IS: 3025 (Part-15) APHA 2540-B	1 mg/L to 2000 mg/L
		Suspended Solids	APHA 2540-D	1 mg/L to 1000 mg/L
		Total Alkalinity (as CaCO <sub>3</sub> )	IS: 3025 (Part-23) APHA 2320-B	5 mg/L to 1000 mg/L
		Salinity	APHA 2520-B (Conductivity Method)	0.1 to 40
		Hydrogen Sulphide	IS 3025 (Part-29), APHA 4500S <sub>2</sub> -F	0.02 mg/L to 50 mg/L
		Chlorides	APHA 4500CI-B, IS 3025 (Part-32)	0.5 mg/L to 1000 mg/L
		Sulphates	IS:3025(Part-24,4); APHA 4500SO <sub>4</sub> -E	1 mg/L to 500 mg/L
		Bromate	EPA 300.1	1 µg/l to 40 µg/l
		Sodium	APHA 3500Na-B	1 mg/L to 200 mg/l
		Potassium	APHA 3500K-B	1 mg/L to 200 mg/l

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2.	Packaged Drinking Water		(Flame Photometric)	
		Color	IS 3025 (Part-4)	1 to 50 Pt-Co Units
		Odour	IS 3025 (Part-5)	Qualitative Agreeable/Disagreeable
		pH	IS 3025 (Part-11)	3 to 12
		Taste	IS 3025 (Part-8)	Qualitative Agreeable/Disagreeable
		Turbidity	IS 3025 (Part-10)	0.1 NTU to 100 NTU
		Conductivity	IS 3025 (Part-14)	1 $\mu$ S/cm to 2000 $\mu$ S/cm
		Total Dissolved Solids	IS 3025 (Part-16)	1 mg/L to 2000 mg/L
		Chloramines (as Cl <sub>2</sub> )	IS 3025 (Part-26) or APHA 4500-Cl G	0.05 mg/L to 10 mg/L
		Calcium (as Ca)	IS 3025 (Part-46)	1 mg/L to 1000 mg/L
		Magnesium (as Mg)	IS 3025 (Part-46)	1 mg/L to 1000 mg/L
		Total Alkalinity (as CaCO <sub>3</sub> )	IS: 3025 (Part-23)	5.0 mg/L to 1000 mg/L
		Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part-21)	1 mg/L to 1000 mg/L
		Mineral Oil	Clause 6 of IS 3025 (Part-39) Infrared partition method	0.5 mg/L to 100 mg/L
		Chloride (as Cl)	IS 3025 (Part-32)	0.5 mg/L to 1000 mg/L
		Iron (as Fe)	IS 3025 (Part-53)	0.05 mg/L to 100 mg/L
		Ammonia (as Total Ammonia-N)	IS 3025 (Part-34)	0.1 mg/L to 10 mg/L
		Fluoride (as F)	IS 3025 (Part-60,1.2)	0.1 mg/L to 10 mg/L
		Residual Free Chlorine	IS 3025 (Part-26)	0.1 mg/L to 500 mg/L
		Nitrate (as NO <sub>3</sub> )	IS 3025 (Part-34)	0.1 mg/L to 100 mg/L
Phenolic compounds (as C <sub>6</sub> H <sub>5</sub> OH)	IS 3025 (Part-43)	0.001 mg/L to 5 mg/L		
