

<b>Laboratory</b>	<b>SMS Labs Services Private Limited, 39/6, Thiruvallur High Road, Puduchathram Post, Thirumazhisai Via, Poonamille Taluk, Chennai, Tamil Nadu</b>		
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>I. FOOD &amp; AGRICULTURAL PRODUCTS</b>				
<b>1.</b>	<b>Milk and milk Products: (Skimmed Milk Powder, Cheese, Curd, Flavoured Milk, Milk, Butter, Dairy Whitener, Infant Milk Substitutes)</b>	Total Plate Count	IS 5402: 2012 ISO 4833: 1991  USFDA (BAM) Chapter 3, 2001	≥10 cfu/g; ≥1 cfu/ml  ≥10 cfu/g; ≥1 cfu/ml
		Coliform count	Enumeration Method: IS 5401 (Part 1): 2012/ ISO 4832: 2006  Enumeration Method: USFDA (BAM) Chapter 4, 2002	≥10 cfu/g  ≥1 cfu/ml; ≥10 cfu/g
			MPN method: IS 5401 (Part 2): 2012/ ISO 4831: 2006	(0.3 MPN to 110 MPN)/g or ml; Qualitative (Present/Absent)/g or ml
			MPN method: USFDA (BAM) Chapter 4, 2002	(0.3 MPN to 110 MPN)/g or ml
		E.coli	Enumeration Method: IS 5887 (Part 1): 1976 (RA 2009)  Enumeration Method: USFDA (BAM) Chapter 4, 2002	≥10 cfu/g; ≥1 cfu/ml  ≥10 cfu/g; ≥1 cfu/ml
			MPN method: IS 5887 (Part 1): 1976 (RA 2009)	(0.3 MPN to 110 MPN)/g or ml
			MPN method: USFDA (BAM) Chapter 4, 2002	(3 MPN to 1100 MPN)/g or ml

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	<b>Milk and milk Products: (Skimmed Milk Powder, Cheese, Curd, Flavoured Milk, Milk, Butter, Dairy Whitener, Infant Milk Substitutes)</b>	Detection method	ISO 7251: 2005	Qualitative (Present/Absent)/25g/ ml
		S.aureus:	Enumeration Method: IS 5887 (Part 2): 1976 (RA 2009)	≥10 cfu/g; ≥1 cfu/ml
			Enumeration Method: USFDA (BAM) Chapter 12, 2001	≥10 cfu/g; ≥1 cfu/ml
			MPN method USFDA (BAM) Chapter 12, 2001	3 MPN/g to 1100 MPN/g
		Salmonella spp	IS 5887 (Part 3): 1999 (RA 2009) ISO 6579: 1993	Qualitative (Present/Absent) /25g/ ml
			USFDA (BAM) Chapter 5, 2014	Qualitative (Present/Absent)/25g/ ml
		Shigella spp	IS 5887 (Part 7): 1999 (RA 2009)	Qualitative (Present/Absent)/25g / ml
			USFDA (BAM) Chapter 6, 2013	Qualitative (Present/Absent)/25g/ ml
		Yeast and Mould	IS 5403: 1999 (RA 2009)	≥10 cfu/g; ≥1 cfu/ml
			USFDA (BAM) Chapter 18, 2001	≥100 cfu/g; ≥10 cfu/ml

