

Laboratory Merieux NutriSciences Bangalore Private Limited, D-36 & D-98,
KSSIDC Industrial Estate, Bangalore, Karnataka

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6930

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Last Amended on 29.03.2019

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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BIOLOGICAL TESTING

I.	FOOD AND AGRICULTURAL PRODUCTS			
1.	Milk and Dairy Products	Total Bacterial Count	5402	≥ 10 CFU/gor ml
		Coliform Count	5401-Part 1	≥ 10 CFU/g or ml
		Yeast & Mold Count	5403	≥ 10 CFU/g or ml
		Salmonella	IS 5887-Part 3	Present/Absent/25gor 25ml
		Shigella	IS 5887-Part 7	Present/Absent/25gor 25ml
		Escherichia coli (Enumeration)	IS 5887-Part 1	≥ 10 CFU/gor ml
		Escherichia coli (Detection)	IS 5887-Part 1	Present/Absent/gor ml
		Staphylococcus aureus (Detection)	IS 5887-Part 2	Present/Absent/25g or 25ml
		Staphylococcus aureus (Enumeration)	IS 5887-Part 2 IS 5887-Part 8 Sec 1	≥ 10 CFU/g or ml
			Mesophillic Aerobic Spore Formers	Compendium APHA 5 th Edition, Chapter 23, Page 299-304
	Mesophillic Anaerobic Spore Formers	Compendium APHA 5 th Edition, Chapter 24, Page 305-315	≥ 1 CFU/g or ml	
2.	Fruits and Fruit Products	Total Plate Count	IS 5402	≥ 10 CFU/g or ml
		Coliform Count	IS 5401-Part 1	≥ 10 CFU/g or ml
		Yeast & Mold Count	IS 5403	≥ 10 CFU/g or ml
		Salmonella	IS 5887-Part 3	Present/Absent/25g or 25 ml
		Escherichia coli (Detection)	IS 5887-Part 1	Present/Absent/g or ml
	Escherichia coli	IS 5887-Part 1	≥ 10 CFU/g or ml	

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		(Enumeration)		
		Shigella	IS 5887-Part 7	Present/Absent/25g or 25 ml
		Staphylococcus aureus (Enumeration)	IS 5887-Part 8 Sec 1 IS 5887-Part 2	≥ 10 CFU/g or ml
		Staphylococcus aureus (Detection)	IS 5887-Part 2	Present/Absent/25g or 25 ml
3.	Vegetables and Vegetable Products	Total Plate Count	IS 5402	≥ 10 CFU/g or ml
		Coliform Count	IS 5401-Part 1	≥ 10 CFU/g or ml
		Yeast & Mold Count	IS 5403	≥ 10 CFU/g or ml
		Salmonella	IS 5887-Part 3	Present/Absent/25g
		Escherichia coli (Enumeration)	IS 5887-Part 1	≥ 10 CFU/g or ml
		Escherichia coli (Detection)	IS 5887-Part 1	Present/Absent/g
		Staphylococcus aureus (Enumeration)	IS 5887-Part 8, Sec 1- Part 2	≥ 10 CFU/g or ml
		Staphylococcus aureus (Detection)	IS 5887-Part 2	Present / Absent/25g
		Shigella	IS 5887-Part 7	Present /Absent/25g
4.	Fish and Sea Foods	Salmonella	IS 5887-Part 3	Present/ Absent/25 g
		Escherichia coli (Detection)	IS 5887-Part 1	Present/Absent/g
		Escherichia coli (Enumeration)	IS 5887-Part 1	≥ 10 CFU/g or ml
		Staphylococcus	IS 5887-Part 2	Present/Absent/25g

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		aureus (Detection)		
		Staphylococcus aureus (Enumeration)	IS 5887-Part 8, Sec 1 IS 5887-Part 2	≥ 10 CFU/g or ml
		Coliform Count	IS 5401-Part 1	≥ 10 CFU/g or ml
5.	Meat and Meat Products	Total Plate Count	IS 5402	≥ 10 CFU/g or ml
		Coliform Count	IS 5401-Part 1	≥ 10 CFU/g or ml
		Yeast & Mold Count	IS 5403	≥ 10 CFU/g or ml
		Salmonella	IS 5887-Part 3	Present/Absent/25g
		Shigella	IS 5887-Part 7	Present/Absent/25g
		Escherichia coli (Enumeration)	IS 5887-Part 1	≥ 10 CFU/g or ml
		Escherichia coli (Detection)	IS 5887-Part 1	Present/Absent/g
		Staphylococcus aureus (Enumeration)	IS 5887-Part 8, Sec 1 IS 5887-Part 2	≥ 10 CFU/g or ml
		Staphylococcus aureus (Detection)	IS 5887-Part 2	Present/Absent/25g
6.	Herbs, Spices & Condiments	Total Plate Count	IS 5402	≥ 10 CFU/g or ml
		Coliform Count	IS 5401-Part 1	≥ 10 CFU/g or ml
		Yeast & Mold Count	IS 5403	≥ 10 CFU/g or ml
		Salmonella	IS 5887-Part 3	Present/Absent/25g
		Shigella	IS 5887-Part 7	Present/Absent/25g
		Escherichia coli (Enumeration)	IS 5887-Part 1	≥ 10 CFU/g or ml
		Escherichia coli (Detection)	IS 5887-Part 1	Present/Absent/g
		Staphylococcus	IS 5887-Part 8, Sec1	≥ 10 CFU/g or ml

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		aureus (Enumeration)	IS 5887-Part 2	
		Staphylococcus aureus (Detection)	IS 5887-Part 2	Present/Absent/25g
7.	Bakery and Confectionery Products	Total Plate Count	IS 5402	≥ 10 CFU/g or ml
		Coliform Count	IS 5401-Part 1	≥ 10 CFU/g or ml
		Yeast & Mold Count	IS 5403	≥ 10 CFU/g or ml
		Salmonella	IS 5887-Part 3	Present/Absent/25g
		Escherichia coli (Enumeration)	IS 5887-Part 1	≥ 10 CFU/g or ml
		Escherichia coli (Detection)	IS 5887-Part 1	Present/Absent/g
		Staphylococcus aureus (Enumeration)	IS 5887-Part 8, Sec 1 IS 5887-Part 2	≥ 10 CFU/g or ml
		Staphylococcus aureus (Detection)	IS 5887-Part 2	Present/Absent/25g
		Aerobic Plate Count	IS 5402: 2012/ISO 4833-1: 2013	≥10 CFU/g
		Yeast & Mould Count	IS 5403: 1999	≥10 CFU/g
		Yeast & Mould Count	ISO 21527-1: 2008	≥10 CFU/g
		Coliform MPN	ISO 4831: 2006/IS 5401 (Part 2):2012	≥ 3 MPN/g
		Coliform count	ISO 4832: 2006/IS5401 (Part 1): 2012	≥10 CFU/g
		Escherichia coli MPN	ISO7251: 2005/IS5887 (Part 1): 1976	≥ 3 MPN/g
		Escherichiacoli Enumeration	ISO16649-2: 2001	≥10 CFU/g
		Escherichiacoli	IS5887 (Part 1): 1976	≥10 CFU/g

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		Enumeration		
		Escherichiacoli Detection	IS5887 (Part 1): 1976	absent/present/g
		Staphylococcus aureus Enumeration	ISO 6888-1: 1999/IS5887 (Part 2): 1976/ IS5887 (Part 8) Sec 1: 2002	≥10 CFU/g
		Staphylococcus aureus Detection	IS5887 (Part 2): 1976	absent/present/25g
		Enterobacteriaceae Detection	ISO 21528-1: 2017	absent/present/25g
		Enterobacteriaceae Enumeration	ISO 21528-2: 2017 IS/ISO 7402: 1993	≥10 CFU/g
		Enterobacteriaceae MPN	IS/ISO 7402: 1993/ISO 21528-1: 2017	≥ 3 MPN/g
		Bacillus cereus Enumeration	ISO 7932: 2004/IS5887 (Part 6): 2012	≥10 CFU/g
		Mesophilic anaerobic spore formers	APHA 5th Edition (Chapter 24): 2015	≥1 CFU/g
		Mesophilic aerobic spore formers	APHA 5th Edition (Chapter 23): 2015	≥1 CFU/g
		Faecal Streptococci	IS 5887 (Part 2): 1976	≥10 CFU/g
		Detection of Listeria sps	IS 14988 (Part 1): 2001	absent/present
		Detection of Listeria monocytogenes	IS 14988 (Part 1): 2001	absent/present/25g
		Detection of Listeria monocytogenes	ISO 11290-1: 2017	absent/present /25g
		Detection of Salmonella spp	IS 5887 (Part 3): 1999	absent/present/25g
		Detection of Salmonella spp	ISO 6579: 2017	absent/present/25g/250g
		Detection of Shigella spp	IS 5887 (Part 7): 1999	absent/present/25g
		Detection of Listeria	BIO 12/02-06/94	absent/present/25g

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		spp. (VIDAS)		
		Detection of Listeria monocytogenes (VIDAS)	BIO 12/11-03/04	absent/present/25g
		Detection of Salmonella spp (VIDAS)	BIO 12/16-09/05	Presence/Absence/25g
		Enterobacter sakazakii (Cronobacterspp)	ISO 22964: 2017	absent/present/10g
8.	Beverages (Alcoholic & Non-alcoholic)	Aerobic Plate Count	IS 5402: 2012/ISO 4833-1: 2013	≥1 CFU/ml
		Yeast & Mould Count	IS5403: 1999	≥1 CFU/ml
		Yeast & Mould Count	ISO 21527- 1: 2008	≥1 CFU/ml
		Coliform MPN	ISO 4831, 2006/IS 5401 (Part 2): 2012	≥ 3 MPN/ml
		Coliform count	ISO 4832: 2006/IS5401 (Part 1): 2012	≥1 CFU/ml
		Coliform count	ISO 4832, 2006/IS 5401 (Part 2): 2012	≥1 /100 ml
		Escherichia coli MPN	ISO7251, 2005/IS5887 (Part 1): 1976	≥ 3 MPN/ml
		Escherichiacoli Enumeration	ISO 16649-2: 2001	≥1 CFU/ml
		Escherichia coli Enumeration	IS 5887 (Part 1): 1976	≥1 CFU/ml
		Escherichiacoli Detection	IS 5887 (Part 1): 1976	absent/present/25ml
		Staphylococcus aureus Enumeration	ISO 6888-1: 1999/IS5887 (Part 2): 1976/ IS 5887 (Part 8) Sec 1: 2002	≥1 CFU/ml
		Staphylococcus aureus Detection	IS 5887 (Part 2): 1976	absent/present/25ml
		Enterobacteriaceae	ISO21528-1: 2017/ IS/ISO	absent/present/25ml

