

**Laboratory** IADFAC Laboratories Pvt. Ltd., # 8, Siddhi Vinayaka complex,  
Nagarbhavi II Stage, II Block, 80 Feet Ring Road, Bangalore,  
Karnataka

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

**Certificate Number** TC-5122

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**Validity** 29.12.2018 to 28.12.2020

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*"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"*

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.	WATER			
1.	Water for Processed Food Industry (IS 4251)	Coliforms	IS 1622-1981 (RA 2014)	≥1MPN/100ml
		Standard Plate Count	IS 1622-1981 (RA 2014)	≥1 cfu/ml
		Proteolytic count	IS 4251-1967 (RA 2015) (Appendix A)	≥1 cfu/ml
		Lipolytic Count	IS 4251-1967 (RA 2015) (Appendix A)	≥1 cfu/ml
2.	Drinking Water (IS 10500)/ Packaged Drinking Water (IS 14543)	Coliforms	IS 1622-1981 (RA 2014)	≥1MPN/100 ml
		E.coli	IS 1622-1981 (RA 2014)	≥1MPN/100 ml
		E.coli	IS 15185:2016 IS 5887(Part 1)-1976 (RA 2013)	Absent/Present/250ml
		Coliforms	IS 15185:2016 IS 5401 (Part 1) 2012	Absent/Present/250ml
		Faecal Streptococci	IS 5887 (Part 2)-1976 (RA 2013) IS 15186:2002 (RA 2014)	Absent/Present/250ml
		Vibrio cholerae	IS 5887 (Part 5)-1976 (RA 2013)	Absent/Present/250ml
		Vibrio parahaemolyticus	IS 5887 (Part 5)-1976 (RA 2013)	Absent/Present/250ml
		Staphylococcus aureus	IS 5887 (Part 2)-1976 (RA 2013)	Absent/Present/250ml
		Sulphite reducing anaerobes	IS 13428-2005 (Annex C) (RA 2014)	Absent/Present/50ml
		Pseudomonas aeruginosa	IS 13428-2005(Annex D) (RA 2014)	Absent/Present/250ml

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		Aerobic microbial count at 37°C in 24 hrs	IS 5402:2012	≥1 cfu/ml
		Aerobic microbial count at 20-22°C in 72hrs	IS 5402:2012	≥1 cfu/ml
		Yeast and Mould Count	IS 5403:1999 (RA 2013)	Absent/Present/250ml
		Salmonella	IS 5887 (Part 3)-1999 (RA 2013) IS 15187:2016	Absent/Present/250ml
		Shigella	IS 5887 (Part 7)-1999 (RA 2013)	Absent/Present/250ml
3.	<b>Packaged Natural Mineral Water (IS:13428)</b>	E.coli	IS 15185:2016 IS 5887(Part 1)-1976 (RA 2013)	Absent/Present/250ml
		Coliforms	IS 15185:2016 IS 5401 (Part 1) 2012	Absent/Present/250ml
		Faecal Streptococci	IS 5887 (Part 2)-1976 (RA 2013) IS 15186:2002 (RA 2014)	Absent/Present/250ml
		Staphylococcus aureus	IS 5887 (Part 2)-1976 (RA 2013)	Absent/Present/250ml
		Sulphite reducing anaerobes	IS 13428-2005 (Annex C) (RA 2014)	Absent/Present/50ml
		Pseudomonas aeruginosa	IS 13428-2005(Annex D) (RA 2014)	Absent/Present/250ml
		Yeast and Mould Count	IS 5403:1999 (RA 2013)	Absent/Present/250ml
		Salmonella	IS 5887 (Part 3)-1999 (RA 2013), IS 15187:2016	Absent/Present/250ml
		Shigella	IS 5887 (Part 7)-1999 (RA 2013)	Absent/Present/250ml
		Vibrio cholerae	IS 5887 (Part 5)-1976 (RA 2013)	Absent/Present/250ml