Sulphide (as H <sub>2</sub> S)	IS 3025 (Part-29,3)	0.02 mg/L to 50 mg/L		
Sulphate (as SO <sub>4</sub> )	IS 3025 (Part-24,4)	1 mg/L to 500 mg/L		
		Nitrite (as NO <sub>2</sub> )	IS 3025 (Part-34,3)	0.001 mg/L to 50 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
3.	Drinking Water	Cyanide (as CN)	IS 3025 (Part-27)	0.001 mg/L to 10 mg/L
		Anionic surface active agents (as MBAS)	Annex K of IS:13428	0.05 mg/L to 1.0 mg/L
		Bromate (as BrO <sub>3</sub> )	EPA 300.1	0.001 mg/l to 0.05 mg/l
		Colour	IS 3025 (Part-4)	1 to 50 Pt-Co Units
		Odour	IS 3025 (Part-5)	Qualitative Agreeable/Disagreeable
		pH	IS 3025 (Part-11)	3 to 12
		Taste	IS 3025 (Part 7 and 8)	Qualitative Agreeable/Disagreeable
		Turbidity	IS 3025 (Part-10)	0.1 to 100 NTU
		Total Dissolved Solids	IS 3025 (Part-16)	1 mg/L to 2000 mg/L
		Chloramines (as Cl <sub>2</sub> )	IS 3025 (Part-26)or APHA 4500-Cl G	0.05 mg/L to 10 mg/L
		Calcium (as Ca)	IS 3025 (Part-46)	1 mg/L to 1000 mg/L
		Magnesium (as Mg)	IS 3025 (Part-46)	1 mg/L to 1000 mg/L
		Total Alkalinity as CaCO <sub>3</sub>	IS: 3025 (Part-23)	5.0 mg/L to 1000 mg/L
		Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part-26) or APHA 4500-Cl G	1 mg/L to 1000 mg/L
		Mineral Oil	Clause 6 of IS 3025 (Part-39)	0.5 mg/L to 100 mg/L
		Chloride (as Cl)	IS 3025 (Part-32)	0.5 mg/L to 1000 mg/L
		Iron (as Fe)	IS 3025 (Part-53)	0.05 mg/L to 100 mg/L
		Ammonia (as Total Ammonia-N)	IS 3025 (Part-34)	0.1 mg/L to 10 mg/L
		Fluoride (as F)	IS 3025 (Part-60,1.2)	0.1 mg/L to 10mg/L
		Free Residual Chlorine	IS 3025 (Part-26)	0.1 mg/L to 500mg/L
		Nitrate (as NO <sub>3</sub> )	IS: 3025 (Part-34)	0.1 mg/L to 100 mg/L
Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	IS 3025 (Part-43)	0.001 mg/L to 5 mg/L		
Sulphide (as H <sub>2</sub> S)	IS 3025 (Part-29,3)	0.02 mg/L to 50 mg/L		
Sulphate (as SO <sub>4</sub> )	IS 3025 (Part-24,4)	1 mg/L to 500 mg/L		
Cyanide (as CN)	IS 3025 (Part-27)	0.001 mg/L to 10 mg/L		
		Anionic surface active	Annex K of IS:13428	0.05 mg/L to 1.0 mg/L

