Ashwamedh Engineers & Consultants Co-op. Soc. Ltd., Laboratory Services Division, Survey No. 102, Plot No. 26, Wadala Pathardi Road, Indira Nagar, Nashik, Maharashtra				
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	WATER			
1.	Drinking Water/ Water for Swimming Pools/ Water for	Total Coliforms	APHA, 22 nd Ed., 2012,9221-B, 9-66 Multiple tube fermentation technique IS 1622:1981, (RA 2009),Ed. 2.4 (2003-05)	<1.1to1.6 x10 ⁸ MPN index /100 ml 1 to 1.6 x 10 ⁸ MPN index /100 ml
	Construction Purpose/ Water from		Multiple tube fermentation technique APHA, 22 nd Ed., 2012, 9222-B,9-78 Membrane filtration technique (MFT)	\geq 1 CFU/100 ml
	purifiers/ Ground water		IS1622:1981, (RA 2009), Ed. 2.4 (2003- 05)	\geq 1 Coliform/100 ml
	/Surface water /Sea water/ Medicinal purpose Distilled /		Membrane filtration technique (MFT) APHA, 22 nd Ed., 2012, 9221-D,9-73 P-A Coliform test	Present or Absent / 100 ml
	demineralized water/ Water for	Faecal Coliforms	APHA, 22 nd Ed., 2012,9221-E, 9-74 Multiple tube fermentation technique	<1.1 to 1.6 x10 ⁸ MPN index /100 ml
	Processed food industry/ Water for		IS 1622:1981, (RA 2009), Ed.2.4 (2003- 05)	1 to 1.6 x 10 ⁸ MPN index /100 ml
	Industrial purpose/ Water for Ice		Multiple tube fermentation technique APHA, 22 nd Ed., 2012, 9222-D, 9-85 Membrane filtration technique (MFT)	≥ 1 CFU/100 ml
	Manufacture/ Water for Fermentation			
	industry/ Irrigation water			
	/Cooling purpose water/ Primary Water Quality by CPCB/			

WHO Guidelines

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	Drinking Water/ Water for Swimming Pools/	Standard Plate Count	APHA, 22 nd Ed., 2012, 9215-B,9-52 IS1622:1981, (RA 2009), Ed. 2.4 (2003- 05) Pour plate method	\geq 1 CFU/ml
	Water for Construction Purpose/		IS 15188:2002, (RA 2009) Membrane filtration technique(MFT)	\geq 1 CFU/100 ml
	Water from purifiers/ Ground water /Surface water	Yeast and Mould Count	IS 5403:1999,(RA 2009)	\geq 1 CFU/ml
	/Surface water /Sea water/ Medicinal purpose Distilled /	Detection & Enumeration of Escherichia coli	APHA, 22 nd Ed.,2012, 9221-G, 9-76 Multiple tube fermentation technique	<1.1 to 1.6 x10 ⁸ MPN index /100 ml Present or Absent/100 ml
	demineralized water/ Water for		IS1622:1981, (RA 2009), Ed. 2.4 (2003-05) Multiple tube fermentation technique	1 to 1.6 x 10 ⁸ MPN index /100 ml Present or Absent/100 ml
	Processed food industry/ Water for Industrial	Enumeration of Proteolytic organisms	IS 4251:1967, (RA 2009) Ed.1.2 (2004-08)	\geq 1 CFU/ml
	purpose/ Water for Ice Manufacture/ Water for	Enumeration of Lipolytic organisms	IS 4251:1967, (RA 2009), Ed.1.2 (2004-08)	\geq 1 CFU/ml
	Fermentation industry/ Irrigation water /Cooling purpose water/ Primary Water	Detection of Clostridium welchii (perfringens)	IS 1622:1981, (RA 2009), Ed. 2.4 (2003-05)	Present or Absent/ 100 ml
	Quality by CPCB/ WHO Guidelines			

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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/ Water for Swimming Pools/	Detection of Faecal Streptococci	IS15186:2002, (RA 2009)	Present or Absent/100 ml
	Water for Construction Purpose/ Water from purifiers/ Ground water /Surface water /Sea water/ Medicinal purpose	Enumeration of Faecal Streptococci	APHA, 22 nd Ed., 2012, 9230-B,9-111 Multiple tube fermentation technique IS 1622:1981, (RA 2009), Ed. 2.4 (2003- 05) Multiple tube fermentation technique IS1622:1981, (RA 2009), Ed. 2.4 (2003- 05) Membrane filtration technique(MFT) IS 15186: 2002	<1.1 to 1.6 $\times 10^{8}$ MPN index /100 ml 1 to 1.6 $\times 10^{8}$ MPN index /100 ml \geq 1 CFU/ 100 ml \geq 1 CFU/ 100 ml
	Distilled / demineralized water/	Detection of Pseudomonas aeruginosa	IS 13428:2005, Annex D,(RA 2009), Amds.4	Present or Absent/ 100 m
	Water for Processed food industry/	Enumeration of Pseudomonas aeruginosa	IS 13428:2005, Annex D (RA 2009) Amds.4, & IS 15188:2002, (RA 2009)	<1 to 18MPN index /100 ml
	Water for Industrial purpose/ Water for Ice	Detection of Salmonella spp.	APHA, 22 nd Ed., 2012, 9260-B,9-145 IS 15187:2002, (RA 2009) Membrane filtration technique (MFT)	Present or Absent/100 ml Present or Absent/100 ml
	Manufacture/ Water for Fermentation	Detection of Shigellaspp.	APHA, 22 nd Ed., 2012, 9260-E,9-150	Present or Absent / 100 ml
	industry/ Irrigation water	Detection of Staphylococcus aureus	APHA, 22 nd Ed., 2012, 9213-B,9-44	Present or Absent/100 ml
	/Cooling purpose water/ Primary Water Quality by CPCB/ WHO Guidelines	Enumeration of Staphylococcus aureus	IS 5887 (Part II):1976, (RA 2009)	\geq 1 CFU/ ml

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed			e of Testing / of Detection
		Detection of Sulphite reducing anaerobes	Annex C of IS 13428:2005, (RA 2 Amds.4	.009),	Present ml	or Absent/ 100
		Enumeration of Sulphite reducing anaerobes	Annex C of IS 13428:2005, (RA 2 Amds.4 & IS15188:2002	.009),	<1 to 1 /100 m	80MPN index l
		Detection of Vibrio cholerae	APHA, 22 nd Ed., 2012, 9260-H,9-1	160	Present ml	or Absent /100
		Enumeration of Vibrio cholera	IS 5887 (Part V):1976,(RA 2009)		<u>></u> 1 CF	U/ ml
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009)		Present ml	or Absent / 100
		Enumeration of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009)		≥ 1 CF	U/ ml
2.	Packaged Drinking Water/ Packaged Natural	Detection of Escherichia coli (Thermotolerant bacteria)	IS 5887 (Part I):1976,(RA 2009) IS 15185:2002, (RA 2009)			or Absent/250 ml or Absent/250 ml
	Mineral Water/ All types of water	Detection of Coliforms	IS 5401 (Part 1):2002, (RA 2007) IS 15185:2002, (RA 2009)			or Absent/250 ml or Absent/250 ml
		Detection of Faecal Streptococci(Enterococci)	IS 5887 (Part II):1976,(RA 2009) IS 15186: 2002, (RA 2009)			or Absent/250 ml or Absent/250 ml
		Detection of Staphylococcus aureus	IS 5887 (Part II):1976,(RA 2009)		Present	or Absent/250 ml
		Detection of Sulphite reducing anaerobes	IS 13428:2005, Annex C (RA 200 Amds.4)9)	Present	or Absent/50 ml

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	Packaged Drinking Water/ Packaged Natural	Detection of Pseudomonas aeruginosa	IS 13428:2005, Annex D (RA 20 Amds.4	009)	Presen	t or Absent/250 ml
	Mineral Water/ All types of water	Aerobic Microbial Count at 20 to 22 °C in 72 h	IS 5402:2012		<u>></u> 1 CF	'U/ml
		Aerobic Microbial Count at 37°C in 24 h	IS 5402:2012		≥ 1 CF	'U/ml
		Detection of Yeast and Moulds	IS 5403:1999 (RA 2009)		Presen	t or Absent/250 ml
		Detection of Salmonella spp.	IS 15187:2002 (RA 2009)		Presen	t or Absent/250 ml
		Detection of Shigellaspp.	IS 5887 (Part 7):1999, (RA 2009))	Presen	t or Absent/250 ml
		Detection of Vibrio cholerae	IS 5887 (Part V):1976,(RA 2009	9)	Presen	t or Absent/250 ml
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V):1976, (RA 200	9)	Presen	t or Absent/250 ml

II. POLLUTION AND ENVIRONMENT

1. Effluents & Total Coliforms APHA, 22 nd Ed., 2012, 9221-B,9-66 <1.1 to 1.6 Sewage Multiple tube fermentation technique index /100 IS1622:1981, (RA 2009), 1 to 1.6 x Ed. 2.4 (2003- 05) /100 ml Multiple tube fermentation technique 100 ml	00 ml x 10 ⁸ MPN index
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed			e of Testing / of Detection
	Effluents & Sewage	Faecal Coliforms	APHA, 22 nd Ed., 2012, 9221-E,9- Multiple tube fermentation techni IS1622:1981, (RA 2009), Ed. 2.4 (2003- 05) Multiple tube fermentation techni	que	index /	5 x 10 ⁸ MPN index
		Standard Plate Count	APHA, 22 nd Ed.,2012,9215-B,9- IS1622:1981, (RA 2009), Ed. 2.4 (2003- 05)Pour plate meth		≥ 1 CF	U/ml
		Detection & Enumeration of E.coli	APHA, 22 nd Ed., 2012,9221-G, 9- Multiple tube fermentation techni IS1622:1981, (RA 2009), Ed. 2.4 (2003- 05) Multiple tube fermentation techni	que	index / Absent 1 to 1.6 /100 m	1.6 x 10 ⁸ MPN 100 ml Present or /100 ml 5 x 10 ⁸ MPN index 1 Present or / 100 ml
		Detection of Clostridium welchii (perfringens)	IS1622: 1981, (RA 2009), Ed. 2.4 (2003- 05)		Present ml	t or Absent / 100
		Detection ofFaecalStreptococci	IS 15186: 2002, (RA 2009)		Present	t or Absent/100 ml
		Enumeration ofFaecal Streptococci	APHA, 22 nd Ed, 2012, 9230-B, 9- Multiple tube fermentation techni IS 1622: 1981, (RA 2009), Ed. 2.4 (2003-05) Multiple tube fermentation techni	que 4	index / 1 to 1.6 /100 m	5 x 10 ⁸ MPN index l
			IS1622:1981, (RA 2009) Ed. 2.4 (2003- 05) Membrane filtration technique (M IS 15186: 2002, (RA 2009)	IFT)		U/ 100 ml U/ 100 ml

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Effluents & Sewage	Detection of Pseudomonas aeruginosa	Annex D of IS 13428:2005 (RA 2 ,Amds.3	009)	Presen ml	t or Absent/ 100
	Enumeration of Pseudomonas aeruginosa	Annex D of IS 13428:2005 (RA 2 ,Amds.3 & IS 15188:2002, (RA 2009)	2009)	1 to 18 ml	MPN index /100
	Detection of Salmonella spp.	APHA, 22 nd Ed.,2012, 9260-B,9-14 IS 15187:2002,(RA 2009)	45		t or Absent/100 ml t or Absent/100 ml
	Detection of Shigellaspp.	APHA, 22 nd Ed., 2012, 9260-E,9-1	50	Presen ml	t or Absent / 100
	Detection of Staphylococcus aureus	APHA, 22 nd Ed., 2012, 9213-B,9-4	14		t or Absent/100 ml
	Enumeration of Staphylococcus aureus	IS 5887 (Part II):1976, (RA 2009))	<u>></u> 1 CF	U/ ml
	Detection of Sulphite reducing anaerobes	IS 13428:2005, Annex C (RA 200 Amds.3)9),	Presen ml	t or Absent/ 100
	Enumeration of Sulphite reducing anaerobes	IS 13428:2005, Annex C (RA 200 Amds.3 & IS 15188:2002, (RA 20	,	1 to 18 ml	0MPN index /100
	Detection of Vibrio cholerae	APHA, 22 nd Ed., 2012, 9260-H,9-	160		t or Absent / 100
	Enumeration of Vibrio	IS 5887 (Part V) :1976,(RA2009)		ml <u>></u> 1 CF	U/ml
	cholerae Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009))	Presen ml	t or Absent / 100
	Enumeration of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009))	≥ 1 CF	U/ml

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection	
2.	Air Monitoring for Microbial contamination (Plate Exposure, Swabs)/ Bio burden Estimation of Classified & Non- classified area	Total BacterialCount	USP 32,NF-27,Chapter<1116> ISO 18593:2004(E) IS 5402:2012 WI/SAP-Micro/5/61, Issue Date: 01.04.2014	≥1 CF ≥1CF	SU/m ³ U/cm ² /swab	
		Yeast &Mould Count	USP 32,NF-27,Chapter<1116> ISO 18593:2004(E) IS 5403:1999,(RA 2009) WI/SAP-Micro/5/61, Issue Date: 01.04.2014	≥1 Cl ≥1CF	FU/m ³ U/cm ² /swab	
		Coliform Count	USP 32,NF-27,Chapter<1116> ISO 18593:2004(E) IS 5401 (Part 1):2002,(RA 2007) ISO 4832:1991 WI/SAP-Micro/5/61, Issue Date: 01.04.2014		FU/m ³ U/cm ² /swab	
		Escherichia coli	USP 32, NF-27, Chapter<1116> ISO 18593:2004(E) IS 5887(Part I):1976, (RA 2009) WI/SAP-Micro/5/61, Issue Date: 01.04.2014	\geq 1 Cl \geq 1 Cl	FU/m ³ FU/cm ² /swab	
		Staphylococcus aureus	USP 32, NF-27, Chapter<1116> ISO 18593:2004(E) IS 5887 (Part II):1976, (RA 2009) WI/SAP-Micro/5/61, Issue Date: 01.04.2014		FU/m ³ FU/cm ² /swab	

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Air Monitoring for Microbial contamination (Plate Exposure, Swabs)/ Bio burden	Pseudomonas aeruginosa	USP 32, NF-27, Chapter<1116> ISO 18593:2004(E) IS 14843:2000, (RA 2009) WI/SAP-Micro/5/61, Issue Date: 01.04.2014	≥ 1 CF ≥ 1 CF	FU/m ³ FU/cm ² /swab			
Estimation of Classified & Non- classified area	Clostridium spp.	USP 32, NF-27, Chapter<1116> ISO 18593:2004(E) IS 5887 (Part 4):1976, (RA 2009) WI/SAP-Micro/5/61, Issue Date: 01.04.2014		U/m ³ t/ cm ² /swab			
	Salmonella spp.	USP 32, NF-27, Chapter<1116> ISO 8593:2004(E) IS 5887(Part 3):1999, (RA 2009) WI/SAP-Micro/5/61, Issue Date: 01.04.2014	≥1 CF Absen	U/m ³ t/ cm ² /swab			
	Listeria monocytogenes	USP 32, NF-27, Chapter<1116> ISO 8593:2004(E) US FDA BAM, 8 th Edition, Revision A, Chap April 2011, Updated Feb 2013 WI/SAP-Micro/5/61, Issue Date: 01.04.2014		U/m ³ t/ cm ² /swab			
III. FOOD & AGRICU	LTURAL PRODUCTS						
1. Milk and Dairy Products Infant Foods (Dairy Productsand	Aerobic Microbial Count/Total Viable Count /Total Plate Count/Total Bacterial Count	IS 5402:2012 US FDA BAM, 8 th Edition, Revision A, Chapter 3,Jan 2001	<u></u> ≥1 CF	CFU/gor			

(Dairy Productsand Analogues)

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Milk and Dairy Products Infant Foods (Dairy	Coliform Count	IS 5401 (Part 1):2002, (RA 2007) ISO 4832 : 1991	≥ 10 Pres	CFU /g or CFU/ml ent or Absent/ 0.1 g			
Productsand Analogues)		IS 5401 (Part 2):2012 / ISO 4831		to 1.1x10 ⁶ MPN			
		US FDA BAM, 8 th Edition,Revisi Chapter 4,Sept.2002, Updated Feb 2013.	on A, ≥ 10	x/g or ml) CFU/ g or CFU /ml			
	Yeast and Mould Count	IS 5403:1999, (RA 2009) US FDA BAM,8 th Edition, Revisi	ml Pres ml ≥ 10 ≥ 1	ent or Absent/ 1 g or ent or Absent/ 0.1 g or CFU/g or CFU/ml			
		Chapter 18, April 2001	on A \geq IC CFU	$O CFU /g \text{ or} \ge 1$ M/ml			
	Detection of Escherichia coli (Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)	or 2. Abs	ent or Absent / 25g 5 ml Present or ent /0.1 g or ml ent or Absent /1 g or			
	Enumeration of Escherichia coli	IS 5887(Part I):1976, (RA 2009)	≥ 1 0.3 t	CFU/g or CFU/ml to 1.1x10 ⁶ MPN			
		US FDA BAM ,8 th Edition , Revis A, Chapter 4, Sept.2002,Updated 2013	sion <3 t	x/g or ml o 1.1x10 ⁶ MPN index r ml			

