

Laboratory	Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	10.09.2014
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	WATER			
1.	Packaged Drinking Water & Packaged Natural Mineral Water	Escherichia coli	IS 15185:2002	(Absent/Present) /250 ml
		Coliform	IS 15185:2002	(Absent/Present) /250 ml
		Faecal streptococci	IS 15186:2002 (RA: 2007)	(Absent/Present) /250 ml
		Staphylococcus aureus	IS 5887:Part 02 (RA: 2005) & IS:15188:2012	(Absent/Present) /250 ml
		Sulphite Reducing Anaerobes	IS 13428:2005 (Annex C)	(Absent/Present) /50 ml
		Pseudomonas aeruginosa	IS 15188:2012 & IS 13428:2005 (Annex D)	(Absent/Present) /250 ml
		Aerobic Microbial Count @37 °C for 24 hrs	IS 5402:2012	≥1 CFU/ml
		Aerobic Microbial Count @22 °C for 72 hrs	IS 5402:2012	≥1 CFU/ml
		Yeast & Mould	IS 15188:2012 & IS 5403:1999 (RA: 2005)	(Absent/Present) /250 ml
		Salmonella	IS 15187:2002	(Absent/Present) /250 ml
	Shigella	IS 5887:Part 07:1999 (RA: 2005) & IS 15188:2012	(Absent/Present) /250 ml	

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		<i>Vibrio cholera</i>	IS 5887: Part 05:1976 (RA: 2005) & IS 15188:2012	(Absent/Present) /250 ml
		<i>Vibrio parahaemolyticus</i>	IS 5887:Part 05:1976 (RA: 2005) & IS 15188:2012	(Absent/Present) /250 ml
		Escherichia coli	IS 15185:2002	(Absent/Present) /250 ml
		Coliform	IS 15185:2002	(Absent/Present) /250 ml
		Faecal streptococci	IS 15186:2002 (RA: 2007)	(Absent/Present) /250 ml
		<i>Staphylococcus aureus</i>	IS 5887:Part 02(RA: 2005) & IS15188:2012	(Absent/Present) /250 ml
		Sulphite Reducing Anaerobes	IS 13428:2005 (Annex C)	(Absent/Present) /50 ml
		<i>Pseudomonas aeruginosa</i>	IS 15188:2012 & IS 13428:2005 (Annex D)	(Absent/Present) /250 ml
		Aerobic Microbial Count @37°C c for 24 hrs	IS 5402:2012	≥1 cfu/ml
		Aerobic Microbial Count @22°C for 72 hrs	IS 5402:2012	≥1 cfu/ml
		Yeast & Mould	IS 15188:2012 & IS 5403:1999 (RA: 2005)	(Absent/Present) /250 ml

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Salmonella	IS 15187:2002	(Absent/Present) /250 ml
		Shigella	IS 5887: Part 07:1999 (RA: 2005) & IS 15188:2012	(Absent/Present) /250 ml
		<i>Vibrio cholera</i>	IS 5887:Part 05:1976 (RA: 2005) & IS 15188:2012	(Absent/Present) /250 ml
		<i>Vibrio parahaemolyticus</i>	IS 5887:Part 05:1976 (RA: 2005) & IS 15188:2012	(Absent/Present) /250 ml
		Total Coliforms (MPN)	IS 1622:1981(RA: 2009)	≥2 - ≤1600 MPN/100ml
		Total Coliforms (MF)	IS 1622:1981(RA: 2009)	≥1CFU/100 ml
		Faecal Coliforms (MPN)	IS 1622:1981(RA: 2009)	≥2 - ≤1600 MPN/100 ml
		Escherichia coli (MPN)	IS 1622:1981(RA: 2009)	≥2 - ≤1600 MPN/100 ml
2.	Water for Swimming Pools	Coliform Bacteria (MPN)	IS 1622:1981(RA: 2009)	≥2 - ≤1600 MPN/100 ml
		Standard Plate Count	IS 3328:1993 (RA: 2008) Annex – A	≥1 CFU/ml