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		Detection	7402: 1993	
		Enterobacteriaceae Enumeration	ISO21528-2: 2017	≥1 CFU/ml
		Enterobacteriaceae MPN	IS/ISO 7402: 1993/ISO 21528-1: 2017	≥ 3 MPN/ml
		Bacillus cereus Enumeration	ISO 7932: 2004/IS 5887 (Part 6): 2012	≥1 CFU/ml
		Clostridium Perfringens Detection	IS 5887 (Part 4): 1999	absent/present/25ml
		Mesophilic anaerobic spore formers	APHA 5th Edition (Chapter 24): 2015	≥1 CFU/ml
		Mesophilic aerobic spore formers	APHA 5th Edition (Chapter 23): 2015	≥1 CFU/ml
		Faecal Streptococci	IS 5887 (Part 2): 1976	≥1 CFU/ml
		Detection of Listeria spp	IS 14988 (Part 1): 2001/ ISO 11290-1:2017	absent/present/25ml
		Detection of Listeria monocytogenes	IS 14988 (Part 1): 2001	absent/present/25ml
		Detection of Listeria monocytogenes	ISO11290-1: 2017	absent/present/25ml
		Detection of Salmonella spp	IS 5887 (Part 3): 1999	absent/present/25ml
		Detection of Salmonella spp	ISO 6579: 2017	absent/present/25ml
		Detection of Shigella spp	IS 5887 (Part 7): 1999	absent/present/25ml
		Vibrio cholerae	IS 5887 (Part 5): 1976	absent/present /25ml
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976	absent/present/25ml
9.	Food Grains, Cereals, Pulses, Seeds & Related Products	Aerobic Plate Count	IS 5402: 2012/ISO 4833-1: 2013	≥10 CFU/g
		Yeast & Mould Count	IS 5403: 1999	≥10 CFU/g
		Yeast & Mould Count	ISO 21527-2: 2008	≥10 CFU/g

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		Coliform MPN	ISO 4831: 2006/IS 5401 (Part 2): 2012	≥ 3 MPN/g
		Coliform count	ISO 4832: 2006/IS 5401 (Part 1): 2012	≥10 CFU/g
		Escherichiacoli MPN	ISO7251: 2005/IS 5887 (Part 1): 1976	≥ 3 MPN/g
		Escherichiacoli Enumeration	ISO 16649-2: 2001	≥10 CFU/g
		Escherichiacoli Enumeration	IS 5887 (Part 1): 1976	≥10 CFU/g
		Escherichiacoli Detection	IS 5887 (Part 1): 1976	absent/present/25g
		Staphylococcus aureus Enumeration	ISO 6888-1: 1999/IS 5887 (Part 2): 1976/ IS 5887 (Part 8) Sec 1: 2002	≥10 CFU/g
		Staphylococcus aureus Detection	IS 5887 (Part 2): 1976	absent/present/25g
		Enterobacteriaceae Detection	ISO 21528-1: 2017/ IS/ISO 7402: 1993	absent/present/25g
		Enterobacteriaceae Enumeration	ISO 21528-2: 2017	≥10 CFU/g
		Enterobacteriaceae MPN	IS/ISO 7402: 1993/ISO 21528-1: 2017	≥ 3 MPN/g
		Bacillus cereus Enumeration	ISO 7932: 2004/IS 5887 (Part 6): 2012	≥10 CFU/g
		Clostridium Perfringens Enumeration	ISO 7937: 2004	≥10 CFU/g
		Clostridium Perfringens Enumeration	IS 5887 (Part 4): 1999	≥10 CFU/g
		Clostridium Perfringens Detection	IS 5887 (Part 4): 1999	absent/present/25g

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		Mesophilic anaerobic spore formers	APHA 5th Edition (Chapter 24): 2015	≥1 CFU/g
		Mesophilic aerobic spore formers	APHA 5th Edition (Chapter 23): 2015	≥1 CFU/g
		Detection of Listeria sps	IS 14988 (Part 1): 2001/ ISO 11290-1: 2017	absent/present/25g
		Detection of Listeria monocytogenes	IS 14988 (Part 1): 2001	absent/present/25g
		Detection of Listeria monocytogenes	ISO 11290-1: 2017	absent/present/25g
		Detection of Salmonella spp	IS 5887 (Part 3): 1999	absent/present/25g
		Detection of Salmonella spp	ISO 6579: 2017	absent/present/25g
		Detection of Listeria sps. (VIDAS)	BIO 12/02-06/94	absent/present/25g
		Detection of Listeria monocytogenes (VIDAS)	BIO 12/11-03/04	absent/present/25g
		Detection of Salmonella spp (VIDAS)	BIO 12/16-09/05	absent/present/25g
10.	Coffee & Cocoa products	Aerobic Plate Count	IS 5402: 2012/ISO4833 -1: 2013	≥10 CFU/g
		Yeast & Mould Count	IS 5403: 1999	≥10 CFU/g
		Yeast & Mould Count	ISO 21527-2: 2008	≥10 CFU/g
		Coliform MPN	ISO 4831: 2006/IS 5401 (Part 2): 2012	≥ 3 MPN/g
		Coliform count	ISO 4832: 2006/IS 5401 (Part 1): 2012	≥10 CFU/g
		E.coli MPN	ISO7251: 2005/ IS 5887 (Part 1): 1976	≥ 3 MPN/g
		E.coli Enumeration	ISO 16649-2: 2001	≥10 CFU/g
		E.coli Enumeration	IS 5887 (Part 1): 1976	≥10 CFU/g

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		E.coli Detection	IS 5887 (Part 1): 1976	≥10 CFU/g
		S.aureus Enumeration	ISO6888-1: 1999/IS 5887 (Part 2): 1976/ IS 5887 (Part 8) Sec 1: 2002	≥10 CFU/g
		S.aureus Detection	IS 5887 (Part 2): 1976	absent/present/25g
		Enterobacteriaceae Detection	ISO 21528-1: 2017 IS/ISO 7402: 1993	absent/present/25g
		Enterobacteriaceae Enumeration	ISO 21528-2: 2017	≥10 CFU/g
		Enterobacteriaceae MPN	IS/ISO 7402: 1993/ISO 21528-1: 2017	≥ 3 MPN/g
		Bacillus cereus Enumeration	ISO 7932: 2004/IS 5887 (Part 6): 2012	≥10 CFU/g
		Clostridiumperfringens Enumeration	ISO 7937: 2004	≥10 CFU/g
		Clostridiumperfringens Enumeration	IS 5887 (Part 4): 1999	≥10 CFU/g
		Clostridiumperfringens Detection	IS 5887 (Part 4): 1999	absent/present/25g
		Detection of Listeria spp	IS 14988 (Part 1): 2001/ ISO 11290-1: 2017	absent/present/25g
		Detection of Listeria monocytogenes	IS 14988 (Part 1): 2001	absent/present/25g
		Detection of Listeria monocytogenes	ISO 11290-1: 2017	absent/present/25g
		Detection of Salmonella spp	IS 5887 (Part 3): 1999	absent/present/25g
		Detection of Salmonella spp	ISO 6579: 2017	Presence/Absence/25g/250g
		Detection of Listeria spp. (VIDAS)	BIO 12/02-06/94	absent/present/25g
		Detection of Listeria monocytogenes	BIO 12/11-03/04	Presence/Absence/25g

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		(VIDAS)		
		Detection of Salmonella spp (VIDAS)	BIO 12/16-09/05	absent/present/25g
11.	Herbs, Spices & Condiments	Aerobic Plate Count	IS 5402: 2012/ISO 4833-1: 2013	≥10 CFU/g
		Yeast & Mould Count	IS 5403: 1999	≥10 CFU/g
		Yeast & Mould Count	ISO 21527-2: 2008	≥10 CFU/g
		Coliform MPN	ISO 4831: 2006/IS 5401 (Part 2): 2012	≥ 3 MPN/g
		Coliform count	ISO 4832: 2006/IS 5401 (Part 1): 2012	≥10 CFU/g
		Escherichia coli MPN	ISO7251: 2005/IS 5887 (Part 1): 1976	≥ 3 MPN/g
		Escherichiacoli Enumeration	ISO 16649-2: 2001	≥10 CFU/g
		Escherichiacoli Enumeration	IS 5887 (Part 1): 1976	≥10 CFU/g
		Escherichiacoli Detection	IS 5887 (Part 1): 1976	absent/present/25g
		Staphylococcus aureus Enumeration	ISO 6888-1: 1999/IS 5887 (Part 2): 1976/ IS 5887 (Part 8) Sec 1: 2002	≥10 CFU/g
		Staphylococcus aureus Detection	IS 5887 (Part 2): 1976	absent/present/25g
		Enterobacteriaceae Detection	ISO 21528-2: 2017/ IS/ISO 7402: 1993	absent/present/25g
		Enterobacteriaceae Enumeration	ISO 21528-1: 2017	≥10 CFU/g
		Enterobacteriaceae MPN	IS/ISO 7402: 1993/ISO 21528-1: 2017	≥ 3 MPN/g
		Bacillus cereus Enumeration	ISO 7932: 2004/IS 5887 (Part 6): 2012	≥10 CFU/g

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		Clostridiumperfringens Enumeration	IS 5887 (Part 4): 1999	≥10 CFU/g
		Clostridiumperfringens Enumeration	ISO 7937: 2004	≥10 CFU/g
		Clostridiumperfringens Detection	IS 5887 (Part 4): 1999	absent/present/25g
		Mesophilic anaerobic spore formers	APHA 5th Edition (Chapter 24): 2015	≥1 CFU/g
		Mesophilic aerobic spore formers	APHA 5th Edition (Chapter 23): 2015	≥1 CFU/g
		Faecal Streptococci	IS 5887 (Part 2): 1976	≥1 CFU/g
		Detection of Listeria spp	IS 14988 (Part 1): 2001/ ISO 11290-1: 2017	absent/present/25g
		Detection of Listeria monocytogenes	IS 14988 (Part 1): 2001	absent/present/25g
		Detection of Listeria monocytogenes	ISO 11290-1: 2017	absent/present/25g
		Detection of Salmonella spp	IS 5887 (Part 3): 1999	absent/present/25g
		Detection of Salmonella spp	ISO 6579: 2017	absent/present/25g
		Detection of Shigella spp	IS 5887 (Part 7): 1999	absent/present/25g
		Vibrio cholerae	IS 5887 (Part 5): 1976	absent/present/25g
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976	absent/present/25g
		Detection of Listeria spp. (VIDAS)	BIO 12/02-06/94	absent/present/25g
		Detection of Listeria monocytogenes (VIDAS)	BIO 12/11-03/04	absent/present/25g
		Detection of Salmonella spp	BIO 12/16-09/05	absent/present/25g

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		(VIDAS)		
12.	Milk, Dairy products and analogues	Aerobic Plate Count	IS 5402: 2012/ISO 4833-1: 2013	≥10 CFU/g
		Yeast & Mould Count	IS 5403: 1999	≥10 CFU/g
		Yeast & Mould Count	ISO 21527-1: 2008	≥10 CFU/g
		Coliform MPN	ISO 4831: 2006/IS 5401 (Part 2): 2012	≥ 3 MPN/g
		Coliform count	ISO 4832: 2006/IS 5401 (Part 1): 2012	≥10 CFU/g
		Escherichia coli MPN	ISO7251: 2005/IS5887 (Part 1): 1976	≥ 3 MPN/g
		Escherichia coli Enumeration	ISO 16649-2: 2001	≥10 CFU/g
		Escherichiacoli Enumeration	IS 5887 (Part 1): 1976	≥10 CFU/g
		Escherichiacoli Detection	IS 5887 (Part 1): 1976	absent/present/25g
		Enumeration Staphylococcus aureus (Coagulase positive)	ISO 6888-1: 1999/IS 5887 (Part 2): 1976/ IS 5887 (Part 8) Sec 1: 2002	≥10 CFU/g
		Detection Staphylococcus aureus (Coagulase positive)	IS 5887 (Part 2): 1976	absent/present/25g
		Enterobacteriaceae Detection	ISO 21528-1: 2017 IS/ISO 7402: 1993	absent/present/25g
Enterobacteriaceae Enumeration	ISO 21528-2: 2017	≥10 CFU/g		
Enterobacteriaceae MPN	IS/ISO 7402: 1993/ISO21528-1: 2017	≥ 3 MPN/g		
Bacillus cereus Enumeration	ISO 7932: 2004/IS 5887 (Part 6): 2012	≥10 CFU/g		