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		agents (as MBAS) Bromate (as BrO <sub>3</sub> )	EPA 300.1	0.001 mg/L to 0.05 mg/L
<b>IV.</b>	<b>RESIDUES IN WATER</b>			
<b>1.</b>	<b>Pond Water</b>	<b>Pesticide Residues</b>	SOP 15/31A, Issue No. 6.0, Issue date 09.08.2016	0.01 µg/L to 200 µg/L
		DDT (The limits apply to D.D.T., D.D.D. and D.D.E. singly or in any combination form.		
		2,4-DDE		
		4,4-DDE		
		2,4-DDD		
		4,4-DDT		
		Endosulfan Sulfate		
		α-HCH		
		δ-HCH		
		Aldrin		
		Endrin		
		Heptachlor		
		HCB		
		Trans Chlordane		
		Cis ( alpha) Chlordane		
		<b>Poly Aromatic Hydrocarbons</b>		
		Naphthalene	SOP No 106/181	0.01 µg/L to 200 µg/L
		Acenaphthylene	Issue No 1,	
		Acenaphthene	Issue date 2018-05-24	
		Fluorene		
		Phenanthrene		
		Anthracene		
		Fluoranthene		
		Pyrene		

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		Benz[a]anthracene		
		Chrysene		
		Benzo[b]fluoranthene		
		Benzo[k]fluoranthene		
		Benzo[a]pyrene		
		Indeno[1,2,3-cd]pyrene		
		Dibenz[a,h]anthracene		
		Benzo[ghi]perylene		
		<b>Trace Metals</b>		
		Arsenic	SOP 106/186, Issue No. 1.0, Issue date 24.05.2018	1.0 µg/L to 100 µg/L
		Chromium		10 µg/L to 2000 µg/L
		Copper		10 µg/L to 5000 µg/L
		Lead		1 µg/L to 100 µg/L
		Manganese		10 µg/L to 5000 µg/L
		Mercury		1 µg/L to 100 µg/L
		Selenium		1 µg/L to 100 µg/L
		Zinc		10 µg/L to 5000 µg/L
		Aluminium		10 µg/L to 5000 µg/L
		Iron		10 µg/L to 5000 µg/L
		Antimony		1 µg/L to 100 µg/L
		Cadmium		1 µg/L to 100 µg/L
		Nickel		10 µg/L to 2000 µg/L
2.	Packaged Drinking Water	Alachlor	SOP No 106/181 Issue No 1, Issue date 24.05.2018	0.01 µg/L to 0.2 µg/L
		Atrazine		0.01 µg/L to 0.2 µg/L
		Aldrin		0.01 µg/L to 0.2 µg/L
		Dieldrin		0.01 µg/L to 0.2 µg/L
		Alpha HCH		0.01 µg/L to 0.2 µg/L
		Beta HCH		0.01 µg/L to 0.2 µg/L
		Butachlor		0.01 µg/L to 0.2 µg/L
		Chlorpyrifos		0.01 µg/L to 0.2 µg/L
		Delta HCH		0.01 µg/L to 0.2 µg/L
		2,4-D		0.01 µg/L to 0.2 µg/L
		o,p-DDT		0.01 µg/L to 0.2 µg/L



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		p,p-DDT		0.01 µg/L to 0.2 µg/L
		o,p-DDE		0.01 µg/L to 0.2 µg/L
		p,p-DDE		0.01 µg/L to 0.2 µg/L
		o,p-DDD		0.01 µg/L to 0.2 µg/L
		p,p-DDD		0.01 µg/L to 0.2 µg/L
		Alpha-Endosulfan		0.01 µg/L to 0.2 µg/L
		Beta-Endosulfan		0.01 µg/L to 0.2 µg/L
		Endosulfan sulfate		0.01 µg/L to 0.2 µg/L
		Ethion		0.01 µg/L to 0.2 µg/L
		Gamma HCH		0.01 µg/L to 0.2 µg/L
		Isoproturon		0.01 µg/L to 0.2 µg/L
		Malaoxan		0.01 µg/L to 0.2 µg/L
		Malathion		0.01 µg/L to 0.2 µg/L
		Methyl paraoxan		0.01 µg/L to 0.2 µg/L
		Methyl parathion		0.01 µg/L to 0.2 µg/L
		Monocrotopos		0.01 µg/L to 0.2 µg/L
		Phorate		0.01 µg/L to 0.2 µg/L
		Phorate Sulfone		0.01 µg/L to 0.2 µg/L
		Phorate Sulfoxide		0.01 µg/L to 0.2 µg/L
		<b>Poly aromatic hydrocarbons</b>		
		Acenaphthene	SOP No 106/181	0.01 µg/L to 0.2 µg/L
		Benzo(a)pyrene	Issue No 1, Issue date	0.01 µg/L to 0.2 µg/L
		Pyrene	24.05.2018	0.01 µg/L to 0.2 µg/L
		Chrysene		0.01 µg/L to 0.2 µg/L
		Benzo(k) fluoranthene		0.01 µg/L to 0.2 µg/L
		Naphthalene		0.01 µg/L to 0.2 µg/L
		Phenanthrene		0.01 µg/L to 0.2 µg/L
		Benzo(g,h,i)perylene		0.01 µg/L to 0.2 µg/L
		Indeno (1,2,3-cd) pyrene		0.01 µg/L to 0.2 µg/L
		Benzo(b)fluoranthene		0.01 µg/L to 0.2 µg/L
		Fluorene		0.01 µg/L to 0.2 µg/L
		Benzo(a) anthracene		0.01 µg/L to 0.2 µg/L

