

Laboratory	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	09.04.2014
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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
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I. FOOD AND AGRICULTURAL PRODUCTS

1.	Tea, Coffee and Cocoa Product	Total Plate Count	IS 5402:2012	≥ 10 cfu/gm
			Chapter 3, FDA- BAM, 2001 Chapter 7-Compendium of Methods for the microbiological examination of foods, 4 th edition, APHA 2001	≥ 10 cfu/gm
			ISO 4833-1:2013	≥ 10 cfu/gm
		Yeast & Mold count	IS 5403:1999, (RA 2009)	≥ 10 cfu/gm
			FDA-BAM-2001 (Chapter18) Chapter 20 Compendium of Methods for the microbiological examination of foods, 4 th edition, APHA 2001	≥ 10 cfu/gm
			ISO 21527-2 :2008	≥ 10 cfu/gm
		E.Coli	IS 5887 (Part-1)1976, (RA 2005)	Present /Absent per gm
			FDA-BAM-2002 (Chapter 4) Chapter 8 Compendium of Methods for the microbiological examination of foods, 4 th edition, APHA 2001	≥3 MPN/g
			ISO 16649-2 : 2001	≥ 10 cfu/gm

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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
	Tea, Coffee and Cocoa Product	Enumeration of Coliforms and fecal coliforms	IS 5401 (Part 1) 2002	≥10 cfu/g, ≥3 MPN/g
			FDA-BAM-2002 (Chapter 4)	≥10 cfu/g
			Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g, ≥3 MPN/g
			ISO 4832 : 2006	≥10 cfu/g
		Staphylococcus aureus	IS 5887 (Part 2)1976, (RA 2005)	Present/Absent per 25gm
			IS 5887 (Part 8/Sec 1)2002 , (RA 2012)	≥10 cfu/g
			Chapter 39 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g, ≥3 MPN/g
		Salmonella sp.	ISO 6888-1 : 1999	≥10 cfu/g
			Chapter 5, FDA- BAM, 2011 Chapter 37 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	Present/Absent per 25gm
			IS 5887 (Part 3) 1999, (RA 2009) ISO 6579:2002	

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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
	Tea, Coffee and Cocoa Product	Shigella sp.	FDA-BAM-2001(Chapter 6) Chapter 38 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 7) 1999, (RA 2005)	Present/Absent per 25gm
		Listeria sp.	FDA-BAM-2011(Chapter 10) Chapter 36 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 14988 (Part 1) : 2002 ISO 11290-1 : 1996	Present/Absent per 25gm
		Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 2005)	Present/Absent per 25gm
	ISO 7937:2004		≥10 cfu/g	
			FDA-BAM-2001(Chapter 16) Chapter 34 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g, Present / Absent per 2 g
			IS 5887 (Part 4) 1999, (RA 2005)	≥10 cfu/g

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	Tea, Coffee and Cocoa Product	Bacillus cereus	FDA-BAM-2001(Chapter14) Chapter 32 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥100 cfu/g, ≥3 MPN/g
			IS 5887 (Part 6) 1999, (RA 2005)	≥100 cfu/g
			ISO 7932:2004	≥100 cfu/g
		Vibrio cholerae and V.parahaemolyticus	FDA-BAM-2004(Chapter 9) Chapter 40 Compendium of Methods for the microbiological examination of foods, 4 th edition, APHA 2001 IS 5887 (Part 5) 1976, (RA 2005)	Present/ Absent per 25g / ≥3 MPN/g
		Detection & Enumeration of faecal streptococci	IS 5887(2)1976, (RA 2005)	Present/Absent per 25 gm
		Enterobacteriaceae	CH-8 Compendium of Methods for the microbiological examination of foods, 4 th edition, APHA 2001	≥10 cfu/g
	Lactic acid bacteria	ISO 15214:1998	≥10 cfu/g	

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2.	Milk & dairy products Milk and Dairy Products (Condensed milk/ Partly/ Skimmed condensed milk, Cream sterilized, Dairy Whitener, Milk Powder, Dahi, Cheese/ Processed spared, Ice cream/Ice cream dry mix, Frozen desert, Ice candy, Malted milk food, Milk powder, Milk Lolly, Partly skimmed/ whey powder, Skimmed Milk powder (standard grade), Flavored/Cream Milk, Skimmed Milk powder(extra grade), Pasteurized Milk, Milk cereal base weaning base,	Total Plate Count	IS 5402:2012	≥10 cfu/g
Chapter 3, FDA- BAM, 2001			≥10 cfu/g	
Chapter 7-Compendium of Methods for the microbiological examination of foods, 4 th edition, APHA 2001				
FDA-BAM-2001 (Chapter18)			≥1 cfu/ml ≥10 cfu/g/ml	
Chapter 20 Compendium of Methods for the microbiological examination of foods,chapter 18, 4 th edition, APHA 2001			≥10 cfu/g	
		E.Coli	ISO 21527-1 :2008	≥10 cfu/g
ISO 21527-2 :2008			≥10 cfu/g	
IS 5887 (Part-1)1976, (RA 2005)			Present /Absent per gm	
FDA-BAM-2001 (Chapter 4)			≥3 MPN/g	
Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001				