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	Milk and Dairy Products Infant Foods (Doim)	Detection of Clostridiumperfringens	IS 5887 (Part 4):1976, (RA 2009 US FDA BAM, 8 th Edition, Revi A, Chapter 16, Jan 2001		Presen or 25 r	t or Absent / 25 g nl		
	Productsand E	Enumeration of Clostridiumperfringens	IS 5887 (Part 4):1976, (RA 2009 US FDA BAM, 8 th Edition, Revi A,Chapter 16,Jan 2001		\geq 10 C \geq 1 CF	FU/g or U/ml		
		Enumeration of Sulfite reducing bacteria	ISO 15213: 2003		≥ 10 C	FU/g		
		Detection of Faecal Streptococci (Enterococci)	IS 5887 (Part II):1976, (RA 2009))	Presen or 25 r	t or Absent / 25 g nl		
		Enumeration of Faecal Streptococci	IS 5887 (Part II):1976, (RA 2009))) ≥ 10 CFU/g or ≥ 1 CFU/ml			
		Enumeration of Pseudomonas aeruginosa	IS 14843:2000, (RA 2009/ ISO 13720:1995		≥10 CI ≥ 1 CF	FU/g or W/ml		
		Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) USFDA BAM, 8 th Edition,Revisie Chapter 5, Updated May 2014		Presen or 25 r	t or Absent / 25 g nl		
		Detection of Shigellaspp.	IS 5887(Part 7):1999, (RA 2009 US FDA BAM,8 th Edition, Revis A,Chapter 6, Jan 2001) sion	Presen or 25 r	t or Absent / 25 g nl		
		Detection of Staphylococcus aureus (Coagulase positive)	IS 5887 (Part II):1976, (RA 2009	9)	25 ml Presen or ml	t or Absent/25g or t or Absent /0.1 g Present or t / 1 gor ml		

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	Milk and Dairy Products Infant Foods (Dairy Productsand Analogues)	Enumeration of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009) IS 5887(Part 8):2002, Amendmer 1, Jan. 2010/ ISO 6888 -1 : 1999 US FDA BAM,8 th Edition,Revisio Chapter 12,Jan 2001	nt No.	\geq 10 C \geq 1 CF	
	Analogues)	Enumeration of Enterobacteriaceae	IS/ISO 7402: 1993, (RA 2009)	\geq 10 CFU /g \geq 1 CFU/ml		0
		Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 9,May 2004		Presen or 25 r	t or Absent / 25 g nl
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V):1976, (RA 2009 US FDA BAM, 8 th Edition,Revisio Chapter 9, May 2004		Presen or 25 r	t or Absent / 25 g nl
		Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition,RevisionA,Chapter 10, 2011,Updated Feb 2013	April	or 25 r	t or Absent / 25 g nl t or Absent / 1 g or
		Enumeration of Bacillus cereus(Aerobic spore count)	IS 5887(Part 6):2012, ISO 7932:2	2004	≥ 10 C ≥ 1 CF	
2.	Edible Oils and Fats (Fats,Oils and Fat Emulsions)	Aerobic Microbial Count/Total Viable Count/Total Plate Count/Total Bacterial Count	IS 5402:2012		<u>></u> 10 C	FU /g
	Emuisions)		US FDA BAM, 8 th Edition, Revis A,Chapter 3, Jan 2001	sion	<u>></u> 10 C	FU /g

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	Edible Oils and Fats (Fats,Oils and Fat Emulsions)	Coliform Count	IS 5401 (Part 1):2002, (RA 2007)/ 4832:1991 IS 5401 (Part 2):2012 / ISO 4831:2 US FDA BAM, 8 th Edition, Revisio A,Chapter 4, Sept.2002,Updated Fe 2013	2006 < 0. ind $20n \ge 1$	10 CFU /g .3 to 1.1x10 ⁶ MPN lex/g 10 CFU/ g to 1.1x10 ⁶ MPN index
		Yeast and Mould Count	IS 5403:1999, (RA 2009) US FDA BAM,8 th Edition, Revisio A,Chapter 18,April 2001		l0 CFU/g l0 CFU/g
		Detection of Escherichia coli (Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)	Pre	esent or Absent / 25 g
		Enumeration of Escherichia coli	IS 5887 (Part I):1976, (RA 2009)		0 CFU /g 8 to 1.1x10 ⁶ MPN index
			US FDA BAM,8 th Edition,RevisionA,Chapte 4,Sept.2002,Updated Feb 2013		to 1.1x10 ⁶ MPN index
		Detection of Clostridiumperfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition,RevisionA,Chapter 16, Ja 2001		esent or Absent / 25 g

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection
	Edible Oils and Fats (Fats,Oils and Fat Emulsions)	Enumeration of Clostridiumperfringens	IS 5887 (Part 4):1976, (RA 2009), U FDA BAM,8 th Edition,RevisionA,Chapter Jan 2001		CFU/g
		Enumeration of Sulfite ISO 15213: 2003 reducing bacteria	ISO 15213: 2003	≥ 10 C	CFU/g
		Detection ofFaecalStreptococci(Entero cocci)	IS 5887 (Part II):1976, (RA 2009)	Presen	t or Absent /25 g
		Enumeration of Faecal Streptococci	IS 5887 (Part II):1976, (RA 2009)	≥ 10C	FU/g
		Enumeration of Pseudomonas aeruginosa	IS 14843:2000, (RA 2009)/ ISO 13720:1995	≥10 C	FU /g
		Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM, 8 th Edition,RevisionA,Chapter 5, Updated May 2014	Presen	nt or Absent / 25 g
		Detection of Shigellaspp.	IS 5887(Part 7):1999, (RA 2009) US FDA BAM,8 th Edition,Revision Chapter 6, Jan 2001	Presen A,	at or Absent / 25 g
		Detection of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009)	Presen	t or Absent/25g
		Enumeration of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009) IS 5887(Part 8/Sec 1):2002 ,Amendment No.1, Jan. 2010/ ISO 6888 -1:1999, US FDA BAM,8 th Edition,Revision A Chapter 12, Jan 2001	≥ 10C	FU /g

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LaboratoryAshwamedh Engineers & Consultants Co-op. Soc Laboratory Services Division, Survey No. 102, Plo Pathardi Road, Indira Nagar, Nashik, MaharashtraAccreditation StandardISO/IEC 17025: 2005						Wadala
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed			e of Testing / of Detection
F (]	Fats (Fats,Oils and Fat Emulsions)]	Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 9, May, 2004		Present	or Absent / 25 g
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976, (RA 2009 US FDA BAM, 8 th Edition,Revisio Chapter 9, May, 2004		Present or Absent / 2	
		Enumeration of Enterobacteriaceae	IS/ISO 7402 :1993,(RA 2009)		≥10 CF	EU /g
		Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition, Revise A,Chapter 10, April 2011, Updated Feb 2013	ion	Present	or Absent / 25 g
		Enumeration of Bacillus cereus	IS 5887(Part 6):2012, ISO 7932:2	004	≥ 10 C	FU/g
3.	products	Aerobic Microbial Count/Total Viable Count/Total Plate Count/Total Bacterial Count	Viable US FDA BAM,8 th Edition, Revision A Plate Chapter 3, Jan 2001			FU /g FU /g
		Coliform Count	IS 5401 (Part 1):2002, (RA 2007)/ 4832 : 1991 IS 5401 (Part 2):2012 / ISO 4831		index/g	1.1x10 ⁶ MPN or ml
			US FDA BAM, 8 th Edition,RevisionA,Chapter 4, Sept.2002,UpdatedFeb2013		≥ 10 C <3 to 1 /g	FU / g .1x10 ⁶ MPN index

	oratory reditation Standa	Laboratory Service Pathardi Road, Ind	Ashwamedh Engineers & Consultants Co-op. Soc. Ltd., Laboratory Services Division, Survey No. 102, Plot No. 26, Wadala Pathardi Road, Indira Nagar, Nashik, Maharashtra ISO/IEC 17025: 2005				
Disc	cipline	Biological Testing	Is	sue Date	02.12.2014		
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		ge of Testing / ts of Detection		
	Oil Seeds and By- products	Yeast and Mould Count	IS 5403:1999, (RA 2009) US FDA BAM,8 th Edition,Revision, Chapter 18, April 2001		CFU/g CFU/g		
		Detection of Escherichia coli (Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)	Prese	nt or Absent / 25 g		
		Enumeration of Escherichia coli	IS 5887 (Part I):1976,(RA 2009) US FDA BAM,8 th Edition,RevisionA,Chapter Sept.2002,Updated Feb 2013	0.3 to /g <3 to	CFU /g 9 1.1x10 ⁶ MPN index 1.1x10 ⁶ MPN index		
		Detection of Clostridiumperfringens	IS 5887 (Part 4):1976,(RA 2009) US FDA BAM, 8 th Edition,RevisionA,Chapter 16, Ja 2001		nt or Absent / 25 g		
		Enumeration of Clostridiumperfringens	IS 5887 (Part 4):1976,(RA 2009) US FDA BAM,8 th Edition,RevisionA,Chapter Jan 2001		CFU /g		
		Enumeration of Sulfite reducing bacteria	ISO 15213: 2003	<u>></u> 10	CFU /g		
		Detection ofFaecalStreptococci (Enterococci)	IS 5887 (Part II):1976,(RA 2009)	Prese	nt or Absent /25 g		

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S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection		
Oil Seeds and By- products	Enumeration of Faecal Streptococci	IS 5887 (Part II):1976,(RA 2009)	$\geq 10C$	FU/g		
	Enumeration of Pseudomonas aeruginosa	IS 14843:2000,(RA 2009)/ ISO 13720:1995	≥10 C	FU/g		
	Detection of Salmonella spp.	IS 5887(Part 3):1999,(RA 2009) US FDA BAM,8 th Edition,Revisio Chapter 5, Updated May 2014		t or Absent / 25 g		
	Detection of Shigellaspp.	IS 5887(Part 7):1999,(RA 2009) US FDA BAM,8 th Edition, RevisionA,Chapter 6, Jan 2001	Presen	t or Absent / 25 g		
	Detection of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976,(RA 2009)	Presen	t or Absent/25g		
	Enumeration of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976,(RA 2009) IS 5887(Part 8/Sec 1):2002 ,Amendment No.1,Jan. 2010/ ISO 6888 -1 : 1999 US FDA BAM,8 th Edition, Revision A,Chapter 12, Jan 2001	≥ 10C	FU/g		
	Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition, Revision A,Chapter 9, May, 2004		t or Absent / 25 g		
	Detection of Vibrio parahaemolyticus	IS 5887 (Part V):1976, (RA 2009 US FDA BAM, 8 th Edition, Revis A,Chapter 9, May, 2004		t or Absent / 25 g		

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed			e of Testing / of Detection		
	Oil Seeds and By- products	Enumeration of Enterobacteriaceae	IS/ISO 7402 :1993, (RA 2009)	2	<u>></u> 10 Cl	FU /g		
		Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition, Revis A,Chapter 10, April 2011,Update 2013		resent	e or Absent / 25 g		
		Enumeration of Bacillus	IS 5887(Part 6):2012, ISO 7932:2	2004 <u>></u>	<u>></u> 10 Cl	FU/g		
		cereus Total Aflatoxins	ELISA Method, SOP No. WI/SAP-Micro/5/74	2	<u>≥</u> 1.7 pp	bb		
4.	Fruit & Fruit Products	Aerobic Microbial Count/Total Viable Count/Total Plate	IS 5402:2012		≥ 10 Cl ≥1 CF	FU/g or U/ml		
		Count/Total Bacterial Count	US FDA BAM, 8 th Edition, Revis A,Chapter 3, Jan 2001		<u>></u> 10 Cl <u>></u> 1 CFU	FU/g or J/ml		
		Coliform Count	IS 5401 (Part 1):2002, (RA 2007) ISO 4832 : 1991		<u>></u> 10 Cl <u>></u> 1 CF	FU /g or U/ml		
			IS 5401 (Part 2):2012 / ISO 4831			1.1x10 ⁶ MPN g or ml		
			US FDA BAM, 8 th Edition,RevisionA,Chapter 4, Sept.2002,Updated Feb 2013	2	-	FU/ g or		
			L / L		<3 to 1 g or m	.1x10 ⁶ MPN index 1		

Laboratory Accreditation Standar	Laboratory Service Pathardi Road, Indi	Ashwamedh Engineers & Consultants Co-op. Soc. Ltd., Laboratory Services Division, Survey No. 102, Plot No. 26, Wadala Pathardi Road, Indira Nagar, Nashik, Maharashtra 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			e of Testing / of Detection		
Fruit & Fruit Products	Yeast and Mould Count/Mould Count	IS 5403:1999, (RA 2009) US FDA BAM, 8 th Edition, Revi A,Chapter 18, April 2001	sion	<u>></u> 1 CF	FU/g or		
	Detection of Escherichia coli (Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)		Present or 25m	e or Absent / 25g l		
	Enumeration of Escherichia coli	IS 5887(Part I):1976, (RA 2009) US FDA BAM, 8 th Edition, Revi A,Chapter 4, Sept.2002, Updated Feb 2013		/g or m	nl .1x10 ⁶ MPN index 1 .1x10 ⁶ MPN		
	Detection of Clostridiumperfringens	IS 5887 (Part 4):1976, (RA 2009 US FDA BAM, 8 th Edition, Revi A,Chapter 16, Jan 2001) sion	Present or 25m	or Absent / 25 g l		
	Enumeration of Clostridiumperfringens	IS 5887 (Part 4):1976,(RA 2005) US FDA BAM, 8 th Edition,RevisionA,Chapter 16 2001		≥ 10 Cl ≥ 1 CF	FU /g or U /ml		
	Enumeration of Sulfite reducing bacteria	ISO 15213: 2003		$\geq 10 \text{ C}$ $\geq 1 \text{ CF}$	FU /g or U/ml		
	Detection of FaecalStreptococci (Enterococci)	IS 5887 (Part II):1976, (RA 2009))	Present or 25 m	e or Absent / 25 g hl		

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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
Fruit & Fruit Products	Enumeration of Faecal Streptococci	IS 5887 (Part II):1976, (RA 2009)		\geq 10 CFU/g or \geq 1CFU /ml
	Detection of Shigellaspp.	IS 5887(Part 7) :1999, (RA 2009) US FDA BAM,8 th Edition,Revision Chapter 6, Jan 2001		Present or Absent / 25 g or 25ml
	Enumeration of Pseudomonas aeruginosa	IS 14843:2000, (RA 2009) / ISO 13720:1995	-	\geq 10 CFU/g or \geq 1 CFU /ml
	Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM, 8 th Edition, Revisio A, Chapter 5, Updated May 2014	on	Present or Absent / 25 g or 25 ml
	Detection of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009)		Present or Absent/25 g or 25 ml
	Enumeration of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009) IS 5887(Part 8/Sec 1):2002, Amendment No.1 Jan. 2010/ ISO 6888 -1 : 1999 US FDA BAM, 8 th Edition,Revision Chapter 12, Jan 2001	-	≥ 10 CFU /g or ≥ 1 CFU /ml
	Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 9, May, 2004		Present or Absent /25 g or 25 ml
	Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009) US FDA BAM, 8 th Edition,Revisio A,Chapter 9, May, 2004		Present or Absent/ 25 g or 25 ml

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Disc	ipline	Biological Testing	Is	sue Date	02.12.2014		
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection		
	Fruit & Fruit Products	Enumeration of Enterobacteriaceae	IS/ISO 7402: 1993, (RA 2009)		CFU /g or FU/ml		
		Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition, Revision A,Chapter 10, April 2011,Updated F 2013		nt or Absent / 25 g ml		
		Enumeration of Bacillus cereus	IS 5887(Part 6):2012, ISO 7932:200		CFU/g or FU / ml		
		Incubation at37°C for 10 days and 55°C for 7 days	Compendium of methods for the microbiological examination of foods,APHA,4 th Edition, Chapter 61,Page No.577 WI/SAP-Micro/5/80	No ch	anges in pH		
		Flat Sour Organisms	Compendium of methods for the microbiological examination of foods,APHA,4 th Edition, Chapter 24 Page No.239 WI/SAP-Micro/5/82	\geq 1 CFU /ml			
		Yeast and Spores	AOAC,19 th Edition, 984.29, Page No.69 WI/SAP-Micro/5/81	≥1 pe	r 1/60 c.m.m.		
5.	Vegetable & Vegetable Products	Aerobic Microbial Count/Total Viable Count/Total Plate Count/Total Bacterial Count	IS 5402:2012 US FDA BAM, 8th Edition, Revisio Chapter 3, Jan 2001	$\frac{\geq 1 \text{ CF}}{\log A, \geq 10 \text{ G}}$			