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		Fluoranthene		0.01 µg/L to 0.2 µg/L
		Anthracene		0.01 µg/L to 0.2 µg/L
		Dibenz(a,h) anthracene		0.01 µg/L to 0.2 µg/L
		Acenaphthylene		0.01 µg/L to 0.2 µg/L
		<b>Polychlorinated biphenyls</b>		
		2,4,4-trichloro biphenyl	SOP No 106/181 Issue No 1, Issue date 24.05.2018	0.01 µg/L to 0.2 µg/L
		2,2,5,5-Tetrachloro biphenyl		0.01 µg/L to 0.2 µg/L
		2,2,4,5,5-Pentachloro biphenyl		0.01 µg/L to 0.2 µg/L
		2,2,3,4,4,5-Hexachloro biphenyl		0.01 µg/L to 0.2 µg/L
		2,2,4,4,5,5-Hexachloro biphenyl		0.01 µg/L to 0.2 µg/L
		2,2,3,4,4,5,5-Heptachlorobiphenyl		0.01 µg/L to 0.2 µg/L
		<b>Trace metals</b>		
		Aluminium	IS 3025 (Part-55): 2003	0.001 mg/L to 5 mg/L
		Lead	IS 3025 (Part-47): 1994	0.001 mg/L to 2.mg/L
		Antimony	Annex G of IS 13428 :2005	0.001 mg/L to 2.mg/L
		Cadmium	IS 3025 (Part-41): 1992	0.001 mg/L to 2.mg/L
		Mercury	IS 3025 (Part-48): 1994	0.001 mg/L to 2 mg/L
		Copper	IS 3025 (Part-42): 1992	0.05 mg/L to 5 mg/L
		Barium	IS 13428*or IS 15302 2005	0.005 mg/L to 2 mg/L
		Boron	IS 3025 (Part-57): 2005	0.1 mg/L to 2 mg/L
		Molybdenum	IS 3025 (Part-2)	0.005 mg/L to 2 mg/L
		Nickel	IS 3025 (Part-54): 2003	0.001 mg/L to 2 mg/L
		Zinc	IS 3025 (Part 49)	0.05 mg/L to 5.mg/L
		Selenium	IS 3025 (Part 56) or IS 15303	0.001 mg/L to 2 mg/L
		Silver	Annex J of IS 13428	0.001 mg/L to 5 mg/L
		Manganese	IS 3025 (Part-59)	0.05 mg/L to 10 mg/L

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		Total Arsenic	IS 3025 (Part-37)	0.001 mg/L to 0.05 mg/L
		Total Chromium	IS 3025 (Part-52)	0.001 mg/L to 5 mg/L
		Sodium	APHA (Flame photometer) 3500-Na	1 mg/L to 200 mg/L
		Pottasum	APHA (Flame photometer) 3500-K	1 mg/L to 200 mg/L
3.	Drinking Water	Alachlor	SOP No 106/181	0.01 µg/L to 0.2 µg/L
		Atrazine	Issue No 1,	0.01 µg/L to 0.2 µg/L
		Aldrin	Issue date 24.05.2018	0.01 µg/L to 0.2 µg/L
		Dieldrin		0.01 µg/L to 0.2 µg/L
		Alpha HCH		0.01 µg/L to 0.2 µg/L
		Beta HCH		0.01 µg/L to 0.2 µg/L
		Butachlor		0.01 µg/L to 0.2 µg/L
		Chlorpyriphos		0.01 µg/L to 0.2 µg/L
		Delta HCH		0.01 µg/L to 0.2 µg/L
		2,4-D		0.01 µg/L to 0.2 µg/L
		o,p-DDT		0.01 µg/L to 0.2 µg/L
		p,p-DDT		0.01 µg/L to 0.2 µg/L
		o,p-DDE		0.01 µg/L to 0.2 µg/L
		p,p-DDE		0.01 µg/L to 0.2 µg/L
		o,p-DDD		0.01 µg/L to 0.2 µg/L
		p,p-DDD		0.01 µg/L to 0.2 µg/L
		Alpha-Endosulfan		0.01 µg/L to 0.2 µg/L
		Beta-Endosulfan		0.01 µg/L to 0.2 µg/L
		Endosulfan sulphate		0.01 µg/L to 0.2 µg/L
		Ethion		0.01 µg/L to 0.2 µg/L
		Gamma HCH		0.01 µg/L to 0.2 µg/L
		Isoproturon		0.01 µg/L to 0.2 µg/L
		Malaoxan		0.01 µg/L to 0.2 µg/L
		Methyl paraoxan		0.01 µg/L to 0.2 µg/L
		Malathion		0.01 µg/L to 0.2 µg/L
		Methyl parathion		0.01 µg/L to 0.2 µg/L
		Monocrotopos		0.01 µg/L to 0.2 µg/L
		Phorate		0.01 µg/L to 0.2 µg/L