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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
	Processed- Cereal Based Complementary Foods , Sweetened Ultra High Temperature (UHT) Treated Condensed Milk, Paneer/ Chhana, Sweetened Condensed Milk, Casein edible, Sterilized Milk, Milk powder whole, Butter milk, Ghee, Khoya, Burfi, Butter, Kulfi, Lassi, Yoghurt, Chakka, Shrikhand, Infant Milk Substitute, Butter Fat/ Butter oil)	Total Coliform counts & faecal Coliform	FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g, ≥3 MPN/g
			IS 5401 (Part 1) 2002	≥10 cfu/g Present/Absent per 0.1g
			ISO 4832 : 2006	≥10 cfu/g
		Staphylococcus aureus	IS 5887 (Part 2)1976, (RA 2005)	Present/Absent per 0.1g/1g
			Chapter 39 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g, ≥3 MPN/g
			FDA-BAM-2001(Chapter 12)	
			IS 5887 (Part 8/sec 1)2002 ,	≥10 cfu/g
			ISO 6888-1 : 1999	≥10 cfu/g
		Salmonella sp.	FDA-BAM-2001(Chapter 5) Chapter 37 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	Present/ Absent per 25g
			IS 5887 (Part 3) 1999, (RA 2005) ISO 6579:2002	

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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 sp.	FDA-BAM-2001(Chapter 6) Chapter 38 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 7) 1999, (RA 2005)	Present/Absent/25gm
		Listeria sp.	FDA-BAM-2011(Chapter 10) Chapter 36 Compendium of Methods for the microbiological examination of foods, 4 th edition, APHA 2001 IS 14988 (Part 1) : 2002 ISO 11290-1:1996	Present/Absent per g Present/Absent per g
		Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 2009) FDA-BAM-2001(Chapter 16) Chapter 34 APHA 4th Edition ISO 7937:2004	Present/Absent/25gm/ml ≥ 10 cfu/g, Present / Absent per 2 g ≥ 10 cfu/g, Present / Absent per 2 g

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		Bacillus cereus	FDA-BAM-2001(Chapter14) Chapter 32 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥100 cfu/g, ≥3 MPN/g
			IS 5887 (Part 6) 1999 RA 2012	≥1 cfu/ml, ≥10 cfu/g
			ISO 7932:2004	≥100 cfu/g
		Vibrio cholerae and V.parahaemolyticus	FDA-BAM-2004(Chapter 9) Chapter 40 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 5) 1976, (RA 2005)	Present/ Absent per 25g / ≥3 MPN/g
		Feacal Streptococci	IS 5887(2)1976, (RA 2005)	Present/Absent per 25 gm
			IS 5887(2)1976, (RA 2005)	0.3 to 110 MPN/gm
		Enterobacteriaceae	ISO 21528-2:2004	≥10 cfu/g
			CH-8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g

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		Anaerobic spore count	CH-23 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	Present /Absent in 1 gm
		Lactic acid bacteria	ISO 15214:1998	≥10 cfu/g
3.	Alcoholic Drinks & Beverages	Total Plate Count	IS 5402:2012	≥1 cfu/ml
			Chapter 3, FDA- BAM, 2001 Chapter 7-Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥1 cfu/ml
		Yeast & Mold count	IS 5403:1999, (RA 2009)	≥1 cfu/ml
			FDA-BAM-2001 (Chapter18) Chapter 20 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥1 cfu/ml
		E.Coli	IS 5887 (Part-1)1976, (RA 2005)	Present /Absent per 25 ml
			FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥3 MPN/ml

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	Alcoholic Drinks & Beverages	Enumeration of coliforms and fecal coliforms	FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥ 1 cfu/ml, ≥ 3 MPN/ml
			IS 5401 (Part 1) 2012,	≥ 1 cfu/ml
		Staphylococcus aureus	IS 5401 (Part-2) : 2012	Present / Absent per 100 ml
			IS 5887 (Part 2)1976, (RA 2005)	Present/Absent/25 ml
			IS 5887 (Part 8/sec 1)2002 ,	≥ 1 cfu/ml
			FDA-BAM-2001(Chapter 12) Chapter 39 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥ 1 cfu/ml
		Salmonella sp.	FDA-BAM-2011(Chapter 5) Chapter 37 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 3) 1999, (RA 2009)	Present/Absent/25 ml

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	Alcoholic Drinks & Beverages	Shigella sp.	FDA-BAM-2001(Chapter 6) Chapter 38 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 7) 1999, (RA 2009)	Present/Absent/25ml
		Listeria sp.	FDA-BAM-2011(Chapter 10) Chapter 36 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 14988 (Part 1) : 2002	Present/Absent/25 ml
		Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 2005)	Present/Absent/25 ml
			FDA-BAM-2001(Chapter 16) Chapter 34 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥1 cfu/ml, Present / Absent per 2 ml
		Bacillus cereus	FDA-BAM-2001(Chapter14) Chapter 32 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 6) 1999, (RA 2005)	≥100 cfu/ml ≥100 cfu/ml

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	Alcoholic Drinks & Beverages	Bacillus cereus	FDA-BAM-2001(Chapter14) Chapter 32 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥3 MPN/ml
		Vibrio cholerae and V.parahaemolyticus	FDA-BAM-2004(Chapter 9) Chapter 40 APHA 4 th Edition 2001 IS 5887 (Part 5) 1976, (RA 2005)	Present/Absent/25 ml
		Detection of Faecal Streptococci	IS 5887 (Part 2)1976, (RA 2005)	Present/Absent per 25 ml
		Enumeration of Faecal Streptococci	IS 5887 (Part 2)1976, (RA 2005)	0.3 to 110 MPN/ml
		Enterobacteriaceae	ISO 21528-2 :2004 CH-8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥1 cfu/ml
4.	Animal Feed / Pet Foods	Total Plate Count	IS 5402:2012 Chapter 3, FDA- BAM, 2001 Chapter 7-Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g ≥10 cfu/g
		Yeast & Mold count	IS 5403:1999 (2009)	≥10 cfu/g