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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
		Vibrio parahaemolyticus	IS 5887 (Part 5)-1976 (RA 2013)	Absent/Present/250ml
4.	Water for Ice Manufacture (IS 3957)	Coliforms	IS 1622-1981 (RA 2014)	≥1MPN/100 ml
		Total Plate Count	IS 1622-1981 (RA 2014)	≥1 cfu/ml
<b>II. FOOD AND AGRICULTURAL PRODUCTS</b>				
1.	Bakery and Confectionery	Total Coliform Count	IS 5401 (part 1)-2012	≥10 cfu/g/ml
		Aerobic Plate Count/Total microbial count	IS 5402:2012	≥10 cfu/g/ml
		Yeast and Mould Count	IS 5403-1999 (RA 2013)	≥10 cfu/g/ml
		Enterobacteriaceae	IS/ISO 7402:1993 (RA 2012)	≥10 cfu/g/ml
		E.coli	IS 5887 (Part 1)-1976 (RA 2013)	Absent/Present/g/ml
		Salmonella	IS 5887 (Part 3)-1999 (RA 2013)	Absent/Present/25g/25 ml
		Shigella	IS 5887 (Part 7)-1999 (RA 2013)	Absent/Present/25g/25 ml
		Staphylococcus aureus	IS 5887 (Part 2)-1976 (RA 2013)	Absent/Present/25g/25 ml
		Bacillus cereus	IS 5887 (Part 6)-2012	≥100 cfu/g/ml
		Clostridium perfringens	IS 5887 (Part 4):1999 (RA 2013)	≥100 cfu/g/ml
2.	Cereals, Pulses and Cereal Products	Total Coliform Count	IS 5401(part 1)-2012	≥10 cfu/g/ml
		Aerobic Plate Count/ Total microbial count	IS 5402:2012	≥10 cfu/g/ml
		Yeast and Mould Count	IS 5403-1999 (RA 2013)	≥10 cfu/g/ml

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		Enterobacteriaceae	IS/ISO 7402:1993 (RA 2012)	≥10 cfu/g/ml
		E.coli	IS 5887 (Part 1)-1976 (RA 2013)	Absent/Present/g
		Salmonella	IS 5887 (Part 3)-1999 (RA 2013)	Absent/Present/25g
		Shigella	IS 5887 (Part 7) 1999 (RA 2013)	Absent/Present/25g
		Staphylococcus aureus	IS 5887 (Part 8 Sec. 2)-2002 (RA 2018)	≥100 cfu/g/ml
		Bacillus cereus	IS 5887 (Part 6)-2012	≥100 cfu/g/ml
		Clostridium perfringens	IS 5887 (Part 4):1999 (RA 2013)	≥100 cfu/g/ml
3.	<b>Milk and Dairy Products</b>	Total Coliform Count	IS 5401(part 1)-2012	≥10 cfu/g/ml
		Aerobic Plate Count/ Total microbial count	IS 5402:2012	≥10 cfu/g/ml
		Enterobacteriaceae	IS/ISO 7402:1993 (RA 2012)	≥10 cfu/g/ml
		Yeast and Mould Count	IS 5403-1999 (RA 2013)	≥10 cfu/g/ml
		Lactic acid bacteria	IS 16068:2013	≥10 cfu/g/ml
		E.coli	IS 5887 (Part 1)-1976 (RA 2013)	Absent/Present/g/ml
		Salmonella	IS 5887 (Part 3)-1999 (RA 2013)	Absent/Present/25g/25ml
		Shigella	IS 5887 (Part 7)-1999 (RA 2013)	Absent/Present/25g/25ml
		Staphylococcus aureus	IS 5887 (Part 2)-1976 (RA 2013)	Absent/Present/25g/25ml