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		Phorate Sulfone		0.01 µg/L to 0.2 µg/L
				0.01 µg/L to 0.2 µg/L
		<b>Poly aromatic hydrocarbons</b>		
		Acenaphthene	SOP No 106/181 Issue No 1.0, Issue date 24.05.2018	0.01 µg/L to 0.2 µg/L
		Benzo(a)pyrene		0.01 µg/L to 0.2 µg/L
		Pyrene		0.01 µg/L to 0.2 µg/L
		Chrysene		0.01 µg/L to 0.2 µg/L
		Benzo(k) fluoranthene		0.01 µg/L to 0.2 µg/L
		Naphthalene		0.01 µg/L to 0.2 µg/L
		Phenanthrene		0.01 µg/L to 0.2 µg/L
		Benzo(g,h,i)perylene		0.01 µg/L to 0.2 µg/L
		Indeno (1,2,3-cd) pyrene		0.01 µg/L to 0.2 µg/L
		Benzo(b)fluoranthene		0.01 µg/L to 0.2 µg/L
		Fluorene		0.01 µg/L to 0.2 µg/L
		Benzo(a) anthracene		0.01 µg/L to 0.2 µg/L
		Fluoranthene		0.01 µg/L to 0.2 µg/L
		Anthracene		0.01 µg/L to 0.2 µg/L
		Dibenz(a,h) anthracene		0.01 µg/L to 0.2 µg/L
		Acenaphthylene		0.01 µg/L to 0.2 µg/L
		<b>Poly aromatic hydrocarbons</b>		
		2,4,4-trichloro biphenyl	SOP No 106/181 Issue No 1.0, Issue date 24.05.2018	0.01 µg/L to 0.2 µg/L
		2,2,5,5-Tetrachloro biphenyl		0.01 µg/L to 0.2 µg/L
		2,2,4,5,5-Pentachloro biphenyl		0.01 µg/L to 0.2 µg/L
		2,2,3,4,4,5-Hexachloro biphenyl		0.01 µg/L to 0.2 µg/L
		2,2,4,4,5,5-Hexachloro biphenyl		0.01 µg/L to 0.2 µg/L
		2,2,3,4,4,5,Heptachlorobiphenyl		0.01 µg/L to 0.2 µg/L
		<b>Trihalomethanes</b>		

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		Chloroform	APHA 6200 23rd Edition	0.0005 mg/L to 0.02 mg/L
		Bromodichloromethane		0.0005 mg/L to 0.02 mg/L
		Dibromochloromethane		0.0005 mg/L to 0.02 mg/L
		Bromoform		0.0005 mg/L to 0.02 mg/L
		<b>Trace metals</b>		
		Aluminium	IS 3025 (Part-55)	0.001 mg/L to 5 mg/L
		Lead	IS 3025 (Part-47)	0.001 mg/L to 2 mg/L
		Antimony	Annex G of IS 13428	0.001 mg/L to 2 mg/L
		Cadmium	IS 3025 (Part-41)	0.001 mg/L to 2 mg/L
		Mercury	IS 3025 (Part-48)	0.001 mg/L to 2 mg/L
		Copper	IS 3025 (Part-42)	0.05 mg/L to 5 mg/L
		Barium	IS 13428 or IS 15302	0.005 mg/L to 2 mg/L
		Boron	IS 3025 (Part 57)	0.1 mg/L to 2 mg/L
		Molybdenum	IS 3025 (Part 2)	0.005 mg/L to 2 mg/L
		Nickel	IS 3025 (Part 54)	0.001 mg/L to 2 mg/L
		Zinc	IS 3025 (Part 49)	0.05 mg/L to 5 mg/L
		Selenium	IS 3025 (Part 56) or IS 15303	0.001 mg/L to 2 mg/L
		Silver	Annex J of IS 13428	0.001 mg/L to 5.mg/L
		Manganese	IS 3025 (Part 59)	0.05 mg/L to 10 mg/L
		Total Arsenic	IS 3025 (Part 37)	0.001 mg/L to 0.05 mg/L
		Total Chromium	IS 3025 (Part 52)	0.001 mg/L to 5 mg/L
		Sodium	APHA 3500-Na (Flame photometer)	1 mg/L to 200 mg/L
		Potassium	APHA 3500-K (Flame photometer)	1 mg/L to 200 mg/L

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