

Laboratory	Punjab Biotechnology Incubator, Agri & Food Testing Laboratory, SCO:7-8, Top Floor, Phase-V, SAS Nagar, Mohali		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	25.07.2013
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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
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I. FOOD & AGRICULTURAL PRODUCTS

1.	Milk & Dairy Products (Liquid Milk, Dairy Whitener, Skimmed milk powder, Condensed Milk, Dahi, Paneer, Cream etc.)	Total Plate Count	IS:5402-2012 ISO:4833-1991	≥10 cfu/g ≥1 cfu/ml
		Total Coliform count	IS:5401(Part-1) -2002 ISO:4832-1991	≥10 cfu/g ≥1 cfu/ml
			IS:5401(Part-2) -2002 ISO:4831-1991	0.2-180 MPN/g
		<i>Escherichia coli</i>	IS:5887 (Part-I) -1976 (Reaffirmed 1995)	≥10 cfu/g ≥1 cfu/ml Present/Absent per gm
		<i>Salmonella</i>	IS:5887(Part-III)-1999 (Reaffirmed 2005) ISO 6579 : 1993	Present/Absent per 25 gm
		<i>Shigella</i>	IS:5887(Part-7)-1999 (Reaffirmed 2005)	Present/Absent per 25 gm
		<i>Staphylococcus aureus</i>	IS:5887(Part-II) 1976 (Reaffirmed 2005) IS:5887(P-8) sec-I:2002 (Reaffirmed 2005)	≥10 cfu/g ≥1 cfu/ml Present/Absent per gm
		Yeast & Mould count	IS:5403-1999 (Reaffirmed 2005) ISO:7954-1987	≥10 cfu/g ≥1 cfu/ml
		Bacillus cereus	IS:5887(P-6)1999 (Reaffirmed 2005)	≥10 cfu/g ≥1 cfu/ml

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	Milk & Dairy Products (Liquid Milk, Dairy Whitener, Skimmed milk powder, Condensed Milk, Dahi, Paneer, Cream etc.)	Thermophillic Plate Count	IS 1479 (Part 3):1977 (Reaffirmed 2003)	≥1 cfu/ml ≥10cfu/g
		Thermoduric Plate Count	IS 1479 (Part 3):1977 (Reaffirmed 2003)	≥1 lpc/ml ≥10 lpc/g
		Aerobic spore count (Bacillus cereus)	IS:5887(P-6) 2012 APHA 4 th ed.Chapter 32	≥1 cfu/ml ≥10cfu/g
		Anaerobic spore count (clostridium perfringern)	IS:5887(P-4)/ APHA4th ed. Ch. 34	Present /Absent/g or ml ≥10cfu/g ≥1 cfu/ml
		Listeria monocytogenes	IS:14988 (Part-I): 2001 (Reaffirmed 2007)	Present /Absent/ 25 gor 25 ml
	Non- Alcoholic Drink & Beverages/ Carbonated Fruit Beverages, Fruit & Vegetable drinks & juices, concentrates, Squashes, Purees Pulp, crushes, Fruit syrups, Sharbats etc.	Total Plate Count	IS:5402-2012 ISO:4833-1991	≥10 cfu/g ≥1 cfu/ml
		<i>Escherichia coli</i>	IS 5887 (Part-1):1976 (Reaffirmed 1995)	≥10 cfu/g ≥1 cfu/ml Present/Absent per gm
		Yeast & Mould count	IS:5403-1999 (Reaffirmed 2005) ISO:7954-1987	≥10 cfu/g ≥1 cfu/ml
		Coliform count	IS 5401 (Part I) : 2002 ISO 4832 : 1991	≥10 cfu/g ≥1 cfu/ml
			IS 5401 (Part 2) : 2002 ISO 4831 : 1991	0.2-180 MPN/g