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		Bacillus cereus	IS 5887 (Part 6 ) 2012	≥100 cfu/g/ml
		Clostridium perfringens	IS 5887 (Part 4):1999 (RA 2013)	≥100 cfu/g/ml
		Listeria monocytogenes	IS 14988 (Part 1):2001 (RA 2018)	Absent/Present/25g/25ml
<b>4.</b>	<b>Fruits ,Vegetables and Its products</b>	Enterobacteriaceae	IS/ISO 7402:1993 (RA 2012)	≥10 cfu/g/ml
		Yeast and Mould Count	IS 5403-1999 (RA 2013)	≥10 cfu/g/ml
		Lactic acid bacteria	IS 16068:2013	≥10 cfu/g/ml
		E.coli	IS 5887 (Part 1)-1976 (RA 2013)	Absent/Present/g/ml
		Salmonella	IS 5887 (Part 3)-1999 (RA 2013)	Absent/Present/25g/ml
		Shigella	IS 5887 (Part 7)-1999 (RA 2013)	Absent/Present/25g/ml
		Staphylococcus aureus	IS 5887 (Part 8 Sec. 2)-2002 (RA 2018)	≥100 cfu/g/ml
		Bacillus cereus	IS 5887 (Part 6)-2012	≥100 cfu/g/ml
		Clostridium perfringens	IS 5887 (Part 4):1999 (RA 2013)	≥100 cfu/g/ml
		Listeria monocytogenes	IS 14988 (Part 1) 2001 (RA 2018)	Absent/Present/25g/25ml
<b>5.</b>	<b>Herbs, Spices and Condiments</b>	Total Coliform Count	IS 5401(part 1)-2012	≥10 cfu/g/ml
		Aerobic Plate Count/ Total microbial count	IS 5402:2012	≥10 cfu/g/ml
		Enterobacteriaceae	IS/ISO 7402:1993 (RA 2012)	≥10 cfu/g/ml

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		Yeast and Mould Count	IS 5403:1999 (RA 2013)	≥10 cfu/g/ml
		E.coli	IS 5887 (Part 1)-1976 (RA 2013)	Absent/Present/g/ml
		Salmonella	IS 5887 (Part 3)-1999 (RA 2013)	Absent/Present/25g/25ml
		Shigella	IS 5887 (Part 7)-1999 (RA 2013)	Absent/Present/25g/25ml
		Staphylococcus aureus	IS 5887 (Part 2)-1976 (RA 2013)	Absent/Present/25g/25ml
<b>6.</b>	<b>Nuts and Nut Products</b>	Total Coliform Count	IS 5401(part 1)-2012	≥10 cfu/g/ml
		Aerobic Plate Count/ Total microbial count	IS 5402:2012	≥10 cfu/g/ml
		Enterobacteriaceae	IS/ISO7402:1993 (RA 2012)	≥10 cfu/g/ml
		Yeast and Mould Count	IS 5403-1999 (RA 2013)	≥10 cfu/g/ml
		E.coli	IS 5887 (Part 1)-1976 (RA 2013)	Absent/Present/g/ml
		Salmonella	IS 5887 (Part 3)-1999 (RA 2013)	Absent/Present/25g/25ml
		Shigella	IS 5887 (Part 7)-1999 (RA 2013)	Absent/Present/25g/25ml
		Staphylococcus aureus	IS 5887 (Part 2)-1976 (RA 2013)	Absent/Present/25g/25ml
		Bacillus cereus	IS 5887 (Part 6)-2012	≥100 cfu/g/ml
		Clostridium perfringens	IS 5887 (Part 4):1999 (RA 2013)	≥100 cfu/g/ml
		Listeria monocytogenes	IS 14988 (Part 1) 2001 (RA 2018)	Absent/Present/25g/25ml