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2.	<b>Fruits and Vegetables (Raw, Processed, Frozen, Canned, Semi processed and Ready to Eat Foods)</b>	Total plate count	IS 5402: 2012 ISO 4833: 2003	≥10 cfu/g
			USFDA (BAM) Chapter 3, 2001	≥10 cfu/g
		Coliform count:	Enumeration Method: IS 5401 (Part 1): 2012/ ISO 4832: 2006	≥10 cfu/g
			Enumeration Method: USFDA (BAM) Chapter 4, 2002	≥10 cfu/g
			MPN method: IS 5401 (Part 2): 2012 ISO 4831: 2006	0.3 MPN/g to 110 MPN/g; Qualitative (Present/Absent)/g
			MPN method: USFDA (BAM) Chapter 4, 2002	3 MPN/g to 1100 MPN/g
		E.coli:	Enumeration Method: IS 5887 (Part 1): 1976 (RA 2009)	≥10 cfu/g
			Enumeration Method: USFDA (BAM) Chapter 4, 2002	≥10 cfu/g
			MPN method: IS 5887 (Part 1): 1976 (RA 2009)	0.3 MPN/g to 110 MPN/g
			MPN method: USFDA (BAM) Chapter 4, 2002	3 MPN/g to 1100 MPN/g

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	<b>Fruits and Vegetables (Raw, Processed, Frozen, Canned, Semi processed and Ready to Eat Foods)</b>	E.coli Detection method	ISO 7251: 2005	Qualitative (Present/Absent)/25 g
		Faecal coliforms	USFDA (BAM) Chapter 4, 2002	3 MPN/g to 1100 MPN/g
		S.aureus:	Enumeration Method: IS 5887 (Part 2): 1976 (RA 2009)	≥10 cfu/g
			Enumeration Method: USFDA (BAM) Chapter 12, 2001	≥10 cfu/g
			MPN method: USFDA (BAM) Chapter 12, 2001	3 MPN/g to 1100 MPN/g
		Salmonella spp	IS 5887 (Part 3): 1999 (RA 2009) ISO 6579: 1993	Qualitative (Present/Absent)/25 g
			USFDA (BAM) Chapter 5, 2011	Qualitative (Present/Absent)/25 g
		Shigella spp	USFDA (BAM) Chapter 6, 2013	Qualitative (Present/Absent)/25 g
		Vibrio cholerae	IS 5887 (Part 7): 1999 (RA 2009)	Qualitative (Present/Absent)/25 g
			IS 5887 (Part 5): 1976 (RA 2009)	Qualitative (Present/Absent)/25 g
			USFDA (BAM) Chapter 9, 2004	Qualitative (Present/Absent)/25 g

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	<b>Fruits and Vegetables (Raw, Processed, Frozen, Canned, Semi processed and Ready to Eat Foods)</b>	Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2009)	Qualitative (Present/Absent)/25 g
			USFDA (BAM) Chapter 9, 2004	Qualitative (Present/Absent)/50 g
		Bacillus cereus:	Enumeration method: IS 5887 (Part 6): 2012	≥10 cfu/g
			Enumeration method: USFDA (BAM) Chapter 14, 2001	≥10 cfu/g
			MPN method: USFDA (BAM) Chapter 14, 2001	3 MPN/g to 1100 MPN/g
<b>3.</b>	<b>Carbonated Beverages, Fruit Drinks</b>	Yeast and Mould	IS 5403: 1999 (RA 2009)	≥10 cfu/g
			USFDA (BAM) Chapter 18, 2001	≥100 cfu/g
		Total plate count	IS 5402: 2012/ ISO 4833: 2003	≥10 cfu/g; ≥1 cfu/ml
			USFDA (BAM) Chapter 3, 2001	≥10 cfu/g; ≥1 cfu/ml