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S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		ge of Testing / ts of Detection	
Vegetable & Vegetable Products	Coliform Count	IS 5401 (Part 1):2002, (RA 2007)/ ISO 4832 : 1991 IS 5401 (Part 2):2012 / ISO 4831:2 US FDA BAM, 8 th Edition, Revisio A,Chapter 4, Sept.2002, Updated Feb 2013	$\begin{array}{r} \geq 1 \ \mathrm{C} \\ 2006 & <0.3 \\ \mathrm{index} \\ \mathrm{on} & \geq 10 \\ \geq 1 \ \mathrm{C} \end{array}$	CFU /g or CFU/ml to 1.1x10 ⁶ MPN . /g or ml CFU/ g or CFU/ml 1.1x10 ⁶ MPN index ml	
	Yeast and Mould Count/Mould Count	IS 5403:1999, (RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 18, April 2001	$\frac{\overline{}}{\geq} 1 \text{ C}$ on A, ≥ 10	CFU/g or FFU/ml CFU/g or FU/ml	
	Detection of Escherichia coli (Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)	Prese or 25	nt or Absent / 25g ml	
	Enumeration of Escherichia coli	IS 5887(Part I):1976, (RA 2009) US FDA BAM, 8 th Edition, Revisia A, Chapter 4, Sept.2002,Updated F 2013		1.1x10 ⁶ MPN index	
	Detection of Clostridiumperfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition, Revisio A, Chapter 16, Jan 2001	on or 25	nt or Absent / 25 g ml	

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S.No.	Product / Material of Test	Specific Test	Performed	Test Method Specification against which tests are performed			e of Testing / s of Detection	
	Vegetable & Vegetable Products	Enumeration of Clostridiumper		IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition,Revision Chapter 16, Jan 2001	n A,	≥ 10 C ≥ 1 CF	FU/g or 'U/ml	
		Enumeration of reducing bacter		ISO 15213: 2003		$\geq 10 \text{ C}$ $\geq 1 \text{ CF}$	FU/g or U/ml	
		Detection of FaecalStreptoco cci)	occi(Enteroco	IS 5887 (Part II):1976, (RA 2009)		Presen or 25 n	t or Absent / 25 g nl	
		Enumeration of Streptococci	Faecal	IS 5887 (Part II):1976, (RA 2009)		$\ge 10 \text{ C}$ $\ge 1 \text{ CF}$	FU/g or U/ml	
		Detection of Sh	igellaspp.	IS 5887(Part 7) :1999, (RA 2009) US FDA BAM,8 th Edition,Revision ,Chapter 6, Jan 2001	n A	Present or 25m	t or Absent / 25 g ll	
		Enumeration of Pseudomonas a		IS 14843:2000, (RA 2009) / ISO 13720:1995		\geq 10 C \geq 1 CF	FU/g or U/ml	
		Detection of Sa	lmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM, 8 th Edition, Revisio A, Chapter 5, Updated May 2014	on	Present or 25 m	t or Absent / 25 g nl	
		Detection of Sta aureus(Coagula	1 *	IS 5887 (Part II):1976, (RA 2009)		Present 25 ml	t or Absent/25 g or	
		Enumeration of Staphylococcus aureus(Coagula		IS 5887 (Part II):1976, (RA 2009) IS 5887(Part 8/Sec 1):2002, Amendment No. 1 Jan. 2010/ ISO 6888 -1 : 1999 US FDA BAM, 8 th Edition, Revisio Chapter 12,Jan 2001	on A,	≥ 10 C ≥ 1 CF	FU /g or 'U /ml	

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Disc	cipline	Biological Testing	ls	ssue Date	e 02.12.2014		
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		nge of Testing / lits of Detection		
	Vegetable & Vegetable Products	Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 9, May, 2004	Pres n A, or 2	sent or Absent /25 g 5 ml		
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 9, May, 2004		sent or Absent/ g or 25 ml		
		Enumeration of Enterobacteriaceae Detection of Listeria monocytogenes	IS/ISO 7402: 1993, (RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 10, April 2011, Updated Feb 2013	$ \frac{\geq 1}{\text{Pres}} $) CFU /g or CFU/ml sent or Absent / 25 g 5 ml		
		Enumeration of Bacillus cereus	IS 5887(Part 6):2012, ISO 7932:20) CFU/g or CFU / ml		
		Incubation at37°C for 10 days and 55°C for 7 days	Compendium of methods for the microbiological examination of foods,APHA,4 th Edition, Chapter 61, Page No. 577	No	changes in pH		
		Flat Sour Organisms	Compendium of methods for the microbiological examination of foods,APHA,4 th Edition, Chapter 24, Page No.239 WI/SAP-Micro/5/82) CFU/g or CFU /ml		
		Yeast and Spores	AOAC,19 th Edition,984.29, Page No. 69	<u>≥</u> 1 p	per 1/60 c.m.m.		

La Pa		Laboratory Service Pathardi Road, Indi	Ashwamedh Engineers & Consultants Co-op. Soc. Ltd., Laboratory Services Division, Survey No. 102, Plot No. 26, Wadala Pathardi Road, Indira Nagar, Nashik, Maharashtra 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			of Testing / of Detection	
6.	Canned, Processed and Frozen Foods	Aerobic Microbial Count/Total Viable Count/Total Plate Count/Total Bacterial Count	IS 5402:2012 US FDA BAM, 8th Edition,Revis Chapter 3, Jan 2001	sion A,	$\geq 10 \text{ CF}$ $\geq 1 \text{ CFU}$ $\geq 10 \text{ CF}$ $\geq 1 \text{ CFU}$	/ml U/g or	
		Coliform Count	IS 5401 (Part 1):2002, (RA 2007) ISO 4832 : 1991 IS 5401 (Part 2):2012 / ISO 4831 US FDA BAM, 8 th Edition, Revis A,Chapter 4, Sept.2002, Updated Feb 2013)/ :2006 sion	$\geq 10 \text{ CF}$ $\geq 1 \text{ CFU}$ $< 0.3 \text{ to } 1$ index/g ($\geq 10 \text{ CF}$ $\geq 1 \text{ CFU}/$	U /g or /ml 1x10 ⁶ MPN or ml U/ g or /ml x10 ⁶ MPN	
		Yeast and Mould Count/Mould Count	IS 5403:1999, (RA 2009) US FDA BAM, 8 th Edition, Revis Chapter 18, April 2001	sion A,	\geq 10 CF \geq 1 CFU \geq 10 CF \geq 10 CF \geq 1 CFU	U/g or /ml U/g or	
		Detection of Escherichia coli (Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)	2000)		or Absent / 25g	
		Enumeration of Escherichia coli	IS 5887(Part I):1976, (RA 2009) US FDA BAM, 8 th Edition, Revis Chapter 4, Sept.2002, Updated Feb 2013	sion A	\geq 10CFU \geq 1 CFU 0.3 to 1. index/g of	/g or /ml 1x10 ⁶ MPN or ml x10 ⁶ MPN	

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed			of Testing / of Detection		
	Canned, Processed and Frozen Foods	Detection of Clostridiumperfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition ,Revisio Chapter 16, Jan 2001		Present o or 25ml	or Absent / 25 g		
		Enumeration of Clostridiumperfringens	IS 5887 (Part 4):1976, (RA 2005) US FDA BAM, 8 th Edition,Revisior Chapter 16, Jan 2001		<u>></u> 10 CFU <u>></u> 1 CFU	-		
		Enumeration of Sulfite reducing bacteria	ISO 15213: 2003		<u>></u> 10 CFU ≥ 1 CFU	-		
		Detection of FaecalStreptococci(Enteroco cci)	IS 5887 (Part II):1976, (RA 2009)	F	_	or Absent / 25 g		
		Enumeration of Faecal Streptococci	IS 5887 (Part II):1976, (RA 2009)		<u>></u> 10 CFU <u>></u> 1CFU/			
		Detection of Shigellaspp.	IS 5887(Part 7) :1999, (RA 2009) US FDA BAM,8 th Edition,Revision ,Chapter 6, Jan 2001	ion A or 25ml		or Absent / 25 g		
		Enumeration of Pseudomonas aeruginosa	IS 14843:2000, (RA 2009) / ISO 13720:1995			-		
		Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM, 8 th Edition,Revisior Chapter 5, May 2014	F		or Absent / 25 g		
		Detection of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009)		Present o 25 ml	or Absent/25 g or		

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S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		ge of Testing / its of Detection			
Canned, Processed and Frozen Foods	Enumeration of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009) IS 5887(Part 8/Sec 1):2002, Amendment No.1 Jan. 2010/ ISO 6888 -1 : 1999 US FDA BAM, 8 th Edition, Revisi Chapter 12,Jan 2001	≥ 1 C	CFU /g or CFU /ml			
	Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition, Revisi Chapter 9, May, 2004		ent or Absent /25 g 5 ml			
	Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 9, May, 2004		ent or Absent/ or 25 ml			
	Enumeration of Enterobacteriaceae	IS/ISO 7402: 1993, (RA 2009)		CFU /g or CFU/ml			
	Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition, Revisi A, Chapter 10, April 2011, Updated Feb 2013	on Prese or 25	ent or Absent / 25 g 5 ml			
	Enumeration of Bacillus cereus	IS 5887(Part 6):2012, ISO 7932:2004		CFU/g or CFU / ml			
	Incubation at37°C for 10 days and 55°C for 7 days	Compendium of methods for the microbiological examination of foods,APHA,4 th Edition, Chapter 61, Page No.577	No c	hanges in pH			
	Flat Sour Organisms	Compendium of methods for the microbiological examination of foods,4 th Edition,APHA, Chapter 24, Page No.239 WI/SAP-Micro/5/82		CFU/g or CFU /ml			

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Disc	ipline	Biological Testing	Is	sue Date	02.12.201	4		
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing s of Detectio			
	Canned, Processed and Frozen Foods	Yeast and Spores	AOAC,19 th Edition, 984.29, Page No.69	<u>≥</u> 1 per	1 /60 c.m.m.			
7.	Jams, Juices, Sauces and Concentrates	Aerobic Microbial Count/Total Viable Count/ Total Plate Count/ Total Bacterial Count Coliform Count	IS 5402:2012 US FDA BAM, 8th Edition, Revision Chapter 3, Jan 2001 IS 5401 (Part 1):2002, (RA 2007)/ ISO 4832 : 1991 IS 5401 (Part 2):2012 / ISO 4831:200 US FDA BAM, 8 th Edition, Revision	$\begin{array}{r} \text{CFU/n} \\ \text{n A,} \\ \geq 10 \\ \text{CFU/n} \\ \geq 10 \\ \text{CFU/n} \\ 06 \\ < 0.3 \\ \text{tr} \\ \text{index/} \end{array}$	CFU/g or nl CFU/g or≥1	≥1 ≥1		
		Verter IM-11	Chapter 4, Sept.2002, Updated Feb 2013	\ge 1 Cl <3 to index/	FU/ml 1.1x10 ⁶ MPN g or ml	. 1		
		Yeast and Mould Count/Mould Count	IS 5403:1999, (RA 2009) US FDA BAM, 8 th Edition, Revision Chapter 18, April 2001	CFU/r	$CFU/g \text{ or } \ge 1$	<u>></u> 1		
		Detection of Escherichia coli (Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)	Preser or 25r	nt or Absent / 2 nl	25g		

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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		
Jams, Juices, Sauces and Concentrates	Enumeration of Escherichia coli	IS 5887(Part I):1976, (RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 4, Sept.2002,Updated Feb 2013		\geq 10CFU/g or \geq 1 CFU/ ml 0.3 to 1.1x10 ⁶ MPN index/g or ml <3 to 1.1x10 ⁶ MPN index/g or ml		
	Detection of Clostridium perfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 16, Jan 2001	on A,	Present or Absent / 25 g or 25ml		
	Enumeration of Clostridiumperfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition,Revision Chapter 16, Jan 2001		\geq 10 CFU /g or \geq 1 CFU /ml		
	Enumeration of Sulfite reducing bacteria	ISO 15213: 2003		\geq 10 CFU /g or \geq 1 CFU/ml		
	Detection of FaecalStreptococci(Enteroco cci)	IS 5887 (Part II):1976, (RA 2009)		Present or Absent / 25 g or 25 ml		
	Enumeration of Faecal Streptococci	IS 5887 (Part II):1976, (RA 2009)		\geq 10 CFU/g or \geq 1CFU/ml		
	Detection of Shigellaspp.	IS 5887(Part 7) :1999, (RA 2009) US FDA BAM,8 th Edition, Revision Chapter 6, Jan 2001	n A,	Present or Absent / 25 g or 25ml		
	Enumeration of Pseudomonas aeruginosa	IS 14843:2000, (RA 2009) / ISO 13720:1995		\geq 10 CFU/g or \geq 1 CFU/ml		

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S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed			e of Testing / of Detection		
Jams, Juices, Sauces and Concentrates	Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM, 8 th Edition,Revisi Chapter 5, May 2014	on A,	Present or 25 m	t or Absent / 25 g nl		
	Detection of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009))	Present 25 ml	t or Absent/25 g or		
	Enumeration of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009) IS 5887(Part 8/Sec 1):2002, Amendment No. 1 Jan. 2010/ ISO 6888 -1 : 1999 US FDA BAM, 8 th Edition,Revisi Chapter 12,Jan 2001		\geq 10 Cl \geq 1 CF	FU /g or U /ml		
	Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition, Revisi Chapter 9, May, 2004		Present or 25 m	t or Absent /25 g hl		
	Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009 US FDA BAM, 8 th Edition, Revisi Chapter 9, May, 2004		Present 25 g or	e or Absent/ 25 ml		
	Enumeration of Enterobacteriaceae	IS/ISO 7402: 1993, (RA 2009)		\geq 10 C CFU/m	FU /g or≥ 1 ıl		
	Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition, Revisi Chapter 10, April 2011, Updated Feb 2013	on A,	Present gor 25	a or Absent / 25 ml		
	Enumeration of Bacillus cereus	IS 5887(Part 6):2012, ISO 7932:2	2004	$\geq 10 \text{ C}$ $\geq 1 \text{ CF}$	FU/g or U /ml		

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Acc	reditation Standa	rd ISO/IEC 17025: 200	5					
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		Range of Te Limits of De			
	Jams, Juices, Sauces and Concentrates	Flat sour organisms	Compendium of methods for the microbiological examination of fo APHA,4 th Edition,Chapter 24, Page No.239 WI/SAP-Micro/5/82	oods,	\geq 10 CFU/g or \geq 1 CFU /ml	r		
		Yeast and Spores	AOAC,19 th Edition,984.29,Page N	0.69	≥1 per 1/60 c.:	m.m.		
8.	Nut and Nut Products	Aerobic Microbial Count/Total Viable Count/Total Plate Count/Total Bacterial Count	IS 5402:2012 US FDA BAM, 8t ^h Edition, Revis Chapter 3, Jan 2001	ion A,	\geq 10 CFU/g or \geq 1CFU/ml \geq 10 CFU/g or CFU/ml		<u>></u> 1	
		Coliform Count	IS 5401 (Part 1):2002, (RA 2007)/ ISO 4832 : 1991 IS 5401 (Part 2):2012 / ISO 4831: US FDA BAM, 8 th Edition,Revisio Chapter 4, Sept.2002, Updated Feb 2013	2006	$\geq 10 \text{ CFU /g c}$ CFU/ml <0.3 to 1.1x10 index/g or ml $\geq 10 \text{ CFU/ g c}$ CFU/ml <3 to 1.1x10 ⁶ 1 index/g or ml) ⁶ MPN or <u>></u> 1		
		Yeast and Mould Count	IS 5403:1999, (RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 18, April 2001	on A,	\geq 10 CFU/g or CFU/ml \geq 10 CFU/g or CFU/ml		<u>></u> 1	

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Accreditation Standa	rd ISO/IEC 17025: 200	5				
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S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		Range of Testing / .imits of Detection		
Nut and Nut	Detection of Escherichia coli	IS 5887(Part I):1976, (RA 2009)		Present or Absent / 25g		
Products	(Thermotolerant bacteria) Enumeration of Escherichia coli	IS 5887(Part I):1976, (RA 2009)	<u>></u> 0 0	or 25ml ≥ 10 CFU /g or ≥ 1 CFU / ml $\geq 1.1 \times 10^{6}$ MPN ndex/g or ml		
		US FDA BAM, 8 th Edition,Revise Chapter 4, Sept.2002, Updated Feb 2013	ion A <	$3 \text{ to } 1.1 \times 10^6 \text{MPN}$ ndex/g or ml		
	Detection of Clostridiumperfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition ,Revise Chapter 16, Jan 2001	· • •	Present or Absent / 25 g or 25ml		
	Enumeration of Clostridiumperfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition ,Revis Chapter 16, Jan 2001	–	2 10 CFU /g or 2 1 CFU /ml		
	Enumeration of Sulfite reducing bacteria	ISO 15213: 2003		10 CFU /g or 1 CFU/ml		
	Detection of FaecalStreptococci (Enterococci)	IS 5887 (Part II):1976, (RA 2009	1	Present or Absent / 25 g or 25 ml		
	Enumeration of Faecal Streptococci	IS 5887 (Part II):1976, (RA 2009		\geq 10 CFU/g or \geq CFU /ml		
	Detection of Shigellaspp.	IS 5887(Part 7) :1999, (RA 2009) US FDA BAM,8 th Edition,Revisio Chapter 6, Jan 2001		Present or Absent / 25 g or 25ml		