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7.	Canned & Processed Foods	Total Coliform Count	IS 5401(part 1)-2012	≥10 cfu/g/ml
		Aerobic Plate Count/ Total microbial count	IS 5402:2012	≥10 cfu/g/ml
		Enterobacteriaceae	IS/ISO 7402:1993 (RA 2012)	≥10 cfu/g/ml
		Yeast and Mould Count	IS 5403-1999 (RA 2013)	≥10 cfu/g/ml
		Lactic acid bacteria	IS 16068:2013	≥10 cfu/g/ml
		E.coli	IS 5887 (Part 1)-1976 (RA 2013)	Absent/Present/g/ml
		Salmonella	IS 5887 (Part 3)-1999 (RA 2013)	Absent/Present/25g/25ml
		Shigella	IS 5887 (Part 7)-1999 (RA 2013)	Absent/Present/25g/25ml
		Staphylococcus aureus	IS 5887 (Part 8 Sec. 2)- 2002 (RA 2018)	≥100 cfu/g/ml
		Bacillus cereus	IS 5887 (Part 6)-2012	≥100 cfu/g/ml
	Clostridium perfringens	IS 5887 (Part 4):1999 (RA 2013)	≥100 cfu/g/ml	
	Listeria monocytogenes	IS 14988 (Part 1) 2001 (RA 2018)	Absent/Present/25g/25ml	
8.	Cooked Food	Total Coliform Count	IS 5401(part 1)-2012	≥10 cfu/g/ml
		Aerobic Plate Count/ Total microbial count	IS 5402:2012	≥10 cfu/g/ml
		Enterobacteriaceae	IS/ISO7402:1993 (RA 2012)	≥10 cfu/g/ml
		Yeast and Mould Count	IS 5403-1999 (RA 2013)	≥10 cfu/g/ml
		Salmonella	IS 5887 (Part 3)-1999 (RA 2013)	Absent/Present/25g/25ml
		Shigella	IS 5887 (Part 7)-1999 (RA 2013)	Absent/Present/25g/25ml

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		Vibrio cholerae	IS 5887 (Part 5) 1976 (RA 2013)	Present/Absent/25g/25ml
		V.parahaemolyticus	IS 5887 (Part 5) 1976 (RA 2013)	Present/Absent/25g/25ml
		E.coli	IS 5887 (Part 1)-1976 (RA 2013)	Absent/Present/g/ml
		Staphylococcus aureus	IS 5887 (Part 2)-1976 (RA 2013)	Present/Absent/25g/25ml
		Bacillus cereus	IS 5887 (Part 6)-2012	≥100 cfu/g/ml
		Clostridium perfringens	IS 5887 (Part 4):1999 (RA 2013)	≥100 cfu/g/ml
		Listeria monocytogenes	IS 14988 (Part 1) 2001 (RA 2018)	Absent/Present/25g/25ml

**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.	FOOD AND AGRICULTURAL PRODUCTS			
1.	<b>Bakery products</b>	Moisture	IS 12711:1989,(RA 2015)	0.1 g/100g to 30 g/100g
		Total Ash (On Dry Weight Basis)	IS 12711:1989,(RA 2015)	0.1 g/100g to 5 g/100g
		Total Fat	IS 12711:1989,(RA 2015)	0.1 g/100g to 30 g/100g
		Crude Fiber (On Dry Weight Basis)	IS 12711:1989,(RA 2015)	0.1 g/100g to 4.0 g/100g
		Protein (N x 6.38)	IS 7219:1973, (RA 2015)	0.1 g/100g to 40.0 g/100g
		Acid insoluble Ash (On Dry Weight Basis)	IS 12711:1989,(RA 2015)	0.01 g/100g to 2.0 g/100g
		Acidity of Extracted fat as oleic acid	IS 12711:1989,(RA 2015)	0.05 g/100g to 1.5 g/100g
2.	<b>Oils and Fats</b>	Insoluble impurities	IS 548(Part-I)-1964, (RA 2015)	0.05 g/100g to 2.0g/100g
		Melting Point	IS 548(Part-I)-1964, (RA 2015)	5 °C to 50 °C
		Acid Value	IS 548 (Part I):1964, (RA 2015)	0.1 to 50
		Saponification Value	IS 548 (Part I):1964, (RA 2015)	1 to 300
		Peroxide Value	IS 548 (Part I):1964 , (RA 2015)	0.1 meq/kg to 50 meq/kg
		Unsaponifiable matter	IS 548 (Part I):1964, (RA 2015)	0.1 g/100g to 5 g/100g
		Refractive Index	IS 548 (Part I):1964, (RA 2015)	1.100 to 1.800