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	<b>Carbonated Beverages, Fruit Drinks</b>	Coliform count:	Enumeration Method: IS 5401 (Part 1): 2012 ISO 4832: 2006	≥10 cfu/g; ≥1 cfu/ml
			Enumeration Method: USFDA (BAM) Chapter 4, 2002	≥10 cfu/g; ≥1 cfu/ml
			MPN method: IS 5401 (Part 1): 2012 ISO 4832: 2006	0.3 MPN/g to 110 MPN/g Qualitative (Present/Absent)/g
			MPN method: USFDA (BAM) Chapter 4, 2002	3 MPN/g to 1100 MPN/g
		Yeast and Mould	IS 5403: 1999 (RA 2009)	≥10 cfu/g; ≥1 cfu/ml
			USFDA (BAM) Chapter 18, 2001	≥100 cfu/g; ≥10 cfu/ml
<b>4.</b>	<b>Meat Products and Sea foods Shrimp / Prawn / Fish / Chicken / Mutton / Pork / Beef (Raw and Frozen Cooked)</b>	Total plate count	IS 5402: 2012 ISO 4833: 2003	≥10 cfu/g
			USFDA (BAM) Chapter 3, 2001	≥10 cfu/g
		Coliforms	Enumeration Method: IS 5401 (Part 1): 2012 ISO 4832: 2006	≥10 cfu/g
			Enumeration Method: USFDA (BAM) Chapter 4, 2002	≥10 cfu/g
			MPN method : IS 5401 (Part 2): 2012/ ISO 4831: 2006	0.3 MPN/g to 110 MPN/g Qualitative (Present/Absent)/g
			MPN method : USFDA (BAM) Chapter 4, 2002	3 MPN/g to 1100 MPN/g

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	<b>Meat Products and Sea foods Shrimp / Prawn / Fish / Chicken / Mutton / Pork / Beef (Raw and Frozen Cooked)</b>	E.coli	Enumeration: IS 5887 (Part 1): 1976 (RA 2009)	≥10 cfu/g
			Enumeration: USFDA (BAM) Chapter 4, 2002	≥10 cfu/g
			MPN method (Thermo tolerant Coliforms): IS 5887 (Part 1): 1976 (RA 2009)	0.3 MPN/g to 110 MPN/g
		E.coli Detection method	ISO 7251: 2005	Qualitative (Present/Absent)/25 g
		Faecal coliforms	USFDA (BAM) Chapter 4, 2002	3 MPN/g to 1100 MPN/g
		S.aureus	Enumeration Method : IS 5887 (Part 2): 1976 (RA 2009)	≥10 cfu/g
			Enumeration Method : USFDA (BAM) Chapter 12, 2001	≥10 cfu/g
			MPN method: USFDA (BAM) Chapter 12, 2001	3 MPN/g to 1100 MPN/g
		Salmonella spp	IS 5887 (Part 3): 1999 (RA 2009) ISO 6579: 1993	Qualitative (Present/Absent)/25 g
			USFDA (BAM) Chapter 5, 2014	Qualitative (Present/Absent)/25 g

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	<b>Meat Products and Sea foods Shrimp / Prawn / Fish / Chicken / Mutton / Pork / Beef (Raw and Frozen Cooked)</b>	Shigella spp	USFDA (BAM) Chapter 6, 2013	Qualitative (Present/Absent)/25 g
			IS 5887 (Part 7): 1999 (RA 2009)	Qualitative (Present/Absent)/25 g
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2009)	Qualitative (Present/Absent)/25 g
			USFDA (BAM) Chapter 9, 2004	Qualitative (Present/Absent)/25 g
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2009)	Qualitative (Present/Absent)/25 g
			USFDA (BAM) Chapter 9, 2004	Qualitative (Present/Absent)/50 g
		Bacillus cereus:	Enumeration method: USFDA (BAM) Chapter 14, 2001	≥10 cfu/g
			Enumeration method: IS 5887 (Part 6): 2012	≥10 cfu/g
			MPN method: USFDA (BAM) Chapter 14, 2001	3 MPN/g to 1100 MPN/g
		Clostridium perfringens	USFDA (BAM) Chapter 16, 2001	≥10 cfu/g
			IS 5887 (Part 4): 1999 (RA 2009)	≥10 cfu/g