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	Animal Feed / Pet Foods		FDA-BAM-2001 (Chapter18) Chapter 20 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g
		E.Coli	IS 5887 (Part-1)1976, (RA 2009)	Present /Absent per gm
			FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥3 MPN/g
		Total Coliform counts & faecal Coliform	IS 5401 (Part1):2002,	≥10 cfu/g
			FDA-BAM-2001 (Chapter 4)	≥10 cfu/g, ≥3 MPN/g
			Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g, ≥3 MPN/g
		Staphylococcus aureus	IS 5887 (Part 2)1976, (RA 2005)	Present/Absent/25gm
			IS 5887 (Part 8/sec 1)2002 (RA 2012)	≥10 cfu/g,

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	Animal Feed / Pet Foods	Staphylococcus aureus	FDA-BAM-2001(Chapter 12) Chapter 39 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g, ≥3 MPN/g
		Faecal Streptococci	IS 5887(2)1976, (RA 2005)	Present/Absent per 25 gm
			IS 5887(2)1976, (RA 2005)	0.3 to 110 MPN/gm
		Enterobacteriaceae	ISO 21528-2:2004	≥10 cfu/g
			CH-8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g
		Detection of Salmonella sp.	FDA-BAM-2001(Chapter 5) Chapter 37 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 3) 1999, (RA 2009)	Present/Absent/25gm
	Detection of Shigella sp.	FDA-BAM-2001(Chapter 6) Chapter 38 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 7) 1999, (RA 2005)	Present/Absent/25gm	

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	Animal Feed / Pet Foods	Listeria sp.	FDA-BAM-2011(Chapter 10) CH-36 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 2001 IS 14988 (Part 1) : 2002	Present/Absent/25gm
		Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 2005)	Present/Absent/25gm
			FDA-BAM-2001(Chapter 16)	≥10 cfu/g
			Chapter 34 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g, Present / Absent per 2 g
		IS 5887 (Part 4) 1999, (RA 2005)	≥10 cfu/g,	
	Enumeration of Bacillus cereus	FDA-BAM-2001(Chapter14) Chapter 32 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	IS 5887 (Part 6) 1999, (RA 2005)	≥100 cfu/g, ≥3 MPN/g ≥100 cfu/g
	Vibrio cholera and V.parahaemolyticus	FDA-BAM-2004(Chapter 9) Chapter 40 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 5) 1976, (RA 2005)		Present/ Absent per 25 g / ≥3 MPN/g

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5.	Bakery & Confectionary	Total Plate Count	IS 5402:2012	≥10 cfu/g
			Chapter 3, FDA- BAM, 2001 Chapter 7-Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g
			ISO 4833-1:2013	≥10 cfu/g
		Yeast & Mold count	IS 5403:1999, (RA 2009)S	≥10 cfu/g
			FDA-BAM-2001 (Chapter18) Chapter 20 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g
			ISO 21527-1 :2008 ISO 21527-2 :2008	≥10 cfu/g
			E.Coli	IS 5887 (Part-1)1976, (RA 2009)
		FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥3 MPN/g	
		ISO 16649-2:2001	≥10 cfu/g	

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	Bakery & Confectionary	Total Coliform counts & faecal Coliform	FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g, ≥3 MPN/g
			IS 5401 (Part 1) 2012	≥10 cfu/g
			ISO 4832:2006	≥10 cfu/g
		Staphylococcus aureus	IS 5887 (Part 2)1976, (RA 2005)	Present/Absent/25gm
			FDA-BAM-2001(Chapter 12) Chapter 39 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g, ≥3 MPN/g
			IS 5887 (Part 8/sec 1)2002 ,	≥10 cfu/g
			ISO 6888-1 : 1999	≥10 cfu/g
		Salmonella sp.	FDA-BAM-2011(Chapter 5) Chapter 37 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 3) 1999, (RA 2009) ISO 6579:2002	Present/Absent/25gm

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	Bakery & Confectionary	Shigella sp.	FDA-BAM-2001(Chapter 6) Chapter 38 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 7) 1999, (RA 2009)	Present/Absent/25gm
		Detection of Listeria sp.	FDA-BAM-2011(Chapter 10) Chapter 36 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 14988 (Part 1) : 2002 ISO 11290-1 :1996	Present/Absent/25gm
		Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 2005) FDA-BAM-2001(Chapter 16) Chapter 34 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 ISO 7937:2004	Present/Absent/25gm ≥10 cfu/g ≥10 cfu/g, Present / Absent per 2 g ≥10 cfu/g,