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		Clostridium perfringens Enumeration	IS 5887 (Part 4): 1999	≥10 CFU/g
		Clostridium perfringens Enumeration	ISO 7937: 2004	≥10 CFU/g
		Clostridium perfringens Detection	IS 5887 (Part 4): 1999	absent/present/25g
		Mesophilic anaerobic spore formers	APHA 5th Edition (Chapter 24): 2015	≥1 CFU/g
		Mesophilic aerobic spore formers	APHA 5th Edition (Chapter 23): 2015	≥1 CFU/g
		Faecal Streptococci	IS 5887 (Part 2): 1976	≥1 CFU/g
		Detection of Listeria spp	IS 14988 (Part 1): 2001 / ISO 11290-1: 2017	absent/present/25g
		Detection of Listeria monocytogenes	IS 14988 (Part 1): 2001	absent/present/25g
		Detection of Listeria monocytogenes	ISO 11290-1: 2017	absent/present/25g
		Detection of Salmonella spp	IS 5887 (Part 3): 1999	Presence/Absence 25 g/25mL/375 g/1500g
		Detection of Salmonella spp	ISO 6579: 2017	Presence/Absence 25 g/25mL/250g/375 g/1500g
		Detection of Shigella spp	IS 5887 (Part 7): 1999	absent/present/25g
		Vibrio cholerae	IS 5887 (Part 5): 1976	absent/present/25g
		Vibrio cholerae	ISO 21872-1: 2017	absent/present/25g
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976	absent/present/25g
		Vibrio parahaemolyticus	ISO 21872-1: 2017	absent/present/25g
		Detection of Listeria spp. (VIDAS)	BIO 12/02-06/94	absent/present/25g
		Detection of Listeria monocytogenes	BIO 12/11-03/04	absent/present/25g

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		(VIDAS)		
		Detection of Salmonella spp (VIDAS)	BIO 12/16-09/05	absent/present/25g
		Sulphite reducing bacteria	ISO 15213: 2003	≥10 CFU/g
		Lactic Acid Bacteria	ISO 15214: 1998	≥10 CFU/g
		Enterobacter sakazakii (Cronobacterspp)	ISO 22964: 2017	absent/present/10g
		E .C oli 0157 and Vero or Shiga toxin producing E coli (VIDAS)	BIO 12/25-05/09	absent/present/25g/25ml
13.	Nut & Nut Products	Aerobic Plate Count	IS 5402: 2012/ISO 4833 – 1: 2013	≥10 CFU/g
		Yeast & Mould Count	IS 5403: 1999	≥10 CFU/g
		Yeast & Mould Count	ISO 21527-2: 2008	≥10 CFU/g
		Coliform MPN	ISO 4831: 2006/IS 5401 (Part 2): 2012	≥ 3 MPN/g
		Coliform count	ISO 4832: 2006/IS 5401 (Part 1): 2012	≥10 CFU/g
		Escherichiacoli MPN	ISO7251: 2005/IS5887 (Part 1): 1976	≥ 3 MPN/g
		Escherichiacoli Enumeration	ISO 16649-2: 2001	≥10 CFU/g
		Escherichiacoli Enumeration	IS 5887 (Part 1): 1976	≥10 CFU/g
		Escherichiacoli Detection	IS 5887 (Part 1): 1976	absent/present/25g
		Staphylococcus aureus Enumeration	ISO 6888-1: 1999/IS5887 (Part 2): 1976/ IS5887 (Part 8) Sec 1: 2002	≥10 CFU/g
		Staphylococcus aureus Detection	IS5887 (Part 2): 1976	absent/present/25g

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Enterobacteriaceae Detection	ISO 21528-1: 2017 IS/ISO 7402: 1993	absent/present/25g
		Enterobacteriaceae Enumeration	ISO 21528-1: 2017	≥10 CFU/g
		Enterobacteriaceae MPN	IS/ISO 7402: 1993/ ISO 21528-1: 2017	≥ 3 MPN/g
		Bacillus cereus Enumeration	ISO 7932: 2004/IS5887 (Part 6): 2012	≥10 CFU/g
		Clostridiumperfringens Enumeration	IS: 5887 (Part 4): 1999	≥10 CFU/g
		Clostridiumperfringens Enumeration	ISO 7937: 2004	≥10 CFU/g
		Clostridiumperfringens Detection	IS: 5887 (Part 4): 1999	absent/present/25g
		Mesophilic anaerobic spore formers	APHA 5th Edition (Chapter 24): 2015	≥1 CFU/g
		Mesophilic aerobic spore formers	APHA 5th Edition (Chap - 23): 2015	≥1 CFU/g
		Faecal Streptococci	IS 5887 (Part 2): 1976	≥10 CFU/g
		Detection of Listeria spp	IS 14988 (Part 1): 2001/ ISO 11290-1: 2017	absent/present/25g
		Detection of Listeria monocytogenes	IS 14988 (Part 1): 2001	absent/present/25g
		Detection of Listeria monocytogenes	ISO 11290-1: 2017	absent/present/25g
		Detection of Salmonella spp	IS 5887 (Part 3): 1999	absent/present/25g
		Detection of Salmonella spp	ISO 6579: 2017	absent/present/25g/250g
		Detection of Shigella spp	IS 5887 (Part 7): 1999	absent/present/25g
		Vibrio cholerae	IS 5887 (Part 5): 1976	absent/present/25g
		Vibrio	IS 5887 (Part 5): 1976	absent/present/25g

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		parahaemolyticus		
		Aciduric Flat sour Spore Count	APHA 5 th Edition (chap-25):2015	≥1 CFU/10g
		Thermophilic flat sour organisms	APHA 5 thEdition (chap-25):2015	≥1 CFU/10g
		Detection of Listeria spp. (VIDAS)	BIO 12/02-06/94	absent/present/25g
		Detection of Listeria monocytogenes (VIDAS)	BIO 12/11-03/04	Present/absent/25g
		Detection of Salmonella spp (VIDAS)	BIO 12/16-09/05	Present/absent/25g
14.	Snacks , ready to eat, ready to serve (cooked food)	Aerobic Plate Count	IS 5402: 2012/ISO 4833 – 1: 2013	≥10 CFU/g/ml
		Yeast & Mould Count	IS 5403: 1999	≥10 CFU/g/ml
		Yeast & Mould Count	ISO 21527-1: 2008	≥10 CFU/g/ml
		Coliform MPN	ISO 4831: 2006/ IS 5401 (Part 2): 2012	≥ 3 MPN/g/ml
		Coliform count	ISO 4832: 2006/IS5401 (Part 1): 2012	≥10 CFU/g/ml
		Escherichia coli MPN	ISO7251: 2005/IS5887 (Part 1): 1976	≥ 3 MPN/g/ml
		Escherichia coli Enumeration	ISO16649-2: 2001	≥10 CFU/g/ml
		Escherichia coli Enumeration	IS 5887 (Part 1): 1976	≥10 CFU/g/ml
		Escherichia coli Detection	IS 5887 (Part 1): 1976	absent/present/25g/25ml
		Staphylococcus aureus Enumeration	ISO 6888-1: 1999/IS5887 (Part 2): 1976/ IS5887 (Part 8) Sec 1: 2002	≥10 CFU/g/ml
		Staphylococcus aureus Detection	IS 5887 (Part 2): 1976	absent/present/25g

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		Enterobacteriaceae Detection	ISO 21528-1: 2017 IS/ISO 7402: 1993	≥10 CFU/g/ml
		Enterobacteriaceae Enumeration	ISO 21528-1: 2017	≥10 CFU/g/ml
		Enterobacteriaceae MPN	IS/ISO 7402: 1993/ ISO 21528-1: 2017	≥ 3 MPN/g/ml
		Bacillus cereus Enumeration	ISO 7932: 2004/IS5887 (Part 6): 2012	≥10 CFU/g/ml
		Clostridiumperfringens Enumeration	IS: 5887 (Part 4): 1999	≥10 CFU/g
		Clostridiumperfringens Enumeration	ISO 7937: 2004	≥10 CFU/g
		Clostridiumperfringens Detection	IS: 5887 (Part 4): 1999	absent/present/25g/25ml
		Detection of Listeria spp	IS 14988 (Part 1): 2001/ ISO 11290-1: 2017	absent/present/25g/25ml
		Detection of Listeria monocytogenes	IS 14988 (Part 1): 2001	absent/present/25g/25ml
		Detection of Listeria monocytogenes	ISO 11290-1: 2017	absent/present/25g/25ml
		Detection of Salmonella spp	IS 5887 (Part 3): 1999	absent/present/25g/25ml
		Detection of Salmonella spp	ISO 6579: 2017	absent/present/25g/25ml
		Detection of Shigella spp	IS 5887 (Part 7): 1999	absent/present/25g/25ml
		Vibrio cholerae	IS 5887 (Part 5): 1976	absent/present/25g/25ml
		Vibrio cholerae	ISO 21872-1: 2017	absent/present/25g/25ml
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976	absent/present/25g/25ml
		Vibrio parahaemolyticus	ISO 21872-1: 2017	absent/present/25g/25ml
		Detection of Listeria spp. (VIDAS)	BIO 12/02-06/94	absent/present/25g/25ml

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		Detection of Listeria monocytogenes (VIDAS)	BIO 12/11-03/04	absent/present/25g/25ml
		Detection of Salmonella spp (VIDAS)	BIO 12/16-09/05	absent/present/25g/25ml
		Aciduric Flat sour Spore Count	APHA 5 thEdition (chap-25):2015	≥1 CFU/10g
		Thermophilic flat sour organisms	APHA 5 thEdition (chap-25):2015	≥1 CFU/10g
15.	TEA	Aerobic Plate Count	IS 5402: 2012/ISO 4833 – 1: 2013	≥10 CFU/g
		Yeast & Mould Count	IS 5403: 1999	≥10 CFU/g
		Yeast & Mould Count	ISO 21527- 1: 2008	≥10 CFU/g
		Coliform MPN	ISO 4831: 2006/ IS 5401 (Part 2): 2012	≥ 3 MPN/g/ml
		Coliform count	ISO 4832: 2006/IS5401 (Part 1): 2012	≥10 CFU/g
		Escherichia coli MPN	ISO7251: 2005/IS5887 (Part 1): 1976	≥ 3 MPN/g/ml
		Escherichia coli Enumeration	ISO16649-2: 2001	≥10 CFU/g
		Escherichia coli Enumeration	IS 5887 (Part 1): 1976	≥10 CFU/g
		Escherichia coli Detection	IS 5887 (Part 1): 1976	absent/present/25g/25ml
		Staphylococcus aureus Enumeration	ISO 6888-1: 1999/IS5887 (Part 2): 1976/ IS5887 (Part 8) Sec 1: 2002	≥10 CFU/g
		Staphylococcus aureus Detection	IS 5887 (Part 2): 1976	absent/present/25g/25ml
		Enterobacteriaceae Detection	ISO 21528-1: 2017 IS/ISO 7402: 1993	absent/present/25g/25ml