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed			e of Testing / s of Detection	
	Nut and Nut Products	Enumeration of Pseudomonas aeruginosa	IS 14843:2000, (RA 2009) / ISO 13720:1995		\geq 10 C \geq 1 CF	EFU/g or FU /ml	
		Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM, 8 th Edition, Revis: Chapter 5, May 2014		Presen or 25 r	t or Absent / 25 g nl	
		Detection of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009)	Presen 25 ml	t or Absent/25 g or	
		Enumeration of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009 IS 5887(Part 8/Sec 1):2002, Amendment No.1,Jan. 2010/ISO -1 : 1999 US FDA BAM, 8 th Edition,Revisio Chapter 12,Jan 2001	6888	\geq 10 C \geq 1 CF	EFU /g or FU /ml	
			US FDA BAM, 8 th Edition,Revis Chapter 12,Jan. 2009	ion A,			
		Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition,Revisi Chapter 9, May, 2004		Presen or 25 r	t or Absent /25 g nl	
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009 US FDA BAM, 8 th Edition, Revise Chapter 9, May, 2004			t or Absent/ r 25 ml	
		Enumeration of Enterobacteriaceae	IS/ISO 7402: 1993, (RA 2009)		≥ 10 C CFU/n	CFU /g or≥ 1 nl	
		Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition, Revis Chapter 10, April 2011, Updated Feb 2013	ion A,	Presen or 25 r	t or Absent / 25 g nl	

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed			e of Testing / of Detection	
	Nut and Nut Products	Enumeration of Bacillus cereus	IS 5887(Part 6):2012, ISO 7932:2	2004	$\geq 10 \text{ C}$ $\geq 1 \text{ CF}$	FU/g or U / ml	
		Total Aflatoxins	ELISA Method, SOP No.WI/SAP-Micro/5/74		<u>≥</u> 1.7 pp	bb	
9.	Pulses and Pulse Products	Aerobic Microbial Count/Total Viable Count/Total Plate Count/Total Bacterial Count Coliform Count	IS 5402:2012	≥ 100		FU/g	
			US FDA BAM, 8 th Edition,Revisi Chapter 3, Jan 2001	on A,	\geq 10 CFU/g		
			IS 5401 (Part 1):2002, (RA 2007) ISO 4832 : 1991	/	\geq 10 C	FU /g	
			IS 5401 (Part 2):2012 / ISO 4831	:2006	<0.3 to index/g	1.1x10 ⁶ MPN	
			US FDA BAM, 8 th Edition, Revis A,Chapter 4, Sept.2002,Updated 2 2013		$\geq 10 \text{ C}$	·	
			2015			.1x10 ⁶ MPN	
		Yeast and Mould Count	IS 5403:1999, (RA 2009)		index/g $\geq 10 \text{ CFU/g}$		
			US FDA BAM,8 th Edition,Revisio Chapter 18, April 2001	on A,	$\geq 10 \text{ C}$	FU/g	
		Detection of Escherichia coli (Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)		Present	t or Absent / 25g	
		Enumeration of Escherichia coli	IS 5887(Part I):1976, (RA 2009)		\geq 10 CFU /g 0.3 to 1.1x10 ⁶ MPN		
			US FDA BAM ,8 th Edition ,Revis Chapter 4, Sept.2002,Updated Fe 2013		index/g <3 to 1 index/g	$.1 \times 10^{6} MPN$	

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed			of Testing / of Detection	
	Cereals and Cereal Products Pulses and Pulse Products	Detection of Clostridiumperfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition ,Revisio Chapter 16, Jan 2001			or Absent / 25 g	
		Enumeration of Clostridiumperfringens	IS5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 16, Jan 2001	on A,	\geq 10 CFU /g on A,		
		Enumeration of Sulfite reducing bacteria	ISO 15213 : 2003		\geq 10 CFU /g		
		Detection of FaecalStreptococci(Enteroco cci)	IS 5887 (Part II):1976, (RA 2009))	Present or Absent / 25 g Present or Absent / 0.1 g		
		Enumeration of FaecalStreptococci	IS 5887 (Part II):1976, (RA 2009))	\geq 10 CFU/g		
		Enumeration of Pseudomonas aeruginosa			$\geq 10 \text{ CFU/g}$		
		Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 5, May 2014	on A,	Present	or Absent / 25g	
		Detection of Shigella spp.	IS 5887(Part 7):1999, (RA 2009) US FDA BAM,8 th Edition,		Present	or Absent / 25g	
	2] !	Detection of Staphylococcus aureus(Coagulase positive) Enumeration of Staphylococcus aureus(Coagulase positive)	Revision A, Chapter 6, Jan 2001 IS 5887 (Part II):1976, (RA 2009)	Present	or Absent /25g	
			IS 5887(Part II):1976, (RA 2009) IS 5887(Part 8/Sec 1):2002, Amendment No. 1, Jan. 2010/ ISO 6888 -1 : 1999 US FDA BAM,8 th Edition , Revision A,Chapter 12,Jan 2001		≥ 10 C	FU /g	

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	Cereals and Cereal Products Pulses and Pulse	Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 9, May, 2004		Present or Absent/ 25g		
	Products	Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009 US FDA BAM, 8 th Edition,Revisio Chapter 9, May, 2004		Present or Absent/ 25g		
		Enumeration of Enterobacteriaceae	IS/ISO 7402 :1993, (RA 2009)	<u>></u> 1	\geq 10 CFU /g		
		Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition,Revisio Chapter 10, April 2011, Updated Feb 2013	on A, Pre	sent or Absent / 25 g		
		Enumeration of Bacillus cereus	IS 5887(Part 6):2012, ISO 7932:20	004 ≥ 1	0 CFU/g		
		Total Aflatoxin	ELISA Method, SOP No.WI/SAP Micro/5/74	- <u>≥</u> 1.	7 ррb		
10.	Bakery Products	Aerobic Microbial Count/Total Viable	IS 5402:2012		0 CFU/g		
C		Count/Total Viable Count/Total Plate Count/Total Bacterial Count	US FDA BAM,8 th Edition, Revisio Chapter 3, Jan 2001	on A, ≥ 1	0 CFU/g		

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Bakery Products	Coliform Count	IS 5401 (Part 1):2002, (RA 2007 4832 : 1991 IS 5401 (Part 2):2012 / ISO 4831	:2006	\geq 10 C <0.3 to index/g	1.1x10 ⁶ MPN
		US FDA BAM, 8 th Edition,Revis Chapter 4, Sept.2002, Updated Feb 2013	ion A,		.1x10 ⁶ MPN
	Yeast and Mould Count	IS 5403:1999, (RA 2009) US FDA BAM,8 th Edition, Revis Chapter 18, April 2001	ion A,	$\geq 10 \text{ C}$ $\geq 10 \text{ C}$	-
	Detection of Escherichia coli (Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)		Present	t or Absent / 25g
	Enumeration of Escherichia coli	IS 5887(Part I):1976, (RA 2009) US FDA BAM, 8 th Edition, Revis		index/g <3 to 1	1.1x10 ⁶ MPN g .1x10 ⁶ MPN
		Chapter 4, Sept.2002, Updated Feb 2013		index/g	r >
	Detection of Clostridiumperfringens	IS 5887 (Part 4):1976, (RA 2009 US FDA BAM,8 th Edition,Revisi Chapter 16, Jan 2001		Present	t or Absent / 25 g
	Enumeration of Clostridiumperfringens	IS5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition,Revis Chapter 16, Jan 2001		≥ 10 C	FU /g

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Bakery Products	Enumeration of Sulfite reducing bacteria	ISO 15213 : 2003	≥ 10 C	FU /g
	Detection of FaecalStreptococci(Enteroco cci)	IS 5887 (Part II):1976, (RA 2009)		t or Absent / 25 nt or Absent / 0.1
	Enumeration of FaecalStreptococci	IS 5887 (Part II):1976, (RA 2009)	≥ 100	CFU/g
	Enumeration of Pseudomonas aeruginosa	IS 14843:2000, (RA 2009) / ISO 13720:1995	$\geq 10 \text{ C}$	FU/g
	Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM,8 th Edition ,Revisi Chapter 5, May 2014		t or Absent / 25g
	Detection of Shigella spp.	IS 5887(Part 7):1999, (RA 2009) US FDA BAM,8 th Edition,Revisio Chapter 6, Jan 2001		t or Absent / 25g
	Detection of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009	9) Presen	t or Absent /25g
	Enumeration of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009) IS 5887(Part 8/Sec 1):2002, Amendment No. 1, Jan. 2010/ ISO 6888 -1 : 1999 US FDA BAM,8 th Edition, Revisio Chapter 12,Jan 2001	≥ 100	CFU /g
	Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition, Revisi Chapter 9, May, 2004		t or Absent/ 25g

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	Bakery Products	Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009) US FDA BAM,8 th Edition, Revision A,Chapter 9, May, 2004) Preser	nt or Absent/ 25g			
	Enumeration of Enterobacteriaceae	IS/ISO 7402 :1993, (RA 2009)	<u>></u> 10 C	CFU /g				
		Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition,Revisio Chapter 10, April 2011, Updated Feb 2013	on A, Preser	nt or Absent / 25 g			
		Enumeration of Bacillus cereus	IS 5887(Part 6):2012, ISO 7932:20	$2004 \ge 10 \text{ C}$	CFU/g			
11.	Starch and Starch	Aerobic Microbial	IS 5402:2012	\geq 10 C	CFU/g			
	Products	coducts Count/Total Viable Count/ Total Plate Count/ Total Bacterial Count	US FDA BAM,8 th Edition, Revisio Chapter 3, Jan 2001	on A, ≥ 10 C	CFU/g			
		Coliform Count	IS 5401 (Part 1):2002, (RA 2007)/	$\geq 10 \text{ C}$	CFU /g			
			ISO 4832 : 1991 IS 5401 (Part 2):2012 / ISO 4831::		o 1.1x10 ⁶ MPN			
			US FDA BAM, 8 th Edition, Revisio	$\frac{\text{index}}{2}$	g CFU / g			
		Chapter 4, Sept.2002, Updated Feb 2013	<3 to index/	1.1x10 ⁶ MPN g				
		Yeast and Mould Count	IS 5403:1999, (RA 2009)	<u>></u> 10 C	CFU/g			
			US FDA BAM,8 th Edition, Revisio Chapter 18, April 2001	on A, ≥ 10 C	CFU/g			

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		ange of Testing / mits of Detection		
	Starch and Starch Products	Detection of Escherichia coli (Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)	Pr	resent or Absent / 25g		
		Enumeration of Escherichia coli	IS 5887(Part I):1976, (RA 2009) US FDA BAM ,8 th Edition,RevisionA,Chapter 4, Sept.2002,Updated Feb 2013	0 in <3	10 CFU /g 3 to 1.1x10 ⁶ MPN dex/g 3 to 1.1x10 ⁶ MPN dex/g		
		Detection of Clostridiumperfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition,Revisi Chapter 16, Jan 2001		resent or Absent / 25 g		
		Enumeration of Clostridiumperfringens	IS5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition, Revisi Chapter 16, Jan 2001		10 CFU /g		
		Enumeration of Sulfite reducing bacteria	ISO 15213 : 2003	\geq	10 CFU /g		
		Detection of FaecalStreptococci (Enterococci)	IS 5887 (Part II):1976, (RA 2009)		resent or Absent / 25 g resent or Absent / 0.1 g		
		Enumeration of FaecalStreptococci	IS 5887 (Part II):1976, (RA 2009)	2	10 CFU/g		
		Enumeration of Pseudomonas aeruginosa	IS 14843:2000, (RA 2009) / ISO 13720:1995	≥	10 CFU/g		
		Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 5, May 2014		resent or Absent / 25g		

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Discipline		Biological Testing		Issue	Date	02.12.2014
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S.No. Product / Material of T		ecific Test Performed	Test Method Specification against which tests are performed			e of Testing / of Detection
Starch and St Products	t arch Det	ection of Shigella spp.	IS 5887(Part 7):1999, (RA 2009) US FDA BAM,8 th Edition,Revisio Chapter 6, Jan 2001		Present	t or Absent / 25g
	Stap	ection of phylococcus eus(Coagulase positive)	IS 5887 (Part II):1976, (RA 200	9)	Present	or Absent /25g
	Stap	umeration of phylococcus eus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009) IS 5887(Part 8/Sec 1):2002, Amendment No. 1, Jan. 2010/ ISO 6888 -1 : 1999 US FDA BAM,8 th Edition, Revis Chapter 12, Jan 2001		≥ 10 C	CFU /g
	Det	ection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition,Revisi Chapter 9, May, 2004		Present	t or Absent/ 25g
		ection of Vibrio ahaemolyticus	IS 5887 (Part V) :1976,(RA 2009 US FDA BAM, 8 th Edition,Revisio Chapter 9, May, 2004		Present	t or Absent/ 25g
		meration of erobacteriaceae	IS/ISO 7402 :1993, (RA 2009)		$\geq 10 \text{ C}$	FU /g
		ection of Listeria nocytogenes	US FDA BAM, 8 th Edition ,Revis Chapter 10, April 2011, Updated Feb 2013	sion A,	Present	e or Absent / 25 g
	Enucere	meration of Bacillus eus	IS 5887(Part 6):2012, ISO 7932:2	2004	≥ 10 C	FU/g

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		nge of Testing / nits of Detection
12.	Meat and Meat	Aerobic Microbial	IS 5402:2012	<u>></u>]	l0 CFU/g
	Products	Count/Total Viable Count/Total Plate Count/Total Bacterial Count	US FDA BAM, 8 th Edition,Revisio Chapter 3, Jan 2001	on A, ≥ 1	10 CFU/g
		Coliform Count	IS 5401 (Part 1):2002, (RA 2007)/ ISO 4832 : 1991	<u>></u> 1	0 CFU /g
			IS 5401 (Part 2):2012 / ISO 4831:2		3 to 1.1x10 ⁶ MPN ex/g
			US FDA BAM, 8 th Edition, Revisio ,Chapter 4, Sept.2002, Updated Feb 2013	on A ≥ 1	0 CFU / g
			opuated 1 co 2015		to 1.1x10 ⁶ MPN ex/g
		Yeast and Mould Count	IS 5403:1999, (RA 2009) US FDA BAM,8 th Edition,Revision Chapter 18, April 2001		0 CFU/g 0 CFU/g
		Detection of Escherichia coli (Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)	Pre	sent or Absent / 25g
		Enumeration of Escherichia coli	IS 5887(Part I):1976, (RA 2009)	<u>></u> 1	0 CFU /g
		COIL	US FDA BAM ,8 th Edition, Revisio Chapter 4, Sept.2002,Updated Feb 2013	indon A, <3	to 1.1x10 ⁶ MPN ex/g to 1.1x10 ⁶ MPN ex/g

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S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		ge of Testing / its of Detection
Meat and Meat Products	Detection of Clostridium perfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition, Revis A, Chapter 16, Jan 2001		ent or Absent / 25 g
	Enumeration of Clostridium perfringens	IS5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 16, Jan 2001		CFU /g
	Enumeration of Sulfite reducing bacteria	ISO 15213 : 2003	<u>></u> 10	CFU /g
	Detection of FaecalStreptococci (Enterococci)	IS 5887 (Part II):1976, (RA 2009)	Prese	ent or Absent / 25 g
	(Enterococci)			
	Enumeration of FaecalStreptococc i(Enterococci)	IS 5887 (Part II):1976, (RA 2009)	<u>></u> 10) CFU/g
	Enumeration of Pseudomonas aeruginosa	IS 14843:2000, (RA 2009) / ISO 13720:1995	<u>></u> 10	CFU/g
	Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 5, May 2014		ent or Absent / 25g
	Detection of Shigella spp.	IS 5887(Part 7):1999, (RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 6, Jan 2001		ent or Absent / 25g

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S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection
Meat and Meat Products	Detection of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009)	Presen	t or Absent / 25 g
	Enumeration of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009) IS 5887(Part 8/Sec 1):2002, Amendment No.1,Jan 2010/ ISO 6888 -1:1999 US FDA BAM,8 th Edition, Revision Chapter 12,Jan 2001	≥ 10 0 n A,	CFU /g
	Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM,8 th Edition, Revision Chapter 9, May, 2004	Presen n A,	t or Absent / 25 g
	Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009) US FDA BAM,8 th Edition,RevisionA,Chapter May, 2004		t or Absent / 25 g
	Enumeration of Enterobacteriaceae	IS/ISO 7402 :1993, (RA 2009)	≥ 10 C	FU/g
	Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition,Revision Chapter 10, April 2011,Updated Fe 2013		t or Absent / 25 g
	Enumeration of Bacillus cereus	IS 5887(Part 6):2012, ISO 7932:20	$04 \ge 100$	CFU/g

