

Laboratory	SGS India Private Limited, Multi Laboratory Services, 267, Udyog Vihar, Phase-IV, Gurgaon, Haryana		
Accreditation Standard	ISO/IEC 17025: 2005		
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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. FOOD AND AGRICULTURAL PRODUCTS				
1.	Animal Feeds	Total Plate Count	IS : 5402 :2012 / ISO:4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g)
		Yeast & Mould	IS:5403:1999/ ISO:21527-1 : 2008/ ISO 21527-2: 2008/ US FDA BAM-2001 (Chapter 18)	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Escherichia coli</i> (Enumeration)	IS:5887 (Part-1)1976, Reaffirmed 2005	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Escherichia coli</i> (Detection)		Present/ Absent per x g
		Coliform	IS:5401 (Part-1):2002/ ISO:4832:2006/ US FDA BAM-2001 (Chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g)
		Salmonella	US FDA BAM-2011(chapter 5), IS:5887(Part-3)1999 / ISO:6579:2012	Present/Absent per x g
		<i>Clostridium perferingens</i>	ISO: 7937:2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g)

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2.	Bakery & Confectionery Products			
a.	Biscuits	Total Plate Count	IS : 5402 :2012 / ISO:4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g)
		Yeast & Mould	IS:5403:1999/ ISO:21527-1 : 2008/ ISO 21527-2: 2008/ US FDA BAM-2001 (Chapter 18)	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g)
		Escherichia coli (Enumeration cfu) (Detection)	IS:5887(Part -1)1976, Reaffirmed 2005	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g) Present/ Absent per x g
		Coliform (Enumeration cfu)	IS:5401 (Part-1):2002 / ISO:4832/ US FDA BAM-2001 (chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Salmonella</i>	US FDA BAM-2011(chapter 5), IS:5887(Part -3)1999 / ISO:6579:2002	Present/Absent per x g
		<i>Shigella</i>	IS:5887 (Part -7) 1999	Present/Absent per x g
		<i>Bacillus cereus</i>	IS:5887 (Part-VI):2012/ ISO:7932:2004/ US FDA BAM (Chapter 14):2012	1 – 150 cfu per plate multiplied by dilution factor (cfu/ml)

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	Biscuits	<i>Enterobacteriaceae</i> (Enumeration cfu) (Detection)	ISO:21528 (II):2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g) 0.3 to 110 MPN/g Present /Absent per x g
		<i>Clostridium perferingens</i>	ISO: 7937:2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g)
b.	Bread	Total Plate Count	IS : 5402 :2012 / ISO:4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g)
		Yeast & Mould	IS:5403:1999/ ISO:21527-1 : 2008/ ISO 21527-2: 2008/ US FDA BAM-2001 (Chapter 18)	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g)
		Escherichia coli (Enumeration cfu) (Detection)	IS:5887(P-1)1976, Reaffirmed 2005	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g) Present/ Absent per x g
		Coliform (Enumeration cfu)	IS:5401 (Part-1):2002 / ISO:4832/US FDA BAM-2001 (chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Salmonella</i>	US FDA BAM-2011(chapter 5), IS:5887(Part -3)1999 / ISO:6579:2002	Present/Absent per x g

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	Bread	<i>Shigella</i>	IS:5887 (Part -7) 1999,	Present/Absent per x g
		<i>Bacillus cereus</i>	IS:5887 (Part-VI):2012/ ISO:7932:2004/ US FDA BAM (Chapter 14):2012	1 – 150 cfu per plate multiplied by dilution factor (cfu/ml)
		<i>Enterobacteriaceae</i> (enumeration) (Detection)	ISO:21528 (II):2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g) 0.3 to 110 MPN/g Present /Absent per x g
		<i>Clostridium perferingens</i>	ISO: 7937:2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g)
3.	Beverages			
a.	Non-Alcoholic-Carbonated Water	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2013	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/ml)
			US FDA BAM-2001 (Chapter 3)	1 cfu to 250 cfu per plate multiplied by dilution factor (cfu/ml)
		Yeast & Mould	IS:5403:1999/ ISO:21527-1 : 2008/ISO 21527-2: 2008/ US FDA BAM-2001 (Chapter 18)	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/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
	Non-Alcoholic-Carbonated Water	<i>Escherichia coli</i> (Enumeration cfu) (Detection)	IS:5887(Part -1)1976, Reaffirmed 2005	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/ml) Present/ Absent per x ml
		<i>Escherichia coli</i> (MPN)	US FDA BAM-2001 (chapter 4) IS:5887(Part -1)1976, Reaffirmed 2005, ISO:7251:2005	3 to 1100 MPN/ml 0.3 to 110 MPN/ml
		Coliform (Enumeration cfu) (Detection)	IS:5401 (Part-2) :2002 / ISO:4831:2006/ US FDA BAM-2001 (chapter : 4)	1 to 250 cfu per plate multiplied by dilution factor (cfu/ml) Present / Absent per X ml
		Coliform (Enumeration MPN)	IS:5401 (Part-2):2012/ ISO:4831:2006 US FDA BAM-2001 (chapter : 4)	0.3 to 110 MPN/ml 3 to 1100 MPN/ml
		<i>Staphylococcus aureus</i> (Enumeration cfu)	IS:5887(Part-2)1976 Reaffirmed 2005/, IS: 5587 (P-VIII):2002 / ISO: 6888:1:1999/ US FDA BAM-2001(chapter 12)	1 to 200 cfu per plate multiplied by dilution factor (cfu/ml)
		<i>Staphylococcus aureus</i> (Enumeration MPN)	IS:5887(Part -2)1976 Reaffirmed 2005/ ISO:6888 :III:2003 US FDA BAM-2001(chapter 12)	0.3 to 110 MPN/ml 3 to 1100 MPN/ml

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	Non-Alcoholic-Carbonated Water	<i>Staphylococcus aureus</i> (Detection)	IS:5887(Part -2)1976, Reaffirmed 2005/ ISO: 6888:3:2003	Present/ Absent per x ml
		<i>Salmonella</i>	US FDA BAM-2011(chapter 5), IS:5887(Part -3)1999 / ISO:6579:2012	Present/Absent per x ml
		<i>Shigella</i>	IS:5887 (Part -7) 1999	Present/Absent per x ml
		<i>Vibrio cholerae</i>	IS : 5887 (Part -5)-1976, Reaffirmed 2005	Present/Absent per x ml
		<i>Vibrio parahaemolyticus</i>	IS : 5887 (Part -5)-1976, Reaffirmed 2005	Present/Absent per x ml
		<i>Faecal streptococci</i>	IS:5887 (Part- II):1976	1 to 150 per plate(cfu/g) 0.3 to 110 MPN/ ml
		<i>Enterobacteriaceae</i> (Enumeration cfu) (Detection)	ISO:21528 (II):2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/ml) 0.3 to 110 MPN/ ml Present /Absent per x ml
		<i>Clostridium perferingens</i>	ISO: 7937:2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/ml)
		Sulphite reducing anaerobic clostridia /spores	ISO:15213:2003	1 - 150cfu/Plate multiplied by dilution factor (cfu/ml)

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	Non-Alcoholic-Carbonated Water	<i>Flat sour organisms</i>	Compendium for the methods of food microbiology (APHA)	1 - 150cfu/Plate multiplied by dilution factor (cfu/ml)
		Incubation test (37)	IS:2860:1964	Passes/Fails the test
		Incubation test (55)	IS:2860:1964	Passes/Fails the test
4.	Canned & Processed Foods	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g)
		Yeast & Mould	IS:5403:1999/ ISO:21527-1 : 2008/ ISO 21527-2: 2008/ US FDA BAM-2001 (Chapter 18)/ US FDA BAM-2001 (Chapter 18)	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Escherichia coli</i> (Enumeration cfu) (Detection)	IS:5887(Part -1)1976, Reaffirmed 2005	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g) Present/ Absent
		<i>Escherichia coli</i> (MPN)	US FDA BAM-2001 (chapter 4)	3 to 1100 MPN/g
			IS:5887(Part -1)1976, Reaffirmed 2005, ISO:7251:2005	0.3 to 110 MPN/g

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	Canned & Processed Foods	Coliform (Enumeration cfu)	IS:5401 (Part-1):2002 / ISO:4832:2006/ US FDA BAM-2001 (chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g)
		Coliform (Enumeration MPN)	IS:5401 Part-2:2012 / ISO:4831:2006 US FDA BAM-2001 (chapter : 4)	0.3 to 110 MPN/g Present or Absent per X g 3 to 1100 MPN/g
		<i>Staphylococcus aureus</i> (Enumeration cfu)	IS:5887(Part -2)1976 Reaffirmed 2005/, IS: 5587 (Part -VIII):2002 / ISO: 6888:1:1999/ US FDA BAM-2001(chapter 12)	1 to 200 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Staphylococcus aureus</i> (Enumeration MPN)(Detection)	IS:5887(Part -2)1976 Reaffirmed 2005/ ISO:6888 (III):2003 US FDA BAM-2001(chapter 12)	0.3 to 110 MPN/g Present/ Absent per x g 3 to 1100 MPN/g
		<i>Salmonella</i>	US FDA BAM-2011(chapter 5), IS:5887(Part -3)1999 / ISO:6579:2002	Present/Absent per x g
		<i>Shigella</i>	IS:5887 (Part -7) 1999,	Present/Absent per x g

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	Canned & Processed Foods	<i>Listeria</i> Spp./ <i>Listeria monocytogens</i> (Enumeration) (Detection)	ISO:11290 Part-2:2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-2:2001 ISO:11290 Part1 :2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-1:2001	1 – 150 cfu per plate multiplied by dilution factor (cfu/g) Present/Absent per x g
		<i>Bacillus cereus</i>	IS:5887 (Part-VI):2012/ ISO:7932:2004/ US FDA BAM (Chapter 14):2012	1 – 150 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Vibrio cholerae</i>	IS : 5887 (Part -5)-1976, Reaffirmed 2005	Present/Absent per x g
		<i>Vibrio parahaemolyticus</i>	IS : 5887 (Part -5)-1976, Reaffirmed 2005	Present/Absent per x g
		<i>Faecal streptococci</i>	IS:5887 (Part II):1976	1 to 150 per plate(cfu/g) 0.3 to 110 MPN/g
		<i>Enterobacteriaceae</i> (Enumeration cfu)	ISO:21528 (II):2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g) 0.3 to 110 MPN/g Present /Absent per x g
		<i>Clostridium perferingens</i>	ISO: 7937:2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g)

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	Canned & Processed Foods	<i>Flat sour organisms</i>	Compendium for the methods of food microbiology (APHA)	1 - 150cfu/Plate multiplied by dilution factor (cfu/ml)
		Sulphite reducing anaerobic clostridia /spores	ISO:15213:2003	1 - 150cfu/Plate multiplied by dilution factor (cfu/g)
		Incubation Test	IS:2860/ US FDA BAM (Chapter 21A)	Passes/ Fails the test
5.	Cereals, Pulses & Cereal Products			
a.	Atta, Maida, Semolina, Besan, Pearl Barley	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2013 /US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g)
		Yeast & Mould	IS:5403:1999/ ISO:21527-1 : 2008/ ISO 21527-2: 2008/US FDA BAM-2001 (Chapter 18)	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Escherichia coli</i> (Enumeration cfu) (Detection)	IS:5887(Part-1)1976, Reaffirmed 2005/ US FDA BAM-2001 (chapter 4)	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g) Present/ Absent per x g
		Coliform (Enumeration cfu) (Detection)	IS:5401 (Part-1):2002 / ISO:4832:2006/ US FDA BAM-2001 (chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g) g Present/ Absent per X g