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<b>5.</b>	<b>Meat Products and Sea foods Shrimp / Prawn / Fish / Chicken / Mutton / Pork / Beef (Raw and Frozen Cooked)</b>	L.monocytogenes	USFDA (BAM) Chapter 10, 2013	Qualitative (Present/Absent)/25 g
		F.streptococci	IS 5887-2: 1976 (RA 2009)	≥10 cfu/g
	<b>Spices and Condiments</b>	Total plate count	IS 5402: 2012 ISO 4833: 2003	≥10 cfu/g
			USFDA (BAM) Chapter 3, 2001	≥10 cfu/g
		Coliform count:	Enumeration Method: IS 5401 (Part 1): 2012 ISO 4832: 2006	≥10 cfu/g
			Enumeration Method: USFDA (BAM) Chapter 4, 2002	≥10 cfu/g
			MPN method: IS 5401 (Part 2): 2012/ ISO 4831: 2006	0.3 MPN/g to 110 MPN/g Qualitative (Present/Absent)/g
			MPN method: USFDA (BAM) Chapter 4, 2002	3 MPN/g to 1100 MPN/g
		E.coli:	Enumeration Method: IS 5887 (Part 1): 1976 (RA 2009)	≥10 cfu/g
			Enumeration Method: USFDA (BAM) Chapter 4, 2002	≥10 cfu/g
			MPN method: IS 5887 (Part 1): 1976 (RA 2009)	0.3 MPN/g to 110 MPN/g

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	<b>Spices and Condiments</b>	E.coli Detection method	ISO 7251: 2005	Qualitative (Present/Absent)/25 g
		Faecal coliforms	USFDA (BAM) Chapter 4, 2002	3 MPN/g to 1100 MPN/g
		S.aureus:	Enumeration Method: IS 5887 (Part 2): 1976 (RA 2009)	≥10 cfu/g
			Enumeration Method: USFDA (BAM) Chapter 12, 2001	≥10 cfu/g
			MPN method: USFDA (BAM): 2001 Chapter 12	3 MPN/g to 1100 MPN/g
		L.monocytogenes	USFDA (BAM) Chapter 10 2011	Qualitative (Present/Absent)/25 g
		Salmonella spp	IS 5887 (Part 3): 1999 (RA 2009) ISO 6579: 1993	Qualitative (Present/Absent)/25 g
			USFDA (BAM) Chapter 5, 2014	Qualitative (Present/Absent)/25 g
		Shigella spp	USFDA (BAM) Chapter 6, 2013	Qualitative (Present/Absent)/25 g
		Vibrio cholerae	IS 5887 (Part 7): 1999 (RA 2009)	Qualitative (Present/Absent)/25 g
			IS 5887 (Part 5): 1976 (RA 2009)	Qualitative (Present/Absent)/25 g
			USFDA (BAM) Chapter 9, 2004	Qualitative (Present/Absent)/25 g

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<b>6.</b>	<b>Spices and Condiments</b>	Bacillus cereus:	Enumeration method: USFDA (BAM) Chapter 14, 2001	≥10 cfu/g
			Enumeration method: IS 5887 (Part 6): 2012	≥10 cfu/g
			MPN method: USFDA (BAM) Chapter 14, 2001	3 MPN/g to 1100 MPN/g
		Yeast and Mould	IS 5403: 1999 (RA 2009)	≥10 cfu/g
			USFDA (BAM) Chapter 18, 2001	≥100 cfu/g
	<b>Nut and Nut Products</b>	Total plate count	IS 5402: 2012 ISO 4833: 2003	≥10 cfu/g
			USFDA (BAM) Chapter 3, 2001	≥10 cfu/g
		Coliform:	Enumeration Method: IS 5401 (Part 1): 2012 ISO 4832: 2006	≥10 cfu/g
			Enumeration Method: USFDA (BAM) Chapter 4, 2002	≥10 cfu/g
			MPN method: IS 5401 (Part 2): 2012 ISO 4831: 2006	0.3 MPN/g to 110 MPN/g Qualitative (Present/Absent)/g
			MPN method: USFDA (BAM) Chapter 4, 2002	3 MPN/g to 1100 MPN/g