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed			e of Testing / of Detection
13.	Poultry and Poultry Products	Aerobic Microbial Count/Total Viable Count /Total Plate Count /Total Bacterial Count	IS 5402:2012 US FDA BAM, 8 th Edition, Revisi Chapter 3, Jan 2001	ion A,	\geq 10 C \geq 10 C	-
		Coliform Count	IS 5401 (Part 1):2002, (RA 2007) ISO 4832 : 1991 IS 5401 (Part 2):2012 / ISO 4831: US FDA BAM, 8 th Edition, Revisio Chapter 4,Sept.2002,Updated Feb	2006 onA,	index/g $\geq 10 \text{ C}$	1.1x10 ⁶ MPN g FU / g .1x10 ⁶ MPN
		Yeast and Mould Count	IS 5403:1999, (RA 2009) US FDA BAM,8 th Edition, Revisio Chapter 18, April 2001	on A,	\geq 10 Cl \geq 10 Cl	•
		Detection of Escherichia coli (Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)		Present	t or Absent / 25g
		Enumeration of Escherichia coli	IS 5887(Part I):1976, (RA 2009)		\geq 10 Cl 0.3 to 1 index/g	$.1x10^{6}MPN$
			US FDA BAM ,8 th Edition , Revis Chapter 4, Sept.2002,Updated Feb 2013		<3 to 1 index/g	

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Poultry and Poultry Products	Detection of Clostridium perfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 16, Jan 2001	Pr onA,	resent or Absent / 25 g
	Enumeration of Clostridium perfringens	IS5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 16, Jan 2001		10 CFU /g
	Enumeration of Sulfite reducing bacteria	ISO 15213 : 2003	2	10 CFU /g
	Detection of FaecalStreptococci (Enterococci)	IS 5887 (Part II):1976, (RA 2009)	P1	resent or Absent / 25 g
	Enumeration of FaecalStreptococci	IS 5887 (Part II):1976, (RA 2009)) <u>></u>	10 CFU/g
	Enumeration of Pseudomonas aeruginosa	IS 14843:2000, (RA 2009) / ISO 13720:1995	2	10 CFU/g
	Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 5, May 2014		resent or Absent / 25g
	Detection of Shigella spp.	IS 5887(Part 7):1999, (RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 6, Jan 2001		resent or Absent / 25g
	Detection of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009)	P1	resent or Absent / 25 g

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Disc	ipline	Biological Testing	ls	ssue [Date	02.12.2014
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed			of Testing / of Detection
	Poultry and Poultry Products	Enumeration of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009) IS 5887(Part 8/Sec 1):2002, Amendment No. 1, Jan 2010/ ISO 6888 -1 : 1999 US FDA BAM, 8 th Edition,Revision Chapter 12,Jan 2001		$\geq 10 \mathrm{Cl}$	FU /g
		Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition, Revisic A, Chapter 9, May 2004		Present	or Absent / 25 g
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 9, May 2004		Present	or Absent / 25 g
		Enumeration of Enterobacteriaceae	IS/ISO 7402 :1993, (RA 2009)		<u>></u> 10 CF	FU/g
		Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition, Revisio Chapter 10, April 2011, Updated Feb 2013	on A,	Present	or Absent / 25 g
		Enumeration of Bacillus cereus	IS 5887(Part 6):2012, ISO 7932:20)04	≥10 CF	U/g
14.	Fish and Fish	Aerobic Microbial Count /Total Viable Count /Total	IS 5402:2012		≥10 CF	U/g
	Products, Sea Foods	Plate Count/ Total Bacterial Count	US FDA BAM, 8 th Edition, Revisio Chapter 3, Jan 2001	on A,	<u>></u> 10 CF	FU/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 and Fish Products, Sea Foods	Coliform Count	IS 5401 (Part 1):2002, (RA 2007)/ 4832 : 1991 IS 5401 (Part 2):2012 / ISO 4831:2 US FDA BAM, 8 th Edition, Revisio Chapter 4,Sept.2002,Updated Feb	2006 i onA, 2 2013	≥ 10 CFU /g <0.3 to 1.1x10 ⁶ MPN index/g ≥ 10 CFU/g <3 to 1.1x10 ⁶ MPN index/g
	Yeast and Mould Count	IS 5403:1999, (RA 2009) US FDA BAM,8 th Edition, Revisio Chapter 18, April 2001		≥ 10 CFU/g ≥ 10 CFU/g
	Detection of Escherichia coli (Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)]	Present or Absent / 25g
	Enumeration of Escherichia coli	IS 5887(Part I):1976, (RA 2009) US FDA BAM ,8 th Edition , Revis Chapter 4,Sept.2002,Updated Feb	(i sion A, <	≥ 10 CFU/g 0.3 to 1.1x10 ⁶ MPN index/g <3 to 1.1x10 ⁶ MPN index/g
	Detection of Clostridium perfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 16, Jan 2001		Present or Absent / 25 g
	Enumeration of Clostridium perfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition, Revisi Chapter 16, Jan 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		e of Testing / s of Detection			
	Fish and Fish Products, Sea Foods	Enumeration of Sulfite reducing bacteria	ISO 15213 : 2003	<u>></u> 10 C	CFU /g			
	Foous	Detection of FaecalStreptococci (Enterococci)	IS 5887 (Part II):1976, (RA 2009)	Preser	nt or Absent / 25 g			
		Enumeration of FaecalStreptococci	IS 5887 (Part II):1976, (RA 2009)	<u>></u> 10	CFU/g			
		Enumeration of Pseudomonas aeruginosa	IS 14843:2000, (RA 2009) / ISO 13720:1995	<u>></u> 10 C	CFU/g			
		Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM, 8 th Edition,Revision Chapter 5, May 2014	A, Preser	nt or Absent / 25 g			
		Detection of Shigella spp.	IS 5887(Part 7):1999, (RA 2009) US FDA BAM, 8 th Edition, Revision Chapter 6, Jan 2001	Preser n A,	nt or Absent / 25g			
		Detection of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009)	Preser	nt or Absent / 25 g			
		Enumeration of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009) IS 5887(Part 8/Sec 1):2002, Amendment No. 1, Jan. 2010/ ISO 6888 -1 : 1999 US FDA BAM, 8 th Edition, Revisio Chapter 12,Jan 2001	_	CFU /g			

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		ange of Testing / mits of Detection
	Fish and Fish Products, Sea Foods	Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 9, May 2004		esent or Absent / 25 g
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 9, May 2004	on A,	esent or Absent /25 g
		Enumeration of	IS/ISO 7402 :1993, (RA 2009)	<u>></u> 1	10 CFU /g
		Enterobacteriaceae Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition,Revision Chapter 10, April 2011,Updated Fe 2013		esent or Absent / 25 g
		Enumeration of Bacillus	IS 5887(Part 6):2012, ISO 7932:20	$)04 \ge 1$	10 CFU/g
15.	Sweets and Confectionery Products	cereus Aerobic Microbial Count/Total Viable Count /Total Plate Count/Total Bacterial Count	IS 5402:2012 US FDA BAM,8th Edition, Revisio Chapter 3, Jan 2001		10 CFU /g 10 CFU /g
		Coliform Count	IS 5401 (Part 1):2002, (RA 2007)/I 4832 : 1991 IS 5401 (Part 2):2012 / ISO 4831:2 US FDA BAM, 8 th Edition, Revisio	2006 <0. ind on A <u>></u>	10 CFU /g .3 to 1.1x10 ⁶ MPN lex/g 10 CFU / g
			Chapter 4, Sept.2002, Updated Feb 2013		to 1.1x10 ⁶ MPN lex/g

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed			of Testing / of Detection	
	Sweets and Confectionery Products	Yeast and Mould Count	IS 5403:1999, (RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 18, April 2001	on A	\geq 10CF \geq 10 CF	-	
		Detection of Escherichia coli(Thermotolerant bacteria) (Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)		Present	or Absent / 25g	
		Enumeration of Escherichia	IS 5887(Part I):1976, (RA 2009)		$\geq 10 \mathrm{CF}$	SU /g	
		coli	US FDA BAM , 8 th Edition, Revisio Chapter 4,Sept.2002, Updated Feb 2013	on A	index/g i	1x10 ⁶ MPN index /g x10 ⁶ MPN	
		Detection of Clostridium perfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 16, Jan 2001	on A	Present	or Absent / 25 g	
		Enumeration of Clostridium perfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 16, Jan 2001	on A	$\geq 10 \mathrm{CF}$	FU /g	
		Enumeration of Sulfite reducing bacteria	ISO 15213: 2003		≥ 10 CF	U /g	
		Detection of FaecalStreptococci (Enterococci)	IS 5887 (Part II):1976, (RA 2009)		Present	or Absent / 25 g	
		Enumeration of FaecalStreptococci	IS 5887 (Part II):1976, (RA 2009)		≥ 10 CF	FU /g	

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection		
	Sweets and Confectionery Products	Enumeration of Pseudomonas aeruginosa	IS 14843:2000 , (RA 2009)/ ISO 13720:1995	≥ 10 C	°FU /g		
		Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM, 8 th Edition, Revision Chapter 5, May 2014		t or Absent / 25 g		
		Detection of Shigella spp.	IS 5887(Part 7):1999, (RA 2009) US FDA BAM, 8 th Edition, Revision Chapter 6, Jan 2001		t or Absent / 25 g		
		Detection of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976 (RA 2009)	Presen	t or Absent / 25 g		
		Enumeration of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976 (RA 2009) IS 5887(Part 8/Sec 1):2002, Amendment No. 1, Jan. 2010/ ISO 6888 -1 : 1999 US FDA BAM,8 th Edition, Revision Chapter 12, Jan 2001	≥ 10 G A,	CFU/g		
		Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition, Revision Chapter 9, May 2004	Presen A,	t or Absent / 25 g		
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009) US FDA BAM, 8 th Edition, Revision Chapter 9, May 2004		t or Absent / 25 g		
		Enumeration of Enterobacteriaceae	IS/ISO 7402: 1993, (RA 2009)	≥ 10 C	CFU /g		
		Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition, Revision Chapter 10, April 2011,Updated Feb 2013	,	t or Absent / 25 g		

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	Sweets and Confectionery Products	Enumeration of Bacillus cereus	IS 5887(Part 6):2012, ISO 7932:200)4 ≥ 10) CFU/g			
16.	Honey and Honey Products	Aerobic Microbial Count/Total Viable Count/Total Plate Count/Total Bacterial Count	IS 5402:2012 US FDA BAM, 8 th Edition, Revision Chapter 3, Jan 2001		CFU/g			
		Yeast & Mould Count	IS 5403:1999, (RA 2009 US FDA BAM, 8 th Edition, Revision Chapter 18, April 2001) CFU/g) CFU/g			
		Coliform Count	IS 5401 (Part 1):2002 , (RA 2007)/ ISO 4832 : 1991 IS 5401 (Part 2):2012 / ISO 4831:20 US FDA BAM, 8 th Edition, Revision Chapter 4,Sept.2002,Updated Feb 20	- 006 < 0.3 index n A, ≥ 10 013 <3 to index) CFU/ g o 1.1x10 ⁶ MPN ^{x/g}			
		Detection of Escherichia coli(Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)	Pres	ent or Absent / 25g			
		Enumeration of Escherichia coli	IS 5887(Part I):1976, (RA 2009) US FDA BAM ,8 th Edition,Revision Chapter 4,Sept.2002,	0.3 t inde	$0.1 \times 10^6 \text{MPN}$			

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Honey and Honey Products	Detection of Clostridium perfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition,RevisionA Chapter 16, Jan 2001		t or Absent / 25 g			
	Enumeration of Clostridium perfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition, Revisior Chapter 16, Jan 2001	≥ 10 C n A,	CFU /g			
	Enumeration of Sulfite reducing bacteria	ISO 15213: 2003	≥ 10 C	CFU /g			
	Detection of FaecalStreptococci (Enterococci)	IS 5887 (Part II):1976, (RA 2009)	Presen	t or Absent / 25 g			
	Enumeration of FaecalStreptococci	IS 5887 (Part II):1976, (RA 2009)	<u>></u> 10 C	CFU /g			
	Enumeration of Pseudomonas aeruginosa	IS 14843:2000, (RA 2009)/ ISO 13720:1995	≥ 10 C	FU /g			
	Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM, 8 th Edition, Revisior Chapter 5, May 2014		t or Absent / 25 g			
	Detection of Shigellaspp.	IS 5887(Part 7):1999, (RA 2009) US FDA BAM, 8 th Edition, Revision Chapter 6, Jan 2001		t or Absent / 25 g			
	Detection of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976 (RA 2009)	Presen	t or Absent / 25 g			

	oratory reditation Standa	Laboratory Service Pathardi Road, Indi	Ashwamedh Engineers & Consultants Co-op. Soc. Ltd., Laboratory Services Division, Survey No. 102, Plot No. 26, Wadala Pathardi Road, Indira Nagar, Nashik, Maharashtra ISO/IEC 17025: 2005					
Dise	cipline	Biological Testing	ls	sue Date	02.12.2014			
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Las	Amended on	13.12.2014		aye	55 01 50			
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		ge of Testing / its of Detection			
	Honey and Honey Products	Enumeration of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976 (RA 2009) IS 5887(Part 8/Sec 1):2002, Amendment No. 1, Jan. 2010/ ISO 6888 -1 : 1999 US FDA BAM, 8 th Edition, Revisio Chapter 12, Jan 2001	_) CFU /g			
		Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 9, May 2004		ent or Absent / 25 g			
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 9, May 2004		ent or Absent / 25 g			
		Enumeration of Enterobacteriaceae	IS/ISO 7402: 1993, (RA 2009)	<u>></u> 10	CFU /g			
		Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition, Revisio Chapter 10, April 2011,Updated Feb 2013		ent or Absent / 25 g			
		Enumeration of Bacillus cereus	IS 5887(Part 6):2012, ISO 7932:200	04 ≥ 10) CFU/g			
17.	Sugar and Sugar Products	Aerobic Microbial Count/Total Viable Count/Total Plate Count/Total Bacterial Count	IS 5402:2012 U FDA BAM, 8 th Edition, Revision A, Chapter 3, Jan 2001		CFU/g			
		Yeast &Mould Count	IS 5403:1999, (RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 18,April 2001) CFU/g) CFU/g			

	oratory reditation Standa	Laboratory Service Pathardi Road, Indi	Ashwamedh Engineers & Consultants Co-op. Soc. Ltd., Laboratory Services Division, Survey No. 102, Plot No. 26, Wadala Pathardi Road, Indira Nagar, Nashik, Maharashtra					
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed			e of Testing / s of Detection		
	Sugar and Sugar	Coliform Count	IS 5401 (Part 1):2002, (RA 2007))/ ISO	<u>></u> 10 C	CFU/g		
	Products		4832 : 1991 IS 5401 (Part 2):2012 / ISO 4831:	2006	index/g A \geq 10 CFU/g			
			US FDA BAM, 8 th Edition, Revise Chapter 4,Sept.2002,Updated Feb					
		Detection of Escherichia coli(Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)		Presen	t or Absent / 25g		
		Enumeration of Escherichia coli	IS 5887(Part I):1976, (RA 2009)			1.1x10 ⁶ MPN		
			US FDA BAM, 8 th Edition, Revisi Chapter 4,Sept.2002,Updated Feb		index/g <3 to 1 index/g	.1x10 ⁶ MPN		
		Detection of perfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition, Revise Chapter 16, Jan 2001		Presen	t or Absent / 25 g		
		Enumeration of Clostridium perfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition, Revise Chapter 16, Jan 2001		≥ 10 C	CFU /g		
		Enumeration of Sulfite reducing bacteria	ISO 15213: 2003		≥ 10 C	CFU /g		

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S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		ge of Testing / is of Detection			
Sugar and Sugar Products	Detection of FaecalStreptococci (Enterococci)	IS 5887 (Part II):1976, (RA 2009)	Prese	nt or Absent / 25 g			
	Enumeration of FaecalStreptococci	IS 5887 (Part II):1976, (RA 2009)	<u>≥</u> 10	CFU /g			
	Enumeration of Pseudomonas aeruginosa	IS 14843:2000, (RA 2009)/ ISO 13720:1995	<u>> 10 0</u>	CFU /g			
	Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 5, May 2014		nt or Absent / 25 g			
	Detection of Shigellaspp.	IS 5887(Part 7):1999, (RA 2009) US FDA BAM, 8 th Edition, Revisi Chapter 6, Jan 2001		nt or Absent / 25 g			
	Detection of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009)	Prese	nt or Absent / 25 g			
	Enumeration of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009) IS 5887(Part 8/Sec 1):2002, Amendment No.1, Jan. 2010/ ISO 6888 -1 : 1999 US FDA BAM, 8 th Edition, Revis Chapter 12,Jan 2001	<u>></u> 10	CFU /g			
	Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition, Revis Chapter 9, May 2004		nt or Absent / 25 g			