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b.	Food Grains	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g)
		Yeast & Mould	IS:5403:1999/ ISO:21527-1 : 2008/ ISO 21527-2: 2008 /US FDA BAM-2001 Chapter 18)	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Escherichia coli</i> (Enumeration cfu) (Detection)	IS:5887(Part -1)1976, Reaffirmed 2005/ US FDA BAM-2001 (chapter 4)	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g) Present/ Absent per x g
		Coliform (Enumeration cfu) (Detection)	IS:5401 (Part-1):2002 / ISO:4832:2006/ US FDA BAM-2001 (chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g) Present/ Absent per X g
6.	Coffee & Cocoa Products	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g)
		Yeast & Mould	IS:5403:1999/ ISO:21527-1 : 2008/ ISO 21527-2: 2008/ US FDA BAM-2001 (Chapter 18)	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g)

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	Coffee & Cocoa Products	<i>Escherichia coli</i> (Enumeration cfu) (Detection)	IS:5887(P-1)1976, Reaffirmed 2005/ US FDA BAM-2001 (chapter 4)	1 cfu to 250 cfu per plate multiplied by dilution factor (cfu/g) Present/ Absent per x g
		<i>Staphylococcus aureus</i> (Enumeration cfu) (Detection)	IS:5887(Part -2)1976 Reaffirmed 2005/ IS: 5587 (Part -VIII):2002 / ISO: 6888:1:1999/ US FDA BAM-2001(chapter 12)	1 to 200 cfu per plate multiplied by dilution factor (cfu/g) Present/ Absent per x g
		<i>Salmonella</i>	US FDA BAM-2011(chapter 5), IS:5887(Part -3)1999 / ISO:6579:2002	Present/Absent per x g
		<i>Shigella</i>	IS:5887 (Part -7) 1999	Present/Absent per x g
		Sulphite reducing anaerobic clostridia /spores	ISO:15213:2003	1 - 150cfu/Plate multiplied by dilution factor (cfu/g)
7.	Edible Oils & Fats	Total Plate Count	IS : 5402 :2012 /ISO: 4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g)
		Yeast & Mould	IS:5403:1999/ ISO:21527-1 : 2008/ ISO 21527-2: 2008/ US FDA BAM-2001 (Chapter 18)	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Escherichia coli</i> (Enumeration cfu) (Detection)	IS:5887(Part -1)1976, Reaffirmed 2005	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g) Present/ Absent per x g

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	Edible Oils & Fats	Coliform (Enumeration cfu)	IS:5401 (Part-1):2002 / ISO:4832:2006/ US FDA BAM-2001 (chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Salmonella</i>	US FDA BAM-2011(chapter 5), IS:5887(Part -3)1999 / ISO:6579:2002	Present/Absent per x g
		<i>Shigella</i>	IS:5887 (Part -7) 1999	Present/Absent per x g
		<i>Enterobacteriaceae</i> (Enumeration cfu)	ISO:21528 (II):2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g) 0.3 to 110 MPN/g Present /Absent per x g
8.	Eggs & Egg Products	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g)
		Enumeration of Yeasts and Moulds	IS 14920 : 2001 / ISO 13681 : 1995	1 - 150cfu per Plate multiplied by dilution factor (cfu/g)
		<i>Escherichia coli</i> (Enumeration cfu) (Detection)	IS:5887(Part -1)1976, Reaffirmed 2005/ IS 15463 : 2004 / ISO 6391 : 1997	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g) Present/Absent per x gm

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	Eggs & Egg Products	Coliform (Enumeration cfu)	IS:5401 (Part-1):2002 / ISO:4832:2006 US FDA BAM-2001 (chapter : 4)	1 - 150 cfu per plate multiplied by dilution factor (cfu/g) 1 – 250 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Staphylococcus aureus</i> (Enumeration cfu)	IS:5887(Part -2)1976 Reaffirmed 2005/, IS: 5587 (Part -VIII):2002 / ISO: 6888:1 US FDA BAM-2001 (chapter 12)	1 to 150 cfu per plate multiplied by dilution factor (cfu/g) 1 to 200 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Salmonella</i>	US FDA BAM-2011 (chapter 5), IS:5887(Part -3)1999 / ISO:6579:2002	Present/Absent per x g
		<i>Shigella</i>	IS:5887 (Part -7) 1999	Present/Absent per x g
		<i>Listeria monocytogens</i> (enumeration) <i>Listeria</i> Spp./ <i>Listeria monocytogens</i> (Detection)	ISO:11290 Part-2:2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-2:2001 ISO:11290 Part-1 :2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-1:2001	1 – 150 cfu per plate multiplied by dilution factor (cfu/g) Present/Absent per x g

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	Eggs & Egg Products	<i>Enterobacteriaceae</i> (Enumeration cfu)	ISO:21528 (II):2004	1 - 150cfu per Plate multiplied by dilution factor (cfu/g) 0.3 to 110 MPN/g Present /Absent per x g
9.	Fish & Sea Foods			
a.	Frozen shrimp, lobsters, squid, finfish, fish fillets	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g)
		Enumeration of Yeasts and Moulds	IS 14920 : 2001 / ISO 13681 : 1995	1 - 150cfu per Plate multiplied by dilution factor (cfu/g)
		<i>Escherichia coli</i> (Enumeration cfu)	IS:5887(Part -1)1976, Reaffirmed 2005/ IS 15463 : 2004 / ISO 6391 : 1997	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g) Present/ Absent per x g
		Coliform (Enumeration cfu)	IS:5401 (Part-1):2002 / ISO:4832:2006 US FDA BAM-2001 (chapter : 4)	1 – 150 cfu per plate multiplied by dilution factor (cfu/g) 1 – 250 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Staphylococcus aureus</i> (Enumeration cfu)	IS:5887(Part -2)1976 Reaffirmed 2005/ IS: 5587 (Part -VIII):2002 / ISO: 6888:1/ US FDA BAM-2001(chapter 12)	1 to 200 cfu per plate multiplied by dilution factor (cfu/g)

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	Frozen shrimp, lobsters, squid, finfish, fish fillets	<i>Staphylococcus aureus</i> (Detection)	IS:5887(Part -2)1976, Reaffirmed 2005/ ISO: 6888:3:2003	Present/ Absent per x gm
		<i>Salmonella</i>	US FDA BAM-2011(chapter 5), IS:5887(Part -3)1999 / ISO:6579:2002	Present/Absent per x g
		<i>Shigella</i>	IS:5887 (Part -7) 1999	Present/Absent per x g
		<i>Listeria monocytogens</i> (enumeration) <i>Listeria</i> Spp./ <i>Listeria monocytogens</i> (Detection)	ISO:11290 Part1 :2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-1:2001	1 – 150 cfu per plate multiplied by dilution factor (cfu/g) Present/Absent per x g
		<i>Vibrio cholerae</i>	IS : 5887 Part -5-1976, Reaffirmed 2005	Present/Absent per x g
		<i>Vibrio parahaemolyticus</i>	IS : 5887 Part -5-1976, Reaffirmed 2005	Present/Absent per x g
		<i>Faecal streptococci</i>	IS:5887 (Part II):1976	1 to 150 per plate (cfu/g) 0.3 to 110 MPN/g
		<i>Enterobacteriaceae</i> (Enumeration cfu)	ISO:21528 (II):2004	1 - 150cfu per Plate multiplied by dilution factor (cfu/g) 0.3 to 110 MPN/g Present /Absent per x g

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	Frozen shrimp, lobsters, squid, finfish, fish fillets	<i>Clostridium perferingens</i>	ISO: 7937:2004	1 - 150cfu per Plate multiplied by dilution factor (cfu/g)
		Sulphite reducing anaerobic clostridia /spores	ISO:15213:2003	1 - 150cfu/Plate multiplied by dilution factor (cfu/g)
		Incubation test	IS:3044:1973/ US FDA BAM Chapter 21 A	Passes the test
		Enumeration of <i>Pseudomonas</i> Spp.	IS 14843 : 2000 / ISO 13720 : 1995	1 - 150cfu per Plate multiplied by dilution factor (cfu/g)
b.	Dried shark fins, salted fish/dried salted fish	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2013 US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g)
		Enumeration of Yeasts and Moulds	IS 14920 : 2001 / ISO 13681 : 1995	1 - 150cfu per Plate multiplied by dilution factor (cfu/g)
		<i>Escherichia coli</i> (Enumeration cfu)	IS:5887(Part -1)1976, Reaffirmed 2005 / IS 15463 : 2004 / ISO 6391 : 1997	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g)

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	Dried shark fins, salted fish/dried salted fish	Coliform (Enumeration cfu)	IS:5401 (Part-1):2002 / ISO:4832:2006/ US FDA BAM-2001 (chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Staphylococcus aureus</i> (Enumeration cfu) (Detection)	IS:5887(Part -2)1976 Reaffirmed 2005/, IS: 5587 (P-VIII):2002 / ISO: 6888:1/US FDA BAM-2001(chapter 12)	1 to 200 cfu per plate multiplied by dilution factor (cfu/g) Present/ Absent per x gm
		<i>Salmonella</i>	US FDA BAM-2011(chapter 5), IS:5887(Part -3)1999 / ISO:6579:2002	Present/Absent per x g
		<i>Shigella</i>	IS:5887 (Part -7) 1999	Present/Absent per x g
		<i>Listeria monocytogens</i> (enumeration) <i>Listeria</i> Spp./ <i>Listeria monocytogens</i> (Detection)	ISO:11290 Part2:2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-2:2001 ISO:11290 Part1 :2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-1:2001	1 – 150 cfu per plate multiplied by dilution factor (cfu/g) Present/Absent per x g
		<i>Vibrio cholerae</i>	IS : 5887 Part -5-1976, Reaffirmed 2005	Present/Absent per x g
		<i>Vibrio parahaemolyticus</i>	IS : 5887 Part -5-1976, Reaffirmed 2005	Present/Absent per x g

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	Dried shark fins, salted fish/dried salted fish	<i>Enterobacteriaceae</i> (Enumeration cfu)	ISO:21528 (II):2004	1 - 150cfu per Plate multiplied by dilution factor (cfu/g) 0.3 to 110 MPN/g Present /Absent per x g
		<i>Clostridium perferingens</i>	ISO: 7937:2004	1 - 150cfu per Plate multiplied by dilution factor (cfu/g)
c.	Canned Shrimp, Fin fish, sardines, salmon, crab, tuna and bonito	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g)
		Enumeration of yeast and mould	IS 14920 : 2001 / ISO 13681:1995	1-150 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Escherichia coli</i> (Enumeration cfu) (Detection)	IS:5887(P-1)1976, Reaffirmed 2005 / IS 15463 : 2004 /ISO 6391 : 1997	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g) Present/ Absent per x g
		Coliform (Enumeration cfu)	IS:5401 (Part-1):2002 / ISO:4832:2006/ US FDA BAM-2001 (chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Staphylococcus aureus</i> (Enumeration cfu)	IS:5887(P-2)1976 Reaffirmed 2005/ IS: 5587 (P-VIII):2002 / ISO: 6888:1/ US FDA BAM-2001(chapter 12)	1 to 200 cfu per plate multiplied by dilution factor (cfu/g)