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		Enterobacteriaceae Enumeration	ISO 21528-1: 2017	≥10 CFU/g
		Enterobacteriaceae MPN	IS/ISO 7402: 1993/ ISO 21528-1: 2017	≥ 3 MPN/g/ml
		Bacillus cereus Enumeration	ISO 7932: 2004/IS5887 (Part 6): 2012	≥10 CFU/g
		Clostridiumperfringens Enumeration	IS: 5887 (Part 4): 1999	≥10 CFU/g
		Clostridiumperfringens Enumeration	ISO 7937: 2004	≥10 CFU/g
		Clostridiumperfringens Detection	IS: 5887 (Part 4): 1999	absent/present/25g/25ml
		Detection of Listeria spp	IS 14988 (Part 1): 2001/ ISO 11290-1: 2017	absent/present/25g/25ml
		Detection of Listeria monocytogenes	IS 14988 (Part 1): 2001	absent/present/25g/25ml
		Detection of Listeria monocytogenes	ISO 11290-1: 2017	absent/present/25g/25ml
		Detection of Salmonella spp	IS 5887 (Part 3): 1999	absent/present/25g/25ml
		Detection of Salmonella spp	ISO 6579: 2017	absent/present/25g/25ml
		Detection of Shigella spp	IS 5887 (Part 7): 1999	absent/present/25g/25ml
16.	Fruit & Vegetable Products And Their Products (Raw And Processed)	Aerobic Plate Count	IS 5402: 2012/ISO 4833 – 1: 2013	≥10 CFU/g
		Yeast & Mould Count	IS 5403: 1999	≥10 CFU/g
		Yeast & Mould Count	ISO 21527- 1: 2008	≥10 CFU/g
		Yeast & spores	FSSAI Manual:2012	≥0.33 cells /1/60 mm ³
		Coliform MPN	ISO 4831: 2006/ IS 5401 (Part 2): 2012	≥ 3 MPN/g/ml
		Coliform count	ISO 4832: 2006/IS5401 (Part 1): 2012	≥10 CFU/g

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Escherichia coli MPN	ISO7251: 2005/IS5887 (Part 1): 1976	≥ 3 MPN/g/ml
		Escherichia coli Enumeration	ISO16649-2: 2001	≥10 CFU/g
		Escherichia coli Enumeration	IS 5887 (Part 1): 1976	≥10 CFU/g
		Escherichia coli Detection	IS 5887 (Part 1): 1976	absent/present/25g/25ml
		Staphylococcus aureus Enumeration	ISO6888-1: 1999/ IS 5887 (Part 2): 1976/ IS 5887 (Part 8): Sec 1:2002	≥10 CFU/g
		Staphylococcus aureus Detection	IS 5887 (Part 2): 1976	absent/present/25g/25ml
		Enterobacteriaceae Detection	ISO 21528-1: 2017 IS/ISO 7402: 1993	absent/present/25g/25ml
		Enterobacteriaceae Enumeration	ISO 21528-1: 2017	≥10 CFU/g
		Enterobacteriaceae MPN	IS/ISO 7402: 1993/ ISO 21528-1: 2017	≥ 3 MPN/g/ml
		Bacillus cereus Enumeration	ISO 7932: 2004/IS5887 (Part 6): 2012	Log CFU 3.10 +/- 0.169
		Clostridiumperfringens Enumeration	IS: 5887 (Part 4): 1999	≥10 CFU/g
		Clostridiumperfringens Enumeration	ISO 7937: 2004	≥10 CFU/g
		Clostridiumperfringens Detection	IS: 5887 (Part 4): 1999	absent/present/25g/25ml
		Mesophilic anaerobic spore formers	APHA 5th Edition (Chapter 24): 2015	≥1 CFU/g
		Mesophilic aerobic spore formers	APHA 5th Edition (Chapter 23): 2015	≥1 CFU/g
		Faecal Streptococci	IS 5887 (Part 2): 1976	≥10 CFU/g

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Detection of Listeria spp	IS 14988 (Part 1): 2001/ ISO 11290-1: 2017	absent/present/25g/25ml
		Detection of Listeria monocytogenes	IS 14988 (Part 1): 2001	absent/present/25g/25ml
		Detection of Listeria monocytogenes	ISO 11290-1: 2017	absent/present/25g/25ml
		Detection of Salmonella spp	IS 5887 (Part 3): 1999	absent/present/25g/25ml
		Detection of Salmonella spp	ISO 6579: 2017	absent/present/25g/25ml
		Detection of Shigella spp	IS 5887 (Part 7): 1999	absent/present/25g/25ml
		Detection of Listeria spp (VIDAS)	BIO 12/02-06/94	absent/present/25g/25ml
		Detection of Listeria monocytogenes (VIDAS)	BIO 12/11-03/04	absent/present/25g/25ml
		Vibrio cholerae	IS 5887 (Part 5): 1976	absent/present/25g/25ml
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976	absent/present/25g/25ml
		Detection of Salmonella spp (VIDAS)	BIO 12/16-09/05	absent/present/25g/25ml
		Aciduric Flat sour Spore Count	APHA 5 thEdition (chap-25):2015	≥10 CFU/g
		Thermophilic flat sour organisms	APHA 5 thEdition (chap-25):2015	≥10 CFU/g
		Sulphite Reducing Clostridia (SRC)	ISO 15213: 2003	absent/present/25g
		E .C oli 0157 and Vero or Shiga toxin producing E coli	IS 14397:1996	absent/present/25g/25ml
		E .C oli 0157 and Vero or Shiga toxin	BIO 12/25-05/09	absent/present/25g/25ml

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		producing E coli (VIDAS)		
17.	Fish and Fish product	Aerobic Plate Count	IS 5402: 2012/ISO 4833 – 1: 2013	≥10 CFU/g
		Yeast & Mould Count	IS 5403: 1999	≥10 CFU/g
		Yeast & Mould Count	ISO 21527- 2: 2008	≥10 CFU/g
		Coliform MPN	ISO 4831: 2006/ IS 5401 (Part 2): 2012	≥ 3 MPN/g/ml
		Coliform count	ISO 4832: 2006/IS5401 (Part 1): 2012	≥10 CFU/g
		Escherichia coli MPN	ISO7251: 2005/IS5887 (Part 1): 1976	≥ 3 MPN/g/ml
		Escherichia coli Enumeration	ISO16649-2: 2001	≥10 CFU/g
		Escherichia coli Enumeration	IS 5887 (Part 1): 1976	≥10 CFU/g
		Escherichia coli Detection	IS 5887 (Part 1): 1976	absent/present/25g
		Enumeration Coagulase positive staphylococci	ISO 6888-1:1999/IS 5887 (Part 2): 1976/ IS 5887 (Part 8)Sec 1:2002	≥10 CFU/g
		Detection Coagulase positive staphylococci	IS 5887 (Part 2): 1976	absent/present/25g
		Detection of Listeria spp	IS 14988 (Part 1): 2001/ ISO 11290-1: 2017	absent/present/25g
		Detection of Listeria monocytogenes	IS 14988 (Part 1): 2001	absent/present/25g
		Detection of Listeria monocytogenes	ISO 11290-1: 2017	absent/present/25g
		Detection of Salmonella spp	IS 5887 (Part 3): 1999	absent/present/25g
	Detection of Salmonella spp	ISO 6579: 2017	absent/present/25g	

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		Vibrio cholerae	IS 5887 (Part 5): 1976	absent/present/25g
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976	absent/present/25g
18.	Meat and Meat Products	Aerobic Plate Count	IS 5402: 2012/ISO 4833 – 1: 2013	≥10 CFU/g
		Yeast & Mould Count	IS 5403: 1999	≥10 CFU/g
		Yeast & Mould Count	ISO 21527- 2: 2008	≥10 CFU/g
		Escherichia coli MPN	ISO7251: 2005/IS5887 (Part 1): 1976	≥ 3 MPN/g/ml
		Escherichia coli Enumeration	ISO16649-2: 2001	≥10 CFU/g
		Escherichia coli Enumeration	IS 5887 (Part 1): 1976	≥10 CFU/g
		Escherichia coli Detection	IS 5887 (Part 1): 1976	absent/present/25g
		Enumeration Staphylococcus aureus (Coagulase positive)	ISO 6888-1: 1999/IS5887 (Part 2): 1976/ IS5887 (Part 8) Sec 1: 2002	≥10 CFU/g
		Detection Staphylococcus aureus (Coagulase positive)	IS 5887 (Part 2): 1976	absent/present/25g
		Clostridiumperfringens Enumeration	IS: 5887 (Part 4): 1999	≥10 CFU/g
		Clostridiumperfringens Enumeration	ISO 7937: 2004	≥10 CFU/g
		Clostridiumperfringens Detection	IS: 5887 (Part 4): 1999	absent/present/25g
		Detection of Listeria spp	IS 14988 (Part 1): 2001/ ISO 11290-1: 2017	absent/present/25g
		Vibrio cholerae	IS 5887 (Part 5): 1976	absent/present/25g/25ml
		Vibrio	IS 5887 (Part 5): 1976	absent/present/25g/25ml

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		parahaemolyticus		
		Detection of Listeria monocytogenes	IS 14988 (Part 1): 2001	absent/present/25g
		Detection of Listeria monocytogenes	ISO 11290-1: 2017	absent/present/25g
		Detection of Salmonella spp	IS 5887 (Part 3): 1999	absent/present/25g
		Detection of Salmonella spp	ISO 6579: 2017	absent/present/25g
19.	Poultry	Aerobic Plate Count	IS 5402: 2012/ISO 4833 – 1: 2013	≥10 CFU/g
		Yeast & Mould Count	IS 5403: 1999	≥10 CFU/g
		Yeast & Mould Count	ISO 21527- 2: 2008	≥10 CFU/g
		Escherichia coli MPN	ISO7251: 2005/IS5887 (Part 1): 1976	≥ 3 MPN/g/ml
		Escherichia coli Enumeration	ISO16649-2: 2001	≥10 CFU/g
		Escherichia coli Enumeration	IS 5887 (Part 1): 1976	≥10 CFU/g
		Escherichia coli Detection	IS 5887 (Part 1): 1976	absent/present/25g
		Staphylococcus aureus Enumeration	ISO 6888-1:1999/ IS 5887 (Part 2): 1976/ IS 5887 (Part 8)Sec 1:2002	≥10 CFU/g
		Staphylococcus aureus Detection	IS 5887 (Part 2): 1976	absent/present/25g
		Clostridiumperfringens Enumeration	IS: 5887 (Part 4): 1999	≥10 CFU/g
		Clostridiumperfringens Enumeration	ISO 7937: 2004	≥10 CFU/g
		Clostridiumperfringens Detection	IS: 5887 (Part 4): 1999	absent/present/25g
		Detection of Listeria spp	IS 14988 (Part 1): 2001/ ISO 11290-1: 2017	absent/present/25g

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		Vibrio cholerae	IS 5887 (Part 5): 1976	absent/present/25g/25ml
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976	absent/present/25g/25ml
		Detection of Listeria monocytogenes	IS 14988 (Part 1): 2001	absent/present/25g
		Detection of Listeria monocytogenes	ISO 11290-1: 2017	absent/present/25g
		Detection of Salmonella spp	IS 5887 (Part 3): 1999	absent/present/25g
		Detection of Salmonella spp	ISO 6579: 2017	absent/present/25g
		Coliform MPN	ISO 4831: 2006/ IS 5401 (Part 2): 2012	≥ 3 MPN/g/ml
		Coliform count	ISO 4832: 2006/IS5401 (Part 1): 2012	≥10 CFU/g
II.	WATER			
1.	Water	Legionella	APHA 5 thEdition (chap-19) :2015	present/absent/mL/L
		BET	IP :2018	MORE THAN 0.25 EU/1mL
		Coliform Count	IS 15185:2016	≥ 1 CFU/100ml
		Aerobic Plate Count	ISO 4833-1: 2013	≥ 1 CFU/ml
2.	Drinking Water	Total Bacterial count	IS 1622 & IS 5402	≥ 1 CFU/ml
		Coliforms	IS 1622	≥1MPN /100 ml
		Faecal Coliforms	IS 1622	≥1 MPN /100 ml
		Faecal Streptococci	IS 1622 & IS 5887 Part 2	≥1 MPN /100ml
		Escherichia coli	IS 1622 & IS 5887 Part I	Absent/Present /100 ml ≥1 MPN /100m
		Salmonella	IS 5887 Part 3	Absent/Present/25 ml
		Staphylococcus aureus	IS 5887 Part 2	Absent/Present/25 ml
		Pseudomonas aeruginosa	Annex D of IS 13428	Absent/Present/25 ml