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	Bakery & Confectionary	Bacillus cereus	FDA-BAM-2001(Chapter14) Chapter 32 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥100 cfu/g, ≥3 MPN/g
			IS 5887 (Part 6) 1999, (RA 2005)	≥100 cfu/g,
			ISO 7932:2004	≥100 cfu/g,
		Vibrio cholerae and V.parahaemolyticus	FDA-BAM-2004(Chapter 9) Chapter 40 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 5) 1976, (RA 2005)	Present/ Absent per 25 g / ≥3 MPN/g
		Feacal Streptococci	IS 5887(2)1976, (RA 2005)	Present/Absent per 25 gm
			IS 5887(2)1976(RA 2005) ISO 21528-2:2004	0.3 – 110 MPN/gm ≥10 cfu/g
	Enterobacteriaceae	CH-8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g	
	Lactic acid bacteria	ISO 15214:1998	≥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
6.	Cereals, Pulses & Cereals Products (including Malt foods)	Total Plate Count	IS 5402:2012	≥10 cfu/g
			Chapter 3, FDA- BAM, 2001 Chapter 7-Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g
			ISO 4833-1:2013	≥10 cfu/g
		Yeast & Mold count	IS 5403:1999, (RA 2009)	≥10 cfu/g
			FDA-BAM-2001 (Chapter18) Chapter 20 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g
			ISO 21527-1:2008	≥10 cfu/g
			ISO 21527-2:2008	≥10 cfu/g
		E.Coli	FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiological examination of foods, 4 th edition, APHA 2001	≥3 MPN/g
			IS 5887 (Part-1)1976, (RA 2009)	Present / Absent /g
			ISO 16649-2:2001	≥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
	Cereals, Pulses & Cereals Products (including Malt foods)	Total Coliform counts & faecal Coliform	FDA-BAM-2002 (Chapter 4) CH-8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g, ≥3 MPN/g
			IS 5401 (Part 1) 2012	≥10 cfu/g
			ISO 4832:2006	≥10 cfu/g
		Staphylococcus aureus	IS 5887 (Part 2)1976, (RA 2009)	Present/Absent/gm
				FDA-BAM-2001(Chapter 12) Chapter 39 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001
			IS 5887 (Part 8/sec 1)2002, (RA 2012)	≥10 cfu/g
			IS 5887 (Part 2)1976, (RA 2005)	Present/Absent/gm
		Faecal Streptococci	ISO 6888-1:1999	≥10 cfu/g
			IS 5887(2)1976, (RA 2005)	Present/Absent per 25 gm
			IS 5887(2)1976, (RA 2005)	0.3 to 110 MPN/gm

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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
	Cereals, Pulses & Cereals Products (including Malt foods)	Enterobacteriaceae	CH-8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g
			ISO 21528-2:2004	≥10 cfu/g
		Detection of Salmonella sp.	FDA-BAM-2011(Chapter 5) Chapter 37 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 3) 1999, (RA 2009) ISO 6579:2002	Present/Absent/25gm
		Detection of Shigella sp.	FDA-BAM-2001(Chapter 6) Chapter 38 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 7) 1999, (RA 2009)	Present /Absent/25gm
		Detection of Listeria sp.	FDA-BAM-2011(Chapter 10) CH-36 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 14988 (Part 1) : 2002 ISO 11290-1:1996	Present/ Absent/25gm

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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
	Cereals, Pulses & Cereals Products (including Malt foods)	Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 2005)	Present/Absent/25gm
			FDA-BAM-2001(Chapter 16)	≥10 cfu/g
			Chapter 34 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g, Present / Absent per 2 g
			IS 5887 (Part 4) 1999, (RA 2005)	≥10 cfu/g,
			ISO 7937:2004	≥10 cfu/g,
		Enumeration of Bacillus cereus	FDA-BAM-2012(Chapter14)	≥100 cfu/g, ≥3 MPN/g
			Chapter 32 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥100 cfu/g, ≥3 MPN/g
			IS 5887 (Part 6) 1999, (RA 2005)	≥100 cfu/g
			ISO 7932:2004	≥100 cfu/g
		Detection of Vibrio cholerae and V.parahaemolyticus	FDA-BAM-2004(Chapter 9)	Present/ Absent per 25g / ≥3 MPN/g
	Chapter 40 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001		Present/ Absent per 25g / ≥3 MPN/g	
	IS 5887 (Part 5) 1976, (RA 2005)		Present/ Absent per 25g	
	Lactic acid bacteria		ISO 15214:1998	≥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
7.	Whole, Ground Spices & Condiments	Total Plate Count	IS 5402:2012	≥10 cfu/g
			Chapter 3, FDA- BAM, 2001	≥10 cfu/g
			Chapter 7-Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	
			ISO 4833-1:2013	≥10 cfu/g
			IS 5403:1999 (RA 2009)	≥10 cfu/g
		Yeast & Mold count	FDA-BAM-2001 (Chapter18)	≥10 cfu/g
			Chapter 20 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	
			ISO 21527-1:2008	≥10 cfu/g
			ISO 21527-2:2008	
			E.Coli	IS 5887 (Part-1)1976, (RA 2009)
FDA-BAM-2001 (Chapter 4)	≥3 MPN/g			
Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001				
		ISO 16649-2:2001	≥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
	Whole, Ground Spices & Condiments	Total Coliform counts & faecal Coliform	FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g, ≥3 MPN/g
			IS 5401 (Part 1) 2012,	≥10 cfu/g
			ISO 4832:2006	≥10 cfu/g
		Staphylococcus aureus	IS 5887 (Part 2)1976, (RA 2005)	Present /Absent/25gm
			FDA-BAM-2001(Chapter 12) Chapter 39 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g, ≥3 MPN/g
			IS 5887 (Part 8/sec 1)2002, (RA 2012)	≥10 cfu/g
			ISO 6888-1:1999	≥10 cfu/g
		Salmonella sp.	FDA-BAM-2011(Chapter 5) Chapter 37 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	Present /Absent/25gm
			IS 5887 (Part 3) 1999, (RA 2009)	
			ISO 6579:2002	

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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
	Whole, Ground Spices & Condiments	Shigella sp.	FDA-BAM-2001(Chapter 6) Chapter 38 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 7) 1999, (RA 2005)	Present /Absent/25gm
		Listeria sp.	FDA-BAM-2011(Chapter 10) CH-36 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 14988 (Part 1) : 2002 ISO 11290-1:1996	Present /Absent/25gm
		Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 2005) FDA-BAM-2001(Chapter 16) Chapter 34 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 4) 1999, (RA 2005) ISO 7937:2004	Present/ Absent/25gm ≥10 cfu/g, ≥10 cfu/g, Present / Absent per 2 g ≥10 cfu/g, ≥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
	Whole, Ground Spices & Condiments	Enumeration of Bacillus cereus	FDA-BAM-2012(Chapter14) Chapter 32 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 6) 1999, (RA 2005)	≥100 cfu/g, ≥3 MPN/g
			ISO 7932:2004	≥100 cfu/g
		Detection of Vibrio cholerae and V.parahaemolyticus	FDA-BAM-2004(Chapter 9) Chapter 40 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 5) 1976, (RA 2005)	Present /Absent/25gm
		Enterobacteriaceae	CH-8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 ISO 21528-2:2004	≥10 cfu/g, ≥10 cfu/g,
		Feacal Streptococci	IS 5887(2)1976, (RA 2005) IS 5887(2)1976, (RA 2005)	Present/Absent per 25 gm 0.3 – 110 MPN/gm