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	Non- Alcoholic Drink & Beverages/ Carbonated Fruit Beverages, Fruit & Vegetable drinks & juices, concentrates, Squashes, Purees Pulp, crushes, Fruit syrups, Sharbats etc.	<i>Staphylococcus aureus</i>	IS:5887(Part-II) 1976 (Reaffirmed 2005) IS:5887(P-8) sec-I:2002 (Reaffirmed 2005)	≥10 cfu/g ≥1 cfu/ml Present /Absent per gm
		<i>Salmonella</i>	IS:5887(Part-III)-1999 (Reaffirmed 2005) ISO 6579 : 1993	Present/Absent/25gm
		<i>Shigella</i>	IS:5887(Part-7)-1999 (Reaffirmed 2005)	Present/Absent/25gm
		Flat sour Organism	APHA 4th ed. Chapter 24	≥1 cfu/ml
2.	Bakery Products Sweets & Confectionery Biscuit, Bread, Sugar Boiled Confectionary, Lozenges, Chewing & Bubble Gum etc.	Total Plate Count	IS:5402-2012 ISO:4833-1991	≥10 cfu/g
		Yeast & Mould Count	IS:5403-1999 (Reaffirmed 2005) ISO:7954-1987	≥10 cfu/g
		<i>Escherichia coli</i>	IS 5887 (Part-1):1976 (Reaffirmed 1995)	≥10 cfu/g Present/Absent per 10 g
		Coliform count	IS:5401 (Part-1) -2002 ISO:4832-1991	≥10 cfu/g
		Enterobacteriaceae	IS/ISO:7402: 1993	≥10 cfu/g
		<i>Staphylococcus aureus</i>	IS:5887(Part-II) 1976 (Reaffirmed 2005) IS:5887(P-8) sec-I:2002 (Reaffirmed 2005)	≥10 cfu/g Present/ Absent per g

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		<i>Salmonella sp.</i>	IS:5887(Part-III)-1999 (Reaffirmed 2005) ISO 6579 : 1993	Present/Absent/25gm
		<i>Shigella</i>	IS:5887(Part-7)-1999 (Reaffirmed 2005)	Present/Absent/25gm
	Cereals, Pulses & Cereals Products (Wheat, Maida, Suji, Besan, Pulses etc)	Total Plate Count	IS:5402-2012 ISO:4833-1991	≥10 cfu/g
		Yeast & Mould count	IS:5403-1999 (Reaffirmed 2005) ISO:7954-1987	≥10 cfu/g
		<i>Escherichia coli</i>	IS 5887 (Part-1):1976 (Reaffirmed 1995)	≥10 cfu/g Present/Absent per gm
		Coliform count	IS 5401 (Part I) : 2002 ISO 4832 : 1991	≥10 cfu/g
		<i>Staphylococcus aureus</i>	IS:5887(Part-II) 1976 (Reaffirmed 2005) IS:5887(P-8) sec-I:2002 (Reaffirmed 2005)	≥10 cfu/g Present/Absent per gm
		<i>Salmonella sp.</i>	IS:5887 (Part-III)-1999 (Reaffirmed 2005) ISO 6579 : 1993	Present/Absent per 25gm
		<i>Shigella sp.</i>	IS:5887(Part-7)-1999 (Reaffirmed 2005)	Present/Absent/25gm
		<i>Bacillus cereus</i>	IS:5887(P-6) 2012	≥10 cfu/g