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed			e of Testing / s of Detection
	Sugar and Sugar Products	Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009 US FDA BAM, 8 th Edition, Revis Chapter 9, May 2004		Present	t or Absent / 25 g
		Enumeration of Enterobacteriaceae	IS/ISO 7402: 1993, (RA 2009)		<u>></u> 10 C	FU /g
		Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition, Revi Chapter 10, April 2011, Updated Feb 2013	sion A	Present	t or Absent / 25 g
		Enumeration of Bacillus cereus	IS 5887(Part 6):2012, ISO 7932:2	2004	≥ 10 C	CFU/g
18.	Herbs, Spices, Condimentsand Related Products	Aerobic Microbial Count/Total Viable Count /Total Plate Count /Total Bacterial Count	IS 5402:2012 US FDA BAM, Jan 2001, 8 th Edit Revision A, Chapter 3	ion,	\geq 10 C \geq 10 C	-
		Coliform Count	IS 5401 (Part 1):2002, (RA 2007) ISO 4832 : 1991)/	≥10 CI	FU /g
			IS 5401 (Part 2):2012 / ISO 4831	:2006	<0.3 to index/g	0 1.1x10 ⁶ MPN
			US FDA BAM, 8 th Edition, Revis Chapter 4, Sept.2002, Updated Feb 2013	sion A	≥ 10 C	CFU/ g .1x10 ⁶ MPN
		Yeast and Mould Count	IS 5403:1999, (RA 2009) US FDA BAM, 8 th Edition, Revis Chapter 18, April 2001	sion A	≥ 10 CH ≥ 10 C	-

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S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection			
Herbs, Spices,	Detection of Escherichia coli	IS 5887(Part I):1976, (RA 2009)	Presen	t or Absent / 25g			
Condimentsand Related Products	(Thermotolerant bacteria) Enumeration of Escherichia coli	IS 5887(Part I): 1976, (RA 2009)		1.1x10 ⁶ MPN			
		US FDA BAM ,8 th Edition, Revision Chapter 4,Sept.2002,Updated Feb 20		.1x10 ⁶ MPN			
	Detection ofClostridiumperfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition, Revision Chapter 16, Jan 2001		t or Absent / 25 g			
	Enumeration of Clostridium perfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition, Revisior Chapter 16, Jan 2001	≥ 10 C n A	FU /g			
	Enumeration of Sulfite reducing bacteria	ISO 15213: 2003	<u>≥</u> 10 C	FU /g			
	Detection of FaecalStreptococci(Enteroco cci)	IS 5887 (Part II):1976, (RA 2009)	Presen	t or Absent / 25g			
	Enumeration of FaecalStreptococci	IS 5887 (Part II):1976, (RA 2009)	<u>≥</u> 10 C	FU/g			
	Enumeration of Pseudomonas aeruginosa	IS 14843:2000, (RA 2009) / ISO 13720:1995	≥ 10 C	FU/g			
	Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM, 8 th Edition,Revision Chapter 5, May 2014		t or Absent / 25g			

	oratory reditation Standa	Laboratory Servic Pathardi Road, Inc	Ashwamedh Engineers & Consultants Co-op. Soc. Ltd., Laboratory Services Division, Survey No. 102, Plot No. 26, Wadala Pathardi Road, Indira Nagar, Nashik, Maharashtra 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		
	Herbs, Spices, Condimentsand Related Products	Detection of Shigella spp.	IS 5887(Part 7):1999, (RA 2009) US FDA BAM,8 th Edition,Revisio Jan 2001, Chapter 6		Present or Absent / 25 g		
		Detection of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009))]	Present or Absent / 25 g		
		Enumeration of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009) 5887(Part 8/Sec 1):2002, Amend No. 1, Jan. 2010 / ISO 6888 -1 : 1 US FDA BAM,8 th Edition, Revisi Chapter 12, Jan 2001	ment 999	≥ 10 CFU/g		
		Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 9, May, 2004	onA	Present or Absent / 25 g		
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009 US FDA BAM, 8 th Edition,Revisio Chapter 9, May, 2004		Present or Absent / 25 g		
		Enumeration of Enterobacteriaceae	IS/ISO 7402: 1993, (RA 2001	2	≥ 10 CFU /g		
		Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition,Revisio Chapter 10, April 2011, Updated Feb 2013	onA]	Present or Absent / 25 g		
		Enumeration of Bacillus cereus	IS 5887(Part 6):2012, ISO 7932:2	2004	≥ 10 CFU/g		

	oratory reditation Standar	Laboratory Service Pathardi Road, Indi	Ashwamedh Engineers & Consultants Co-op. Soc. Ltd., Laboratory Services Division, Survey No. 102, Plot No. 26, Wadala Pathardi Road, Indira Nagar, Nashik, Maharashtra 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		nge of Testing / nits of Detection			
19.	Edible Salt	Aerobic Microbial Count/Total Viable Count /Total Plate Count /Total Bacterial Count	IS 5402:2012 US FDA BAM, 8th Edition, Revisio Chapter 3, Jan 2001		0 CFU/g 0 CFU/g			
		Coliform Count	IS 5401 (Part 1):2002, (RA 2007) / ISO 4832 : 1991 IS 5401 (Part 2):2012 / ISO 4831:20 US FDA BAM, 8 th Edition, Revisio Chapter 4, Sept.2002, Updated Feb 2013	$\begin{array}{r} - \\ 006 < 0. \\ \text{ind} \\ 0n \text{ A } \geq 1 \\ < 3 \end{array}$	0 CFU /g 3 to 1.1x10 ⁶ MPN ex/g 10 CFU/ g to 1.1x10 ⁶ MPN ex/g			
		Yeast and Mould Count	IS 5403:1999, (RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 18, April 2001		0CFU/g 10 CFU/g			
		Detection of Escherichia coli (Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)	Pre	sent or Absent / 25g			
		Enumeration of Escherichia coli	IS 5887(Part I): 1976, (RA 2009) US FDA BAM,8 th Edition,RevisionA,Chapter Sept.2002,Updated Feb 2013	0.3 ind <3	10 CFU /g to 1.1x10 ⁶ MPN ex/g to 1.1x10 ⁶ MPN ex/g			

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Edible Salt	Detection ofClostridiumperfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 16	onA	Present o	or Absent / 25 g		
	Enumeration of Clostridium perfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM,8 th Edition,Revisio Chapter 16, Jan 2001		≥ 10 CFU	J /g		
	Enumeration of Sulfite reducing bacteria	ISO 15213: 2003		<u>></u> 10 CFU	U /g		
	Detection of FaecalStreptococci(Enteroco cci)	IS 5887 (Part II):1976, (RA 2009))	Present o	or Absent / 25g		
	Enumeration of	IS 5887 (Part II):1976, (RA 2009))	<u>></u> 10 CFU	J/g		
	FaecalStreptococci Enumeration of Pseudomonas aeruginosa	IS 14843:2000,(RA 2009) / ISO 13720:1995		<u>></u> 10 CFU	U/g		
	Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM, 8 th Edition, Revis Chapter 5, May 2014		Present o	or Absent / 25g		
	Detection of Shigella spp.	IS 5887(Part 7):1999, (RA 2009) US FDA BAM,8 th Edition, Revis Chapter 6, Jan 2001		Present o	or Absent / 25 g		
	Detection of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009))	Present o	or Absent / 25 g		

	oratory reditation Standa	Laboratory Service Pathardi Road, Indi	Ashwamedh Engineers & Consultants Co-op. Soc. Ltd., Laboratory Services Division, Survey No. 102, Plot No. 26, Wadala Pathardi Road, Indira Nagar, Nashik, Maharashtra 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		ange of Testing / mits of Detection		
	Edible Salt	Enumeration of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009) IS 5887(Part 8/Sec 1):2002, Amendment No. 1, Jan. 2010 / IS 6888 -1 : 1999 US FDA BAM,8 th Edition, Revisi Chapter 12,Jan 2001	0	10 CFU/g		
		Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition, Revis Chapter 9, May, 2004		esent or Absent / 25 g		
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009 US FDA BAM, 8 th Edition, Revis Chapter 9, May, 2004		esent or Absent / 25 g		
		Enumeration of Enterobacteriaceae	IS/ISO 7402: 1993, (RA 2001	<u>></u>	10 CFU/g		
		Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition,Revisio Chapter 10, April 2011,Updated I 2013		esent or Absent / 25 g		
		Enumeration of Bacillus cereus	IS 5887(Part 6):2012, ISO 7932:2	2004 ≥	10 CFU/g		
20.	Beverages Alcoholic and Non	Aerobic Microbial Count/Total Viable Count	IS 5402:2012	<u>></u> 1	1 CFU/ml		
	Alcoholic, Carbonated & Non-carbonated	/Total Plate Count /Total Bacterial Count	US FDA BAM, Jan 2001, 8 th Edit Revision A, Chapter 3	ion, ≥ 1	1 CFU/ ml		

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		ange of Testing / mits of Detection			
	Beverages Alcoholic and Non Alcoholic, Carbonated & Non-carbonated	Coliforms	IS 3752:2005 ,(RA 2009) IS 5401 (Part 1):2002, (RA 2007)/ ISO 4831 : 1991 IS 5401 (Part 2):2012 / ISO 4831:2 US FDA BAM, 8 th Edition, Revisi Chapter 4, Sept.2002,Updated Feb 2013	ind \geq Provide $2006 \geq 0$ / n on A \geq <3	.3 to 1.1×10^{6} MPN dex/100 ml 1 CFU /ml esent or Absent/250 ml 25 ml 0.3 to $\geq 10^{6}$ MPN index 1 CFU/ml to 1.1×10^{6} MPN dex / ml			
		Yeast and Mould Count	IS 5403:1999, (RA 2009) US FDA BAM,8 th Edition,Revisior Chapter 18, April 2001		1 CFU/ml 1 CFU/ml			
		Detection of Escherichia coli (Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)	or	esent or Absent /250ml 25ml Present or osent / 25g			
		Enumeration of Escherichia coli	IS 5887(Part I):1976, (RA 2009)	_	1 CFU/ml			

Detection of Clostridium

perfringens

0.3 to 1.1x10⁶MPN

<3 to 1.1x10⁶MPN

Present or Absent /250ml

index / ml

index / ml

or 25ml

US FDA BAM ,8th Edition, Revision A Chapter 4,Sept.2002, Updated Feb 2013

IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8thEdition,RevisionA

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Beverages Alcoholic and Non Alcoholic,	Enumeration of Clostridium perfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition, Revis Chapter 16, Jan 2001	ion A ≥ 1	CFU / ml
Carbonated & Non-carbonated	Enumeration of Sulfite reducing bacteria	ISO 15213: 2003	<u>></u> 1	CFU / ml
	Detection of FaecalStreptococci (Enterococci)	IS 5887 (Part II):1976, (RA 2009)		ent or Absent / nl or 25 ml
	Enumeration of FaecalStreptococci	IS 5887 (Part II):1976, (RA 2009)	≥ 1	CFU / ml
	Enumeration of Pseudomonas aeruginosa	IS 14843:2000 , (RA 2009)	<u>></u> 1	CFU / ml
	Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 5, May 2014	nA or 2.	ent or Absent /250ml 5ml
	Detection of Shigellaspp.	IS 5887(Part 7):1999, (RA 2009) US FDA BAM,8 th Edition, Revisi Chapter 6, Jan 2001		ent or Absent /250ml 5ml
	Detection of Staphylococcus aureus(Coagulase positive)	IS 5887(Part II):1976, (RA 2009)		ent or Absent / 250 r 25ml

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		ange of Testing / imits of Detection			
	Beverages Alcoholic and Non Alcoholic, Carbonated & Non-carbonated	Enumeration of Staphylococcus aureus(Coagulase positive)	IS 5887(Part II): 1976, (RA 2009) IS 5887 (Part 8/Sec1):2002, Amendment No. 1 Jan. 2010/ ISO 6888-1:1999 US FDA BAM,8 th Edition,Revision Chapter 12,Jan 2001	_	1 CFU / ml			
		Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition,Revision Chapter 9, May, 2004		resent or Absent /250ml 25ml			
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009) US FDA BAM, 8 th Edition,Revision Chapter 9, May, 2004		resent or Absent/250 ml 25 ml			
		Enumeration of Enterobacteriaceae	IS/ISO 7402: 1993, (RA 2009)	2	1 CFU / ml			
		Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition,Revisio Chapter 10, April 2011, Updated Feb 2013		resent or Absent/250 ml 25 ml			
		Enumeration of Bacillus cereus	IS 5887(Part 6):2012, ISO 7932:20	004 ≥	1 CFU / ml			
21.	Tea & Tea Products	Aerobic Microbial Count /Total Viable Count /Total Plate Count /Total Bacterial Count	IS 5402:2012 US FDA BAM, 8 th Edition, Revisio Chapter 3, Jan 2001		10 CFU/g 10 CFU/g			

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Tea & Tea Products	Coliforms	IS 5401 (Part 1):2002, (RA 2007 4831 : 1991	/ISO	$\geq 10 \text{ CFU} / g$			
		IS 5401 (Part 2):2012 / ISO 4831	:2006	<0.3 to	t or Absent/25g 01.1x10 ⁶ MPN		
		US FDA BAM, 8 th Edition, Revis Chapter 4, Sept.2002,Updated Fe 2013	eb $(-3 \text{ to } 1.1 \times 10^6)$		FU /g		
	Yeast and Mould Count	IS 5403:1999, (RA 2009)		≥ 10 C	FU /g		
		US FDA BAM,8 th Edition,Revisio Chapter 18, April 2001	onA	_ ≥ 10 C	0		
	Detection of Escherichia coli (Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)		Presen	t or Absent / 25g		
	Enumeration of Escherichia coli	IS 5887(Part I):1976, (RA 2009)		<u>></u> 10	CFU /g		
				0.3 to 1 index/g	1.1x10 ⁶ MPN g		
		US FDA BAM ,8 th Edition,Revisi Chapter 4	onA	<3 to 1 index/g	.1x10 ⁶ MPN g		

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Tea & Tea Products	Detection of Clostridium perfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 16, Jan 2001		Present	t or Absent / 25g		
	Enumeration of Clostridium perfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition, Revis Chapter 16, Jan 2001		≥ 10 C	FU /g		
	Enumeration of Sulfite reducing bacteria	ISO 15213: 2003		<u>></u> 10 C	FU /g		
	Detection of FaecalStreptococci(Enteroco cci)	IS 5887 (Part II):1976, (RA 2009))	Present g	t or Absent / or 25		
	Enumeration of FaecalStreptococci	IS 5887 (Part II):1976, (RA 2009))	≥ 10 C	FU /g		
	Enumeration of Pseudomonas aeruginosa	IS 14843:2000, (RA 2009)		<u>></u> 10 C	FU /g		
	Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM, 8 th Edition, Revis Chapter 5, May 2014	ion A	Present	t or Absent / 25g		
	Detection of Shigellaspp.	IS 5887(Part 7):1999, (RA 2009) US FDA BAM,8 th Edition,Revisio Chapter 6, Jan 2001	onA	Present	t or Absent / 25g		
	Detection of Staphylococcus aureus(Coagulase positive)	IS 5887(Part II):1976, (RA 2009)		Present	t or Absent / 25g		

	oratory reditation Standar	Laboratory Service Pathardi Road, Indi	nedh Engineers & Consultants Co-op. Soc. Ltd., ory Services Division, Survey No. 102, Plot No. 26, Wadala i Road, Indira Nagar, Nashik, Maharashtra 17025: 2005				
Disc	ipline	Biological Testing	Is	ssue Date	02.12.2014		
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection		
	Tea & Tea Products	Enumeration of Staphylococcus aureus(Coagulase positive)	IS 5887(Part II): 1976, (RA 2009) IS 5887 (Part 8/Sec1):2002, Amendment No. 1 Jan. 2010/ ISO 6888-1:1999 US FDA BAM,8 th Edition, Revisio Chapter 12, Jan 2001		CFU /g		
		Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition,Revision Chapter 9, May, 2004		nt or Absent / 25g		
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 9, May, 2004		nt or Absent / 25g		
		Enumeration of Enterobacteriaceae	IS/ISO 7402: 1993, (RA 2009)	<u>></u> 10 C	CFU /g		
		Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition, Revisio Chapter 10, April 2011,Updated Fe 2013		nt or Absent / 25g		
		Enumeration of Bacillus cereus	IS 5887(Part 6):2012, ISO 7932:20	$04 \ge 10$ G	CFU /g		
22.	Coffee, Chicory and Cocoa	Aerobic Microbial Count/Total Viable Count /Total Plate Count /Total Bacterial Count	IS 5402:2012 US FDA BAM, 8 th Edition, Revisio Chapter 3, Jan 2001	$\geq 10 \text{ G}$ on A $\geq 10 \text{ G}$	-		