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		Coliform Count	IS: 15185:2016	≥1/100 ml
		Escherichia coli	IS: 15185:2016	Presence/Absence/100ml
3	Packaged Drinking Water	Escherichia coli	IS 15185 & IS 5887 Part I	Absent/Present/250 ml
		Coliform Bacteria	IS 15185 & IS 5401 Part I	Absent/Present/250 ml
		Faecal streptococci	IS 5887 Part 2 IS 15186	Absent/Present/250 ml
		Staphylococcus aureus	IS 5887 Part 2	Absent/Present/250 ml
		Sulphite reducing anaerobes	Annex C of IS 13428	Absent/Present/50 ml
		Pseudomonas aeruginosa	Annex D of IS 13428	Absent/Present/250 ml
		Aerobic microbial count	IS 5402	≥1 CFU/ ml
		Yeast & Mold	IS 5403	Absent/Present/250 ml
		Salmonella	IS 15187	Absent/Present/250 ml
		Shigella	IS 5887 Part 7	Absent/Present/250 ml
		Vibrio cholerae	IS 5887 Part V	Absent/Present/250 ml
		Vibrio parahaemolyticus	IS 5887 Part V	Absent/Present/250 ml
4.	Package Natural Mineral Water	Coliform Count	IS: 5401 (Part 1):2012	Presence/Absence/250ml
		Coliform Count	IS: 15185:2016	Presence/Absence/250ml
		Escherichia coli	IS5887 (Part 1): 1976	Presence/Absence/250ml
		Escherichia coli	IS: 15185:2016	Presence/Absence/250ml
		Sulphite Reducing Anaerobes	Annexure C, IS 13428:2005	Presence/Absence/50ml
		Pseudomonas aeruginosa	Annexure D, IS13428:2005	Presence/Absence/250ml
		Yeast & Mould Count	IS 5403: 1999	Presence/Absence/250ml
		Detection of Salmonella spp	IS: 15187:2002	Presence/Absence/250ml
		Shigella spp	IS 5887 (Part 7): 1999	Presence/Absence/250ml

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		Faecal Streptococci	IS 5887 (Part 2): 1976	Presence/Absence/250ml
		Faecal Streptococci	IS: 15186:2002	Presence/Absence/250ml
		Staphylococcus aureus	IS: 5887 (Part 2):1976	Presence/Absence/250ml
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976	Presence/Absence/250ml
		Vibrio cholerae	IS 5887 (Part 5): 1976	Presence/Absence/250ml
5.	Edible Ice	Aerobic Plate Count	IS 5402: 2012/ISO 4833 : 2013	≥10 cfu/g
		Staphylococcus aureus	IS: 5887 (Part 2):1976	≥10 cfu/g
		Coliform Count	IS: 5401 (Part 1) - 2012	≥10 cfu/g
		Detection of Listeriamonocytogenes	IS: 14988 (Part 1) - 2001	Presence/absence/g
		Detection of E. coli	IS: 5887 (Part 1) - 1976	Presence/absence/g
		Detection of Salmonella	IS: 5887 (Part 3) - 1999	Presence/absence/25g
III.	ENVIRONMENT AND POLLUTION			
1.	Waste Water	Escherichia coli	IS 1622	Absent/Present/ 100 ml≥1 MPN /100 ml
		Coliforms	IS 1622	≥1 MPN/100 ml
		Faecal streptococci	IS 1622	≥1 MPN/100 ml
2.	Swab	Total plate count	ISO 4833: 2013	≥10cfu/25sq.cm ² /100sq.cm ² /swab
		Yeast & Mould Count	ISO 21527- 2: 2008	≥10cfu/25sq.cm ² /100sq.cm ² /swab
		Coliform Count	ISO 4832: 2006	≥10cfu/25sq.cm ² /100sq.cm ² /swab
		Escherichia coli count	ISO16649-2: 2001	≥10cfu/25sq.cm ² /100sq.cm ² /swab
		Escherichia coli Detection	IS5887 (Part 1): 1976	Present or Absent/swab/25sq.cm ² /100

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				sq.cm2
		Staphylococcus aureus	IS: 5887 (Part 2):1976	Present or Absent/swab/25sq.cm2/100 sq.cm2
		Detection of Salmonella spp	IS 5887 (Part 3): 1999	Present or Absent/100sq.cm2/swab
		Detection of Salmonella spp	ISO 6579: 2017	Present or Absent/100sq.cm2/swab
		Detection of Salmonella spp (VIDAS)	BIO 12/16-09/05	Present or Absent/100sq.cm2/swab
		Enterobacteriaceae	ISO 21528-1: 2017	≥10cfu/25sq.cm2/100sq.cm2 /swab
		Detection of Listeria spp	ISO 11290-1: 2017	Present or Absent/100sq.cm2/swab
		Detection of Listeria spp. (VIDAS)	BIO 12/02-06/94	Present or Absent/100sq.cm2/swab
		Detection of Listeria monocytogenes (VIDAS)	BIO 12/11-03/04	Present or Absent/100sq.cm2/swab
		E .C oli 0157 and Vero or Shiga toxin producing E coli (VIDAS)	BIO 12/25-05/09	Present or Absent/100sq.cm2/swab
3.	Air (Settle plate)	TPC	ISO 4833: 2013	≥1 cfu/plate
		Yeast & Mould Count	ISO 21527: 2008	≥1 cfu/plate
		TPC	ISO 4833: 2013	≥1 cfu/m3
		Yeast & Mould Count	ISO 21527: 2008	≥1 cfu/m3
4.	Effluent	Escherichia coli	IS 1622:1981	Absent/Present/100 ml
		Coliform Count	IS 1622:1981/ IS: 15185:2016	≥1/ 100mL
		Faecal Streptococci	IS 1622:1981	≥1/ 100mL
		Faecal Coliform	IS 1622:1981	≥1/ 100mL
5.	Cereals Pulses and their	Total Plate Count	IS 5402	≥ 10 CFU/g or ml

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	Products			
		Coliform Count	IS 5401-Part 1	≥ 10 CFU/g or ml
		Yeast & Mold Count	IS 5403	≥ 10 CFU/g or ml
		Salmonella	IS 5887-Part 3	Present/ Absent/25g
		Escherichia coli (Enumeration)	IS 5887-Part 1	≥ 10 CFU/g or ml
		Escherichia coli (Detection)	IS 5887-Part 1	Present/ Absent/g
		Staphylococcus aureus (Enumeration)	IS 5887-Part 8, Sec1 IS 5887-Part 2	≥ 10 CFU/g or ml
		Staphylococcus aureus (Detection)	IS 5887-Part 2	Present/Absent/25g
6.	Nonalcoholic beverages	Total Plate Count	IS 5402	≥ 10 CFU/g or ml
		Coliform Count	IS 5401-Part 1	≥ 10 CFU/g or ml
		Yeast & Mold Count	IS 5403	≥ 10 CFU/g or ml
		Salmonella	IS 5887-Part 3	Present/Absent/25g or 25 ml

***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 14543 and the Packaged Natural Mineral Water 13428**.

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CHEMICAL TESTING				
I.	FOOD AND AGRICULTURAL PRODUCTS			
1.	Coffee Powder/Soluble Coffee(Instant) Powder/Soluble Coffee-Chicory Powder	Moisture	Annex B of IS 2791	0.5g/100g to 20g/100g
		Total Ash	Annex C of IS 2791	0.2g/100g to 15g/100g
		Caffeine content	IS 16028	0.5g/100g to 5.0g/100g
		Solubility in Boiling Water	Annex E of IS 2791	Qualitative
		Solubility in Cold Water at 16 ± 2°C	Annex E of IS 2791	Qualitative
2.	Roasted Coffee-Chicory Powder/Roasted Coffee Powder	Moisture	Annex E of IS 3077	0.5g/100g to 20g/100g
		Total Ash	Annex F of IS 3077	0.2g/100g to 15g/100g
		Acid Insoluble ash	Annex G of IS 3077	0.02g/100g to 2g/100g
		Water Soluble Matter	Annex K of IS 3077	0.5g/100 g to 80g/100g
		Caffeine	Annex L of IS 3077	0.5g/100g to 5g/100g
3.	Tea Powder/Dust/ viz.,	Moisture	IS 13853	0.1g/100g to 20g/100g
		Total Ash	IS 13854	0.2g/100g to 20g/100g
		Water Soluble Ash	IS 13855	0.5g/100g to 70g/100g
		Ash Insoluble in dilute HCl	IS 13857	0.02g/100g to 2g/100g
		Water Extract	IS 13862	2g/100g to 50g/100g
		Alkalinity of Soluble Ash	IS 13856	0.1g/100g to 5g/100g
		Crude Fibre	IS 10226 (Part I)	0.2g/100g to 30g/100g
		Total Catechins	ISO: 14502-(2)	0.1g/100g to 12g/100g
4.	Milk Powder/Skimmed Milk Powder/Milk cereal weaning	Total Solids	IS 1165	90g/100g to 99.5g/100g
		Fat	IS 11721	0.5g/100g to 35g/100g
		Total ash	Appendix A of IS 1165	0.1g/100g to 10g/100g
		Titrateable acidity as	IS 1165	0.2g/100g to 2g/100g

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	food/Processed cereal weaning foods/Milk cereal based complimentary food	Lactic Acid		
		Moisture	IS 16072	0.5g/100g to 10g/100g
		Total Carbohydrate	Annex C of IS 1656	40g/100g to 80g/100g
		Ash insoluble in HCl	Annex C of IS 14433 (Part 1)	0.03g/100g to 2g/100g
		Crude Fibre	IS 10226 (Part I)	0.2g/100g to 10g/100g
		Protein	IS 7219	0.5g/100g to 90g/100g
5.	Ice cream / Kulfi/Softies/Lollies/ Frozen Dessert	Total Solids	Appendix B of IS 2802	10g/100g to 60g/100g
		Fat	Appendix C of IS 2802	0.1g/100g to 30g/100g
		Acidity As lactic acid	Appendix D of IS 2802	0.03g/100g to 1g/100g
		Sucrose	Appendix E of IS 2802	0.5g/100g to 20g/100g
		Protein	IS 7219	1g/100g to 50g/100g
6.	Confectioneries (viz Toffees,Hard boiled confectionaries)	Ash Sulphated	IS 6287	0.1g/100g to 2g/100g
		Acid insoluble ash	IS 6287-1985 RA 2010	0.02g/100g to 2g/100g
7.	Biscuits/Cookies/Crackers/Wafers/snacks of similar category	Moisture	Annex B of IS 1011	0.1g/100g to 10g/100g
		Acid insoluble ash	Annex C of IS 1011	0.01g/100g to 0.5g/100g
		Acidity of extracted fat As oleic acid	Annex D of IS 1011	0.2g/100g to 2g/100g
8.	Honey	Specific gravity	Annex A of IS 4941	1.1 to 1.5
		Moisture	Annex B of IS 4941	13g/100g to 25g/100g
		Total reducing sugar	Annex C of IS 4941	25g/100g to 85g/100g
		Ash	Annex D of IS 4941	0.02g/100g to 2g/100g
		Acidity	Annex E of IS 4941	0.01g/100g to 1g/100g
		Sucrose	Annex C of IS 4941	0.3g/100g to 30g/100g
		Fructose-Glucose Ratio	Annex C of IS 4941	0.5 to 1.8
		Hydroxyl methyl furfural	Appendix F of IS 4941	10mg/kg to 400mg/kg
9.	Cereal & Cereal Products	Moisture	Appendix A of IS 1009	0.1g/100g to 15g/100g
		Total ash	Appendix B of	0.1g/100g to 2g/100g