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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
	Whole, Ground Spices & Condiments	Lactic acid bacteria	ISO 15214:1998	≥10 cfu/g,
		Mesophilic aerobic spore formers	Chapter 22 , 4th edition, APHA 2001	≥1 cfu / g
		Mesophilic anaerobic spore formers	Chapter 23 , 4th edition, APHA 2001	Present / Absent / g, ≥3 MPN/g, ≥10 cfu/g
		Thermophilic flatsour spore formers	Chapter 25, 4th edition, APHA 2001	1 cfu in 2 g
8.	Nuts & Nuts Products	Total Plate Count	IS 5402:2012 Chapter 3, FDA- BAM, 2001 Chapter 7-Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g, ≥10 cfu/g,
		Yeast & Mold count	IS 5403:1999, (RA 2009) FDA-BAM-2001 (Chapter18) Chapter 20 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g, ≥10 cfu/g,
		E. Coli	IS 5887 (Part-1)1976, (RA 2009) FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	Present /Absent per gm ≥3 MPN /gm

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	Nuts & Nuts Products	Total Coliform counts & faecal Coliform	FDA-BAM-2002 (Chapter 4) Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5401 (Part 1) 2012,	≥10 cfu/g, ≥3 MPN/g ≥10 cfu/g
		Staphylococcus aureus	IS 5887 (Part 2)1976, (RA 2005)	Present/ Absent/25gm
			FDA-BAM-2001(Chapter 12) Chapter 39 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 8/sec 1)2002, (RA 2012)	≥10 cfu/g, ≥3 MPN/g ≥10 cfu/g
		Salmonella sp.	FDA-BAM-2011(Chapter 5) Chapter 37 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 3) 1999, (RA 2009)	Present /Absent/25gm
		Shigella sp.	FDA-BAM-2001(Chapter 6) Chapter 38 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 7) 1999, (RA 2005)	Present /Absent/25gm

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	Nuts & Nuts Products	Detection of Listeria sp.	FDA-BAM-2011(Chapter 10) Chapter 36 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 14988 (Part 1) : 2002	Present /Absent/25gm
		Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 2005)	Present /Absent/25gm
			FDA-BAM-2001(Chapter 16) Chapter 34 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 4) 1999, (RA 2005)	≥10 cfu/g, Present / Absent per 2 gm
			IS 5887 (Part 4) 1999, (RA 2005)	≥10 cfu/g,
		Enumeration of Bacillus cereus	FDA-BAM-2001(Chapter14) Chapter 32 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 6) 1999, (RA 2005)	≥100 cfu/g, ≥3 MPN/g ≥100 cfu/g
	Vibrio cholerae and V.parahaemolyticus	FDA-BAM-2004(Chapter 9) Chapter 40 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 5) 1976, (RA 2005)	Present /Absent/25gm	

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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
	Nuts & Nuts Products	Feacal Streptococci	IS 5887(2)1976, (RA 2005)	Present/Absent per 25 gm
			IS 5887(2)1976, (RA 2005)	0.3 to 110 MPN/gm
		Enterobacteriaceae	CH-8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 ISO 21528-2:2004	≥10 cfu/g ≥10 cfu/g
9.	Ready to Eat Food (Cooked Veg & Non-Veg Items, Snacks & Instant Mixes, Extruded Snacks, Protein Rich Extruded Foods, Raw/ Processed/ Sem-Processed/ Canned/ Thermally Processed such as Dal, Pasta, Biryani, Pizza, Burger, Veg & Non-Veg Salad, Dosa, Idli, Samosa, Chappathietc)	Total Plate Count	IS 5402:2012 Chapter 3, FDA- BAM, Chapter 7-Compendium of 2001 Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g ≥10 cfu/g
		Yeast & Mold count	IS 5403:1999, (RA 2009) FDA-BAM-2001 (Chapter18) Chapter 20 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g ≥10 cfu/g
		E. Coli	IS 5887 (Part-1)1976, (RA 2009) FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	Present /Absent per gm ≥3 MPN/g

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	Ready to Eat Food (Cooked Veg & Non-Veg Items, Snacks & Instant Mixes, Extruded Snacks, Protein Rich Extruded Foods, Raw/ Processed/ Sem-Processed/ Canned/ Thermally Processed such as Dal, Pasta, Biryani, Pizza, Burger, Veg & Non-Veg Salad, Dosa, Idli, Samosa, Chappathietc)	Total Coliform counts & faecal Coliform	IS 5401 (Part 1) 2012, FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g ≥10 cfu/g, ≥3 MPN/g
		Staphylococcus aureus	IS 5887 (Part 2)1976, (RA 2005) IS 5887 (Part 8/sec 1)2002 , FDA-BAM-2001(Chapter 12) Chapter 39 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	Present /Absent/25gm ≥10 cfu/g ≥10 cfu/g, ≥3 MPN/g
		Detection of Salmonella sp.	FDA-BAM-2011(Chapter 5) Chapter 37 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 3) 1999, (RA 2009)	Present /Absent/25gm
		Detection of Shigella sp.	FDA-BAM-2001(Chapter 6) Chapter 38 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 7) 1999, (RA 2009)	Present /Absent/25gm