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		Thermoturcic Plate Count	IS 1479 (Part 3):1977 (Reaffirmed 2003)	≥10 cfu/g
3.	Herbs, Spices & Condiments (Coriander Powder, Red Chilli Powder, Turmeric powder, Garam Masala etc)	Total Plate Count	IS:5402-2012 ISO:4833-1991	≥10 cfu/g
		Yeast & Mould count	IS:5403-1999 (Reaffirmed 2005) ISO:7954-1987	≥10 cfu/g
		<i>Escherichia coli</i>	IS 5887 (Part-1):1976 (Reaffirmed 1995)	≥10 cfu/g Present/Absent/gm
		Coliform count	IS:5401(Part-1) -2002 ISO:4832-1991	≥10 cfu/g
		<i>Staphylococcus aureus</i>	IS:5887(Part-II) 1976 (Reaffirmed 2005)	≥10 cfu/g Present/Absent/gm
			IS:5887(P-8) sec-I:2002 (Reaffirmed 2005)	
		<i>Salmonella sp.</i>	IS:5887(Part-III)-1999 (Reaffirmed 2005) ISO 6579 : 1993	Present/Absent/25gm
		Shigella	IS:5887(Part-7)-1999 (Reaffirmed 2005)	Absent/ Present/25gm
		<i>Clostridium sp.</i>	ISO 15321 :2003 / IS 5887 (Part-IV)	≥10 cfu/gm
	Enterobacteriaceae	IS/ISO:7402:1993 (Reaffirmed 2001)	≥10 cfu/gm	

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		<i>Bacillus cereus</i>	IS:5887(P-6) 2012	≥10 cfu/g
4.	Raw & Processed Fruit & Vegetable Products	Total Plate Count	IS:5402-2012 ISO:4833-1991	≥10 cfu/g
a.	(Pickles, Jams, Murabba, Sauces, Ketchup, Chutney, Paste, Puree, Fruit jelly, marmalades and Concentrates, Snacks, Soup Powder, candied & crystallized or glazed fruit & Peel, Vinegars etc.)	Yeast & Mould Count	IS:5403-1999 (Reaffirmed 2005) ISO:7954-1987	≥10 cfu/g
		<i>Escherichia coli</i>	IS 5887 (Part-1):1976 (Reaffirmed 1995)	≥10 cfu/g Present/Absent per gm
		Coliform count	IS:5401 (Part-1) -2002 ISO:4832-1991	≥10 cfu/g
		<i>Staphylococcus aureus</i>	IS:5887(Part-II) 1976 (Reaffirmed 2005)	≥10 cfu/g Present/Absent per gm
			IS:5887(P-8) sec-I:2002 (Reaffirmed 2005)	
		<i>Faecal streptococci</i>	IS:5887(Part-II) 1976 (Reaffirmed 2005)	≥10 cfu/g
		<i>Salmonella sp.</i>	IS:5887(Part-III)-1999 (Reaffirmed 2005) ISO 6579 : 1993	Present/Absent/25gm
		<i>Shigella</i>	IS:5887(Part-7)-1999 (Reaffirmed 2005)	Present/Absent/25gm
		Enterobacteriaceae	IS/ISO:7402:1993 (Reaff. 2001)	≥10 cfu/gm

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		<i>Bacillus cereus</i>	IS:5887(P-6) 2012	≥10 cfu/g
		<i>Vibrio cholerae</i>	IS:5887(P-5):1976 (Reaffirmed 2005)	Present/Absent/25gm
		<i>Vibrio parahaemolyticus</i>	IS:5887(P-5):1976 (Reaffirmed 2005)	Present/Absent/25gm
		Mould Count	DGHS – Manual of Methods of Analysis of Analysis of Foods	Positive in the percent field examined
		Yeast & Spores	DGHS – Manual of Methods of Analysis of Analysis of Foods	≥1 Org per1/60 c.m.m
		Flat sour Organism	APHA 4th ed. Chapter 24	≥1 cfu/g
b.	Canned Processed Food / Thermally Processed Fruit & Vegetables	Total Plate Count	IS:5402-2012 ISO:4833-1991	≥10 cfu/g
		Yeast & Mould count	IS:5403-1999 (Reaffirmed 2005) ISO:7954-1987	≥10 cfu/g
		<i>Escherichia coli</i>	IS 5887 (Part-1):1976 (Reaffirmed 1995)	≥10 cfu/g Present/Absent/gm
		Coliform count	IS:5401(Part-1) -2002 ISO:4832-1991	≥10 cfu/g
		<i>Staphylococcus aureus</i>	IS:5887(Part-II) 1976 (Reaffirmed 2005)	≥10 cfu/g Present/Absent/gm
			IS:5887(P-8) sec-I:2002 (Reaffirmed 2005)	