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	Canned Shrimp, Fin fish, sardines, salmon, crab, tuna and bonito	<i>Salmonella</i>	US FDA BAM-2011 (chapter 5), IS:5887(P-3)1999 / ISO:6579:2002	Present/Absent per x g
		<i>Shigella</i>	IS:5887 (Part -7) 1999	Present/Absent per x g
		<i>Listeria monocytogens</i> (enumeration)	ISO:11290 Part-2:2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-2:2001	1 – 150 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Listeria Spp./ Listeria monocytogens</i> (Detection)	ISO:11290 Part-1 :2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-1:2001	Present/Absent per x g
		<i>Vibrio cholerae</i>	IS : 5887 Part -5-1976, Reaffirmed 2005	Present/Absent per x g
		<i>Vibrio parahaemolyticus</i>	IS : 5887 Part -5-1976, Reaffirmed 2005	Present/Absent per x g
		<i>Enterobacteriaceae</i> (Enumeration cfu)	ISO:21528 (II):2004	1 - 150cfu per Plate multiplied by dilution factor (cfu/g) 0.3 to 110 MPN/g Present /Absent per x g
		<i>Clostridium perferingens</i>	ISO: 7937:2004	1 - 150cfu per Plate multiplied by dilution factor (cfu/g)

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10.	Fruit & Fruit Products	Total Plate Count	IS : 5402 :2012/ ISO: 4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g)
		Yeast & Mould	IS:5403:1999/ ISO:21527-1 : 2008/ ISO 21527-2: 2008/ US FDA BAM-2001 (Chapter 18)	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Escherichia coli</i> (Enumeration cfu) (Detection)	IS:5887(Part -1)1976, Reaffirmed 2005	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g) Present/ Absent per x g
		Coliform (Enumeration cfu)	IS:5401 (Part-1):2002 / ISO:4832:2006/ US FDA BAM-2001 (chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Salmonella</i>	US FDA BAM-2011(chapter 5), IS:5887(Part -3)1999 / ISO:6579:2002	Present/Absent per x g
		<i>Shigella</i>	IS:5887 (Part -7) 1999,	Present/Absent per x g
		<i>Listeria</i> Spp./ <i>Listeria monocytogens</i> (Enumeration) <i>Listeria</i> Spp./ <i>Listeria monocytogens</i> (Detection)	ISO:11290 Part-2:2004/ USFDA BAM (Chapter-10):2011 IS: 14988 Part-2:2001 ISO:11290 Part-1 :2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-1:2001	1 – 150 cfu per plate multiplied by dilution factor (cfu/g) Present/Absent per x g

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	Fruit & Fruit Products	<i>Enterobacteriaceae</i> (Enumeration cfu)	ISO:21528 (II):2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g) 0.3 to 110 MPN/g Present /Absent per x g
11.	Vegetable & Vegetable Products	Total Plate Count	IS : 5402 :2012/ ISO: 4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g)
		Yeast & Mould	IS:5403:1999/ ISO:21527-1 : 2008/ ISO 21527-2: 2008/ US FDA BAM-2001 (Chapter 18)	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Escherichia coli</i> (Enumeration cfu) (Detection)	IS:5887(Part -1)1976, Reaffirmed 2005	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g) Present/ Absent per x g
		Coliform (Enumeration cfu)	IS:5401 (Part-1):2002 / ISO:4832:2006/ US FDA BAM-2001 (chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Salmonella</i>	US FDA BAM-2011(chapter 5), IS:5887(Part -3)1999 / ISO:6579:2002	Present/Absent per x g

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	Vegetable & Vegetable Products	<i>Shigella</i>	IS:5887 (Part -7) 1999,	Present/Absent per x g
		<i>Listeria</i> Spp./ <i>Listeria</i> monocytogens (Enumeration)	ISO:11290 Part-2:2004/ USFDA BAM (Chapter-10):2011	1 – 150 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Listeria</i> Spp./ <i>Listeria</i> monocytogens (Detection)	IS: 14988 Part-2:2001 ISO:11290 Part-1 :2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-1:2001	Present/Absent per x g
		<i>Enterobacteriaceae</i> (Enumeration cfu)	ISO:21528 (II):2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g) 0.3 to 110 MPN/g Present /Absent per x g
12.	Gelatin & Other Gums	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g)
		Yeast & Mould	IS:5403:1999/ ISO:21527-1 : 2008/ ISO 21527-2: 2008/ US FDA BAM-2001 (Chapter 18)	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Escherichia coli</i> (Enumeration cfu) (Detection)	IS:5887(Part -1)1976, Reaffirmed 2005	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g) Present/ Absent per x g

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	Gelatin & Other Gums	Coliform (Enumeration cfu)	IS:5401 (Part-1):2002 / ISO:4832:2006/ US FDA BAM-2001 (chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Salmonella</i>	US FDA BAM-2011(chapter 5), IS:5887(Part -3)1999 / ISO:6579:2002	Present/Absent per x g
13.	Herbs, Spices & Condiments	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g)
		Yeast & Mould	IS:5403:1999/ ISO:21527-1 : 2008/ ISO 21527-2: 2008/ US FDA BAM-2001 (Chapter 18)	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Escherichia coli</i> (Enumeration cfu) (Detection)	IS:5887(Part -1)1976, Reaffirmed 2005	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g) Present/ Absent per x g
		Coliform (Enumeration cfu)	IS:5401 (Part-1):2002 / ISO:4832:2006/ US FDA BAM-2001 (chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g)

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	Herbs, Spices & Condiments	<i>Staphylococcus aureus</i> (Enumeration cfu)	IS:5887(Part -2)1976 Reaffirmed 2005/ IS: 5587 (Part -VIII):2002 / ISO: 6888:1:1999/ US FDA BAM-2001 (chapter 12)	1 to 200 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Salmonella</i>	US FDA BAM-2011 (chapter 5), IS:5887(P-3)1999 / ISO:6579:2012	Present/Absent per x g
		<i>Shigella</i>	IS:5887 (Part -7) 1999	Present/Absent per x g
		<i>Listeria monocytogens</i> (enumeration) <i>Listeria</i> Spp./ <i>Listeria monocytogens</i> (Detection)	ISO:11290 Part-2:2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-2:2001 ISO:11290 Part-1 :2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-1:2001	1 – 150 cfu per plate multiplied by dilution factor (cfu/g) Present/Absent per x g
		<i>Enterobacteriaceae</i> (Enumeration cfu)	ISO:21528 (II):2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g) 0.3 to 110 MPN/g Present /Absent per x g
		Sulphite reducing anaerobic clostridia /spores	ISO:15213:2003	1 - 150cfu/Plate multiplied by dilution factor (cfu/g)

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14.	Honey & Honey Products	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2003/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g)
		Yeast & Mould	IS:5403:1999/ ISO:21527-1 : 2008/ ISO 21527-2: 2008/ US FDA BAM-2001 (Chapter 18)	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g)
		Sulphite reducing anaerobic clostridia /spores	ISO:15213:2003	1 – 150 cfu/Plate multiplied by dilution factor (cfu/g)
15.	Infant Foods	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g or ml)
		Yeast & Mould	IS:5403:1999/ ISO:21527-1 : 2008/ / ISO 21527-2: 2008/ US FDA BAM-2001 (Chapter 18)	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		<i>Escherichia coli</i> (Enumeration cfu)	IS:5887(Part -1)1976, Reaffirmed 2005	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		<i>Escherichia coli</i> (MPN)	US FDA BAM-2001 (chapter 4) IS:5887(Part -1)1976, Reaffirmed 2005, ISO:7251:2005	3 to 1100 MPN/g 0.3 to 110 MPN/g Present/ Absent per x g

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Infant Foods	Coliform (Enumeration cfu)		IS:5401 (Part-1):2002 / ISO:4832:2006/ US FDA BAM-2001 (chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g or ml)
	Coliform (Enumeration MPN)		IS:5401 Part-2:2012 / ISO:4831:2006 US FDA BAM-2001 (chapter : 4)	0.3 to 110 MPN/g Present / Absent per X g 3 to 1100 MPN/g
	<i>Staphylococcus aureus</i> (Enumeration cfu)		IS:5887(Part -2)1976 Reaffirmed 2005/, IS: 5587 (Part -VIII):2002 / ISO: 6888:1/ US FDA BAM-2001(chapter 12)	1 to 200 cfu per plate multiplied by dilution factor (cfu/g or ml)
	<i>Salmonella</i>		US FDA BAM-2011(chapter 5), IS:5887(Part -3)1999 / ISO:6579:2002	Present/Absent per x g
	<i>Shigella</i>		IS:5887 (Part -7) 1999	Present/Absent per x g
	Lactic Acid Bacteria		ISO:15214:1998	1 - 300cfu per plate multiplied by dilution factor (cfu/g or ml)
	<i>Listeria monocytogens</i> (Enumeration) <i>Listeria</i> Spp./ <i>Listeria monocytogens</i> (Detection)		ISO:11290 Part-2:2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-2:2001 ISO:11290 Part-1 :2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-1:2001	1 – 150 cfu per plate multiplied by dilution factor (cfu/g or ml) Present/Absent per x g

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	Infant Foods	<i>Bacillus cereus</i>	IS:5887 (Part-VI):2012/ ISO:7932:2004/ US FDA BAM (Chapter 14):2012	1 – 150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		<i>Enterobacteriaceae</i> (Enumeration cfu)	ISO:21528 (II):2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g or ml) 0.3 to 110 MPN/g Present /Absent per x g
		Sulphite reducing anaerobic clostridia /spores	ISO:15213:2003	1 - 150cfu/Plate multiplied by dilution factor (cfu/g or ml)
		Accelerated Storage Test	IS:1166: 1986	Paases/ Fails the test
		<i>Enterobacter sakazaakii</i> (<i>C.mutyjensil</i>)	ISO/TS 22964:2006	Present/Absent per x g
16.	Jams, Juices, Sauces & Concentrates	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g)
		Yeast & Mould	IS:5403:1999/ ISO:21527-1 : 2008/ ISO 21527-2: 2008/ US FDA BAM-2001 (Chapter 18)	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Escherichia coli</i> (Enumeration cfu)	IS:5887(Part -1)1976, Reaffirmed 2005	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g)