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	Ready to Eat Food (Cooked Veg & Non-Veg Items, Snacks & Instant Mixes, Extruded Snacks, Protein Rich Extruded Foods, Raw/ Processed/ Sem-Processed/ Canned/ Thermally Processed such as Dal, Pasta, Biryani, Pizza, Burger, Veg & Non-Veg Salad, Dosa, Idli, Samosa, Chappathietc)	Detection of Listeria sp.	FDA-BAM-2011(Chapter 10) Chapter 36 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 14988 (Part 1) : 2002	Present /Absent/25gm
		Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 2005)	Present/Absent/25gm
			FDA-BAM-2001(Chapter 16)	≥10 cfu/g
			Chapter 34 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g, Present / Absent per 2 g
			IS 5887 (Part 4) 1999, (RA 2005)	≥10 cfu/g,
		Bacillus cereus	FDA-BAM-2012(Chapter14) Chapter 32 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 6) 1999, (RA 2005)	≥100 cfu/g, ≥3 MPN/g ≥100 cfu/g,
		Vibrio cholerae and V.parahaemolyticus	FDA-BAM-2004(Chapter 9) Chapter 40 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 5) 1976, (RA 2005)	Present /Absent/25gm

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		Feacal Streptococci	IS 5887(2)1976, (RA 2005)	Present/Absent per 25 gm
		Enterobacteriaceae	IS 5887(2)1976, (RA 2005) CH-8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	0.3 to 110 MPN/gm ≥10 cfu/g
			ISO 21528-2:2004	≥10 cfu/g
10.	Raw & Processed Fruits & Vegetable Foods	Total Plate Count	IS 5402:2012 Chapter 3, FDA- BAM, 2001 Chapter 7-Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g ≥10 cfu/g
		Yeast & Mold count	IS 5403:1999, (RA 2009) FDA-BAM-2001 (Chapter18) Chapter 20 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g ≥10 cfu/g
		E. Coli	IS 5887 (Part-1)1976, (RA 2009) FDA-BAM-2002 (Chapter 4) Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	Present /Absent per gm ≥3 MPN/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
	Raw & Processed Fruits & Vegetable Foods	Total Coliform counts & faecal Coliform	FDA-BAM-2002 (Chapter 4) Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5401 (Part 1) 2012,	≥10 cfu/g, ≥3 MPN/g ≥10 cfu/g
		Staphylococcus aureus	IS 5887 (Part 2)1976, (RA 2005) FDA-BAM-2001(Chapter 12) Chapter 39 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 8/sec 1)2012 IS 5887 (Part 2)1976, (RA 2005)	Present/Absent/25gm ≥10 cfu/g, ≥3 MPN/g ≥10 cfu/g Present/Absent/25gm
		Salmonella sp.	FDA-BAM-2011(Chapter 5) Chapter 37 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 3) 1999, (RA 2009)	Present /Absent/25gm
		Shigella sp.	FDA-BAM-2001(Chapter 6) Chapter 38 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 7) 1999, (RA 2005)	Present /Absent/25gm

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	Raw & Processed Fruits & Vegetable Foods	Listeria sp.	FDA-BAM-2011(Chapter 10) Chapter 36 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 14988 (Part 1) : 2002	Present /Absent/25gm
		Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 2005)	Present/Absent/25gm
			FDA-BAM-2001(Chapter 16) Chapter 34 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g,
			IS 5887 (Part 4) 1999, (RA 2005)	≥10 cfu/g,
		Enumeration of Bacillus cereus	FDA-BAM-2012(Chapter14) Chapter 32 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 6) 1999, (RA 2005)	≥100 cfu/g, ≥3 MPN/g ≥100 cfu/g,
	Vibrio cholerae and V.parahaemolyticus		FDA-BAM-2004(Chapter 9) Chapter 40 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 5) 1976, (RA 2005)	Present/ Absent/25gm