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		<i>Salmonella sp.</i>	IS:5887 (Part-III)-1999 (Reaffirmed 2005) ISO 6579 : 1993	Present/Absent/25gm
		<i>Shigella</i>	IS:5887(Part-7)-1999 (Reaffirmed 2005)	Present/Absent/25gm
		<i>Clostridium sp.</i>	ISO15321 :2003	≥10 cfu/gm
		Incubation Test (Accelerated Storage Test)	Chapter 62 APHA	Qualitative
		Flat sour Organism	APHA 4th ed. Chapter 25	≥1 cfu/g
c.	Frozen Foods / Frozen fruits & Vegetables	Total Plate Count	IS:5402-2012 ISO:4833-1991	≥10 cfu/g
		Yeast & Mould count	IS:5403-1999 (Reaffirmed 2005) ISO:7954-1987	≥10 cfu/g
		<i>Escherichia coli</i>	IS 5887 (Part-1):1976 (Reaffirmed 1995)	≥10 cfu/g Present/Absent/gm
		Coliform count	IS:5401(Part-1) -2002 ISO:4832-1991	≥10 cfu/g
		<i>Staphylococcus aureus</i>	IS:5887(Part-II) 1976 (Reaffirmed 2005) IS:5887(P-8) sec-I:2002 (Reaffirmed 2005)	≥10 cfu/g Present/Absent/gm

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		<i>Salmonella</i>	IS:5887(Part-III)-1999 (Reaffirmed 2005) ISO 6579 : 1993	Present/Absent/25gm
		<i>Vibrio cholerae</i>	IS:5887(P-5):1976 (Reaffirmed 2005)	Present/Absent/25gm
		<i>Vibrio parahaemolyticus</i>	IS:5887(P-5):1976 (Reaffirmed 2005)	Present/Absent/25gm
		Sulphite Reducing Anaerobic Bacteria	ISO 15213-2003	≥10 cfu/g
		Faecal Coliforms	APHA 4th ed. (Clause 8.81)	2 -1600 MPN/g
		Flat sour Organism	APHA 4th ed. Chapter 24	≥1 cfu/g
5.	Infant food Milk cereal based complementary food (IS 1656 : 2007), Processed Cereal based Complementary Food (IS 11536 : 2007), Follow-Up- Formula- Complementary Foods (IS 15757:2007)	Total Bacterial Count	IS:5402-2012 ISO:4833-1991	≥10 cfu/gm
		Coliform count	IS:5401(Part-1) -2002 ISO:4832-1991	≥1 cfu/g
		Yeast and Mould Count	IS:5403-1999 (Reaffirmed 2005) ISO:7954-1987	≥1 cfu/gm
		<i>Salmonella sp.</i>	IS:5887(Part-3) 1999 (Reaffirmed 2005)	Present/ Absent per 25 g
		<i>Shigella sp.</i>	IS:5887(Part-7) 1999	Present/ Absent per 25 g
		<i>E. coli</i>	IS 5887 (Part-1):1976 (Reaffirmed 1995)	≥10 cfu/g