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	Jams, Juices, Sauces & Concentrates	<i>Escherichia coli</i> (MPN)	US FDA BAM-2001 (chapter 4) IS:5887(Part -1)1976, Reaffirmed 2005, ISO:7251:2005	3 to 1100 MPN/g Present/ Absent per x g 0.3 to 110 MPN/g
		Coliform (Enumeration cfu)	IS:5401 (Part-1):2002 / ISO:4832:2006/ US FDA BAM-2001 (chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g)
		Coliform (Enumeration MPN)	IS:5401 Part-2:2012 / ISO:4831:2006 US FDA BAM-2001 (chapter : 4)	0.3 to 110 MPN/g Present or Absent per X g 3 to 1100 MPN/g
		<i>Salmonella</i>	US FDA BAM-2011(chapter 5), IS:5887(Part -3)1999 / ISO:6579:2002	Present/Absent per x g
		<i>Shigella</i>	IS:5887 (Part -7) 1999,	Present/Absent per x g
		<i>Listeria monocytogens</i> (enumeration) <i>Listeria</i> Spp./ <i>Listeria</i> <i>monocytogens</i> (Detection)	ISO:11290 Part2:2004/ IS: 14988 Part-2:2001 ISO:11290 Part-1 :2004/ US FDA BAM (Chapter-10)/ IS: 14988 Part-1:2001	1 – 150 cfu per plate multiplied by dilution factor (cfu/g) Present/Absent per x g
		<i>Bacillus cereus</i> (Aerobic Spore Formers)	IS:5887 (Part-VI):2012/ ISO:7932:2004/ US FDA BAM (Chapter 14):2012	1 – 150 cfu per plate multiplied by dilution factor (cfu/g)

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	Jams, Juices, Sauces & Concentrates	<i>Enterobacteriaceae</i> (Enumeration cfu)	ISO:21528 (II):2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g) 0.3 to 110 MPN/g Present /Absent per x g
		<i>Clostridium perferingens</i>	ISO: 7937:2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g)
		Sulphite reducing anaerobic clostridia /spores	ISO:15213:2003	1 - 150cfu/Plate multiplied by dilution factor (cfu/g)
		Flat sour organisms	Compendiumfor the methods of food microbiology (APHA)	1 - 150cfu/Plate multiplied by dilution factor (cfu/ml)
		Incubation test	IS:2860:1964	Passes/Fails the test
17.	Meat & Meat Products			
a.	Canned Corned Beef, Canned luncheon meat, Canned Cooked Ham, Canned Chicken, Canned Mutton and Goat Meat	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g)
		Enumeration of Yeasts and Moulds	IS 14920 : 2001 / ISO 13681 : 1995	1 - 150cfu per Plate multiplied by dilution factor (cfu/g)
		<i>Escherichia coli</i> (Enumeration cfu)	IS:5887(Part -1)1976, Reaffirmed 2005	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g)

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	Canned Corned Beef, Canned luncheon meat, Canned Cooked Ham, Canned Chicken, Canned Mutton and Goat Meat	Coliform (Enumeration cfu)	IS:5401 (Part-1):2002 / ISO:4832:2006	1 – 250 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Staphylococcus aureus</i> (Enumeration cfu)	IS:5887(Part -2)1976 Reaffirmed 2005/, IS: 5587 (Part -VIII):2002 / ISO: 6888:1/ US FDA BAM-2001(chapter 12)	1 to 200 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Salmonella</i>	US FDA BAM-2011(chapter 5), IS:5887(Part -3)1999 / ISO:6579:2002	Present/Absent per x g
		<i>Shigella</i>	IS:5887 (Part -7) 1999	Present/Absent per x g
		<i>Listeria monocytogens</i> (enumeration) <i>Listeria</i> Spp./ <i>Listeria monocytogens</i> (Detection)	ISO:11290 Part2:2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-2:2001 ISO:11290 Part-1 :2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-1:2001	1 – 150 cfu per plate multiplied by dilution factor (cfu/g) Present/Absent per x g
		<i>Enterobacteriaceae</i> (Enumeration cfu)	ISO:21528 (II):2004	1 - 150cfu per Plate multiplied by dilution factor (cfu/g) 0.3 to 110 MPN/g Present /Absent per x g

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b.	Canned Corned Beef, Canned luncheon meat, Canned Cooked Ham, Canned Chicken, Canned Mutton and Goat Meat	<i>Clostridium perferingens</i>	ISO: 7937:2004	1 - 150cfu per Plate multiplied by dilution factor (cfu/g)
		Sulphite reducing anaerobic clostridia /spores	ISO:15213:2003	1 - 150cfu/Plate multiplied by dilution factor (cfu/g)
		Incubation test	IS:3044:1973/ US FDA BAM Chapter 21 A	Passes the test
	Frozen Mutton, Chicken, Goat & Buffalo Meat	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g)
		Enumeration of Yeasts and Moulds	IS 14920 : 2001 / ISO 13681 : 1995	1 - 150cfu per Plate multiplied by dilution factor (cfu/g)
		<i>Escherichia coli</i> (Enumeration cfu)	IS:5887(P-1)1976, Reaffirmed 2005	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g)
		Coliform(Enumeration cfu)	IS:5401 (Part-1):2002 / ISO:4832:2006/ US FDA BAM-2001 (chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Staphylococcus aureus</i> (Enumeration cfu)	IS:5887(P-2)1976 Reaffirmed 2005/ IS: 5587 (P-VIII):2002 / ISO: 6888:1/ US FDA BAM-2001 (chapter 12)	1 to 200 cfu per plate multiplied by dilution factor (cfu/g)

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	Frozen Mutton, Chicken, Goat & Buffalo Meat	<i>Salmonella</i>	US FDA BAM-2011(chapter 5), IS:5887(P-3)1999 / ISO:6579:2002	Present/Absent per x g
		<i>Shigella</i>	IS:5887 (Part -7) 1999	Present/Absent per x g
		<i>Listeria monocytogens</i> (Enumeration)	ISO:11290 Part2:2004/ US FDA BAM (Chapter-10):2011/	1 – 150 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Listeria Spp./ Listeria monocytogens</i> (Detection)	IS: 14988 Part-2:2001 ISO:11290 Part-1 :2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-1:2001	Present/Absent per x g
		<i>Enterobacteriaceae</i> (Enumeration cfu)	ISO:21528 (II):2004	1 - 150cfu per Plate multiplied by dilution factor (cfu/g)0.3 to 110 MPN/g Present /Absent per x g
		<i>Clostridium perferingens</i>	ISO: 7937:2004	1 - 150cfu per Plate multiplied by dilution factor (cfu/g)
		Sulphite reducing anaerobic clostridia /spores	ISO:15213:2003	1 - 150cfu/Plate multiplied by dilution factor (cfu/g)
		Incubation test	IS:3044:1973/ US FDA BAM Chapter 21 A	Passes the test

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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
18.	Milk & Dairy Products			
a.	Milk	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g or ml)
		Yeast & Mould	IS:5403:1999/ ISO:21527-1 : 2008/ ISO 21527-2: 2008/ US FDA BAM-2001 (Chapter 18)	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		<i>Escherichia coli</i> (Enumeration cfu)	IS:5887(Part -1)1976, Reaffirmed 2005	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g or ml) Present/ Absent per x g
		Coliform (Enumeration cfu)	IS:5401 (Part-1):2002 / ISO:4832:2006/ US FDA BAM-2001 (chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g or ml) Present / Absent per X g
		<i>Staphylococcus aureus</i> (Enumeration cfu)	IS:5887(Part -2)1976 Reaffirmed 2005/ IS: 5587 (Part -VIII):2002 / ISO: 6888:1/ US FDA BAM-2001(chapter 12)	1 to 200 cfu per plate multiplied by dilution factor (cfu/g or ml)
		<i>Salmonella</i>	US FDA BAM-2011(chapter 5), IS:5887(Part -3)1999 / ISO:6579:2002	Present/Absent per x g
		<i>Shigella</i>	IS:5887 (Part -7) 1999	Present/Absent per x g

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	Milk	Lactic Acid Bacteria	ISO:15214:1998	1 - 300cfu per plate multiplied by dilution factor (cfu/g or ml)
		<i>Listeria monocytogens</i> (Enumeration) <i>Listeria</i> Spp./ <i>Listeria monocytogens</i> (Detection)	ISO:11290 Part2:2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-2:2001 ISO:11290 Part1 :2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-1:2001	1 – 150 cfu per plate multiplied by dilution factor (cfu/g or ml) Present/Absent per x g
		<i>Bacillus cereus</i>	IS:5887 (Part-VI):2012/ ISO:7932:2004/ US FDA BAM (Chapter 14):2012	1 – 150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		<i>Faecal streptococci</i>	IS:5887 (Part II):1976	1 to 150 per plate(cfu/g) 0.3 to 110 MPN/g
		<i>Enterobacteriaceae</i> (Enumeration cfu)	ISO:21528 (II):2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g or ml) 0.3 to 110 MPN/g Present /Absent per x g
		<i>Clostridium perferingens</i>	ISO: 7937:2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g or ml)

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	Milk	Sulphite reducing anaerobic clostridia /spores	ISO:15213:2003	1 - 150cfu/Plate multiplied by dilution factor (cfu/g or ml)
		Accelerated Storage Test	IS:1166: 1986	Passes/ Fails the test
		<i>Enterobacter sakazaakii</i>	ISO/TS 22964:2006	Present/Absent per x g
		Lipolytic microorganisms	APHA 4 th edition Chapter 15	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		Proteolytic microorganisms	APHA 4 th edition Chapter 16	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		Anaerobic Spore Count	APHA Dairy 17th edition	1 (Absent) cfu to 250 cfu per plate multiplied by dilution factor (cfu/g)
		Anerobic Plate count	APHA Dairy 17th edition	1 (Absent) cfu to 250 cfu per plate multiplied by dilution factor (cfu/g)
		Thermophillic Plate count	APHA Dairy 17th edition	1 (Absent) cfu to 250 cfu per plate multiplied by dilution factor (cfu/g)
		Thermophillic Anaerobic Plate count	APHA Dairy 17th edition	1 (Absent) cfu to 250 cfu per plate multiplied by dilution factor (cfu/g)

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b.	Cheese, Chenna or Paneer, Chakka shrikhand, Edible casein products	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g or ml)
		Yeast & Mould	IS:5403:1999/ ISO:21527-1 : 2008/ ISO 21527-2: 2008/ US FDA BAM-2001 (Chapter 18)	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		<i>Escherichia coli</i> (Enumeration cfu)	IS:5887(Part -1)1976, Reaffirmed 2005	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		Coliform (Enumeration cfu)	IS:5401 (Part-1):2002 / ISO:4832:2006/ US FDA BAM-2001 (chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g or ml)
		<i>Staphylococcus aureus</i> (Enumeration cfu)	IS:5887(Part -2)1976 Reaffirmed 2005/ IS: 5587 (Part -VIII):2002 / ISO: 6888:1/ US FDA BAM-2001(chapter 12)	1 to 200 cfu per plate multiplied by dilution factor (cfu/g or ml)
		<i>Salmonella</i>	US FDA BAM-2011(chapter 5), IS:5887(Part -3)1999 / ISO:6579:2002	Present/Absent per x g
		<i>Shigella</i>	IS:5887 (Part -7) 1999	Present/Absent per x g
		Lactic Acid Bacteria	ISO:15214:1998	1 - 300cfu per plate multiplied by dilution factor (cfu/g or ml)