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	<b>Nut and Nut Products</b>	E.coli:	Enumeration Method: IS 5887 (Part 1): 1976 (RA 2009)	≥10 cfu/g
			Enumeration Method: USFDA (BAM) Chapter 4, 2002	≥10 cfu/g
			MPN method: IS 5887 (Part 1): 1976 (RA 2009)	0.3 MPN/g to 110 MPN/g
			MPN method: USFDA (BAM) Chapter 4, 2002	3 MPN/g to 1100 MPN/g
		E.coli Detection method	ISO 7251: 2005	Qualitative (Present/Absent)/25 g
		Faecal coliforms	USFDA (BAM) Chapter 4, 2002	3 MPN/g to 1100 MPN/g
		S.aureus:	Enumeration Method: IS 5887 (Part 2): 1976 (RA 2009)	≥10 cfu/g
			Enumeration Method: USFDA (BAM) Chapter 12, 2001	≥10 cfu/g
			MPN method: USFDA (BAM) Chapter 12, 2001	3 MPN/g to 1100 MPN/g
		Salmonella spp	IS 5887 (Part 3): 1999 (RA 2009) ISO 6579: 1993	Qualitative (Present/Absent)/25 g
			USFDA (BAM) Chapter 5, 2014	Qualitative (Present/Absent)/25 g

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	<b>Nut and Nut Products</b>	Shigella spp	USFDA (BAM) Chapter 6, 2001	Qualitative (Present/Absent)/25 g
			IS 5887 (Part 7): 1999 (RA 2009)	Qualitative (Present/Absent)/25 g
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2009)	Qualitative (Present/Absent)/25 g
			USFDA (BAM) Chapter 9, 2004	Qualitative (Present/Absent)/25 g
		Bacillus cereus	Enumeration method: USFDA (BAM) Chapter 14, 2001	≥10 cfu/g
			Enumeration method: IS 5887 (Part 6): 2012	≥10 cfu/g
			MPN method: USFDA (BAM) Chapter 14, 2001	3 MPN/g to 1100 MPN/g
		Yeast and Mould	IS 5403: 1999 (RA 2009)	≥10 cfu/g
			USFDA (BAM) Chapter 18, 2001	≥100 cfu/g
		L.monocytogenes	USFDA (BAM) Chapter 10, 2013	Qualitative (Present/Absent)/25 g
<b>7.</b>	<b>Egg and Egg Products</b>	Total plate count	IS 5402: 2012/ISO 4833-2003	≥10 cfu/g
			USFDA (BAM) Chapter 3	≥10 cfu/g

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<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Egg and Egg Products</b>	Coliform count:	Enumeration Method: IS 5401 (Part 1): 2012 ISO 4832: 2006	≥10 cfu/g
			Enumeration Method: USFDA (BAM) Chapter 4, 2002	≥10 cfu/g
			MPN method: IS 5401 (Part 2): 2012/ ISO 4831: 2006	0.3 MPN/g to 110 MPN/g Qualitative (Present/Absent)/g
			MPN method: USFDA (BAM) Chapter 4, 2002	3 MPN/g to 1100 MPN/g
		E.coli:	IS 5887 (Part 1): 1976(RA 2009)	≥10 cfu/g
			Enumeration method USFDA (BAM) Chapter 4, 2002	≥10 cfu/g
			IS 5887 (Part 1): 1976 (RA 2009)	0.3 MPN/g to 110 MPN/g
			MPN method USFDA (BAM) Chapter 4, 2002	3 MPN/g to 1100 MPN/g
		E.coli Detection method	ISO 7251: 2005	Qualitative (Present/Absent)/25 g
		Faecal coliforms	USFDA (BAM) Chapter 4, 2002	3 MPN/g to 1100 MPN/g