	oratory reditation Standa	Laboratory Service Pathardi Road, Indi	Ashwamedh Engineers & Consultants Co-op. Soc. Ltd., Laboratory Services Division, Survey No. 102, Plot No. 26, Wadala Pathardi Road, Indira Nagar, Nashik, Maharashtra 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			e of Testing / s of Detection		
	Coffee, Chicory and Cocoa	Coliforms	IS 5401 (Part 1):2002, (RA 2007)/ 4831 : 1991	ISO	≥ 10 C	FU /g t or Absent/25g		
			IS 5401 (Part 2):2012 / ISO 4831:2	2006		01.1x10 ⁶ MPN		
			US FDA BAM, 8 th Edition, Revisi Chapter 4, Sept.2002,Updated Feb 2013		<u>></u> 10 C	FU /g .1x10 ⁶ MPN		
		Yeast and Mould Count	IS 5403:1999, (RA 2009)		<u>></u> 10 C	FU /g		
			US FDA BAM,8 th Edition, Revisio Chapter 18, April 2001	on A	≥ 10 C	FU /g		
		Detection of Escherichia coli (Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)		Presen	t or Absent / 25g		
		Enumeration of Escherichia	IS 5887(Part I):1976, (RA 2009)) <u>></u>	<u>></u> 10 C	FU /g		
		coli		0.3 to index		1.1x10 ⁶ MPN g		
			US FDA BAM ,8 th Edition, Revisi Chapter 4,Sept.2002, Updated Feb 2013	on A	<3 to 1 index/§	.1x10 ⁶ MPN g		
		Detection of Clostridium perfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition, Revis Chapter 16, Jan 2001	ion A	Presen	t or Absent / 25g		
		Enumeration of Clostridium perfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition, Revisi Chapter 16, Jan 2001	on A	≥ 10 C	FU /g		

	oratory reditation Standa	Laboratory Service Pathardi Road, Indi	Ashwamedh Engineers & Consultants Co-op. Soc. Ltd., Laboratory Services Division, Survey No. 102, Plot No. 26, Wadala Pathardi Road, Indira Nagar, Nashik, Maharashtra ISO/IEC 17025: 2005					
	ipline	Biological Testing		Issue Date	02.12.2014			
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		ge of Testing / ts of Detection			
	Coffee, Chicory and Cocoa	Enumeration of Sulfite reducing bacteria	ISO 15213: 2003	<u>> 10</u>	CFU /g			
		Detection of FaecalStreptococci (Enterococci)	IS 5887 (Part II):1976, (RA 2009)	Prese	nt or Absent / 25g			
		Enumeration of FaecalStreptococci	IS 5887 (Part II):1976, (RA 2009)	≥ 10 ·	CFU /g			
		Enumeration of Pseudomonas aeruginosa	IS 14843:2000, (RA 2009)	≥ 10	CFU /g			
		Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM, 8 th Edition, Revisi Chapter 5, May 2014	Prese ion A	nt or Absent / 25g			
		Detection of Shigellaspp.	IS 5887(Part 7):1999, (RA 2009) US FDA BAM,8 th Edition,Revision Chapter 6, Jan 2001		nt or Absent / 25g			
		Detection of Staphylococcus aureus(Coagulase positive)	IS 5887(Part II):1976, (RA 2009)	Prese	nt or Absent / 25g			
		Enumeration of Staphylococcus aureus(Coagulase positive)	IS 5887(Part II): 1976, (RA 2009) IS 5887 (Part 8/Sec1):2002, Amendment No. 1 Jan. 2010/ ISO 6888-1:1999 US FDA BAM,8 th Edition,Revision Chapter 12,Jan 2001	<u>> 10</u>	CFU /g			

Laboratory Se			Engineers & Consultants Co-op. Soc. Ltd., ervices Division, Survey No. 102, Plot No. 26, Wadala d, Indira Nagar, Nashik, Maharashtra 5: 2005				
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Cert	ificate Number	T-1189	٧	/alid Until	01.12.2016		
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		ge of Testing / its of Detection		
	Coffee, Chicory and Cocoa	Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 9, May, 2004		ent or Absent / 25g		
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 9, May, 2004		ent or Absent / 25g		
		Enumeration of Enterobacteriaceae	IS/ISO 7402: 1993, (RA 2009)	<u>> 10</u>	CFU /g		
		Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition,Revisio Chapter 10, April 2011, Updated Feb 2013	on A Pres	ent or Absent / 25g		
		Enumeration of Bacillus cereus	IS 5887(Part 6):2012, ISO 7932:20	$)04 \ge 10$	CFU /g		
23.	Egg and Egg Products	Aerobic Microbial Count/Total Viable Count/Total Plate Count/Total Bacterial Count	IS 5402:2012 US FDA BAM, 8 th Edition, Revisio Chapter 3, Jan 2001		CFU/g CFU/g		
		Coliform Count	IS 5401 (Part 1):2002 , (RA 2007)/ 4832 : 1991 IS 5401 (Part 2):2012 / ISO 4831:2 US FDA BAM, 8 th Edition,Revision	2006 < 0.3 inden nA ≥ 10	to 1.1x10 ⁶ MPN x/g CFU/ g		
			Chapter 4, Sept.2002, Updated Feb 2013	<3 to inde	o 1.1x10 ⁶ MPN x/g		

Laboratory Accreditation Standar	Laboratory Service Pathardi Road, Indi	Ashwamedh Engineers & Consultants Co-op. Soc. Ltd., Laboratory Services Division, Survey No. 102, Plot No. 26, Wadala Pathardi Road, Indira Nagar, Nashik, Maharashtra 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		e of Testing / s of Detection			
Egg and Egg Products	Yeast and Mould Count	IS 5403:1999, (RA 2009) US FDA BAM,8 th Edition, Revision Chapter 18, April 2001		•			
	Detection of Escherichia coli (Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)	Preser	t or Absent / 25g			
	Enumeration of Escherichia coli	IS 5887(Part I):1976, (RA 2009) US FDA BAM ,8 th Edition, Revision Chapter 4,Sept.2002,Updated Feb 20	index/ A <3 to	1.1x10 ⁶ MPN g l.1x10 ⁶ MPN			
	Detection of Clostridium perfringens	IS 5887 (Part 4) :1976, (RA 2009) US FDA BAM, 8 th Edition, Revision Chapter 16, Jan 2001		t or Absent / 25 g			
	Enumeration of Clostridiumperfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition, Revision Chapter 16, Jan 2001	≥ 10 C	CFU /g			
	Enumeration of Sulfite reducing bacteria	ISO 15213: 2003	<u>≥</u> 10 C	CFU /g			
	Detection of Faecal Streptococci(Enterococci)	IS 5887 (Part II):1976, (RA 2009)	Preser	t or Absent / 25g			
	Enumeration of FaecalStreptococci	IS 5887 (Part II):1976, (RA 2009)	<u>></u> 10 C	CFU/g			
	Enumeration of Pseudomonas aeruginosa	IS 14843:2000, (RA 2009)/ ISO 13720:1995	≥ 10 C	CFU/g			

Laboratory Accreditation Standar	Laboratory Service Pathardi Road, Indi	Ashwamedh Engineers & Consultants Co-op. Soc. Ltd., Laboratory Services Division, Survey No. 102, Plot No. 26, Wadala Pathardi Road, Indira Nagar, Nashik, Maharashtra 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		e of Testing / s of Detection			
Egg and Egg Products	Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 5, May 2014		nt or Absent / 25g			
	Detection of Shigellaspp.	IS 5887(Part 7):1999, (RA 2009) US FDA BAM,8 th Edition, Revisio Chapter 6, Jan 2001		nt or Absent / 25g			
	Detection of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009	9) Preser	nt or Absent / 25g			
	Enumeration of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976 , (RA 2009 IS 5887(Part 8/Sec 1):2002, Amendment No. 1, Jan. 2010/ ISO 6888 -1 : 1999 US FDA BAM, 8 th Edition, Revisi Chapter 12,Jan 2001		CFU/g			
	Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 9, May 2004		nt or Absent / 25 g			
	Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009) US FDA BAM, 8 th Edition, Revisi Chapter 9, May 2004) Preser	nt or Absent / 25 g			
	Enumeration of Enterobacteriaceae	IS/ISO 7402: 1993,(RA 2001	≥ 10 C	CFU /g			
	Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition,Revisio April 2011,Updated Feb 2013 Chapter 10	onA, Preser	nt or Absent / 25 g			
	Enumeration of Bacillus cereus	IS 5887(Part 6):2012, ISO 7932:20	$004 \ge 10$	CFU/g			

	oratory reditation Standar	Laboratory Service Pathardi Road, Indi	Ashwamedh Engineers & Consultants Co-op. Soc. Ltd., Laboratory Services Division, Survey No. 102, Plot No. 26, Wadala Pathardi Road, Indira Nagar, Nashik, Maharashtra ISO/IEC 17025: 2005					
Disc	ipline	Biological Testing	I	lssue	Date	02.12.2014		
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed			e of Testing / s of Detection		
24.	Nutritional	Aerobic Microbial	IS 5402:2012		<u>></u> 10 C	FU/g		
Supj min Pren	Supplements,Vita min and Mineral Premixes,HealthF oods,Probiotic	Count/Total Viable Count/Total Plate Count/Total Bacterial Count	US FDA BAM, 8th Edition, Revis Chapter 3, Jan 2001	sion A	≥ 10 C	FU/g		
	Foods C	Coliform Count	IS 5401 (Part 1):2002, (RA 2007), 4832:1991 IS 5401 (Part 2):2012 / ISO 4831:2		$\geq 10 \text{ C}$	FU /g 9 1.1x10 ⁶ MPN		
			US FDA BAM, 8 th Edition, Revisi Chapter 4, Sept.2002, Updated Feb 2013		index/g <u>></u> 10 C	g FU/ g .1x10 ⁶ MPN		
		Yeast and Mould Count	IS 5403:1999, (RA 2009) US FDA BAM,8 th Edition, Revisio Chapter 18, April 2001	on A	\geq 10CI \geq 10 C	0		
		Detection of Escherichia coli (Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)		Present	t or Absent / 25g		
		Enumeration of Escherichia coli	IS 5887(Part I):1976, (RA 2009)		\geq 10 C 0.3 to 1 index/g	1.1x10 ⁶ MPN		
			US FDA BAM ,8 th Edition , Revis Chapter 4, Sept 2002, Updated 201			.1x10 ⁶ MPN		

	oratory reditation Standa	Laboratory Service Pathardi Road, Ind	Ashwamedh Engineers & Consultants Co-op. Soc. Ltd., Laboratory Services Division, Survey No. 102, Plot No. 26, Wadala Pathardi Road, Indira Nagar, Nashik, Maharashtra 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			e of Testing / s of Detection		
	Supplements,Vita min and Mineral Premixes,HealthF oods,Probiotic Foods	Detection of Clostridium perfringens	IS 5887 (Part 4) :1976, (RA 2009) US FDA BAM, 8 th Edition, Revis Chapter 16, Jan 2001		Presen	t or Absent / 25 g		
		Enumeration of Clostridium perfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition, Revis Chapter 16, Jan 2001		≥ 10 C	FU /g		
		Enumeration of Sulfite reducing bacteria	ISO 15213: 2003		<u>></u> 10 C	FU /g		
		Detection of Faecal Streptococci(Enterococci)	IS 5887 (Part II):1976, (RA 2009))	Presen	t or Absent / 25g		
		Enumeration of FaecalStreptococci	IS 5887 (Part II):1976, (RA 2009))	<u>></u> 10 C	FU/g		
		Enumeration of Pseudomonas aeruginosa	IS 14843:2000, (RA 2009) / ISO 13720:1995		<u>></u> 10 C	FU/g		
		Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM, 8 th Edition, Revis Chapter 5, May 2014		Presen	t or Absent / 25g		
		Detection of Shigellaspp.	IS 5887(Part 7):1999, (RA 2009) US FDA BAM,8 th Edition,Revisio Chapter 6, Jan 2001		Presen	t or Absent / 25g		
		Detection of Staphylococcus aureus (Coagulase positive)	IS 5887 (Part II):1976, (RA 2009	9)	Presen	t or Absent / 25g		

	oratory reditation Standar	Laboratory Service Pathardi Road, Indi	Ashwamedh Engineers & Consultants Co-op. Soc. Ltd., Laboratory Services Division, Survey No. 102, Plot No. 26, Wadala Pathardi Road, Indira Nagar, Nashik, Maharashtra ISO/IEC 17025: 2005				
Disc	ipline	Biological Testing	k	ssue Dat	te 02.12.2014		
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		nge of Testing / nits of Detection		
	Nutritional Supplements,Vita min and Mineral Premixes,HealthF oods,Probiotic Foods	Enumeration of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976 , (RA 2009) IS 5887(Part 8/Sec 1):2002, Amendment No. 1, Jan. 2010/ ISO 6888 -1 : 1999 US FDA BAM, 8 th Edition, Revisio A, Chapter 12,Jan 2001	,	10 CFU/g		
		Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 9, May 2004		esent or Absent / 25 g		
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 9, May 2004		esent or Absent / 25 g		
		Enumeration of Enterobacteriaceae	IS/ISO 7402: 1993,(RA 2001	<u>></u> 1	0 CFU /g		
		Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition, Revisio Chapter 10, April 2011, Updated Feb 2013	on A Pre	esent or Absent / 25 g		
		Enumeration of Bacillus cereus	IS 5887(Part 6):2012, ISO 7932:20	004 <u>≥</u> 1	0 CFU/g		
25.	Convenience Foods, Cooked Foods,PrecookedF oods,Ready to Eat Variants	Aerobic Microbial Count/Total Viable Count /Total Plate Count/Total Bacterial Count	IS 5402:2012 US FDA BAM, 8 th Edition, Revisio Chapter 3, Jan 2001		0 CFU/g 0 CFU/g		

	oratory reditation Standar	Laboratory Service Pathardi Road, Indi	Ashwamedh Engineers & Consultants Co-op. Soc. Ltd., Laboratory Services Division, Survey No. 102, Plot No. 26, Wadala Pathardi Road, Indira Nagar, Nashik, Maharashtra ISO/IEC 17025: 2005					
Disc	cipline	Biological Testing	ls	ssue	Date	02.12.2014		
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed			e of Testing / s of Detection		
	Convenience Foods, Cooked Foods,PrecookedF oods,Ready to Eat Variants	Coliform Count	IS 5401 (Part 1):2002 , (RA 2007)/ 4832 : 1991 IS 5401 (Part 2):2012 / ISO 4831:20 US FDA BAM, 8 th Edition, Revisio Chapter 4, Sept.2002,Updated Feb 2013	006	index/ $g \ge 10 \text{ C}$	9 1.1x10 ⁶ MPN g FU/ g .1x10 ⁶ MPN		
		Yeast and Mould Count	IS 5403:1999, (RA 2009) US FDA BAM,8 th Edition, Sept.2002,Updated Feb 2013,Revis Chapter 18,April 2001	sion A	\geq 10CH \geq 10 C 3 to 2.3 index/g	FU/g 3x10 ⁶ MPN		
		Detection of Escherichia coli (Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)		Present	t or Absent / 25g		
		Enumeration of Escherichia coli	IS 5887(Part I):1976, (RA 2009) US FDA BAM ,8 th Edition, Revisio Chapter 4,Sept.2002, Updated Feb 2013	$0.3 \text{ to } 1.1 \times 10^{6} \text{M}$ index/g		1.1x10 ⁶ MPN g .1x10 ⁶ MPN		
		Detection of Clostridium perfringens	IS 5887 (Part 4) :1976, (RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 16, Jan 2001	on A	Present	t or Absent / 25 g		

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S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed			e of Testing / of Detection
Convenience Foods, Cooked Foods,PrecookedF	Enumeration of Clostridiumperfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition, Revis Chapter 16, Jan 2001) sion A	≥ 10 C	FU /g
oods,Ready to Eat Variants	Enumeration of Sulfite reducing bacteria	ISO 15213: 2003		≥ 10 C	FU /g
	Detection of Faecal Streptococci(Enterococci)	IS 5887 (Part II):1976, (RA 2009)	Present	t or Absent / 25g
	Enumeration of FaecalStreptococci	IS 5887 (Part II):1976, (RA 2009)	≥ 10 C	FU/g
	Enumeration of Pseudomonas aeruginosa	IS 14843:2000, (RA 2009) / ISO 13720:1995		≥ 10 C	FU/g
	Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM, 8 th Edition, Revis Chapter 5, May 2014) sion A	Present or Absent / 25g	
	Detection of Shigellaspp.	IS 5887(Part 7):1999, (RA 2009) US FDA BAM,8 th Edition,Revisio Chapter 6, Jan 2001		Present	t or Absent / 25g
	Detection of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 200	9)	Present	t or Absent / 25g

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S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection		
Convenience Foods, Cooked Foods,PrecookedF oods,Ready to Eat Variants	Enumeration of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976 , (RA 2009) IS 5887(Part 8/Sec 1):2002, Amendment No. 1, Jan. 2010/ ISO 6888 -1 : 1999 US FDA BAM, 8 th Edition, Revisio Chapter 12, Jan 2001		CFU/g		
	Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 9,May 2004		t or Absent / 25 g		
	Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 9,May 2004		t or Absent / 25 g		
	Enumeration of Enterobacteriaceae	IS/ISO 7402: 1993 ,(RA 2001	≥ 10 C	FU/g		
	Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition , Revisi Chapter 10, April 2011, Updated Feb 2013	on A Presen	t or Absent / 25 g		
	Enumeration of Bacillus cereus	IS 5887(Part 6):2012, ISO 7932:20	$004 \ge 100$	CFU/g		
26. Pet Food	Aerobic Microbial Count /Total Viable Count /Total Plate Count /Total Bacterial Count	IS 5402:2012 US FDA BAM,8th Edition, Revisio Chapter 3, Jan 2001	$\geq 10 \text{ G}$ on A $\geq 10 \text{ C}$	•		