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	Cheese, Chenna or Paneer, Chakka shrikhand, Edible casein products	<i>Listeria monocytogens</i> (Enumeration)	ISO:11290 Part-2:2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-2:2001	1 – 150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		<i>Listeria Spp./ Listeria monocytogens</i> (Detection)	ISO:11290 Part-1 :2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-1:2001	Present/Absent per x g
		<i>Bacillus cereus</i>	IS:5887 (PartVI):2012/ ISO:7932:2004/ US FDA BAM (Chapter 14):2012	1 – 150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		<i>Faecal streptococci</i>	IS:5887 (Part II):1976	1 to 150 per plate(cfu/g) 0.3 to 110 MPN/g
		<i>Enterobacteriaceae</i> (enumeration cfu)	ISO:21528 (II):2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g or ml) 0.3 to 110 MPN/g Present /Absent per x g
		<i>Clostridium perferingens</i>	ISO: 7937:2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g or ml)
		Sulphite reducing anaerobic clostridia /spores	ISO:15213:2003	1 - 150cfu/Plate multiplied by dilution factor (cfu/g or ml)
		Accelerated Storage Test	IS:1166: 1986	Paases/ Fails the test

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	Cheese, Chenna or Paneer, Chakka shrikhand, Edible casein products	<i>Enterobacter sakazaakii</i>	ISO/TS 22964:2006	Present/Absent per x g
		Lipolytic microorganisms	APHA 4 th edition Chapter 15	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		Proteolytic microorganisms	APHA 4 th edition Chapter 16	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		Anaerobic Spore Count	APHA Dairy 17th edition	1 (Absent) cfu to 250 cfu per plate multiplied by dilution factor (cfu/g)
		Anerobic Plate count	APHA Dairy 17th edition	1 (Absent) cfu to 250 cfu per plate multiplied by dilution factor (cfu/g)
		Thermophillic Plate count	APHA Dairy 17th edition	1 (Absent) cfu to 250 cfu per plate multiplied by dilution factor (cfu/g)
		Thermophillic Anaerobic Plate count	APHA Dairy 17th edition	1 (Absent) cfu to 250 cfu per plate multiplied by dilution factor (cfu/g)
c.	Dairy Based Desserts/ Confections	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g or ml)

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	Dairy Based Desserts/ Confections	Yeast & Mould	IS:5403:1999/ ISO:21527-1 : 2008/ ISO 21527-2: 2008/ US FDA BAM-2001 (Chapter 18)	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		<i>Escherichia coli</i> (Enumeration cfu)	IS:5887(Part -1)1976, Reaffirmed 2005	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		Coliform (Enumeration cfu)	IS:5401 (Part-1):2002 / ISO:4832:2006/ US FDA BAM-2001 (chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g or ml)
		<i>Staphylococcus aureus</i> (Enumeration cfu)	IS:5887(Part -2)1976 Reaffirmed 2005/ IS: 5587 (Part -VIII):2002 / ISO: 6888:1/US FDA BAM-2001 (chapter 12)	1 to 200 cfu per plate multiplied by dilution factor (cfu/g or ml)
		<i>Salmonella</i>	US FDA BAM-2011(chapter 5), IS:5887(Part -3)1999 / ISO:6579:2002	Present/Absent per x g
		<i>Shigella</i>	IS:5887 (Part -7) 1999	Present/Absent per x g
		Lactic Acid Bacteria	ISO:15214:1998	1 - 300cfu per plate multiplied by dilution factor (cfu/g or ml)
		<i>Listeria monocytogens</i> (Enumeration)	ISO:11290 Part2:2004/ US FDA BAM	1 – 150 cfu per plate multiplied by dilution

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	Dairy Based Desserts/ Confections	<i>Listeria</i> Spp./ <i>Listeria monocytogens</i> (Detection)	(Chapter-10):2011/ IS: 14988 Part-2:2001 ISO:11290 Part-1 :2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-1:2001	factor (cfu/g or ml) Present/Absent per x g
		<i>Bacillus cereus</i>	IS:5887 (Part-VI):2012/ ISO:7932:2004/ US FDA BAM (Chapter 14):2012	1 – 150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		<i>Faecal streptococci</i>	IS:5887 (Part- II):1976	1 to 150 per plate(cfu/g) 0.3 to 110 MPN/g
		<i>Enterobacteriaceae</i> (enumeration cfu)	ISO:21528 (II):2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g or ml) 0.3 to 110 MPN/g Present /Absent per x g
		<i>Clostridium perferingens</i>	ISO: 7937:2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g or ml)
		Sulphite reducing anaerobic clostridia /spores	ISO:15213:2003	1 - 150cfu/Plate multiplied by dilution factor (cfu/g or ml)
		Accelerated Storage Test	IS:1166: 1986	Paases/ Fails the test
		<i>Enterobacter sakazaakii</i>	ISO/TS 22964:2006	Present/Absent per x g

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	Dairy Based Desserts/ Confections	Lipolytic microorganisms	APHA 4 th edition Chapter 15	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		Proteolytic microorganisms	APHA 4 th edition Chapter 16	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		Anaerobic Spore Count	APHA Dairy 17th edition	1 (Absent) cfu to 250 cfu per plate multiplied by dilution factor (cfu/g)
		Anerobic Plate count	APHA Dairy 17th edition	1 (Absent) cfu to 250 cfu per plate multiplied by dilution factor (cfu/g)
		Thermophillic Plate count	APHA Dairy 17th edition	1 (Absent) cfu to 250 cfu per plate multiplied by dilution factor (cfu/g)
		Thermophillic Anaerobic Plate count	APHA Dairy 17th edition	1 (Absent) cfu to 250 cfu per plate multiplied by dilution factor (cfu/g)
d.	Skimmed Milk Powder/ Whole Milk Powder/ Ice-Cream Mix Powder	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g or ml)
		Yeast & Mould	IS:5403:1999/ ISO:21527-1 : 2008/ ISO 21527-2: 2008/ US FDA BAM-2001 (Chapter 18)	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g or ml)

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	Skimmed Milk Powder/ Whole Milk Powder/ Ice-Cream Mix Powder	<i>Escherichia coli</i> (Enumeration cfu)	IS:5887(Part -1)1976, Reaffirmed 2005	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		Coliform (Enumeration cfu)	IS:5401 (Part-1):2002 / ISO:4832:2006/ US FDA BAM-2001 (chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g or ml)
		<i>Staphylococcus aureus</i> (Enumeration cfu)	IS:5887(Part -2)1976 Reaffirmed 2005/, IS: 5587 (P-VIII):2002 / ISO: 6888:1 US FDA BAM-2001 (chapter 12)	1 to 150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		<i>Salmonella</i>	US FDA BAM-2011(chapter 5), IS:5887(Part -3)1999 / ISO:6579:2002	1 to 200 cfu per plate multiplied by dilution factor (cfu/g or ml)
		<i>Shigella</i>	IS:5887 (Part -7) 1999	Present/Absent per x g
		Lactic Acid Bacteria	ISO:15214:1998	Present/Absent per x g
		<i>Listeria monocytogens</i> (Enumeration)	ISO:11290 Part2:2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-2:2001	1 - 300cfu per plate multiplied by dilution factor (cfu/g or ml)
		<i>Listeria</i> Spp./ <i>Listeria monocytogens</i> (Detection)	ISO:11290 Part-1 :2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-1:2001	Present/Absent per x g

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	Skimmed Milk Powder/ Whole Milk Powder/ Ice-Cream Mix Powder	<i>Bacillus cereus</i>	IS:5887 (Part-VI):2012/ ISO:7932:2004/ US FDA BAM (Chapter 14):2012	1 – 150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		<i>Faecal streptococci</i>	IS:5887 (Part- II):1976	1 to 150 per plate(cfu/g) 0.3 to 110 MPN/g
		<i>Enterobacteriaceae</i> (Enumeration cfu)	ISO:21528 (II):2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g or ml) 0.3 to 110 MPN/g Present /Absent per x g
		<i>Clostridium perferingens</i>	ISO: 7937:2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g or ml)
		Sulphite reducing anaerobic clostridia /spores	ISO:15213:2003	1 - 150cfu/Plate multiplied by dilution factor (cfu/g or ml)
		Accelerated Storage Test	IS:1166: 1986	Paases/ Fails the test
		Flat sour organisms	Compendium for the methods of food microbiology (APHA)	1 - 150cfu multiplied by dilution factor (cfu/g or ml)
		Enterobacter sakazaakii	ISO/TS 22964:2006	Present/Absent per x g

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	Skimmed Milk Powder/ Whole Milk Powder/ Ice-Cream Mix Powder	Lipolytic microorganisms	APHA 4 th edition Chapter 15	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		Proteolytic microorganisms	APHA 4 th edition Chapter 16	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		Anaerobic Spore Count	APHA Dairy 17th edition	1 (Absent) cfu to 250 cfu per plate multiplied by dilution factor (cfu/g)
		Anerobic Plate count	APHA Dairy 17th edition	1 (Absent) cfu to 250 cfu per plate multiplied by dilution factor (cfu/g)
		Thermophillic Plate count	APHA Dairy 17th edition	1 (Absent) cfu to 250 cfu per plate multiplied by dilution factor (cfu/g)
		Thermophillic Anaerobic Plate count	APHA Dairy 17th edition	1 (Absent) cfu to 250 cfu per plate multiplied by dilution factor (cfu/g)
e.	Evaporated Condensed Milk	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g or ml)
		Yeast & Mould	IS:5403:1999/ ISO:21527-1 : 2008/ / ISO 21527-2: 2008/ US FDA BAM-2001 (Chapter 18)	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g or ml)

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	Evaporated Condensed Milk	<i>Escherichia coli</i> (Enumeration cfu)	IS:5887(Part-1)1976, Reaffirmed 2005	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		Coliform (Enumeration cfu)	IS:5401 (Part-1):2002 / ISO:4832:2006/ US FDA BAM-2001 (chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g or ml)
		Coliform(Enumeration MPN)	IS:5401 Part-2:2012 / ISO:4831:2006 US FDA BAM-2001 (chapter : 4)	Present / Absent per X g 0.3 to 110 MPN/g 3 to 1100 MPN/g
		<i>Staphylococcus aureus</i> (Enumeration cfu)	IS:5887(Part -2)1976 Reaffirmed 2005/, IS: 5587 (Part -VIII):2002 / ISO: 6888:1/US FDA BAM-2001(chapter 12)	1 to 200 cfu per plate multiplied by dilution factor (cfu/g or ml)
		<i>Salmonella</i>	US FDA BAM-2011(chapter 5), IS:5887(P-3)1999 / ISO:6579:2002	Present/Absent per x g
		<i>Shigella</i>	IS:5887 (Part -7) 1999	Present/Absent per x g
		Lactic Acid Bacteria	ISO:15214:1998	1 - 300cfu per plate multiplied by dilution factor (cfu/g or ml)