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			IS 1009	
		Acid insoluble ash	Appendix C of IS 1009	0.1 g per 100 g to 2 g per100 g
		Gluten	Appendix D of IS 1009	1 g per 100 g to 20 g per100 g
		Alcoholic acidity as H ₂ SO ₄	Appendix E of IS 1009	0.01 g per 100 g to 2 g per100 g
		Granularity	Appendix F of IS 1009	Qualitative
		Protein	IS 7219-1973 RA 2010	1.0g/100 g to 20.0g/100g
		Uric acid	IS 4333 (Part V)	1 mg/kg to 40 mg/kg
10.	Iodised Salt	Water insoluble matter	Annex C of IS 7224	0.05g/100 g to 5g/100g
		Chloride content (as NaCl)	Annex D of IS 7224	90g/100g to 99.9g/100g
		Matter soluble in water other than NaCl	Annex E of IS 7224	0.1g/100g to 5g/100g
		Iodine content	Annex H of IS 7224	10mg/kg to 100mg/kg
11.	Edible Common Salt	Water insoluble matter	A-4 of IS 253	0.01g/100g to 5g/100g
		Matter soluble in Water other than Sodium Chloride	A-6 of IS 253	0.01g/100g to 5g/100g
		Chloride (as NaCl)	A-5 of IS 253	90.0g/100g to 99.9g/100g
		Calcium	A-7 of IS 253	0.01g/100g to 0.1g/100g
		Magnesium	A-7 of IS 253	0.01g/100g to 0.1g/100g
		Sulphates	A-8 of IS 253	0.05g/100g to 1g/100g
		Alkalinity	A-9 of IS 253	0.1g/100g to 0.2g/100g
		Ferrocyanide	A-3 of IS 253	Present / Absent (Qualitative)
		Moisture	A-2 of IS 253	0.05g/100g to 6.0g/100g
12.	Milk & Milk Products (Viz Butter, Milk	Moisture	Cl. 4 of IS 3507	1g/100g to 30g/100g
		Fat	Cl. 6 of IS 3507	1g/100 g to 90g/100g

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	sweets)			
	Viz Cheese, Paneer	Moisture	Appendix A of IS 2785	1g/100g to 80g/100g
		Fat	Appendix B of IS 2785	1g/100g to 80g/100g
13.	Spices & Condiments (Viz Whole & Ground) (Chilli Powder / Dhaniya Powder / Jeera Powder / Pepper Powder /turmeric/ Masala powder)	Moisture	Cl. 9 of IS 1797	1g/100g to 20g/100g
		Total Ash	Cl. 6 of IS 1797	0.5g/100g to 10g/100g
		Acid insoluble ash	Cl. 8 of IS 1797	0.1g/100g to 1.0g/100g
		Crude Fibre	Cl. 13 of IS 1797	0.5g/100g to 35g/100g
		Non-Volatile Ether Extract	Cl. 14 of IS 1797	1g/100 g to 30g/100g
		Volatile Oil	Cl. 15 of IS 1797	0.1ml/100g to 25ml/100g
		Salt	Cl. 16 of IS 1797	0.2g/100g to 10g/100g
		Insect Damage	Cl. 4.2 of IS 3576	0.05g/100g to 5g/100g
		Extraneous matter	Cl. 4 of IS 1797	0.05g/100g to 2g/100g
			Test for presence of Chromate	Annex A of IS 3576
		Starch	Cl. 9 of IS 4706 (P II)	3g/100g to 60g/100g
14.	Ketchup / Sauce/Puree	Total Soluble Solids	Appendix B of IS 3882	10g/100g to 50g/100g
		Specific gravity	Cl. 9 of IS 2860	0.8g/100g to 1.g/100g
		Acidity as citric acid	IS 2860	0.5g/100g to 2g/100g
15.	Processed Fruits and Vegetables	pH value	IS 2860	1 to 8
		Sodium Chloride	IS 2860	0.5g/100g to 4g/100g
		Calcium	IS 2860	0.01g/100g to 10g/100g
		Acidity	IS 2860	0.5g/100g to 2g/100g
16.	Fishmeal /Animal Feed	Moisture	IS 7874 (Part 1)	0.1g/100 g to 20g/100g
		Crude Protein	IS 7874 (Part 1)	0.3g/100g to 60g/100g
		Crude Fat	IS 7874 (Part 1)	0.2g/100g to 30g/100g
		Acid insoluble ash	IS 7874 (Part 1)	0.01g/100g to 1.0g/100g
		Chlorine as NaCl	IS 7874 (Part II)	0.1g/100g to 10g/100g
		Total Ash	IS 7874 (Part 1)	0.1g/100g to 30g/100g
		Sand Silica	IS 7874 (Part 1)	0.01g/100g to 30g/100g

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		Crude Fibre	IS 7874 (Part 1)	0.2g/100g to 30g/100g
		Nitrogen free extract (Carbohydrate) by calculation	MXNS/BLR/WIS/FC/01, R0 dated 26.12.2017	0.5g/100g to 70g/100g
		Urease activity	IS 7835	0.01 to 1.0
17.	Alcoholic Drinks (Viz. Rum Gin/ Whiskies/Brandies)	Total acids	Cl. 7 of IS 3752	2g/100L to 2000g/100L
		Volatile acids	Cl. 8 of IS 3752	2g/100L to 200g/100L
		Esters	Cl. 10 of IS 3752	5g/100L to 250g/100L
		Higher Alcohol	Cl. 11 of IS 3752	0.5g/100L to 800g/100L
		Aldehydes	Cl. 12 of IS 3752	1g/100L to 60g/100L
		Furfural	Cl. 13 of IS 3752	0.1g/100L to 15g/100L
		Ethyl alcohol Content	Cl 4 of IS 3752	10ml/ 100ml to 60ml/ 100ml
		Methyl alcohol content	Cl. 16 of IS 3752	1g/100L to 200g/100L
		Residue on evaporation	Cl. 5 of IS 3752	0.01g/100ml to 10g/100ml
		Copper	Cl. 15 of IS 3752	0.05mg/L to 15mg/L
18.	Sugar & Sugar Products	Sucrose	Cl. 12 of IS 15279	90g/100g to 100g/100g
		Colour (ICUMSA units)	Cl. 8 of IS 15279	40 to 200
		Sulphated ash	Cl. 10 of IS 15279	0.1g/100g to 2g/100g
		Crystal Size (Raw Sugar)	Annex B of IS 5975	90g/100g to 99.9g/100g
		Sulphur dioxide	Cl. 13 of IS 15279	1mg/100g to 30mg/kg
		Moisture	Cl. 4 of IS 15279	0.01g/100g to 5g/100g
19.	Mineral Mixtures	Moisture	Cl. 4 of IS 7874 (Part 1)	0.5g/100g to 10g/100g
		Calcium	IS 13574	0.5g/100g to 35g/100g
		Phosphorus	Cl. 6 of IS 7874 (Part--II)	0.1g/100g to 20g/100 g
		Acid insoluble ash	Cl. 10 of IS 7874 (Part-I)	0.01g/100 g to 10.0g/100g
20.	Edible Oils	Saponification Value	Cl. 15 of IS 548-Part I	10 to 250
		Acid Value & Free Fatty Acid	Cl. 7 of IS 548-Part I	0.1mgKOH/g to 10mg KOH/g
		Unsaponifiable Matter	Cl. 8 of IS 548-Part I	0.1g/100g to 10g/100g

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		Iodine Value	Cl. 14 of IS 548- Part 1	5 to 250
	Bakery & Confectionery products	Description: -Appearance -colour - texture	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Bakery & Confectionery products	Impurities (dirt, filth, adulterants, insect and fungus infection)	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Bakery & Confectionery products	Moisture	IS 12711-1989:/ IS15279-2003/ IS 6287-1985/	0.20 to20.0g/100g
	Bakery & Confectionery products	Ash	IS 12711-1989	0.20 to20.0g/100g
	Bakery & Confectionery products	Acid Insoluble Ash	Annex C of IS: 1011-2002/IS: / IS: 12711-1989/IS: 6287-1985/FSSAI Manual (Cereal&Cereal product),2016, S.NO 8.3/FSSAI Manual 4 (Confectionery product),2015, clause A5	0.01to20.0g/100g
	Bakery & Confectionery products	Acidity of extracted fat	Annex D of IS: 1011-2002/IS12711-1989/FSSAI Manual (Cereal&Cereal product), 2016, S.NO	0.1to5.0g/100g
	Bakery & Confectionery products	Alcoholic acidity	FSSAI Manual(Cereal&Cereal product), 2016, Clause 8.5 /IS 12711-1989	0.1to5.0g/100g
	Bakery & Confectionery products	Fat	FSSAI ManualconfectioneryFood products), 2016, Clause A 8.2	0.25 to 30g/100g
	Bakery &	Foreign Matter	MXNS/BLR/SOP/FC/02,	Qualitative

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	Confectionery products		Issue no-00 dated 20-09-2018	
	Bakery & Confectionery products	Gum content	FSSAI Manual (confectionery products), 2016, Clause B.7.	0.1to30g/100g
	Bakery & Confectionery products	Reducing Sugar	FSSAI Manual (confectionery products), 2016, Clause A.9	1.0 to70 g/100g
	Bakery & Confectionery products	Total sugars	FSSAI Manual (confectionery products), 2016, Clause A10	4.0 to 90.0 g/100g
	Bakery & Confectionery products	Sucrose	FSSAI Manual (confectionery products), 2016, Clause A.10	2.0 to 99.0 g/100g
	Bakery & Confectionery products	Total fat	FSSAI Manual(confectionery products), 2016, Clause C.3	0.1 to 60.0 g/100g.
	Bakery & Confectionery products	Sulphated Ash	IS: 6287-1985/FSSAI Manual 4 (confectionery products), 2014, Clause A.3	0.1 to 20.0 g/100g.
	Bakery & Confectionery products	Aflatoxin M1	MXNS/BLR/SOP/IN/05 Issue no-01 dated 29-11-2017	0.5 to 100 mcg/Kg
	Bakery & Confectionery products	protein	FSSAI Manual(confectionery products), 2016, Clause A.7	0.5 to 40.0 g/100g.
	Tea & Coffee & Cocoa Powder, Cocoa bean & Cocoa products	Description: -Appearance -colour - texture	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative

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	Tea & Coffee & Cocoa Powder, Cocoa bean & Cocoa products	Moisture	IS1164-1986:IS 2791-1992/IS: 3077-1992 /IS: 13853-1994/FSSAI Manual(Beverages), 2016, Clause1.2	0.2 to 20.0 g/100g.
	Tea & Coffee & Cocoa Powder, Cocoa bean & Cocoa products	Total Ash	IS1164-1986/IS: 2791-1992/IS: 3077-1992/IS: 612-1992/FSSAI Manual (Beverages), 2016, Clause 1.3	0.2 to 20.0 g/100g.
	Tea & Coffee & Cocoa Powder, Cocoa bean & Cocoa products	Acid Insoluble Ash	IS1164-1986:/ IS 3077-1992/IS: 612-1992/FSSAI Manual(Beverages), 2016, Clause1.5	0.005 to 10.0 g/100g.
	Tea & Coffee & Cocoa Powder, Cocoa bean & Cocoa products	Crude Fibre	IS: 10226 (Part I) 1982	0.20 to 30.0 g/100g.
	Tea & Coffee & Cocoa Powder, Cocoa bean & Cocoa products	Water Extract	IS: 13862-1994	2.0to 60.0 g/100g.
	Tea & Coffee & Cocoa Powder, Cocoa bean & Cocoa products	Water Soluble Ash	/IS: 3077-1992/FSSAI Manual(Beverages), 2016, Clause 1.4/IS 13855-1993	0.10 to 80.0 g/100g.
	Tea & Coffee & Cocoa Powder, Cocoa bean & Cocoa products	Water Soluble matter	IS: 3077-1992/IS: 612-1992	0.50to 85.0 g/100g.