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		Moisture	IS 548 (Part I):1964, (RA 2015)	0.05 g/100g to 1.0 g/100g
		Polenske Value	IS 548 (Part I):1964, (RA 2015)	0.1 g/100g to 20 g/100g
		Free Fatty acids as oleic acid	IS 548 (Part I):1964, (RA 2015)	0.1 g/100g to 2 g/100g
		Argemone oil	IS 548 (Part II):1976, (RA 2015)	Qualitative (Present/Absent)
		Mineral Oil	IS 548 (Part II):1976, (RA 2015)	Qualitative (Present/Absent)
3.	Ghee	Moisture	IS 3508:1966, (RA 2012)	0.05 g/100g to 2 g/100g
		Refractive Index	IS 3508:1966, (RA 2012)	1.100 to 1.800
		Insoluble Impurities	IS 3508:1966, (RA 2012)	0.05 g/100g to 0.2 g/100g
		Reichert Meissl Value	IS 3508:1966, (RA 2012)	1.0 to 40.0
		Baudouin test	IS 3508:1966, (RA 2012)	Qualitative (Present/Absent)
4.	Milk Powder, Skimmed milk powder, Semi skimmed milk Powder	Moisture	IS1165:2002, (RA 2012)/ IS11623:2008 (RA 2012)	0.1 g/100g to 20 g/100g
		Fat	IS 1165:2002 (RA 2012)/ IS 11721:2005	0.1 g/100g to 25 g/100g
		Total Ash (On dry Weight basis)	IS 1165:2002 (RA 2012)	0.1 g/100g to 10 g/100g
II.	WATER			
1.	Packaged Natural Mineral Water/ Packaged Drinking Water/ Drinking Water/Raw water	Colour	IS 3025 (Part 4):1983, (RA 2012)	1.0 Hazen units to 25 Hazen units
		Odour	IS3025 (Part 5):2018	Agreeable/disagreeable
		Taste	IS3025 (Part 7&8):2017	Agreeable/disagreeable
		Turbidity	IS 3025 (Part 10):1984, (RA 2012)	0.1 NTU to 15 NTU

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		Total Dissolved Solids	IS 3025 (Part-16):1984, (RA 2012)	1.0 mg/l to 2000 mg/l
		pH	IS 3025 (Part 11):1983, (RA 2012)	2 to 10
		Nitrate(as NO <sub>3</sub> )	IS 3025 (Part 34):1988, (RA 2014)	0.5 mg/l to 200 mg/l
		Nitrite (as NO <sub>2</sub> )	IS 3025 (Part 34):1988, (RA 2014)	0.01 mg/l to 50 .0 mg/l
		Fluoride (as F)	IS 3025 (Part 60):2013	0.1 mg/l to 5.0 mg/l
		Chloride (as Cl)	IS 3025 (Part32):1988, (RA 2014)	1.0 mg/l to 1000 mg/l
		Sulphate (as SO <sub>4</sub> )	IS 3025 (Part 24):1986, (RA 2014)	1 mg/l to 500 mg/l
		Alkalinity(as HCO <sub>3</sub> )	IS 3025 (Part 23):1986, (RA 2014)	1.0 mg/l to 1000 mg/l
		Calcium (as Ca)	IS 3025 (Part-40):1991, (RA 2014)	1.0 mg/l to 1000 mg/l
		Magnesium (as Mg)	IS 3025 (Part 46):1994, (RA 2014)	1 mg/l to 1000 mg/l
		Sodium(as Na)	IS 3025 (Part 45):1993, (RA 2014)	1 mg/l to 500 mg/l
		Residual Free Chlorine	IS 3025 (Part 26):1986, (RA 2014)	0.1 mg/l to 100 mg/l
		Anionic surface active agents (as MBAS)	Annexure-K,IS 13428:2005, (RA 2014)	0.1 mg/l to 5.0 mg/l
		Sulphide (as H <sub>2</sub> S)	IS 3025 (Part 29):1986, (RA 2014)	0.05 mg/l to 10 mg/l
		Borates/Boron(as B)	IS 3025 (part57) 2005: (RA 2010)	0.1 mg/l to 10.0 mg/l
		Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21):2009 (RA 2014)	1 mg/l to 5000 mg/l