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3.	Water for Processed Food Industries & Water for Industrial Purpose	Coliform Bacteria (MPN)	IS 1622:1981(RA: 2009)	≥2 - ≤1600 MPN/100 ml
		Standard Plate Count	IS 1622:1981(RA: 2009)	≥1 CFU/ml
		Proteolytic Bacterial Count	IS 4251:1967(RA: 2009)	≥1 CFU/ml
		Lipolytic Bacterial Count	IS 4251:1967(RA: 2009)	≥1 CFU/ml
		Slime Forming Bacteria	IS 4251:1967 (RA: 2009)& IS 1622:1981 (RA: 2009)	Present/Absent
4.	Ground Water/ Surface Water/ Waste Water / Other Specified Water	Yeast & Mould	IS 5403:1999 (RA: 2005)	≥1 CFU/ml
		Total Coliforms	APHA 22 nd Edition 2005, 9221 B, C	≥1.8 - ≤1600 MPN/100ml
		Faecal Coliforms	APHA 22 nd Edition 2005, 9221 B, C, E	≥1.8 - ≤1600 MPN/100ml
		Escherichia coli	APHA 22 nd Edition 2005, 9221 B, C, F	≥1.8 - ≤1600 MPN/100ml
		Total Coliform	APHA 22 nd Edition 2005, 9222 B, A	≥1 CFU/100ml
		Escherichia coli	APHA 22 nd Edition 2005 9222 G, B, A	≥1 CFU/100ml
		Faecal Streptococci	IS: 1622:1981(RA: 2009)	≥2 - ≤1600 MPN/100ml

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Faecal Streptococci	APHA 22 nd Edition 2005 – 9230 A,B	≥1.8 - ≤1600 MPN/100ml
		Faecal Streptococci	IS 1622:1981(RA: 2009)	≥1 CFU/100ml
		Gelatin Liquefying Bacteria / ml	IS 1622:1981(RA: 2009)	Absent/Present /ml
II. FOOD & AGRICULTURAL PRODUCTS				
1.	Bakery & Confectionary Products	Total Plate Count	FDA-BAM 2001 8 th Edition Chapter 3 IS 5402:2012	≥ 1 CFU/ml or ≥ 10 CFU/g
		Escherichia coli	IS 5887:Part 1:1976 (RA: 2005)	≥ 1 CFU/ml or ≥ 10 CFU/g ≥ 0.30 - ≤110 MPN/gm or ml
		Yeast and Mould	IS 5403:1999 (RA: 2005)	≥ 1CFU/ml or ≥ 10 CFU/g
		Total Coliforms	IS 5401:Part 1:2002 (RA: 2007) IS 5401:Part 2:2012	≥ 1 CFU/ml or ≥ 10 CFU/g ≥ 0.30- ≤ 110 MPN/gm or ml
		Salmonella	IS 5887:Part 3:1999 (RA: 2009)	(Present / Absent) 25g or 25 ml
		Clostridium <i>perfringens</i>	IS 5887:Part 4:1999 (RA: 2005)	≥ 1 CFU/ml or ≥ 10 CFU/g

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		<i>Staphylococcus aureus</i>	IS:5887:Part 2:1976 (RA: 2005)	≥ 1 CFU/ml or ≥ 10 CFU/g
		<i>Bacillus cereus</i>	IS:5887:Part 6:2012	≥ 1 CFU/ml or ≥ 10 CFU/g
		Shigella	IS 5887:Part 7:1999 (RA: 2005)	(Present / Absent)/ 25g or 25 ml
2.	Cereals, Pulses & Cereal Products	Total Plate Count	FDA-BAM 2001 8 th Edition Chapter 3 IS 5402:2012	≥ 1 CFU/ml or ≥ 10 CFU/g
		<i>Escherichia coli</i>	IS 5887:Part 1:1976 (RA: 2005)	≥ 1 CFU/ml or ≥ 10 CFU/g ≥ 0.30 – ≤110 MPN/gm or ml
		Yeast and Mould	IS 5403:1999 (RA: 2005)	≥ 1CFU/ml or ≥ 10 CFU/g
		Total Coliforms	IS 5401:Part 1:2002	≥ 1 CFU/ml or ≥ 10 CFU/g
			IS 5401:Part 2:2012	≥ 0.30- ≤ 110 MPN/gm or ml
		Salmonella	IS:5887:Part 3:1999 (RA: 2009)	(Present / Absent)/25g or 25 ml