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<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Egg and Egg Products</b>	S.aureus:	Enumeration Method: IS 5887 (Part 2): 1976 (RA 2009)	≥10 cfu/g
			Enumeration Method: USFDA (BAM) Chapter 12, 2001	≥10 cfu/g
			MPN method: USFDA (BAM) Chapter 12, 2001	3 MPN/g to 1100 MPN/g
		Salmonella spp	IS 5887 (Part 3): 1999 (RA 2009) ISO 6579: 1993	Qualitative (Present/Absent)/25 g
			USFDA (BAM) Chapter 5, 2014	Qualitative (Present/Absent)/25 g
		Shigella spp	USFDA (BAM) Chapter 6, 2001	Qualitative (Present/Absent)/25 g
			IS 5887 (Part 7): 1999 (RA 2009)	Qualitative (Present/Absent)/25 g
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2009)	Qualitative (Present/Absent)/25 g
			USFDA (BAM) Chapter 9, 2004	Qualitative (Present/Absent)/25 g

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<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>8.</b>	<b>Egg and Egg Products</b>	Bacillus cereus:	Enumeration method: USFDA (BAM) Chapter 14, 2001	≥10 cfu/g
			Enumeration method: IS 5887 (Part 6): 2012	≥10 cfu/g
			MPN method: USFDA (BAM) Chapter 14, 2001	3 MPN/g to 1100 MPN/g
		Yeast and Mould	IS 5403: 1999 (RA 2009)	≥10 cfu/g
			USFDA (BAM) Chapter 18, 2001	≥100 cfu/g
		L.monocytogenes	USFDA (BAM) Chapter 10, 2013	Qualitative (Present/Absent)/25 g
	<b>Onion Powder / Dried Ginger Powder / Garlic Powder</b>	Total Plate Count	IS 5402: 2012 ISO 4833: 2003	≥10 cfu/g
			USFDA (BAM) Chapter 3, 2001.	≥10 cfu/g
		Salmonella spp	IS 5887 (Part 3): 1999 (RA 2009) ISO 6579: 1993  USFDA (BAM) Chapter 5, 2014	Qualitative (Present/Absent)/25 g  Qualitative (Present/Absent)/25 g



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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>II.</b>	<b>WATER</b>			
<b>1.</b>	<b>Water for Swimming Pool</b>	Standard Plate Count	IS 1622: 1981 (RA 2009)	≥1 cfu/ml
		Coliforms MPN method:	IS 1622: 1981 (RA 2009)	(2 MPN to 1600 MPN)/ 100 ml
		Coliforms MF Method	IS 1622: 1981 (RA 2009)	Qualitative (Present/Absent)/100 ml
<b>2.</b>	<b>Drinking Water</b>	E.coli or Thermotolerant Coliforms	IS 15185: 2002 (RA 2009)	Qualitative (Present/Absent)/100 ml
		Coliforms	IS 1622: 1981 (RA 2009)	Qualitative (Present/Absent)/100 ml
<b>3.</b>	<b>Water (Raw water, Borewell Water, Treated water, RO Water)</b>	Coliforms-MF Method	IS 1622: 1981 (RA 2009)	Qualitative (Present/Absent)/100 ml
		Coliforms MPN method:	IS 1622: 1981 (RA 2009)	(2 MPN to 1600 MPN)/ 100 ml
		Coliforms	APHA (22 <sup>nd</sup> Edition) 9221- B	(1.8 MPN to 1600 MPN)/ 100 ml
		Faecal Coliform	APHA (22 <sup>nd</sup> Edition) 9221 –E	(1.8 MPN to 1600 MPN)/ 100 ml
		Faecal coliforms Membrane filtration	IS 1622: 1981 (RA 2009)	Qualitative (Present/Absent)/100 ml
		Faecal coliforms- MPN Method	IS 1622: 1981 (RA 2009)	(2 MPN to 1600 MPN)/ 100 ml