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		Cyanide (as CN)	IS 3025 (Part 27):1986, (RA 2014)	0.01 mg/l to 5.0 mg/l
<b>III.</b>	<b>RESIDUES IN WATER</b>			
<b>1.</b>	<b>Packaged Natural Mineral Water/ Packaged Drinking Water/ Drinking Water/Raw water</b>	<b>Organo chlorine pesticides</b>		
		α-HCH	FSSAI Manual of water 2016 pg no 211-215	0.01 µg/l to 100 µg/l
		β-HCH	FSSAI Manual of water 2016 pg no 211-215	
		δ-HCH	FSSAI Manual of water 2016 pg no 211-215	
		γ-HCH (Lindane)	FSSAI Manual of water 2016 pg no 211-215	
		2,4-DDD	FSSAI Manual of water 2016 pg no 211-215	
		2,4-DDE	FSSAI Manual of water 2016 pg no 211-215	
		2,4-DDT	FSSAI Manual of water 2016 pg no 211-215	
		4,4-DDD	FSSAI Manual of water 2016 pg no 211-215	

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		4,4-DDE	FSSAI Manual of water 2016 pg no 211-215	
		4,4-DDT	FSSAI Manual of water 2016 pg no 211-215	
		Endosulphan- $\alpha$	FSSAI Manual of water 2016 pg no 211-215	
		Endosulphan- $\beta$	FSSAI Manual of water 2016 pg no 211-215	
		Endosulphan-sulphate	FSSAI Manual of water 2016 pg no 211-215	
		Aldrin	FSSAI Manual of water 2016 pg no 211-215	
		Dieldrin	FSSAI Manual of water 2016 pg no 211-215	
		Alachlor	FSSAI Manual of water 2016 pg no 211-215	0.01 $\mu\text{g/l}$ to 50 $\mu\text{g/l}$
		<b>Organo Phosphorus Pesticide</b>		
		Monocrotophos	FSSAI Manual of water 2016 pg no 211-215	0.025 $\mu\text{g/l}$ to 1000 $\mu\text{g/l}$
		2,4-D	IADFAC/V/C06	0.025 $\mu\text{g/l}$ to 1000 $\mu\text{g/l}$
		Isoproturon	IADFAC/V/C07	0.01 $\mu\text{g/l}$ to 1000 $\mu\text{g/l}$

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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
		Ethion	FSSAI Manual of water 2016 pg no 211-215	0.01 µg/l to 1000 µg/l
		Atrazine	FSSAI Manual of water 2016 pg no 211-215	0.01 µg/l to 1000 µg/l
		Methyl Paraxon	FSSAI Manual of water 2016 pg no 211-215	0.01 µg/l to 1000 µg/l
		Methyl Parathion	FSSAI Manual of water 2016 pg no 211-215	0.01 µg/l to 1000 µg/l
		Malathion	FSSAI Manual of water 2016 pg no 211-215	0.01 µg/l to 1000 µg/l
		Malaoxan	FSSAI Manual of water 2016 pg no 211-215	0.01 µg/l to 1000 µg/l
		Phorate Sulphone	FSSAI Manual of water 2016 pg no 211-215	0.01 µg/l to 1000 µg/l
		Butachlor	FSSAI Manual of water 2016 pg no 211-215	0.01 µg/l to 1000 µg/l
		Chlorpyrifos	FSSAI Manual of water 2016 pg no 211-215	0.01 µg/l to 1000 µg/l
		Phorate	FSSAI Manual of water 2016 pg no 211-215	0.01 µg/l to 1000 µg/l