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Shigella	IS 5887:Part 7:1999 (RA: 2005)	(Present / Absent)/ 25g or 25 ml
		Staphylococcus aureus	IS 5887:Part 2:1976 (RA: 2005)	≥ 1 CFU/ml or ≥ 10 CFU/g
		Bacillus Cereus	IS 5887:Part 6:2012	≥ 1 CFU/ml or ≥ 10 CFU/g
		Faecal Streptococci	IS 5887:Part 2:1976 (RA: 2005)	≥ 1 CFU/ml or ≥ 10 CFU/g
3.	Milk and Dairy Products	Total Plate Count	FDA-BAM 2001 8 th Edition Chapter 3 IS 5402:2012	≥ 1 CFU/ml or ≥ 10 CFU/g
		Escherichia coli	IS 5887:Part 1:1976 (RA: 2005)	≥ 1 CFU/ml or ≥ 10 CFU/g ≥ 0.30 - ≤ 110 MPN/gm or ml
		Yeast and Mould	IS 5403:1999 (RA: 2005)	≥ 1CFU/ml or ≥ 10 CFU/g
		Total Coliforms	IS 5401:Part 1:2002	≥ 1 CFU/ml or ≥ 10 CFU/g ≥ 0.30- ≤ 110 MPN/gm or ml

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Salmonella	IS 5887:Part 3:1999 (RA: 2009)	(Present / Absent)/ 25 g or 25 ml
		Shigella	IS 5887:Part 7:1999 (RA: 2005)	(Present / Absent)/ 25 g or 25 ml
		Staphylococcus aureus	IS 5887:Part 2:1976 (RA: 2005)	≥ 1 CFU/ml or ≥ 10 CFU/g
		Bacillus cereus	IS 5887:Part 6:2012	≥ 1 CFU/ml or ≥ 10 CFU/g
		Faecal streptococci	IS 5887:Part 2:1976 (RA: 2005)	≥ 1 CFU/ml or ≥ 10 CFU/g
		Clostridium perfringens	IS 5887:Part 4:1999 (RA: 2005)	≥ 1 CFU/ml or ≥ 10 CFU/g
		Vibrio cholera	IS 5887:Part 5:1976 (RA: 2005)	(Present / Absent)/ 25 g or 25 ml
		Vibrio parahaemolyticus	IS 5887:Part 5:1976 (RA: 2005)	(Present / Absent)/ 25 g or 25 ml
4.	Fruits & Fruit Products	Total Plate Count	FDA-BAM 2001 8 th Edition Chapter 3 IS:5402:2012	≥ 1 CFU/ml or ≥ 10 CFU/g
		Escherichia coli	IS 5887:Part 1:1976 (RA: 2005)	≥ 1 CFU/ml or ≥ 10 CFU/g ≥ 0.30 - ≤110 MPN/gm or ml

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		Yeast and Mould	IS 5403:1999 (RA: 2005)	≥ 1CFU/ml or ≥ 10 CFU/g
		Total Coliforms	IS 5401:Part 1:2002	≥ 1 CFU/ml or ≥ 10 CFU/g ≥ 0.30- ≤ 110 MPN/gm or ml
		Salmonella	IS 5887:Part 3:1999 (RA: 2009)	(Present / Absent)/ 25 g or 25 ml
		Staphylococcus aureus	IS 5887:Part 2:1976 (RA: 2005)	≥ 1 CFU/ml or ≥ 10 CFU/g
5.	Vegetable & Vegetable Products	Total Plate Count	FDA-BAM 2001 8 th Edition Chapter 3 IS 5402:2012	≥ 1 CFU/ml or ≥ 10 CFU/g
		Escherichia coli	IS 5887:Part 1:1976 (RA: 2005)	≥ 1 CFU/ml or ≥ 10 CFU/g ≥ 0.30 – ≤ 110 MPN/gm or ml
		Yeast and Mould	IS 5403:1999 (RA: 2005)	≥ 1CFU/ml or ≥ 10 CFU/g
		Total Coliforms	IS 5401:Part 1:2002	≥ 1 CFU/ml or ≥ 10 CFU/g ≥ 0.30- ≤ 110 MPN/gm or ml