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	Evaporated Condensed Milk	<i>Listeria monocytogens</i> (Enumeration) <i>Listeria</i> Spp./ <i>Listeria monocytogens</i> (Detection)	ISO:11290 Part-2:2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-2:2001 ISO:11290 Part-1 :2004/ US FDA BAM (Chapter-10):2011/ IS: 14988 Part-1:2001	1 – 150 cfu per plate multiplied by dilution factor (cfu/g or ml) Present/Absent per x g
		<i>Bacillus cereus</i>	IS:5887 (Part-VI):2012/ ISO:7932:2004/ US FDA BAM (Chapter 14):2012	1 – 150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		<i>Faecal streptococci</i>	IS:5887 (Part- II):1976	1 to 150 per plate(cfu/g) 0.3 to 110 MPN/g
		<i>Enterobacteriaceae</i> (enumeration cfu)	ISO:21528 (II):2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g or ml) 0.3 to 110 MPN/g Present /Absent per x g
		<i>Clostridium perferingens</i>	ISO: 7937:2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g or ml)
		Sulphite reducing anaerobic clostridia /spores	ISO:15213:2003	1 - 150cfu/Plate multiplied by dilution factor (cfu/g or ml)
		Accelerated Storage Test	IS:1166: 1986	Pass/ Fails the test

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	Evaporated Condensed Milk	<i>Enterobacter sakazaakii</i>	ISO/TS 22964:2006	Present/Absent per x g
		Lipolytic microorganisms	APHA 4 th edition Chapter 15	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		Proteolytic microorganisms	APHA 4 th edition Chapter 16	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		Anaerobic Spore Count	APHA Dairy 17th edition	1 (Absent) cfu to 250 cfu per plate multiplied by dilution factor (cfu/g)
		Anerobic Plate count	APHA Dairy 17th edition	1 (Absent) cfu to 250 cfu per plate multiplied by dilution factor (cfu/g)
		Thermophillic Plate count	APHA Dairy 17th edition	1 (Absent) cfu to 250 cfu per plate multiplied by dilution factor (cfu/g)
		Thermophillic Anaerobic Plate count	APHA Dairy 17th edition	1 (Absent) cfu to 250 cfu per plate multiplied by dilution factor (cfu/g)
19.	Nuts & Nut Products	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g)

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	Nuts & Nut Products	Yeast & Mould	IS:5403:1999/ ISO:21527-1 : 2008/ ISO 21527-2: 2008/ US FDA BAM-2001 (Chapter 18)	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g)
		Escherichia coli (Enumeration cfu)	IS:5887(Part -1)1976, Reaffirmed 2005	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g)
		Coliform (Enumeration cfu)	IS:5401 (Part-1):2002 / ISO:4832:2006/ US FDA BAM-2001 (chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Staphylococcus aureus</i> (Enumeration cfu)	IS:5887(P-2)1976 Reaffirmed 2005/ IS: 5587 (P-VIII):2002 / ISO: 6888:1:1999 USFDA BAM-2001(chapter 12)	1 to 200 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Salmonella</i>	US FDA BAM-2011(chapter 5), IS:5887(Part -3)1999 / ISO:6579:2012	Present/Absent per x g
		<i>Shigella</i>	IS:5887 (Part -7) 1999	Present/Absent per x g
		<i>Bacillus cereus</i>	IS:5887 (Part-VI):2012/ ISO:7932:2004/ US FDA BAM (Chapter 14):2012	1 – 150 cfu per plate multiplied by dilution factor (cfu/gqw)

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	Nuts & Nut Products	<i>Enterobacteriaceae</i> (Enumeration cfu)	ISO:21528 (II):2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g) 0.3 to 110 MPN/g Present /Absent per x g
		<i>Clostridium perferingens</i>	ISO: 7937:2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g)
		Sulphite reducing anaerobic clostridia /spores	ISO:15213:2003	1 - 150cfu/Plate multiplied by dilution factor (cfu/g)
		<i>Enterobacteriaceae</i> (Enumeration cfu)	ISO:21528 (II):2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g) 0.3 to 110 MPN/g Present /Absent per x g
		<i>Clostridium perferingens</i>	ISO: 7937:2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g)
		Sulphite reducing anaerobic clostridia /spores	ISO:15213:2003	1 - 150cfu/Plate multiplied by dilution factor (cfu/g)

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20.	Poultry & Poultry Products	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g)
		Enumeration of Yeasts and Moulds	IS 14920 : 2001 / ISO 13681 : 1995	1 - 150cfu per Plate multiplied by dilution factor (cfu/g)
		<i>Escherichia coli</i> (Enumeration cfu)	IS:5887(Part -1)1976, Reaffirmed 2005 / IS 15463 : 2004 / ISO 6391 : 1997	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g)
		Coliform(Enumeration cfu)	IS:5401 (Part-1):2002 / ISO:4832:2006/ US FDA BAM-2001 (chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Staphylococcus aureus</i> (Enumeration cfu)	IS:5887(Part -2)1976 Reaffirmed 2005/ IS: 5587 (Part -VIII):2002 / ISO: 6888:1/ US FDA BAM-2001(chapter 12)	1 to 200 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Salmonella</i>	US FDA BAM-2011(chapter 5), IS:5887(Part -3)1999 / ISO:6579:2002	Present/Absent per x g
		<i>Shigella</i>	IS:5887 (Pt-7) 1999	Present/Absent per x g

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	Poultry & Poultry Products	<i>Enterobacteriaceae</i> (Enumeration cfu)	ISO:21528 (II):2004	1 - 150cfu per Plate multiplied by dilution factor (cfu/g) 0.3 to 110 MPN/g Present /Absent per x g
		<i>Clostridium perferingens</i>	ISO: 7937:2004	1 - 150cfu per Plate multiplied by dilution factor (cfu/g)
		Sulphite reducing anaerobic clostridia /spores	ISO:15213:2003	1 - 150cfu/Plate multiplied by dilution factor (cfu/g)
		Incubation test	IS:3044:1973/ US FDA BAM Chapter 21 A	Passes the test
21.	Sugar, Sugar Products & Boiled Confectionary	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g)
		Yeast & Mould	IS:5403:1999/ ISO:21527-1 : 2008/ ISO 21527-2: 2008/ US FDA BAM-2001 (Chapter 18)	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Escherichia coli</i> (Enumeration cfu)	IS:5887(Part -1)1976, Reaffirmed 2005	1 cfu to150 cfu per plate multiplied by dilution factor (cfu/g)

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	Sugar, Sugar Products & Boiled Confectionary	Coliform (Enumeration cfu)	IS:5401 (Part-1):2002 / ISO:4832:2006/ US FDA BAM-2001 (chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g)
		Coliform(Enumeration MPN)	IS:5401 Part-2:2012 / ISO:4831:2006 US FDA BAM-2001 (chapter : 4)	0.3 to 110 MPN/g Present/ Absent per X g 3 to 1100 MPN/g
		<i>Staphylococcus aureus</i> (Enumeration cfu)	IS:5887(Part -2)1976 Reaffirmed 2005/ IS: 5587 (Part -VIII):2002 / ISO: 6888:1:1999/ US FDA BAM-2001(chapter 12)	1 to 200 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Salmonella</i>	US FDA BAM-2011(chapter 5), IS:5887(P-3)1999 / ISO:6579:2012	Present/Absent per x g
		<i>Shigella</i>	IS:5887 (P-7) 1999	Present/Absent per x g
		<i>Bacillus cereus</i>	IS:5887 (Part-VI):2012/ ISO:7932:2004/ US FDA BAM (Chapter 14):2012	1to 150 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Faecal streptococci</i>	IS:5887 (Part- II):1976	1 to 150 per plate(cfu/g) 0.3 to 110 MPN/g

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	Sugar, Sugar Products & Boiled Confectionary	<i>Enterobacteriaceae</i> (Enumeration cfu)	ISO:21528 (II):2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g) 0.3 to 110 MPN/g Present /Absent per x g
		<i>Clostridium perferingens</i>	ISO: 7937:2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g)
		Sulphite reducing anaerobic clostridia /spores	ISO:15213:2003	1 - 150cfu/Plate multiplied by dilution factor (cfu/g)
		Total Mesophilic Bacterial count	ICUMSA GS2/3-41	1 cfu to 200 cfu per plate multiplied by dilution factor (cfu/g or ml)
		Yeast & Mold count	ICUMSA GS2/3-47	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		Yeast & Mold count by Filtration Method	ICUMSA GS2/3-47	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g or ml)
		Thermophilic spore-forming Bacteria count by pour plate method	ICUMSA GS2/3-49	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g or ml)

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	Sugar, Sugar Products & Boiled Confectionary	Thermophilic spore-forming Bacteria count by Filtration method	ICUMSA GS2/3-49	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g or ml)
22.	Snacks & Instant Mixes	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g)
		Yeast & Mould	IS:5403:1999/ ISO:21527-1 : 2008/ ISO 21527-2: 2008	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g)
			US FDA BAM-2001 (Chapter 18)	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Escherichia coli</i> (Enumeration cfu)	IS:5887(P-1)1976, Reaffirmed 2005	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g)
		Coliform (Enumeration cfu)	IS:5401 (Part-1):2002 / ISO:4832:2006/ US FDA BAM-2001 (chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Staphylococcus aureus</i> (Enumeration cfu)	IS:5887(Part -2)1976 Reaffirmed 2005/ IS: 5587 (Part -VIII):2002 / ISO: 6888:1:1999 US FDA BAM-2001(chapter 12)	1 to 150 cfu per plate multiplied by dilution factor (cfu/g) 1 to 200 cfu per plate multiplied by dilution factor (cfu/g)

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	Snacks & Instant Mixes	<i>Salmonella</i>	US FDA BAM-2011(chapter 5), IS:5887(Part -3)1999 / ISO:6579:2002	Present/Absent per x g
		<i>Shigella</i>	IS:5887 (Part -7) 1999,	Present/Absent per x g
		<i>Faecal streptococci</i>	IS:5887 (Part II):1976	1 to 150 per plate(cfu/g) 0.3 to 110 MPN/g
		<i>Enterobacteriaceae</i> (Enumeration cfu)	ISO:21528 (II):2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g) 0.3 to 110 MPN/g Present /Absent per x g
		<i>Clostridium perferingens</i>	ISO: 7937:2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g)
23.	Tea			
a.	Tea, Herbal Tea & Instant Tea	Total Plate Count	IS : 5402 :2012 / ISO: 4833 :2013/ US FDA BAM-2001 (Chapter 3)	1 cfu to 300 cfu per plate multiplied by dilution factor (cfu/g)
		Yeast & Mould	IS:5403:1999/ ISO:21527-1 : 2008/ ISO 21527-2: 2008	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g)
			US FDA BAM-2001 (Chapter 18)	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g)