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	Tea & Coffee & Cocoa Powder, Cocoa bean & Cocoa products	Water Insoluble Ash	/IS: 3077-1992/FSSAI Manual(Beverages), 2016, Clause 1.4/IS 13855-1993	0.52 to 10 g/100g.
	Tea & Coffee & Cocoa Powder, Cocoa bean & Cocoa products	Solubility in Hot Water	IS: 2791-1992	Qualitative
	Tea & Coffee & Cocoa Powder, Cocoa bean & Cocoa products	Solubility in boiling Water	IS: 2791-1992	Qualitative
	Tea & Coffee & Cocoa Powder, Cocoa bean & Cocoa products	Caffeine	IS: 3077-1992/IS: 16028-2012/FSSAI Manual (Beverages), 2016, Clause 5.9	0.50 to 10.0 g/100g.
	Tea & Coffee & Cocoa Powder, Cocoa bean & Cocoa products	Alkalinity of Soluble ash	IS 1164-1986/FSSAI Manual(Beverages), 2016, Clause 1.6/IS 3077-1992	0.02 to 20.0 g/100g.
	Tea & Coffee & Cocoa Powder, Cocoa bean & Cocoa products	Iron Filling	FSSAI Manual (Beverages), 2016, Clause 5.9	0.001 to 900 mg/kg /100g.
	Tea & Coffee & Cocoa Powder, Cocoa bean & Cocoa products	Solubility in cold water	IS: 2791-1992	Qualitative

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	Tea & Coffee & Cocoa Powder, Cocoa bean & Cocoa products	Total Catechins	ISO: 14502-(2)2005 (HPLC)	0.1 to 12 g /100 g
	Tea & Coffee & Cocoa Powder, Cocoa bean & Cocoa products	Fat	IS1164-1986	0.05 to 40.0 g/100g.
	Milk & Dairy Products	Description: -Appearance -colour - texture	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Milk & Dairy Products	Moisture	IS 16072-2002/IS 2785-1979 /FSSAI Manual-Milk & milk products, 2016 /IS 1479(Part 2)-1961	0.1 to 70.0 g/100g.
	Milk & Dairy Products	Total Ash	IS 1165-2002/IS: 1479 (Part 2)- 1961 /IS: 12299-1998/IS: 14433, Annex. B-2007/FSSAI Manual-Milk & Milk Products, 2016, Clause 10.7	0.1 to 30.0 g/100g.
	Milk & Dairy Products	Milk Protein	IS: 1479 (Part 2)-1961 / FSSAI Manual (Milk & Milk Products), 2016, Clause 10.6	0.10 to 60.0 g/100g.
	Milk & Dairy Products	Protein	ISO 8968-1- 2014/IS 7219-1973/IS 1479(Part 2)- 1961	0.05 to 40.0 g/100g.
	Milk & Dairy Products	Milk Fat	IS: 1479 (Part 2)- 1961/IS: 11721- 2013/ IS: 12299-1998/FSSAI Manual (Milk & Milk Products), 2016,	0.05 to 40.0 g/100g.

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			Clause 6.3/IS: 3509-1966/IS: 2785- 1975/IS: 10484- 1983/ IS: 2802-1964	
	Milk & Dairy Products	Fat	ISO 1735-2004/ ISO 1211-2010/ ISO 1736- 2008/ ISO 8262- 2005	0.05 to 50.0 g/100g.
	Milk & Dairy Products	Dry matter	ISO 6731- 2010/ISO 5534-2004	0.10 to 70.0 g/100g.
	Milk & Dairy Products	Acid Insoluble Ash	IS: 14433, Annex. C-2007/FSSAI Manual (Milk & Milk Products), 2016, Clause 10.8/IS: 12299-1998	0.05 to 40.0 g/100g.
	Milk & Dairy Products	Added Formaldehyde	IS: 1479 (Part 2)-1961/FSSAI Manual (Milk & Milk Products), 2016, Clause 1.2.17	Qualitative
	Milk & Dairy Products	Added Starch	FSSAI Manual (Milk & Milk Products), 2016, Clause 7.6/ FSSAI Manual (Milk & Milk Products), 2016, Clause 1.2.2	Qualitative
	Milk & Dairy Products	Baudouin test	IS:548 (Part 2)-1964/FSSAI Manual (Milk & Milk Products), 2016, Clause 13.6	Qualitative
	Milk & Dairy Products	Butyrometer Refractometer at 40°C	IS:548 (Part 2)-1964/FSSAI Manual (Milk & Milk Products), 2016, Clause 13.3	35.0 to 50.0
	Milk & Dairy Products	Calcium	IS 5949- 1990/ IS 1479(Part 2)-1961	0.1 g to 40 g/100g

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	Milk & Dairy Products	Total Carbohydrates	IS1656 Annex C- 2007/FSSAI Manual (Milk & Milk Products), 2016, Clause 10.5/MXNS/BLR/WIS/FC/01 Issue no-01 dated 20-09-2018	0.05 to 40.0 g/100g.
	Milk & Dairy Products	Sucrose	FSSAI Manual (Milk & Milk Products), 2016, Clause 9.4	0.50 to 99.9 g/100g.
	Milk & Dairy Products	Carbonates	FSSAI Manual (Milk & Milk Products), 2016, Clause 1.2.11/IS1479 (Part 1)	Qualitative
	Milk & Dairy Products	Chloride	IS 2785-1979/ ISO 1738-2004 (E)	0.05 to 10 g/100g.
	Milk & Dairy Products	Free fatty acid ml/0.1NNaOH/g.	IS548 (Part 1)- 1964/FSSAI Manual (Milk & Milk Products), 2016, Clause 13.4	0.05 to 20.0 g/100g.
	Milk & Dairy Products	Lactose	MXNS/BLR/SOP/IN/26 Issue no-0 dated 25-01-2019	0.5 to 50 %
	Milk & Dairy Products	Magnesium	IS 5949- 1990/IS 7235-1974	0.05 to 20.0 g/100g.
	Milk & Dairy Products	Mineral Oils	IS548(Part 2)- 1988/ FSSAI Manual (Milk & Milk Products), 2016, Clause 13.7 & 13.5	Qualitative
	Milk & Dairy Products	pH	IS 1479 (Part 2)- 1961/FSSAI Manual (Milk & Milk Products), 2016, Clause 16.6 & 17.10/ISO 1842- 1991/IS 2860- 1964/IS 12711- 1989/IS 4706 (Part 2)- 1978/IS 1483- 1988	1.0 to 14

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	Milk & Dairy Products	Phosphorus	MXNS/BLR/SOP/IN/11 Issue no-0 dated 20-09-2018	1 to 10000 mg/kg
	Milk & Dairy Products	Potassium	MXNS/BLR/SOP/IN/11 Issue no-0 dated 20-09-2018	1 to 10000 mg/kg
	Milk & Dairy Products	Reichert value	IS548 (Part 1)- 1964/FSSAI Manual (Milk & Milk Products), 2016, Clause 13.5	0.1 to 30.0 g/100g.
	Milk & Dairy Products	NaCl (salt)	IS 1479 (Part 2)- 1961/ISO 1738- 2004/FSSAI Manual (Milk & Milk Products), 2016, Clause 12.4	0.1 to 20.0 g/100g.
	Milk & Dairy Products	SNF	AOAC 20th edition.990.21-2016/ FSSAI Manual (Milk & Milk Products), 2016, Clause 1.2/IS 12299-1998	0.1 to 30.0 g/100g.
	Milk & Dairy Products	Sodium	MXNS/BLR/SOP/IN/11 Issue no-0 dated 20-09-2018	1 to 100000 mg/kg
	Milk & Dairy Products	Sodium	MXNS/BLR/SOP/IN/11 Issue no-0 dated 20-09-2018	1 to 100000 mg/kg
	Milk & Dairy Products	Solubility	FSSAI Manual (Milk & Milk Products), 2016, Clause 10.11	0.5 to 99.99 g/100g.
	Milk & Dairy Products	Solubility Index	FSSAI Manual (Milk & Milk Products), 2016, Clause 10.10/IS12759- 1989	0.02ml to 2 ml
	Milk & Dairy Products	Titrateable acidity	IS11766- 1986/IS 1165Annex B- 2002	0.1 to 3.0g/100g.
	Milk & Dairy	Total Solids	FSSAI Manual (Milk & Milk	0.1 to 30.0 g/100g.

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	Products		Products), 2016, Clause-1.3.3/IS 1479(Part 2)- 1961	
	Milk & Dairy Products	Urea in Milk and Milk products	FSSAI Manual (Milk & Milk Products), 2016, Clause 1.2.4 9	Qualitative
	Milk & Dairy Products	Weight/Volume	FSSAI Manual (Milk & Milk Products), 2016, Clause 7.3/IS 2802-1964	100 to 700 g/L.
	Milk & Dairy Products	Aflatoxin M1	MXNS/BLR/SOP/ IN/05 Issue-00 dated 29-11-2017	0.5 to 100 mcg/Kg
	Nut & Nut Products	Description: -Appearance -colour - texture	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Nut & Nut Products	Moisture	IS 3579- 1966/FSSAI Manual (Fruits & Vegetable Products), 2016, Clause 20.1	0.2to30.0 g/100g.
	Nut & Nut Products	Oil Content (On dry basis)	IS 3579- 1966	0.1 at 99.9 g/100g
	Nut & Nut Products	Acid Insoluble Ash	IS 4684- 1975	0.01 to 5.0 g/100g
	Nut & Nut Products	Ash	IS 4684- 1975	0.05 to 30.0 g/100g
	Nut & Nut Products	Count Overall per ounce	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Nut & Nut Products	Crude Fibre	IS 4684-1975	0.05 to 30.0 g/100g
	Nut & Nut Products	Damaged Kernels	IS 3579- 1966/ MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Nut & Nut Products	Fat /oil	IS 3579-1966/IS 4684-1975	0.1 at 99.9 g/100g
	Nut & Nut	Foreign Matter (Living	MXNS/BLR/SOP/FC/02,	Qualitative

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	Products	insects, mold, dead insects, insect fragments and rodent contamination, sand, grit, stalks, peels, stems)	Issue no-00 dated 20-09-2018	
	Nut & Nut Products	Sugar	MXNS/BLR/SOP/IN/26 Issue no-0 dated 25-01-2019	0.5 to 50 %
	Nut & Nut Products	Melamine	MXNS/BLR/SOP/IN/06 Issue no-01 dated 03-02-2018	1 to 100 mcg/kg
	Nut & Nut Products	Unopened Shells (m/m)	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Nut & Nut Products	Empty Shells (m/m)	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Nut & Nut Products	mustiness/rancidity	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Nut & Nut Products	Blemished / Damaged Units	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Nut & Nut Products	Extraneous matter	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Nut & Nut Products	Acidity of extracted fat expressed as oleic Acid	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	0.01 to 20.0 g/100g
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Description: -Appearance -colour - texture	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Cereals, Seeds & Related Products	Total Ash	IS1155- 1968/ IS 1009-1979/ FSSAI Manual	0.01 to 20.0 g/100g