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		<i>Staphylococcus aureus</i>	IS:5887(Part-II) 1976 (Reaffirmed 2005)	≥10 cfu/g
			IS:5887(P-8) sec-I:2002 (Reaffirmed 2005)	
		Flat sour Organism	APHA 4th ed. Chapter 24	≥1 cfu/g
6.	Tea/coffee & Cocoa Products	Total bacterial count	IS:5402-2012 ISO:4833-1991	≥10 cfu/g ≥1 cfu/ml
		Coliform count	IS:5401(Part-1) -2002 ISO:4832-1991	≥10 cfu/g ≥1 cfu/ml
		Yeast & Mould	IS:5403-1999 (Reaffirmed 2005) ISO:7954-1987	≥10 cfu/g ≥1 cfu/ml
		E coli	IS:5887 (Part-I) -1976	≥10 cfu/g ≥1 cfu/ml Present/Absent/gm
		Salmonella	IS:5887(Part-III)-1999 (Reaffirmed 2005) ISO 6579 : 1993	Present /Absent 25g
		Shigella	IS:5887(Part-7)-1999 (Reaffirmed 2005) IS:5887(Part-7)-1999	Present /Absent 25g
		Staphylococcus aureus	IS:5887(Part-II) 1976 (Reaffirmed 2005)	≥10 cfu/g ≥1 cfu/ml Present/Absent/gm
				IS:5887(P-8) sec-I:2002 (Reaffirmed 2005)

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7.	Nuts & Nuts Products	Total Plate Count	IS:5402-2012 ISO:4833-1991	≥10 cfu/g ≥1 cfu/ml
		Yeast & Mould count	IS:5403-1999 (Reaffirmed 2005) ISO:7954-1987	≥10 cfu/g ≥1 cfu/ml
		Escherichia coli	IS 5887 (Part-1):1976 (Reaffirmed 1995)	≥10 cfu/g ≥1 cfu/ml Present/Absent/g
		Coliform count	IS:5401(Part-1) -2002 ISO:4832-1991	≥10 cfu/g ≥1 cfu/ml
		Staphylococcus aureus	IS:5887(Part-II) 1976 (Reaffirmed 2005) IS:5887(P-8) sec-I:2002 (Reaffirmed 2005)	≥10 cfu/g ≥1 cfu/ml Present/Absent/g
		Salmonella sp.	IS:5887(Part-III)-1999 (Reaffirmed 2005) ISO 6579 : 1993	Present/Absent/25gm
		Shigella sp.	IS:5887(Part-7)-1999 (Reaffirmed 2005) S:5887(Part-7)-1999	Present/Absent/25gm
		Clostridium sp.	ISO : 15321 (2003) / IS 5887 (Part-IV)	≥10 cfu/gm
		Vibrio cholerae	IS:5887(P-5)1976 (Reaffirmed 2005)	Present/Absent per 25 g or ml

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	Nuts & Nuts Products	<i>Vibrio parahaemolyticus</i>	IS:5887(P-5)1976 (Reaffirmed 2005)	Present/Absent per 25 g or ml
8.	Animal Feed	Total Plate Count	IS:5402-2012 ISO:4833-1991	≥10 cfu/g
		Yeast & Mould Count	IS:5403-1999 (Reaffirmed 2005) ISO:7954-1987	≥10 cfu/g
		<i>Escherichia coli</i>	IS 5887 (Part-1):1976 (Reaffirmed 1995)	≥10 cfu/g Present/Absent/g
		Coliform count	IS 5401 (Part I) : 2002 ISO 4832 : 1991	≥10 cfu/g
			IS 5401 (Part 2) : 2002 ISO 4831 : 1991	0.2-180 MPN/g
		<i>Staphylococcus aureus</i>	IS:5887(Part-II) 1976 (Reaffirmed 2005)	≥10 cfu/g Present/Absent/gm
			IS:5887(P-8) sec-I:2002 (Reaffirmed 2005)	
		<i>Salmonella</i>	IS:5887(Part-III)-1999 (Reaffirmed 2005) ISO 6579 : 1993	Present/ Absent per 25g
		<i>Shigella</i>	IS:5887(Part-7)-1999 (Reaffirmed 2005)	Present/Absent/25gm
		<i>Clostridium sp.</i>	ISO 15321 :2003 / IS 5887 (Part-IV)	≥10 cfu/gm

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II. DRUGS & PHARMACEUTICALS PRODUCTS