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	Tea, Herbal Tea & Instant Tea	<i>Escherichia coli</i> (Enumeration cfu)	IS:5887(P-1)1976, Reaffirmed 2005	1 cfu to 150 cfu per plate multiplied by dilution factor (cfu/g)
		Coliform(Enumeration cfu)	IS:5401 (Part-1):2002 / ISO:4832/ US FDA BAM-2001 (chapter : 4)	1 – 250 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Staphylococcus aureus</i> (Enumeration cfu)	IS:5887(Part -2)1976 Reaffirmed 2005/, IS: 5587 (Part -VIII):2002 / ISO: 6888:1:1999/ US FDA BAM-2001(chapter 12)	1 to 200 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Salmonella</i>	US FDA BAM-2011(chapter 5), IS:5887(Part -3)1999 / ISO:6579:2002	Present/Absent per x g
		<i>Shigella</i>	IS:5887 (Part -7) 1999	Present/Absent per x g
		<i>Bacillus cereus</i>	IS:5887 (Part VI):2012/ USFDA BAM (Chapter 14):2012 /ISO:7932:2004	1 – 150 cfu per plate multiplied by dilution factor (cfu/g)
		<i>Faecal streptococci</i>	IS:5887 (Part-II):1976	1 to 150 per plate(cfu/g) 0.3 to 110 MPN/g
		<i>Enterobacteriaceae</i> (Enumeration cfu)	ISO:21528 (II):2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g) 0.3 to 110 MPN/g Present /Absent per x g

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	Tea, Herbal Tea & Instant Tea	<i>Clostridium perferingens</i>	ISO: 7937:2004	1 - 150cfu/Plate multiplied by dilution factor (cfu/g)
		Sulphite reducing anaerobic clostridia /spores	ISO:15213:2003	1 - 150cfu/Plate multiplied by dilution factor (cfu/g)
		H.R.M (Heat Resistance Microbes)	SO-GUML-MICRO-QU-029	Present/Absent per x g
II.	WATER			
1.	Packaged Natural Mineral Water & Packaged Drinking Water	Aerobic microbial count (37)	IS:5402:2002	1 cfu to 300 cfu per plate multiplied by the dilution (cfu/ml)
		Aerobic microbial count (22)	IS:5402:2002	1 cfu to 300 cfu per plate multiplied by the dilution (cfu/ml)
		<i>Escherichia coli</i>	IS: 5887 (Part-1):1976 Reaffirmed 2005 IS: 15185:2002/ ISO:9308-1:2000	Present/Absent per 250 ml or per volume filtered
		Coliform	IS: 15185: 2002 / ISO:9308-1:2000 IS:5401I (Part-1):2002	Present/Absent per 250 ml or per volume filtered

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	Packaged Natural Mineral Water & Packaged Drinking Water	<i>Faecal Streptococci</i>	IS : 15186: 2002 (Reaffirmed 2007) / ISO 7899 -2:2000	Present/Absent per 250 ml or per volume filtered
			IS:5887 (II):1976 (Reaffirmed 2005)	
		<i>S. aureus</i>	IS:5887 (II):1976 (Reaffirmed 2005) / IS:5887 Part-8 :2002	Present/Absent per 250 ml or per volume filtered
		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 or per volume filtered
		Yeast & mould	IS :5403-1999 (Reaffirmed 2005)	Present/Absent per 250 ml or per volume filtered
		<i>Salmonella</i>	IS : 5887 PART -3:1999 (Reaffirmed 2005) IS: 15187:2002/ ISO 6340:1995	Present/Absent per 250 ml or per volume filtered
		<i>Shigella</i>	IS : 5887 PART -7:1999	Present/Absent per 250 ml or per volume filtered
		<i>Vibrio cholera</i>	IS : 5887 PART -5:1976, Reaffirmed 2005 / APHA :22nd edition	Present/Absent per 250 ml or per volume filtered

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	Packaged Natural Mineral Water & Packaged Drinking Water	<i>V. parahaemolyticus</i>	IS : 5887 Part -5:1976, Reaffirmed 2005	Present/Absent per 250 ml or per volume filtered
2.	Drinking Water Ground Water Surface Water, Water For Processed Food Industry Water For Swimming Pool & Spas	Aerobic microbial count/ Standard Plate count/ Total plate count/ Heterotrophic plate count/Total Plate Count(37)	IS: 1622:1981, Reaffirmed 2003/ APHA :22nd edition/ ISO 6222:1999/ ISO 4833:2003, IS:3328:1993/ IS:5402:2002	1-300 cfu per plate multiplied by the dilution (cfu/ml)
		Total Plate Count(22)	IS:5402:2002	1 cfu to 300 cfu per plate multiplied by the dilution (cfu/ml)
		Coliform/ Total Coliform	IS:1622:1981, Reaffirmed 2003	1 to 161 MPN/100 ml
			APHA :22nd edition (9221:B)	1.8 to1600 MPN/100ml
		Coliform (MFT)	APHA :22nd edition(9222:B)/ IS:1622:1981, Reaffirmed 2003	1(Absent) to 200 cfu per plate per volum filtered (cfu per volum filtered)
		Coliform (Enumeration by pour plate)	IS:5401 Part-1:2002	1 (Absent) to 300 cfu per plate multiplied by the dilution factor (cfu/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
	Drinking Water Ground Water Surface Water, Water For Processed Food Industry Water For Swimming Pool & Spas	Faecal Coliform	IS:1622:1981, Reaffirmed 2003 APHA :22nd edition (9221:E)	1(Absent/ Not detected) to 161 MPN/100 ml 1.8 to1600 MPN/100 ml
		Faecal Coliform (MFT)	APHA :22nd edition (9222 D)/ IS:1622:1981 , Reaffirmed 2003	1 (Absent/ Not detected) to 200 cfu/ volum filtered
		<i>E. coli</i>	IS:1622:1981, Reaffirmed 2003 APHA :22nd edition (9221 F)	1 (Absent/ Not Detected) to 161 MPN/100 ml 1.8 to1600 MPN/100 ml
		<i>E. coli</i> (MFT)	APHA :22nd edition (9222 H)/ IS:1622:1981, Reaffirmed 2003/ IS: 15185:2002/ ISO:9308-1:2000	1(Absent) to 200 cfu/ volume filtered
		<i>E. coli</i> (Enumeration by spread plate method)	IS:5887 Part-1:1976, Reaffirmed 2005	1 (Absent) to 150 cfu per ml multiplied by the dilution factor
		Proteolytic count	IS:4251: 1967; Reaffirmed 1992	1-300 cfu /ml multiplied by the dilution
		Lipolytic count	IS:4251: 1967; Reaffirmed 1992	1-300cfu/ ml multiplied by the dilution
		Thermophillic bacteria count	IS:4251:1967 Reaffirmed 1992	1-300 cfu /ml multiplied by the dilution

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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
	Drinking Water Ground Water Surface Water, Water For Processed Food Industry Water For Swimming Pool & Spas	<i>Faecal Streptococci/ Enterococci</i>	IS:1622:1981, Reaffirmed :2003	1 to 161 MPN/100ml
			APHA :22nd edition (9230 B)	1.8 to 1600 MPN/100ml
		<i>Faecal Streptococci/ Enterococci</i> (MFT)	APHA :22nd edition (9230 C)/ IS:1622:1981 , Reaffirmed 2003/ IS : 15186: 2002 (Reaffirmed 2007) / ISO 7899 -2:2000	1 (Absent) to 200 cfu/ volume filtered
		<i>Pseudomonas aeruginosa</i> (MPN)	APHA :22nd edition (9213 F)	1.8 to 1600 MPN/100ml
		<i>Pseudomonas aeruginosa</i> (MFT)	APHA :22nd edition (9213 E)/ EN ISO 12780	1 (Absent) to 200 cfu/ volum filtered
		Psychrotropic microorganisms	ISO:17410:2001/ IS:1479 (Part-III):1977	1-300cfu/ml
		Detection of the spores of Sulphite reducing anaerobes (Clostridia)	ISO:6461 Part-2 :1986	Present /Absent
		Enumeration of the spores of Sulphite reducing anaerobic (Clostridia)	ISO:6461 Part-2 :1986	1 (Absent) to 200 cfu/ volume filtered
		Eneumration of sulphite reducing anaerobic bacteria	ISO 15213:2003	1 (Absent) to 150 cfu/ml multiplied by the dilution factor

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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
	Drinking Water Ground Water Surface Water, Water For Processed Food Industry Water For Swimming Pool & Spas	<i>Clostridium perferingens (MFT)</i>	ISO 7937:2004/ EN98/83/EC/	Present/ Absent per volume filtered
		<i>Clostridium perferingens</i>	ISO 7937:2004 , EN98/83/EC/	1(Absent) cfu to 150 cfu/ml multiplied by the dilution
		Test for gelatin liquefying bacteria	IS:1622:81, Reaffirmed 2003	1 cfu to 150 cfu/ml multiplied by the dilution factor
		Test for slime forming bacteria	IS:1622:81, Reaffirmed 2003	Present/ Absent
		Yeast & mould	IS :5403-1999 (Reaffirmed 2005) / ISO:21527-1 : 2008/ ISO 21527-2: 2008	1 cfu (Absent) to 150 cfu per plate multiplied by dilution factor
		<i>S. aureus</i> (By spread Plate technique)	IS:5887 –Part-8 :2002/ ISO:6888 Part-1:1999/ IS:5887 Part 2 :1976 (Reaffirmed 2005)	1 cfu (Absent) to 150 cfu per plate multiplied by dilution factor

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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
III. ENVIRONMENT AND POLLUTION				
1.	Waste Water/ Sewage Water/ ETP (In Let/ Out Let)/ STP (In Let/ Out Let)/ Cooling Tower Water/ Farm Water (Irrigation Water)/ Pond Water/ River Water & Other Types of Polluted Water	Aerobic microbial count/ Standard Plate count/ Total plate count/ Heterotrophic plate count	IS: 1622:1981, Reaffirmed 2003/ APHA :22nd edition (9215)/ ISO 6222:1999/ ISO 4833:2003, IS:3328:1993/ IS:5402:2002	1-300 cfu /ml multiplied by the dilution factor
		Coliform/ Total Coliform	IS:1622:1981, Reaffirmed 2003 APHA :22nd edition (9221 B)	2 to 1600 MPN/100 ml multiplied by the dilution factor 1.8 to 1600 MPN/100 ml multiplied by the dilution factor
		Coliform (MFT)	APHA :22nd edition (9222 B)/ IS:1622:1981, Reaffirmed 2003	1 (Absent) to 200 cfu/ volume filtered
		Coliform (Enumeration by pour plate)	IS:5401 Part-1:2002	1 (Absent) to 300 cfu per ml multiplied by the dilution factor
		Faecal Coliform	IS:1622:1981, Reaffirmed 2003 APHA :22nd edition (9221 E)	2 to 1600 MPN/100 ml multiplied by the dilution factor 1.8 to 1600 MPN/100 ml multiplied by the dilution factor