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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
	Raw & Processed Fruits & Vegetable Foods	Feacal Streptococci	IS 5887(2)1976, (RA 2005)	Present/Absent per 25 gm
			IS 5887(2)1976, (RA 2005)	0.3 – 110 MPN/gm
		Lactic acid bacteria	19.522, Chapter 51, APHA 2001	≥10 cfu/g,
		Flat Sour Organisms	CH-24 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu /g
		Enterobacteriaceae	CH-8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 ISO 21528-2:2004	≥10 cfu/g,
		Incubation at 37 ⁰ C for 10 days	IS 2860 : 1964	Complies/Does not Complies
		Incubation at 55 ⁰ C for 7 days	IS 2860 : 1965	Complies/Does not Complies
11.	Meat & Poultry Products	Total Plate Count	IS 5402:2012(, (RA 2007) Chapter 3, FDA- BAM, 2001 Chapter 7-Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g, ≥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
	Meat & Poultry Products	Yeast & Mold count	IS 5403:1999, (RA 2009)	≥10 cfu/g,
		E. Coli	FDA-BAM-2001 (Chapter18) Chapter 20 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g,
		Total Coliform counts & faecal Coliform	IS 5887 (Part-1)1976, (RA 2005)	Present /Absent per gm or 25 gm
			FDA-BAM-2002 (Chapter 4) Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥3 MPN/g
			FDA-BAM-2002 (Chapter 4)	≥10 cfu/g, ≥3 MPN/g
			Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g, ≥3 MPN/g
			IS 5401 (Part 1) 2012,	≥10 cfu/g,
		Staphylococcus aureus	IS 5887 (Part 2)1976, (RA 2005) FDA-BAM-2001(Chapter 12) Chapter 39 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	Present/Absent/25gm ≥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
	Meat & Poultry Products	Detection of Salmonella sp.	FDA-BAM-2011(Chapter 5) Chapter 37 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 3) 1999, (RA 2009)	Present/ Absent/25gm
		Detection of Shigella sp.	FDA-BAM-2001(Chapter 6) Chapter 38 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 7) 1999, (RA 2005)	Present/ Absent/25gm
		Detection of Listeria sp.	FDA-BAM-2011(Chapter 10) Chapter 36 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 14988 (Part 1) : 2002	Present/ Absent/25gm
		Detection of Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 2005)	Present/Absent/25gm
		Enumeration of Clostridium perfringens	FDA-BAM-2001(Chapter 16) Chapter 34 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 4) 1999, (RA 2005)	≥100 cfu/g, Present / Absent per 2 g ≥100 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
	Meat & Poultry Products	Enumeration of Bacillus cereus	IS 5887 (Part 6) 1999, (RA 2005) FDA-BAM-2012(Chapter14) Chapter 32 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥100 cfu/g ≥100 cfu/g, ≥3 MPN/g
		Detection of Vibrio cholerae and V.parahaemolyticus	FDA-BAM-2004(Chapter 9) Chapter 40 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	Present/ Absent/25gm
		Feecal Streptococci	IS 5887 (Part 5) 1976, (RA 2005)	Present/Absent per 25 gm
		Enumeration of Feecal Streptococci	IS 5887 (Part 2)1976, (RA 2005)	
		Enterobacteriaceae	CH-8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g
			ISO 21528-2:2004	≥10 cfu/g
12.	Sugar & Sugar Products	Total Plate Count	IS 5402:2012	≥10 cfu/g
			Chapter 3, FDA- BAM, 2001 Chapter 7-Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥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
	Sugar & Sugar Products	Yeast & Mold count	IS 5403:1999, (RA 2009)	≥10 cfu/g
			FDA-BAM-2001 (Chapter18) Chapter 20 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g
		E. Coli	IS 5887 (Part-1)1976, (RA 2009) FDA-BAM-2002 (Chapter 4) Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	Present /Absent per gm ≥3 MPN/g
		Coliform counts & faecal Coliform	FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5401 (Part 1) 2012,	≥10 cfu/g, ≥3 MPN/g ≥10 cfu/g
		Staphylococcus aureus	IS 5887 (Part 2)1976, (RA 2005) FDA-BAM-2001(Chapter 12) Chapter 39 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 8/sec 1)2002, (RA 2012)	Present/Absent/25gm ≥10 cfu/g, ≥3 MPN/g ≥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
	Sugar & Sugar Products	Salmonella sp.	FDA-BAM-2001(Chapter 5) Chapter 37 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 3) 1999, (RA 2009)	Present/ Absent/25gm
		Shigella sp.	FDA-BAM-2001(Chapter 6) Chapter 38 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 7) 1999, (RA 2009)	Present/ Absent/25gm
		Listeria sp.	FDA-BAM-2011(Chapter 10) Chapter 36 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 14988 (Part 1) : 2002	Present/ Absent/25gm
		Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 2005)	Present/Absent/25gm
			FDA-BAM-2001(Chapter 16) Chapter 34 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 4) 1999, (RA 2005)	≥10 cfu/g, Present / Absent per 2 g ≥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
	Sugar & Sugar Products	Enumeration of Bacillus cereus	IS 5887 (Part 6) 1999, (RA 2005)	≥100 cfu/g
			FDA-BAM-2001(Chapter14) Chapter 32 APHA 4th Edition	≥100 cfu/g, ≥3 MPN/g
		Vibrio cholerae and V.parahaemolyticus	FDA-BAM-2004(Chapter 9) Chapter 40 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 5) 1976, (RA 2005)	Present/ Absent per 25g / ≥3 MPN/g
		Feacal Streptococci	IS 5887(2)1976, (RA 2005)	Present/Absent per 25 gm
			IS 5887(2)1976, (RA 2005)	0.3 to 110 MPN/gm
		Enterobacteriaceae	CH-8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g
			ISO 21528-2:2004	≥10 cfu/g
	Lactic acid bacteria	ISO 15214:1998	≥10 cfu/g	
	Mesophilic aerobic spore formers	CH-22 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥1 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
	Sugar & Sugar Products	Mesophilic anaerobic spore formers	CH-23 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	Present / Absent / g, ≥3 MPN/g, >10cfu/g
		Thermophilic flatsour spore formers	CH-25 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	>1 cfu in 2 g
		Thermophilic anaerobic spore formers	CH-26 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	Present / Absent / 20 g
13.	Fish & Marine Products	Total Plate Count	IS 5402:2012	≥10 cfu/g
			Chapter 3, FDA- BAM, 2001 Chapter 7-Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g
		Yeast & Mold count	IS 5403:1999, (RA 2009) FDA-BAM-2001 (Chapter18) Chapter 20 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g ≥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
	Fish & Marine Products	E. Coli	IS 5887 (Part-1)1976, (RA 2009) FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	Present /Absent per 25 gm ≥3 MPN/g
		Total Coliform counts & faecal Coliform	FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g, ≥3 MPN/g
			IS 5401 (Part 1) 2012,	≥10 cfu/g
		Staphylococcus aureus	IS 5887 (Part 2)1976, (RA 2009)	Present/ Absent/25gm
			FDA-BAM-2001(Chapter 12) Chapter 39 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g, ≥3 MPN/g
			IS 5887 (Part 8/Sec 1) 2002 (RA 2012)	≥10 cfu/g
			IS 5887 (Part 2)1976, (RA 2005)	Present/ Absent/25gm