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Phorate sulphoxide	FSSAI Manual of water 2016 pg no 211-215	0.01 µg/l to 1000 µg/l
		<b>Trace Metal Element</b>		
		Barium (as Ba)	Annexure F of IS 13428:2005, (RA 2014)	0.1 mg/l to 20.0 mg/l
		Copper (as Cu)	IS 3025 (Part 42):1992, (RA 2014)	0.05 mg/l to 10.0 mg/l
		Iron (as Fe)	IS 3025 (Part 53):2003, (RA 2014)	0.05 mg/l to 10.0 mg/l
		Manganese (as Mn)	IS 3025 (Part 59):2006 (RA 2012)	0.05 mg/l to 10.0 mg/l
		Zinc (as Zn)	IS 3025 (Part 49):1994, (RA 2014)	0.02 mg/l to 100 mg/l
		Silver (as Ag)	Annexure J of IS 13428:2005, (RA 2014)	0.01 mg/l to 10.0 mg/l
		Aluminium (as Al)	IS 3025 (Part 55):2003, (RA 2014)	0.02 mg/l to 5.0 mg/l
		Selenium (as Se)	IS 3025 (Part 56):2003, (RA 2014)/IS 15303:2003 (RA 2009)	0.005 mg/l to 20.0 mg/l
		Antimony (as Sb)	Annexure G of IS 13428:2005, (RA 2009)	0.005 mg/l to 5.0 mg/l
		Cadmium (as Cd)	IS 3025 (Part 41):1992, (RA 2014)	0.003 mg/l to 5 mg/l
		Arsenic (as As)	IS 3025 (Part 37):1988 (RA 2014)	0.005 mg/l to 1mg/l
		Lead (as Pb)	IS 3025 (Part 47):1994 (RA 2014)	0.005 mg/l to 10 mg/l
		Chromium (as Cr)	Annexure-J, IS 13428:2005, (RA 2014)	0.05 mg/l to 10.0 mg/l

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Nickel (as Ni)	Annexure L of IS 13428:2005, (RA 2014)	0.01 mg/l to 5.0 mg/l
		Mercury (as Hg)	IS 3025 (Part 48):1994, (RA 2014)	0.0005 mg/l to 5 mg/l
		<b>Polynuclear Aromatic Hydrocarbons (PAH)</b>		
		Napthalene	FSSAI Manual of water 2016 pg no 211-215	0.05 µg/l to 100 µg/l
		Anthracene	FSSAI Manual of water 2016 pg no 211-215	
		Phenanthrene	FSSAI Manual of water 2016 pg no 211-215	
		Chrysene	FSSAI Manual of water 2016 pg no 211-215	
		benzo (a) anthracene	FSSAI Manual of water 2016 pg no 211-215	
		Fluoranthene	FSSAI Manual of water 2016 pg no 211-215	
		benzo (a) pyrene	FSSAI Manual of water 2016 pg no 211-215	
		benzo (K) fluoranthene	FSSAI Manual of water 2016 pg no 211-215	

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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
		indeno (1, 2, 3-cd) pyrene	FSSAI Manual of water 2016 pg no 211-215	
		benzo (ghi) perylene	FSSAI Manual of water 2016 pg no 211-215	
		Acenaphthylene	FSSAI Manual of water 2016 pg no 211-215	
		Acenaphthene	FSSAI Manual of water 2016 pg no 211-215	
		Fluorene	FSSAI Manual of water 2016 pg no 211-215	
		Pyrene	FSSAI Manual of water 2016 pg no 211-215	
		benzo (b) fluoranthene	FSSAI Manual of water 2016 pg no 211-215	
		dibenzo(a,h) anthracene	FSSAI Manual of water 2016 pg no 211-215	
		<b>Poly Chlorinated Biphenyls (PCB)</b>		
		2,6-Di chloro bi phenyl	FSSAI Manual of water 2016 pg no 211-215	0.05 µg/l to 100 µg/l
		2,4,4 Tricholoro bi phenyl	FSSAI Manual of water 2016 pg no 211-215	