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		Salmonella	IS 5887:Part 3:1999 (RA: 2009)	(Present / Absent)/ 25 g or 25 ml
		<i>Clostridium perfringens</i>	IS 5887:Part 4:1999 (RA: 2005)	≥ 1 CFU/ml or ≥ 10 CFU/g
		<i>Staphylococcus aureus</i>	IS 5887:Part 2:1976 (RA: 2005)	≥ 1 CFU/ml or ≥ 10 CFU/g
		<i>Bacillus cereus</i>	IS 5887:Part 6:2012	≥ 1 CFU/ml or ≥ 10 CFU/g
		Shigella	IS 5887:Part 7:1999 (RA: 2005)	(Present / Absent)/ 25 g or 25 ml
		<i>Faecal streptococci</i>	IS 5887:Part 2:1976 (RA: 2005)	≥ 1 CFU/ml or ≥ 10 CFU/g
6.	Sugar & Sugar Products	Total Plate Count	FDA-BAM 2001 8 th Edition Chapter 3 IS 5402:2012	≥ 1 CFU/ml or ≥ 10 CFU/g
		<i>Escherichia coli</i>	IS 5887:Part 1:1976 (RA: 2005)	≥ 1 CFU/ml or ≥ 10 CFU/g ≥ 0.30 – ≤110 MPN/gm or ml
		Yeast and Mould	IS 5403:1999 (RA: 2005)	≥ 1CFU/ml or ≥ 10 CFU/g

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		Total Coliforms	IS 5401:Part 1:2002	≥ 1 CFU/ml or ≥ 10 CFU/g ≥ 0.30- ≤ 110 MPN/gm or ml
		Salmonella	IS 5887:Part 3:1999 (RA: 2009)	(Present / Absent)/ 25 g or 25 ml
		<i>Clostridium perfringens</i>	IS 5887:Part 4:1999 (RA: 2005)	≥ 1 CFU/ml or ≥ 10 CFU/g
		<i>Staphylococcus aureus</i>	IS 5887:Part 2:1976 (RA: 2005)	≥ 1 CFU/ml or ≥ 10 CFU/g
		<i>Bacillus cereus</i>	IS 5887:Part 6:2012	≥ 1 CFU/ml or ≥ 10 CFU/g
		Shigella	IS 5887:Part 7:1999 (RA: 2005)	(Present / Absent)/ 25 g or 25 ml
		Faecal <i>streptococci</i>	IS 5887:Part 2:1976 (RA: 2005)	≥ 1 CFU/ml or ≥ 10 CFU/g
		<i>Vibrio cholera</i>	IS 5887:Part 5:1976 (RA: 2005)	(Present / Absent)/ 25 g or 25 ml
		<i>Vibrio parahaemolyticus</i>	IS 5887:Part 5:1976 (RA: 2005)	(Present / Absent)/ 25 g or 25 ml

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7.	Herbs, Spice and Condiments	Total Plate Count	FDA-BAM 2001 8 th Edn. Chapter 3 IS:5402:2012	≥ 1 CFU/ml or ≥ 10 CFU/g
		Escherichia coli	IS 5887:Part 1:1976 (RA: 2005)	≥ 1 CFU/ml or ≥ 10 CFU/g ≥ 0.30 – ≤ 110 MPN/gm or ml
		Yeast and Mould	IS 5403:1999 (RA: 2005)	≥ 1CFU/ml or ≥ 10 CFU/g
		Total Coliforms	IS 5401:Part 1:2002 IS 5401:Part 2:2012	≥ 1 CFU/ml or ≥ 10 CFU/g ≥ 0.30- ≤ 110 MPN/gm or ml
		Salmonella	IS 5887:Part 3:1999 (RA: 2009)	(Present / Absent)/ 25 g or 25 ml
		Clostridium <i>perfringens</i>	IS 5887:Part 4:1999 (RA: 2005)	≥ 1 CFU/ml or ≥ 10 CFU/g
		Staphylococcus <i>aureus</i>	IS 5887:Part 2:1976 (RA: 2005)	≥ 1 CFU/ml or ≥ 10 CFU/g
		Bacillus <i>cereus</i>	IS 5887:Part 6:2012	≥ 1 CFU/ml or ≥ 10 CFU/g

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		Shigella	IS 5887:Part 7:1999 (RA: 2005)	(Present / Absent)/ 25 g or 25 ml
		Faecal <i>streptococci</i>	IS 5887:Part 2:1976 (RA: 2005)	≥ 1 CFU/ml or ≥ 10 CFU/g

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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**.