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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
	Fish & Marine Products	Detection of Salmonella sp.	FDA-BAM-2011(Chapter 5) Chapter 37 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 3) 1999, (RA 2009)	Present/ Absent/25gm
		Detection of Shigella sp.	FDA-BAM-2001(Chapter 6) Chapter 38 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 7) 1999, (RA 2005)	Present/ Absent/25gm
		Detection of Listeria sp.	FDA-BAM-2011(Chapter 10) Chapter 36 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 14988 (Part 1) : 2002	Present/ Absent/25gm
		Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 2009) FDA-BAM-2001(Chapter 16) Chapter 34 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 4) 1999, (RA 2005)	Present/Absent/25gm ≥10 cfu/g, Present / Absent per 2 g ≥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
	Fish & Marine Products	Enumeration of Bacillus cereus	IS 5887 (Part 6) 1999, (RA 2005) FDA-BAM-2012(Chapter14) Chapter 32 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥100 cfu/g ≥100 cfu/g, ≥3 MPN/g
		Vibrio cholerae and V.parahaemolyticus	FDA-BAM-2004(Chapter 9) Chapter 40 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 5) 1976, (RA 2005)	Present/Absent/25gm
		Feecal Streptococci Enumeration of Feecal Streptococci	IS 5887 (Part 2) 1976, (RA 2005) IS 5887 (Part 2) 1976, (RA 2005)	Present/Absent per 25 gm 0.3 to 110 MPN/gm
		Enterobacteriaceae	CH-8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 ISO 21528-2:2004	≥10 cfu/g ≥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
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II. WATER

1. Packaged Natural Mineral Water & Packaged Drinking Water	Total Plate Count @ 37°C	IS 5402:2012	<1 cfu/ml
	Total Plate Count @ 22°C	IS 5402:2012	<1 cfu/ml
	Yeast & Mold count	IS 5403:1999 (RA 2005)	Present /Absent/ 100 to 250 ml
	Detection of Escherichia coli	IS 5887(Part-1)1976 (RA 2005) IS 15185:2002 RA 2007/ ISO 9308-1:2000	Present /Absent/ 100 to 250 ml
	Detection of Coliform	IS 5401 : 2012, IS 15185:2002 (RA 2007)/ ISO 9308-1:2000	Present /Absent/ 100 to 250 ml
	Staphylococcus aureus	IS 5887(Part 2)1976 (RA 2009)	Present /Absent/ 100 to 250 ml
	Detection of Salmonella sp.	IS 5887(Part 3) 1999 (RA 2009) IS 15187: 2002 (RA 2007)	Present /Absent/ 100 to 250 ml
	Detection of Shigella sp.	IS 5887(Part 7) 1999 (RA 2009)	Present /Absent/ 100 to 250 ml
Fecal Streptococci	IS 5887(Part 2)1976 (RA 2009) IS 15186:2002 (RA 2007)/ ISO 7899-2:2000	Present /Absent/ 100 to 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 & Packaged Drinking Water	Sulphite reducing anaerobes	IS 13428:1998 (RA 2009) (Annex C)	Present/Absent/ 50 ml
		Pseudomonas aeruginosa	IS 13428- 2009 (Annex D)	Present /Absent/ 100 to 250 ml
		Vibrio cholerae	IS 5887(Part 5) 1976 (RA 2009)	Present /Absent/ 100 to 250 ml
		V.parahaemolyticus	IS 5887(Part 5) 1976 (RA 2009)	Present /Absent/ 100 to 250 ml
2.	Processed water	Coliform	IS 1622-1981 (RA 1992)	≥1 MPN/100 ml
		Proteolytic bacterial count	IS 4251:1967 (RA 1992)	≥1 cfu/ml
		Lipolytic bacterial count	IS 4251:1967 (RA 2009)	≥1 cfu/ml
		Total Plate Count@ 37°C	IS 1622-1981 (RA 2009)	≥1 cfu/ml
		E.coli	IS 1622-1981 (RA 2009)	≥1 MPN/100 ml
3.	Drinking Water	Coliform	IS 1622-1981 (RA 2009)	≥1MPN /100 ml/Absent MPN/100 ml
			9221 B, 9221 C, 9221 E, APHA 22nd Edition,2012	≥1.1 MPN/100 ml
		E.coli	IS 1622-1981 (RA 2009)	≥1MPN /100 ml Absent MPN/100 ml
			9221 B, 9221 E APHA 22 nd Edn., 2012	≥1.1 MPN/100 ml

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III. COSMETICS AND ESSENTIAL OILS

1. Cosmetics (Raw Products) Cosmetics (Finished Products- Skin Care Cream, Lotions, Powders, Under Eye Gel, Lipsticks, Perfumes, Nail polish)	Total Bacterial Count	IS 14648:2011	≥10 cfu/g
	Yeast & Mold count	IS 14648:2011	≥10 cfu/g
	Gram Negative pathogens	IS 14648:2011	Present / Absent per gm
	C.albicans	IS 14648:2011	Present / Absent per gm
	Pseudomonas	IS 14648:2011	Present / Absent per gm
Staphylococcus aureus	IS 14648:2011	Present / Absent per gm	

IV. BIOCIDES

1. Antiseptics used in food, industrial and domestic area	S.aureus	BS EN 13697 / BS EN 1276 / BS EN 1040	Present/Absent
	Enterococcus hirae	BS EN 13697 / BS EN 1276 / BS EN 1040	Present/Absent
	E.coli	BS EN 13697 / BS EN 1276 / BS EN 1040	Present/Absent
	Candida albicans	BS EN 13697	Present/Absent
	A.niger	BS EN 13697	Present/Absent

-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**.