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S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed			e of Testing / of Detection		
Pet Food	Coliform Count	IS 5401 (Part 1):2002 , (RA 2007) 4832 : 1991 IS 5401 (Part 2):2012 / ISO 4831::			1.1x10 ⁶ MPN		
		US FDA BAM, 8 th Edition, Revisi Chapter 4, Sept.2002, Updated Feb 2013		index/g ≥ 10 CFU/ g <3 to 1.1x10 ⁶ MPN index/g			
	Yeast and Mould Count	IS 5403:1999, (RA 2009) US FDA BAM,8 th Edition, Revisio Chapter 18, April 2001	on A	\geq 10 CFU/g \geq 10 CFU/g			
	Detection of Escherichia coli (Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)		Present	or Absent / 25g		
	Enumeration of Escherichia coli	IS 5887(Part I):1976, (RA 2009)		\geq 10 Cl 0.3 to 1 index/g	.1x10 ⁶ MPN		
		US FDA BAM ,8 th Edition, Revisi Chapter 4,Sept.2002,Updated Feb		<3 to 1 index/g	.1x10 ⁶ MPN		
	Detection of Clostridium perfringens	IS 5887 (Part 4) :1976, (RA 2009) US FDA BAM,8 th Edition, Revisio Chapter 16, Jan 2001		Present	or Absent / 25 g		
	Enumeration of Clostridiumperfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM,8 th Edition, Revisio Chapter 16, Jan 2001	on A,	≥ 10 Cl	FU /g		

	pratory reditation Standa	Laboratory Service Pathardi Road, Indi	Ashwamedh Engineers & Consultants Co-op. Soc. Ltd., Laboratory Services Division, Survey No. 102, Plot No. 26, Wadala Pathardi Road, Indira Nagar, Nashik, Maharashtra ISO/IEC 17025: 2005					
Disc	ipline	Biological Testing		Issue Date	02.12.2014			
Cert	ificate Number	T-1189		Valid Until	01.12.2016			
Last	Amended on	19.12.2014		Page	82 of 90			
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		ge of Testing / its of Detection			
	Pet Food	Enumeration of Sulfite reducing bacteria	ISO 15213: 2003	≥ 10	CFU /g			
		Detection of Faecal Streptococci (Enterococci)	IS 5887 (Part II):1976, (RA 2009) Pres	ent or Absent / 25g			
		Enumeration of FaecalStreptococci	IS 5887 (Part II):1976, (RA 2009) <u>≥</u> 10	CFU/g			
		Enumeration of Pseudomonas aeruginosa	IS 14843:2000, (RA 2009) / ISO 13720:1995	<u>≥</u> 10	CFU/g			
		Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM, 8 th Edition, Revis Chapter 5, May 2014		ent or Absent / 25g			
		Detection of Shigellaspp.	IS 5887(Part 7):1999, (RA 2009) US FDA BAM,8 th Edition, Revis Chapter 6, Jan 2001		ent or Absent / 25g			
		Detection of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009	9) Pres	ent or Absent / 25g			
		Enumeration of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009 IS 5887(Part 8/Sec 1):2002, Amendment No. 1, Jan. 2010/ ISO 6888 -1 : 1999 US FDA BAM, 8 th Edition, Revis A, Chapter 12, Jan 2001) CFU/g			

	oratory reditation Standar	Laboratory Service Pathardi Road, Indi	Ashwamedh Engineers & Consultants Co-op. Soc. Ltd., Laboratory Services Division, Survey No. 102, Plot No. 26, Wadala Pathardi Road, Indira Nagar, Nashik, Maharashtra SO/IEC 17025: 2005				
Disc	ipline	Biological Testing	I	Issue Da	ate 02.12.2014		
Cert	ificate Number	T-1189	•	Valid Ur	ntil 01.12.2016		
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		ange of Testing / imits of Detection		
	Pet Food	Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition,Revisio Chapter 9, May 2004		resent or Absent / 25 g		
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009) US FDA BAM, 8 th Edition, Revisi Chapter 9, May 2004		resent or Absent / 25 g		
		Enumeration of Enterobacteriaceae	IS/ISO 7402: 1993 ,(RA 2001	<u>></u>	10 CFU /g		
		Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition, Revis Chapter 10, April 2011,Updated F 2013		resent or Absent / 25 g		
		Enumeration of Bacillus cereus	IS 5887(Part 6):2012, ISO 7932:20	004 <u>≥</u>	10 CFU/g		
27.	Animal Feeds	Aerobic Microbial Count/Total Viable Count /Total Plate Count /Total Bacterial Count	IS 5402:2012 US FDA BAM, Jan 2001, 8 th Editi Revision A, Chapter 3		10 CFU/g 10 CFU/g		
		Coliform Count	IS 5401 (Part 1):2002 ,(RA 2007)/ 4832 : 1991	∕ISO ≥	10 CFU/g		
			IS 5401 (Part 2):2012 / ISO 4831:2		0.3 to 1.1x10 ⁶ MPN ndex/g		
			US FDA BAM, 8 th Edition, Revisi Chapter 4, Sept.2002, Updated Feb 2013	ion A \geq	10 CFU/g 3 to 1.1x10 ⁶ MPN ndex/g		

	oratory reditation Standa	Laboratory Service Pathardi Road, Ind	Ashwamedh Engineers & Consultants Co-op. Soc. Ltd., Laboratory Services Division, Survey No. 102, Plot No. 26, Wadala Pathardi Road, Indira Nagar, Nashik, Maharashtra ISO/IEC 17025: 2005					
Disc	cipline	Biological Testing	ls	sue D	Date 02.1	2.2014		
Cert	ificate Number	T-1189	V	alid U	Intil 01.1	12.2016		
Last Amended on		19.12.2014	Pa	age	84 o	f 90		
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		Range of To Limits of Do			
	Animal Feeds	Yeast and Mould Count	IS 5403:1999, (RA 2009) US FDA BAM,8 th Edition, Revisior Chapter 18, April 2001		≥ 10CFU/g ≥ 10 CFU/g			
		Detection of Escherichia coli (Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)		Present or Ab	osent / 25g		
		Enumeration of Escherichia coli	IS 5887(Part I):1976, (RA 2009)		\geq 10 CFU/g 0.3 to 1.1x10 index/g	⁶ MPN		
			US FDA BAM ,8 th Edition , Revisio Chapter 4,Sept.2002,Updated Feb 2013	on A	<3 to 1.1×10^6 index/g	MPN		
		Detection of Clostridium perfringens	IS 5887 (Part 4) :1976, (RA 2009) US FDA BAM,8 th Edition,RevisionA Chapter 16, Jan 2001	A	Present or Ab	osent / 25 g		
		Enumeration of Clostridiumperfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM,8 th Edition,Revision Chapter 16, Jan 2001		≥ 10 CFU /g			
		Enumeration of Sulfite reducing bacteria	ISO 15213: 2003		≥ 10 CFU /g			
		Detection of Faecal Streptococci(Enterococci)	IS 5887 (Part II):1976, (RA 2009)		Present or Ab	osent / 25g		
		Enumeration of FaecalStreptococci	IS 5887 (Part II):1976, (RA 2009)		≥ 10 CFU/g			

LaboratoryAshwamedh Engineers & Consultants Co-op. Soc. Laboratory Services Division, Survey No. 102, Plot Pathardi Road, Indira Nagar, Nashik, MaharashtraAccreditation StandardISO/IEC 17025: 2005			Plot No. 26,	, Wadala
Discipline	Biological Testing	Is	ssue Date	02.12.2014
Certificate Number	T-1189	V	/alid Until	01.12.2016
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S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection
Animal Feeds	Enumeration of Pseudomonas aeruginosa	IS 14843:2000, (RA 2009) / ISO 13720:1995	≥ 10 C	CFU/g
	Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 5, May 2014	Presen on A	nt or Absent / 25g
	Detection of Shigellaspp.	IS 5887(Part 7):1999, (RA 2009) US FDA BAM,8 th Edition,Revision Chapter 6, Jan 2001		tt or Absent / 25g
	Detection of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009)) Presen	nt or Absent / 25g
	Enumeration of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976,(RA 2009)I 5887(Part 8/Sec 1):2002, Amendm No. 1, Jan. 2010/ ISO 6888 -1:1999 US FDA BAM, 8 th Edition, Revisio Chapter 12,Jan 2001	ent –	CFU/g
	Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition,Revision Chapter 9, May 2004		nt or Absent / 25 g
	Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 9, May 2004	Presen on A	nt or Absent / 25 g
	Enumeration of Enterobacteriaceae	IS/ISO 7402: 1993 ,(RA 2001	<u>></u> 10 C	CFU/g

LaboratoryAshwamedh Engineers & Consultants Co-op Laboratory Services Division, Survey No. 102 Pathardi Road, Indira Nagar, Nashik, Maharas Accreditation StandardAccreditation StandardISO/IEC 17025: 2005			Plot N		Wadala		
Disc	ipline	Biological Testing	Biological Testing		Date	02.12.2014	
Cert	ificate Number	T-1189		Valid	Until	01.12.2016	
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed			e of Testing / of Detection	
	Animal Feeds	Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition, Revis Chapter 10, April 2011, Updated Feb 2013	ion A	Present	t or Absent / 25 g	
		Enumeration of Bacillus cereus	IS 5887(Part 6):2012, ISO 7932:2	2004	≥ 10 C	CFU/g	
28.	Snacks and	Aerobic Microbial	IS 5402:2012		<u>></u> 10 C	FU/g	
	Instant Mixes	Count/Total Viable Count /Total Plate Count /Total Bacterial Count			FU/g		
		Coliform Count	IS 5401 (Part 1):2002, (RA 2007) 4832:1991)/ ISO	<u>></u> 10 C	FU /g	
			IS 5401 (Part 2):2012 / ISO 4831:	:2006	<0.3 to 1.1x10 ⁶ MPN		
			US FDA BAM, 8 th Edition, Revis Chapter 4, Sept.2002,Updated Fel 2013		index/g $\geq 10 \text{ C}$ <3 to 1 index/g	FU/ g .1x10 ⁶ MPN	
		Yeast and Mould Count	IS 5403:1999, (RA 2009) US FDA BAM,8 th Edition, Revisi Chapter 18, April 2001	on A	\geq 10CH \geq 10 C	e	
		Detection of Escherichia coli (Thermotolerant bacteria)	IS 5887(Part I):1976, (RA 2009)		Present	t or Absent / 25g	

Laboratory Accreditation Standar	Laboratory Service Pathardi Road, Indi	Ashwamedh Engineers & Consultants Co-op. Soc. Ltd., Laboratory Services Division, Survey No. 102, Plot No. 26, Wadala Pathardi Road, Indira Nagar, Nashik, Maharashtra ISO/IEC 17025: 2005				
Discipline	Biological Testing		Issue E	Date 02.12.2014		
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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		
Snacks and Instant Mixes	Enumeration of Escherichia coli	IS 5887(Part I):1976, (RA 2009)		$\geq 10 \text{ CFU /g}$ 0.3 to 1.1x10 ⁶ MPN index/g		
		US FDA BAM ,8 th Edition, Revis Chapter 4,Sept.2002,Updated Feb	ion A	<3 to 1.1x10 ⁶ MPN index/g		
	Detection of Clostridium perfringens	IS 5887 (Part 4) :1976, (RA 2009) US FDA BAM, 8 th Edition, Revis Chapter 16, Jan 2001		Present or Absent / 25 g		
	Enumeration of Clostridiumperfringens	IS 5887 (Part 4):1976, (RA 2009) US FDA BAM, 8 th Edition, Revis A, Chapter 16, Jan 2001		≥ 10 CFU /g		
	Enumeration of Sulfite reducing bacteria	ISO 15213: 2003		≥ 10 CFU /g		
	Detection of Faecal Streptococci(Enterococci)	IS 5887 (Part II):1976, (RA 2009))	Present or Absent / 25g		
	Enumeration of FaecalStreptococci	IS 5887 (Part II):1976, (RA 2009))	\geq 10 CFU/g		
	Enumeration of Pseudomonas aeruginosa	IS 14843:2000, (RA 2009) / ISO 13720:1995		\geq 10 CFU/g		
	Detection of Salmonella spp.	IS 5887(Part 3):1999, (RA 2009) US FDA BAM, 8 th Edition, Revis Chapter 5, May 2014		Present or Absent / 25g		
	Detection of Shigellaspp.	IS 5887(Part 7):1999, (RA 2009) US FDA BAM,8 th Edition, Revisi A,Chapter 6, Jan 2001		Present or Absent / 25g		

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Disc	cipline	Biological Testing	ls	ssue Date	02.12.2014	
Certificate Number		T-1189	V	/alid Until	01.12.2016	
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		ge of Testing / its of Detection	
	Snacks and Instant Mixes	Detection of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976, (RA 2009)) Prese	ent or Absent / 25g	
		Enumeration of Staphylococcus aureus(Coagulase positive)	IS 5887 (Part II):1976 , (RA 2009) IS 5887(Part 8/Sec 1):2002, Amendment No. 1, Jan. 2010/ ISO 6888 -1 : 1999 US FDA BAM, 8 th Edition, Revisio Chapter 12, Jan 2001) CFU/g	
		Detection of Vibrio cholerae	IS 5887(Part V):1976, (RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 9, May 2004		ent or Absent / 25 g	
		Detection of Vibrio parahaemolyticus	IS 5887 (Part V) :1976,(RA 2009) US FDA BAM, 8 th Edition, Revisio Chapter 9, May 2004		ent or Absent / 25 g	
		Enumeration of Enterobacteriaceae	IS/ISO 7402: 1993 ,(RA 2001	<u>≥</u> 10	CFU /g	
		Detection of Listeria monocytogenes	US FDA BAM, 8 th Edition, Revisi Chapter 10, April 2011, Updated Feb 2013	ion A Pres	ent or Absent / 25 g	
		Enumeration of Bacillus cereus	IS 5887(Part 6):2012, ISO 7932:20	004 <u>≥</u> 10) CFU/g	

	oratory reditation Standar	Laboratory Service Pathardi Road, Indi	Ashwamedh Engineers & Consultants Co-op. Soc. Ltd., Laboratory Services Division, Survey No. 102, Plot No. 26, Wadala Pathardi Road, Indira Nagar, Nashik, Maharashtra ISO/IEC 17025: 2005			
Disc	ipline	Biological Testing	I	ssue D)ate	02.12.2014
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed			of Testing / of Detection
29.	Herbal/Medicinal Plants	Total Viable Count	Quality Control Methods for Medie Plant Materials, WHO 1998			
		Yeast and Mould Count	Quality Control Methods for Medie Plant Materials,WHO 1998 WHO 1998		≥ 10 CF ≥ 1 CFU	
		Enterobacteriaceae and other Gram-Negative bacteria	Quality Control Methods for Media Plant Materials,WHO 1998 WHO 1998		≥ 10 CF ≥ 1 CFU	
		Escherichia coli	Quality Control Methods for Medie Plant Materials, WHO 1998	cinal I	Present/	Absent / g or ml
		Salmonella spp.	Quality Control Methods for Medi- Plant Materials, WHO 1998	cinal I	Present/	Absent / g or ml
		Pseudomonas aeruginosa	Quality Control Methods for Medie Plant Materials, WHO 1998	cinal I	Present/	Absent /g or ml
		Staphylococcus aureus	Quality Control Methods for Media Plant Materials, WHO 1998	cinal H	Present/	Absent / g or ml

IV. BIOLOGICAL TESTS ON OTHER MISCELLANEOUS TEST ITEMS

1.	Packaging Materials, Medical Devices	Total Aerobic Microbial Count	ISO 11737-1:2006 WI/SAP-Micro/5/83, Issue date: 01.04.2014	\geq 10 CFU/g
		Yeast and Mould Count	ISO 11737-1:2006 WI/SAP-Micro/5/84 Issue date: 01.04.2014	$\geq 10 \text{ CFU/g}$
		Total Anaerobic Microbial Count	ISO 11737-1:2006 WI/SAP-Micro/5/85 Issue date: 01.04.2014	$\geq 10 \text{ CFU/g}$

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Disc	ipline	Biological Testing		Issue Date	02.12.2014
Cert	ificate Number	T-1189	T-1189		01.12.2016
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		ge of Testing / s of Detection
	Packaging Materials, Medical Devices	E.coli	Adopted USP 34 WI/SAP-Micro/5/88 Issue date: 01.04.2014	Prese	nt/ Absent /10g
		S.aureus	Adopted USP 34 WI/SAP-Micro/5/87 Issue date: 01.04.2014	Prese	nt/ Absent /10g
		Pseudomonas aeruginosa	Adopted USP 34 WI/SAP-Micro/5/86	Prese	nt/ Absent /10g
		Enterobacteriaceae	Adopted USP 34 WI/SAP-Micro/5/89	Prese	nt/ Absent /10g
2.	Organic Fertilizers	Pathogenecity test	The Fertilizer (Control) Order, 1 13 th Edition, 2010, Sch.IV, Part 2 Page No. 144-H		nt/Absent / 30 g

*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.