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	Waste Water/ Sewage Water/ ETP (In Let/ Out Let)/ STP (In Let/ Out Let)/ Cooling Tower Water/ Farm Water (Irrigation Water)/ Pond Water/ River Water & Other Types of Polluted Water	Faecal Coliform (MFT)	APHA :22nd edition (9222 D)/ IS:1622:1981 , Reaffirmed 2003	1 (Absent) to 200 cfu/ volume filtered
		<i>E. coli</i>	IS:1622:1981, Reaffirmed 2003/	2 to 1600 MPN/100 ml multiplied by the dilution factor
			APHA :22nd edition (9221 F & G)	1.8 to 1600 MPN/100 ml multiplied by the dilution factor
		<i>E. coli</i> (MFT)	APHA :22nd edition (9222)/ IS:1622:1981, Reaffirmed 2003/ IS: 15185:2002/ ISO:9308-1:2000	1 (Absent) to 200 cfu/ volume filtered
		<i>E. coli</i> (Enumeration by spread plate method)	IS:5887 Part-1:1976	1 (Absent) to 150 cfu per ml multiplied by the dilution factor
		Proteolytic count	IS:4251: 1967; Reaffirmed 1977	1-300cfu/plate multiplied by the dilution factor
		Lipolytic count	IS:4251: 1967; Reaffirmed 1977	1-300cfu/plate multiplied by the dilution factor
		Thermophillic bacteria count	IS:4251:1967 Reaffirmed 1992	1-300 cfu /plate multiplied by the dilution factor

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	Waste Water/ Sewage Water/ ETP (In Let/ Out Let)/ STP (In Let/ Out Let)/ Cooling Tower Water/ Farm Water (Irrigation Water)/ Pond Water/ River Water & Other Types of Polluted Water	<i>Faecal Streptococci/ Enterococci</i>	IS:1622:1981, Reaffirmed :2003 APHA :22nd edition (9230 B)	2 to 1600 MPN/100 ml multiplied by the dilution factor 1.8 to 1600 MPN/100 ml multiplied by the dilution factor
		<i>Faecal Streptococci/ Enterococci</i> (MFT)	APHA :22nd edition (9230 C)/ IS:1622:1981 , Reaffirmed 2003/ IS : 15186: 2002/ ISO 7899 -2:2000	1 (Absent) to 200 cfu/ volum filtered
		<i>Pseudomonas aeruginosa</i> (MPN)	APHA :22nd edition (9213 F)	1.8 to 1600 MPN/100 ml multiplied by the dilution factor
		<i>Pseudomonas aeruginosa</i> (MFT)	APHA :22nd edition (9213 E)	1 (Absent) to 200 cfu/ volume filtered
		Psychrotropic microorganisms	ISO:17410:2001/ IS:1479 (Part-III):1977	1-300cfu/plate multiplied by dilution factor
		Detection/ Enumeration of the spores of Sulphite reducing anaerobic (Clostridia)	ISO:6461 Part-2 :1986	1 (Absent) to 200 cfu/ volume filtered multiplied by dilution factor

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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
	Waste Water/ Sewage Water/ ETP (In Let/ Out Let)/ STP (In Let/ Out Let)/ Cooling Tower Water/ Farm Water (Irrigation Water)/ Pond Water/ River Water & Other Types of Polluted Water	Enumeration of sulphite reducing anaerobic bacteria	ISO 15213:2003	1 to 150 cfu/ml multiplied by dilution factor
		<i>Clostridium perfringens</i>	ISO 7937:2004	1 cfu to 150 cfu multiplied by the dilution factor
		Test for gelatin liquefying bacteria	IS:1622:81, Reaffirmed 2003	1 cfu to 150 cfu/plate
		Yeast & mould	IS :5403-1999/ ISO:21527-1 : 2008/ ISO 21527-2: 2008	1 cfu (Absent) to 150 cfu per plate multiplied by dilution factor
		<i>S. aureus</i> (By spread Plate technique)	IS:5887 –Part-8 :2002/ ISO:6888 Part-1:1999	1 cfu (Absent) to 150 cfu per plate multiplied by dilution factor
2.	Compressed Air	Test for viable microbiological contaminant content	ISO 8573-7:2003	1 Cfu/M ³ to TNTC Cf/M ³
3.	Sewage sludge (Biosolids)	<i>Salmonella</i> spp.	EPA: 1682	Present /Absent in X gm/ml
		Faecal Coliform	EPA: 1680	1.8 MPN/gm or ml and multiply by dilution factor

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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
4.	Water, Effluent, waste water	<i>Escherichia coli</i>	EPA: 1603	1 cfu to 80 cfu per plate multiplied by dilution factor (cfu/100ml)
		<i>Enterococci</i>	EPA: 1600	1 cfu to 80 cfu per plate multiplied by dilution factor (cfu/100ml)
IV. COSMETICS AND ESSENTIAL OILS				
1.	Cosmetics Products			
a.	Creams	Total Microbial count		
		Bacterial count	IS:14648:2011	1 cfu to 300 cfu multiplied by dilution factor per ml or g
		Fungal count	IS:14648:2011	1 cfu to 150 cfu multiplied by dilution factor per ml or g
		Enumeration & detection of aerobic mesophilic bacteria	IS:14648:2011	1 cfu to 150 cfu multiplied by dilution factor per ml or g/ Present/ Absent/g or ml
		Examination for Gram Negative Enteric pathogens	IS:14648:2011	Present/ Absent/g
		Identification/ Detection of <i>Pseudomonas aeruginosa</i>	IS:14648:2011	Present/ Absent/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
	Creams	Examination for <i>Staphylococcus aureus</i>	IS:14648:2011	Present/ Absent/g
b.	Lotions	Total Microbial count		
		Bacterial count	IS:14648:2011	1 cfu to 300 cfu multiplied by dilution factor per ml or g
		Fungal count	IS:14648:2011	1 cfu to 150 cfu multiplied by dilution factor per ml or g
		Enumeration & detection of aerobic mesophilic bacteria	IS:14648:2011	1 cfu to 150 cfu multiplied by dilution factor per ml or g/ Present/ Absent/g or ml
		Examination for Gram Negative Enteric pathogens	IS:14648:2011	Present/ Absent/g
		Identification/ Detection of <i>Pseudomonas/ Pseudomonas aeruginosa</i>	IS:14648:2011	Present/ Absent/g
		Examination for <i>Staphylococcus aureus</i>	IS:14648:2011	Present/ Absent/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
c.	Shampoos	Total Microbial count		
		Bacterial count	IS:14648:2011	1 cfu to 300 cfu multiplied by dilution factor per ml or g
		Fungal count	IS:14648:2011	1 cfu to 150 cfu multiplied by dilution factor per ml or g
		Enumeration & detection of aerobic mesophilic bacteria	IS:14648:2011	1 cfu to 150 cfu multiplied by dilution factor per ml or g/ Present/ Absent/g or ml
		Examination for Gram Negative Enteric pathogens	IS:14648:2011	Present/ Absent/g
		Identification/ Detection of <i>Pseudomonas/ Pseudomonas aeruginosa</i>	IS:14648:2011	Present/ Absent/g
d.	Baby Products	Examination for <i>Staphylococcus aureus</i>	IS:14648:2011	Present/ Absent/g
		Total Microbial count		
		Bacterial count	IS:14648:2011	1 cfu to 300 cfu multiplied by dilution factor per ml or 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
	Baby Products	Fungal count	IS:14648:2011	1 cfu to 150 cfu multiplied by dilution factor per ml or g
		Enumeration & detection of aerobic mesophilic bacteria	IS:14648:2011	1 cfu to 150 cfu multiplied by dilution factor per ml or g/ Present/ Absent/g or ml
		Examination for Gram Negative Enteric pathogens	IS:14648:2011	Present/ Absent/g
		Identification/ Detection of <i>Pseudomonas/ Pseudomonas aeruginosa</i>	IS:14648:2011	Present/ Absent/g
		Examination for <i>Staphylococcus aureus</i>	IS:14648:2011	Present/ Absent/g
e.	Eye Products	Total Microbial count	IS:14648:2011	
		aBacterial count	IS:14648:2011	1 cfu to 300 cfu multiplied by dilution factor per ml or g
		Fungal count	IS:14648:2011	1 cfu to 150 cfu multiplied by dilution factor per ml or g
		Enumeration & detection of aerobic mesophilic bacteria	IS:14648:2011	1 cfu to 150 cfu multiplied by dilution factor per ml or g/ Present/ Absent/g or ml

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f.	Eye Products	Examination for Gram Negative Enteric pathogens	IS:14648:2011	Present/ Absent/g
		Identification/ Detection of Pseudomonas/ Pseudomonas aeruginosa	IS:14648:2011	Present/ Absent/g
		Examination for Staphylococcus aureus	IS:14648:2011	Present/ Absent/g
	Lipsticks	Total Microbial count		
		Bacterial count	IS:14648:2011	1 cfu to 300 cfu multiplied by dilution factor per ml or g
		Fungal count	IS:14648:2011	1 cfu to 150 cfu multiplied by dilution factor per ml or g
		Enumeration & detection of aerobic mesophilic bacteria	IS:14648:2011	1 cfu to 150 cfu multiplied by dilution factor per ml or g/ Present/ Absent/g or ml
		Examination for Gram Negative Enteric pathogens	IS:14648:2011	Present/ Absent/g
		Identification/ Detection of Pseudomonas/ Pseudomonas aeruginosa	IS:14648:2011	Present/ Absent/g

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	Lipsticks	Examination for <i>Staphylococcus aureus</i>	IS:14648:2011	Present/ Absent/g
g.	Hair Oils	Total Microbial count		
		Bacterial count	IS:14648:2011	1 cfu to 300 cfu multiplied by dilution factor per ml or g
		Fungal count	IS:14648:2011	1 cfu to 150 cfu multiplied by dilution factor per ml or g
		Enumeration & detection of aerobic mesophilic bacteria	IS:14648:2011	1 cfu to 150 cfu multiplied by dilution factor per ml or g/ Present/ Absent/g or ml
		Examination for Gram Negative Enteric pathogens	IS:14648:2011	Present/ Absent/g
		Identification/ Detection of <i>Pseudomonas/ Pseudomonas aeruginosa</i>	IS:14648:2011	Present/ Absent/g
		Examination for <i>Staphylococcus aureus</i>	IS:14648:2011	Present/ Absent/g

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V. DRUGS AND PHARMACEUTICALS				
1.	Finished Products Formulation (Tablets/ Capsule)	Total Aerobic Viable count(Pour count method)	IP 2014(Page 38-50)	1 to 250 cfu per plate multiplied by dilution factor(cfu/gm or cfu/ml)
		Total Aerobic Viable count(Spread Plate Method)	IP 2014(Page 38-50)	1 to 250 cfu per plate multiplied by dilution factor(cfu/gm or cfu/ml)
		Total Fungal count	IP 2014(Page 38-50)	1 to 50 cfu per plate multiplied by dilution factor(cfu/gm or cfu/ml)
		<i>Salmonella</i> sp	IP 2014(Page 38-50)	Present/absent
		<i>Shigella</i> sp	IP 2014(Page 38-50)	Present/absent
		<i>E. coli</i>	IP 2014(Page 38-50)	Present/absent
		<i>Pseudomonas aeruginosa</i>	IP 2014(Page 38-50)	Present/absent
		<i>Staphylococcus aureus</i>	IP 2014(Page 38-50)	Present/absent
		<i>Candida albica</i>	IP 2014(Page 38-50)	Present/absent
		<i>Clostridia</i>	IP 2014(Page 38-50)	Present/absent

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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**.