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		2,2,5,5-Tetrachloro bi phenyl	FSSAI Manual of water 2016 pg no 211-215	
		2,2,4,4,5,5 Hexa chloro bi phenyl	FSSAI Manual of water 2016 pg no 211-215	
		2,2,3,4,4,5Hexa chloro bi phenyl	FSSAI Manual of water 2016 pg no 211-215	
		2,2,3,4,4,5,5-Hepta chloro bi phenyl	FSSAI Manual of water 2016 pg no 211-215	
		<b>Phenols</b>		
		Phenolic compounds (as C <sub>6</sub> H <sub>5</sub> OH)	IS 3025 (Part 43):1992, (RA 2014)	0.001 mg/l to 10 mg/l
<b>III.</b>	<b>POLLUTION &amp; ENVIRONMENT</b>			
<b>1.</b>	<b>Waste Water (Effluents/ Sewage)</b>	Colour	IS 3025 (Part 4):1983, (RA 2012)	1 Hazen Unit to 25 Hazen Unit
		Odour	IS3025 (Part 5):1983, (RA 2012)	Agreeable/Disagreeable
		Temperature	APHA 23 <sup>rd</sup> Edition 2550B	Ambient to 50°C
		pH	IS3025 (Part 11):1983, (RA 2006)	2 to 10
		Total suspended Solids	IS 3025 (Part 15):1984, (RA 2014)	1 mg/l to 1000 mg/l
		BOD@27 <sup>o</sup> C For 3 days	IS 3025 (part 44):1993 (RA 2014)	1 mg/l to 150 mg/l
		COD	IS 3025 (Part 58):2006 (RA 2012)	1 mg/l to 500 mg/l

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Phenolic compounds (as C <sub>6</sub> H <sub>5</sub> OH)	IS 3025 (Part 43):1992, (RA 2014)	0.01 mg/l to 10.0 mg/l
		Sulphide (as H <sub>2</sub> S)	IS 3025 (Part 29):1986, (RA 2014)	0.05 mg/l to 10 mg/l
		Residual Free Chlorine	IS 3025 (Part 26):1986, (RA 2014)	0.1 mg/l to 1000 mg/l
		Ammoniacal Nitrogen as NH <sub>3</sub> -N	IS 3025 (part34):1988, (RA 2009)	5 mg/l to 100 mg/l
		Total Kjeldahl Nitrogen as N	IS 3025 (part 34):1988, (RA 2014)	1 mg/l to 250 mg/l
		Nitrite (as NO <sub>2</sub> )	IS 3025 (Part 34):1988, (RA 2014)	0.01 mg/l to 50 .0 mg/l
		Fluoride (as F)	IS 3025 (Part 60):2008 (RA 2013)	0.1 mg/l to 5.0 mg/l
		Copper (as Cu)	IS 3025 (Part 42):1992, (RA 2014)	0.02 mg/l to 5.0 mg/l
		Iron (as Fe)	IS 3025 (Part 53):2003, (RA 2014)	0.02 mg/l to 5.0 mg/l
		Manganese (as Mn)	IS 3025 (Part 59):2006 (RA 2012)	0.01 mg/l to 5 .0 mg/l
		Zinc (as Zn)	IS 3025 (Part49):1994, (RA 2014)	0.01 mg/l to 100 mg/l
		Cadmium (as Cd)	IS 3025 (Part 41):1992, (RA 2014)	0.001 5 mg/l
		Arsenic (as As)	IS 3025 (Part 37):1988 (RA 2014)	0.005 mg/l to 1mg/l
		Cyanide (as CN)	IS 3025 (Part 27):1986, (RA 2014)	0.01 mg/l to 5.0 mg/l
		Lead (as Pb)	IS 3025 (Part 47):1994 (RA 2014)	0.01 mg/l to 10 mg/l
		Chromium (as Cr)	Annexure-J, IS 13428:2005, (RA 2014)/	0.01 mg/l to 10.0 mg/l

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			IS 3025(Part-52):2003, (RA 2014)	
		Nickel (as Ni)	IS 3025 (Part 54):2003 (RA 2014)/,Annexure L of IS 13428:2005, (RA 2014)	0.01 mg/l to 5.0 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.**