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<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Water (Raw water, Borewell Water, Treated water, RO Water)</b>	E.coli-MPN method		(2 MPN to 1600 MPN)/100 ml
			APHA (22 <sup>nd</sup> Edition) 9221 F	(1.8 MPN to 1600 MPN)/100 ml
		E.coli Membrane filtration Method	IS 15185: 2002 (RA 2009)	Qualitative (Present/Absent)/100 ml
<b>4.</b>	<b>Packaged Drinking Water (Other than Packaged Mineral Water) Packaged Natural Mineral Water</b>	Total viable colony count@ 37°C for 24 hrs.	IS 5402: 2012	≥ 1 cfu/ml
		Total viable colony count at 22°C for 72 hrs.	IS 5402: 2012	≥1 cfu/ml
		Coliforms	IS 15185: 2002 (RA 2009)	Qualitative (Present/Absent)/250 ml
		E.coli	IS 15185: 2002 (RA 2009)	Qualitative (Present/Absent)/250 ml
		Faecal streptococci	IS 15186: 2002 (RA 2009)	Qualitative (Present/Absent)/250 ml
		S.aureus	IS 5887 (Part 2): 1976 (RA 2009)	Qualitative (Present/Absent)/250 ml
		Shigella spp	IS 5887 (Part 7): 1999 (RA 2009)	Qualitative (Present/Absent)/250 ml
		Salmonella spp	IS 15187: 2002 (RA 2009)	Qualitative (Present/Absent)/250 ml
		Pseudomonas aeruginosa	IS 13428: 2005 (RA 2009) Annexure D	Qualitative (Present/Absent)/250 ml

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<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>07.09.2015</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Packaged Drinking Water. (Other than Packaged Mineral Water) Packaged Natural Mineral Water</b>	Sulphite reducing anaerobes	IS 13428: 2005 (RA 2009) Annexure C	Qualitative (Present/Absent)/50ml
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2009)	Qualitative (Present/Absent)/250 ml
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2009)	Qualitative (Present/Absent)/250 ml
		Yeast and Mould	IS 5403: 1999 (RA 2009)	Qualitative (Present/Absent)/250 ml
<b>5.</b>	<b>Water for Processed Food Industry</b>	Standard Plate Count	IS 1622: 1981 (RA 2009)	≥1 cfu/ml
		Coliforms	IS 5401 (Part 1): 2012	≥1 cfu/ml
<b>6.</b>	<b>Water for Human Consumption</b>	Colony count at 37 °C for 48 hrs	ISO 6222: 1999	≥1 cfu/ml
		Colony count at 22 °C for 72 hrs	ISO 6222: 1999	≥1 cfu/ml
		E.coli	ISO 9308 (Part 1): 2000	Qualitative (Present/Absent)/100 ml
		Enterococci	ISO 7899 (Part 2): 2000	Qualitative (Present/Absent)/250 ml
		Pseudomonas aeruginosa	BS EN 12780: 2002	Qualitative (Present/Absent)/250 ml
		Clostridium Perfringens	EN 98/83 S.I. No. 278 of 2007 Part 3 Page 28 - 29	Qualitative (Present/Absent)/100 ml

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	<b>Water for Human Consumption</b>	Coliforms	ISO 9308 (Part 1): 2000	Qualitative (Present/Absent)/100 ml
<b>III. POLLUTION &amp; ENVIRONMENT</b>				
<b>1.</b>	<b>Bioburden Testing of Controlled &amp; Classified Area (Air &amp; Surfaces)</b>	Total plate count	SMSLA/MB/SOP/095/2012 by Settle Plate Method	≥1 cfu/plate
		Yeast and Mould		≥1 cfu/plate
		Coliforms		≥1 cfu/plate
		Total plate count	SMSLA/MB/SOP/095/2012 by Surface Swab Method	≥1 cfu /cm <sup>2</sup>
		Yeast and Mould		≥1 cfu /cm <sup>2</sup>
		Coliforms		≥1 cfu /cm <sup>2</sup>

**-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**.