1.	Raw Material, Intermediate, Final Ayurvedic Drugs / Medicinal Plant Material / Herbal Drugs (Avleha, Pulp, Churna, Herb, Ghrita, Pishti, Bhasma)	Aerobic plate count	WHO Quality Control Method QAS/05.131/Rev.1	>10 cfu/g >1 cfu/ml
		Coliform count	WHO Quality Control Method QAS/05.131/Rev.1	>10 cfu/g >1 cfu/ml
		Enterobacteriaceae	WHO Quality Control Method QAS/05.131/Rev.1	>1 Probable Number /gm
		Yeast and Mould count	WHO Quality Control Method QAS/05.131/Rev.1	>1cfu/ml >10 cfu/g
		<i>E.coli</i>	WHO Quality Control Method QAS/05.131/Rev.1	Present/Absent per g >1 MPN /gm
		<i>Salmonella</i>	WHO Quality Control Method QAS/05.131/Rev.1	Present/Absent per g
		<i>Shigella</i>	WHO Quality Control Method QAS/05.131/Rev.1	Present/Absent per g
		<i>S.aureus</i>	WHO Quality Control Method QAS/05.131/Rev.1	Present/Absent per g
		<i>Pseudomonas</i>	WHO Quality Control Method QAS/05.131/Rev.1	Present/Absent per g

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III. BIOCIDES

1.	Disinfectant Fluids, Phenolic type IS 1061:1997	Germicidal Value as Rideal Walker coeff (RW)	Appendix B of IS 1061	≥ 1 RW coefficient
		Germicidal Value as Staphylococcal coeff (SA)	Appendix C of IS 1061	≥ 1 SA coefficient
2.	De-odourizing-cum- Disinfectant Fluids IS 10758	Germicidal Value as Rideal Walker coeff (RW)	Appendix B of IS 1061	≥ 1 RW coefficient
		Germicidal Value as Staphylococcal coeff (SA)	Appendix C of IS 1061	≥ 1 SA coefficient

IV. POLLUTION & ENVIRONMENT

1.	Wastewater, Sewage & Effluent Water	Total plate count	IS:5402-2012 ISO:4833-1991	≥1cfu /ml
		Total Coliform	IS 1622:1981 (Reaffirmed 2003) Guide Manual Water & Waste Water Analysis- CPCB Manual Ch-3	1-542 MPN / 100 ml ≥1cfu /100ml
		Faecal Coliform (Thermotolerant coliform)	IS 1622:1981 (Reaffirmed 2003) Guide Manual Water & Waste Water Analysis- CPCB Manual Ch-3	1-542 MPN / 100 ml ≥1cfu /100ml
		Faecal Streptococci	IS 5887 (Part II) : 1976 (Reaffirmed 2005) IS 15186 : 2002 ISO 7899 – 2 : 2000	≥1cfu

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	Wastewater, Sewage & Effluent Water	E. coli	IS 1622:1981 (Reaffirmed 2003)	1-542 MPN / 100 ml
		Acute Toxicity – Bioassay Method using Zebra Fish	IS 6582 (Part-2): 2001	0 to 100% (Survival) Toxicity Factor ≥ 1
IV. WATER				
1.	Packaged Drinking Water IS 14543: 2004	Aerobic Plate Count at 20-22°C at 37°C	IS:5402-2012 ISO:4833-1991	≥ 1 cfu /ml
		<i>Escherishia coli</i>	IS 5887 (Part I) : 1976 (Reaffirmed 1995) or IS 15185 : 2002 ISO 9308 – 1 : 2000	Present/Absent per 250 ml
		Faecal <i>Streptococci</i>	IS 5887 (Part II) : 1976 (Reaffirmed 2005) or IS 15186 : 2002 ISO 7899 – 2 : 2000	Present/Absent per 250 ml
		Total Coliform	IS 5401 (Part I) : 2002 or IS 15185 : 2002 ISO 9308 – 1 : 2000	Present/Absent per 250 ml
		Yeast and Mould	IS 5403 : 1999 (Reaffirmed 2005)	Present/Absent per 250 ml
		<i>Salmonella</i>	IS 15187 : 2002 ISO 6340 : 1995	Present/Absent per 250 ml
		<i>Shigella</i>	IS 5887 (Part 7) : 1999 (Reaffirmed 2005)	Present/Absent per 250 ml

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Discipline	Biological Testing	Issue Date	25.07.2013
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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
	Packaged Drinking Water IS 14543: 2004	<i>Staphylococcus aureus</i>	IS 5887 (Part II):1976 Reaffirmed 2005	Present/Absent per 250 ml
		Sulphite reducing anaerobes	IS 13428 (Annex C) : 2005	Present/Absent per 50 ml
		<i>Pseudomonas aeruginosa</i>	IS 13428 (Annex D) : 2005	Present/Absent per 250 ml
		<i>V. parahaemolyticus</i> <i>V. Cholerae</i>	IS 5887 (Part V) : 1976 (Reaffirmed 2005)	Present/Absent per 250 ml
2.	Packaged Natural Mineral Water IS 13428:2005	<i>Escherishia coli</i>	IS 5887 (Part I) : 1976 (Reaffirmed 1995) IS 15185 : 2002 ISO 9308 – 1 : 2000	Present/Absent per 250 ml
		Faecal <i>Streptococci</i>	IS 5887 (Part II) : 1976 (Reaffirmed 2005) IS 15186 : 2002 ISO 7899 – 2 : 2000	Present/Absent per 250 ml
		Total Coliform	IS 5401 (Part I) : 2002 IS 15185 : 2002 ISO 9308 – 1 : 2000	Present/Absent per 250 ml
		Yeast and Mould	IS 5403 : 1999 (Reaffirmed 2005)	Present/Absent per 250 ml
		<i>Salmonella</i>	IS 15187 : 2002 ISO 6340 : 1995	Present/Absent per 250 ml
		<i>Shigella</i>	IS 5887 (Part 7) : 1999 (Reaffirmed 2005)	Present/Absent per 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
	Packaged Natural Mineral Water IS 13428:2005	<i>Staphylococcus aureus</i>	IS 5887(Part II) Reaffirmed 2005	Present/Absent per 250 ml
		Sulphite reducing anaerobes	IS 13428 (Annex C) : 2005	Present/Absent per 50 ml
		<i>Pseudomonas aeruginosa</i>	IS 13428 (Annex D) : 2005	Present/Absent per 250 ml
		<i>V. parahaemolyticus</i> <i>V. Cholerae</i>	IS 5887 (Part V) : 1976 (Reaffirmed 2005)	Present/Absent per 250 ml
3.	Water for Processed Food Industry IS 4251:1967 (Reaffirmed 1992) Edition 1.2 (2004-08)	Standard Plate Count	IS 1622: 1981(Reaffirmed 2003)	≥1cfu /ml
		Total Coliform	IS 1622: 1981(Reaffirmed 2003)	1-542 MPN / 100 ml
		Proteolytic and Lipolytic organisms combined count	IS 4251: 1967 (Reaffirmed 1992)	≥ 1 cfu /ml
4.	Water for Swimming Pools IS 3328:1993 (Reaffirmed 2003)	Standard Plate Count	IS 3328:1993(Reaffirmed 2003) Annex A	≥1cfu /ml
		Total Coliform	IS 1622: 1981(Reaffirmed 2003) Ed. 2.4 (2003-05)	1-542 MPN / 100 ml
5.	Drinking water IS 10500:2012	<i>Escherishia coli</i>	IS 1622 : 1981 (Reaffirmed 2003) Ed. 2.4 (2003-05)	Present/Absent per100ml
		Total Coliform	IS 1622 : 1981 (Reaffirmed 2003) Ed. 2.4 (2003-05)	Present/Absent per100ml

-X-X-X-X-X-X-X-X-X-X-X-X-

***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**.