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	-Food Grains, Pulses, Cereals,		(Cereals and Cereals Products), 2016, Clause 8.2 and Clause 1.3	
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Acid Insoluble Ash	IS1009Appendix C -1979 Reaff 2005	0.1 to 2 g per100 g
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Acid value of extracted fat	IS 4333 (Part 1)- 1996/ MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	0.1to5.0g/100g
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Acidity	IS 2802-1994/IS 4706 (Part 2)- 1978	0.03 to1 g/100g
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Acidity of Extracted Fat	IS 4684- 1975/IS 548 (Part 1)-1964/ FSSAI Manual (Cereals and Cereals Products), 2016, Clause 14.5	0.01 to 20.0 g/100g
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Added colours, rancidity and flavouring agents.	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Added starch	FSSAI Manual (Cereals and Cereals Products), 2016, Clause 13.0	Qualitative
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Admixture	IS 4333 (Part 1)- 1996/ MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Cereals, Seeds & Related Products	Admixture (Unwholesome)	FSSAI Manual (Cereals and Cereals Products),	Qualitative

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	-Food Grains, Pulses, Cereals,	substances)	2016, Clause 1.0/ IS2813-1995	
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Alcoholic acidity	IS 1155- 1968/IS 1009-1979 /FSSAI Manual (Cereals and Cereals Products), 2016, Clause 8.5	0.1to5.0g/100g
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Carbohydrate	MXNS/BLR/WIS/FC/01, Issue no-01 dated 20-09-2018	1.0 to 99.90 g/100g
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Cocoa powder	FSSAI Manual (Cereals and Cereals Products), 2016, Clause 17.2	0.5 to 20 g/100g
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Crude Fibre	IS 1155- 1968/IS 10226(Part 1)-1982	0.1to30.0g/100g
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Damaged grains	IS4333 (Part 1)- 1996/ IS3579- 1966 / MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	0.01 to 20 g/100g
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Discoloured grains	IS4333 (Part 1)- 1996/ MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018/IS3579- 1966	0.01 to 20 g/100g
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Extraneous matter	IS 4333 (Part 1)- 1996/ IS 3579- 1966	0.01 to 20 g/100g
	Cereals, Seeds & Related Products	Fat	AOAC -20th edition, 2016, 996.06 /IS 4684- 1975 /IS	0.10 to30g/100g

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	-Food Grains, Pulses, Cereals,		3579- 1966	
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Foreign Matter	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Foreign matter, other edible grains and damaged grains	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018/ FSSAI Manual (Cereals and Cereals Products), 2016, Clause 1.0	Qualitative
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Free from Insects, fungus, rodent hair and excreta	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Gluten Content	IS 1155- 1968/IS 1009-1979/FSSAI Manual (Cereals and Cereals Products), 2016, Clause 8.4	1.0 to30g/100g
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Impurities(dirt, insects' larvae, Insect fragents, Insects, fungus, rodent hair, excreta, Argemone, Mexicana and Kesari)	IS1485- 1993/ MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018/ IS1484-1974/IS4684- 1975	Qualitative
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Insect damaged grains	IS 4333 (Part 1)- 1996/ IS 3579-1966/MXNS/BLR/SOP/FC/02, Issue no-01 dated 01-09-2018	Qualitative
	Cereals, Seeds &	Insect Fragents	FSSAI Manuals (Cereals	Qualitative

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	Related Products -Food Grains, Pulses, Cereals,		and Cereals Products), 2016, Clause 1.2/ IS 13662- 1993/ USP 32- 2009	
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Insoluble Dietary Fibre	IS 11062-1984	0.1 to70.0 g/100g
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Kesari Dal	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09- 2018	Qualitative
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Lactose	MXNS/BLR/SOP/IN/26 Issue no-0 dated 25-01- 2019	0.5 to 50 %
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Moisture	IS 1155- 1968 /IS 1009- 1979/IS 3579- 1966/FSSAI Manual (Cereals and Cereals Products), 2016, Clause 2.0,	0.1 to30.0 g/100g
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Odour	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09- 2018	Qualitative
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Oil Content /Fat	IS 3579- 1966/AOAC20th edition 922.06- 2016 /IS 4684-1975	0.05to50.0 g/100g
	Cereals, Seeds & Related Products - Food Grains, Pulses, Cereals,	Other food grains	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09- 2018	Qualitative
	Cereals, Seeds & Related Products -	pH	IS 2860-1964/ IS 4706- 1978 (Part 2)	1 to 14 g/100g

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	Food Grains, Pulses, Cereals,			
	Cereals, Seeds & Related Products - Food Grains, Pulses, Cereals,	Protein	IS 7219-1973 Reaff 2015/FSSAI Manual (Cereal and cereal product), 2016, Clause 8.7	0.05 to 20 g/100g
	Cereals, Seeds & Related Products - Food Grains, Pulses, Cereals,	Rancidity	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Cereals, Seeds & Related Products - Food Grains, Pulses, Cereals,	Shrivelled	IS 4333 (Part 1)- 2018/ IS 3579-1966 Reaff 2015	0.01to 20 g/100g
	Cereals, Seeds & Related Products - Food Grains, Pulses, Cereals,	Shrunken	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Cereals, Seeds & Related Products - Food Grains, Pulses, Cereals,	Broken	IS 4333 (Part 1)- 2018 / IS 3579-1966 Reaff 2015	0.01to 20 g/100g
	Cereals, Seeds & Related Products - Food Grains, Pulses, Cereals,	Solubility	FSSAI Manual (Cereal and cereal product), 2016, Clause 17.0	0.5 to 99.99 g/100g
	Cereals, Seeds & Related Products - Food Grains, Pulses, Cereals,	Soluble Dietary Fibre	IS 11062-1984	0.1 to70.0 g/100g
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Starch	IS 4706 (Part 2)- 1978 Reaff 2015	1.0 to 99.99 g/100g
	Cereals, Seeds &	Total Ash excluding	FSSAI Manual (Cereal and	0.05 to 30 g/100g

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	Related Products -Food Grains, Pulses, Cereals,	Salt	cereal product), 2016, Clause 16.2	
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Uric acid	IS 4333- 1970/FSSAI Manual (Cereal and cereal product), 2016,Clause 3	1.0 to 40mg /kg
	Cereals, Seeds & Related Products -Food Grains, Pulses, Cereals,	Weevilled grain	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09- 2018/IS2813- 1995/FSSAI Manual (Cereal and cereal product), 2016,Clause1.0	Qualitative
	Fruit & Vegetable (Raw And Processed)	Description: -Appearance -colour - texture	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09- 2018	Qualitative
	Fruit & Vegetable (Raw And Processed)	Acid Insoluble Ash	IS 13846- 2009/IS 3500- 1966	0.01 to 10 g/100g
	Fruit & Vegetable (Raw And Processed)	Acid Insoluble Ash	FSSAI Manual (Fruit and Vegetable Products), 2016, clause 5.3, 7.2 and 17.4.	0.01 to 10 g/100g
	Fruit & Vegetable (Raw And Processed)	Extraneous matter	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09- 2018	Qualitative
	Fruit & Vegetable (Raw And Processed)	Acidity of extracted fat	IS548 (Part 1)- 1964/ IS 966- 1999	0.01 to 10 g/100g
	Fruit & Vegetable (Raw And Processed)	Added Sugar	FSSAI Manual (Fruit and Vegetable Products), 2016, clause 2.6	1.0 to90 g/100g
	Fruit & Vegetable (Raw And Processed)	Brix	IS 13815- 2010/FSSAI Manual (Fruit and Vegetable Products), 2016,	1.0 to 90 g/100g

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			clause 1.6	
	Fruit & Vegetable (Raw And Processed)	Carbohydrates	MXNS/BLR/WIS/FC/01, Issue no-01 dated 20-09-2018	0.20 to 99 g/100g
	Fruit & Vegetable (Raw And Processed)	Chloride (as Cl)	FSSAI (Fruit and Vegetable Products), 2016, Clause 1.7	0.05 to 99 g/100g
	Fruit & Vegetable (Raw And Processed)	Crude Fibre	IS 10226 (Part 1)-1982	0.10 to 40 g/100g
	Fruit & Vegetable (Raw And Processed)	Drained weight	IS 2860- 1964/ FSSAI Manual (Fruit and Vegetable Products), 2016, Clause 1.3	1.0 to 900g
	Fruit & Vegetable (Raw And Processed)	Empty shells	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Fruit & Vegetable (Raw And Processed)	Filled quantity of Container	FSSAI Manual (Fruit and Vegetable Products), 2016, Clause 1.3	±2 to 100mm
	Fruit & Vegetable (Raw And Processed)	Foreign matter	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Fruit & Vegetable (Raw And Processed)	(Living insects, mold, dead insects, insect fragents and rodent contamination, sand, grit, stalks, peels, stems)	FSSAI Manual (Cereals & Cereals Products), 2016, Clause 1.2	Qualitative
	Fruit & Vegetable (Raw And Processed)	Free Flowing	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Fruit & Vegetable (Raw And Processed)	- Free from blemishes	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative

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	Fruit & Vegetable (Raw And Processed)	- Free from insect	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Fruit & Vegetable (Raw And Processed)	- Free from fungal infection	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Fruit & Vegetable (Raw And Processed)	Fruits and vegetable content	IS3500-1966 Reaf 1996	0.12 to 90 g/100g
	Fruit & Vegetable (Raw And Processed)	Gross Weight	FSSAI Manual (Fruit and Vegetable Products), 2016, Clause 1.1	100 to 2000 g/100g
	Fruit & Vegetable (Raw And Processed)	Hydroxymethyl furfural (HMF)	ISO 7466- 1986/IS 4941-1994	5 to 400 mg/kg
	Fruit & Vegetable (Raw And Processed)	Liquid pack	FSSAI Manual (Fruit and Vegetable Products), 2016, Clause 1.1	10 to 80 g/100g
	Fruit & Vegetable (Raw And Processed)	Moisture	FSSAI Manual (Fruit and Vegetable Products), 2016, Clause 4.1	0.12 to 99.5 g/100g
	Fruit & Vegetable (Raw And Processed)	Net Weight	FSSAI Manual (Fruit and Vegetable Products), 2016, Clause 1.4	1.0 to30g/100g
	Fruit & Vegetable (Raw And Processed)	Non edible seeds	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Fruit & Vegetable (Raw And Processed)	Determination of fat	IS3579-1966/FSSAI Manual 4, 2015	0.01to30g/100g
	Fruit & Vegetable (Raw And Processed)	Peel in suspension	IS5861-1993/ MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative

Vinay Kumar Tyagi
Convener

Mallika Gope
Program Manager

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	Fruit & Vegetable (Raw And Processed)	Peroxidase Test	FSSAI Manual (Fruit and Vegetable Products), 2016, Clause 17.5	Qualitative
	Fruit & Vegetable (Raw And Processed)	pH	ISO1842 (E)- 1991/ FSSAI Manual (Fruit and Vegetable Products), 2016, 2.3/IS 2860- 1964/IS12711-1989/ IS 4706 (Part 2)- 1978/ IS 1483- 1988	1 to 14
	Fruit & Vegetable (Raw And Processed)	Reducing Sugar	FSSAI Manual (Fruit and Vegetable Products), 2016, Clause 2.6	1.0at 80g/100g
	Fruit & Vegetable (Raw And Processed)	Salt as NaCl	FSSAI Manual (Fruit and Vegetable Products), 2016, Clause 1.7	0.1at 30g/100g
	Fruit & Vegetable (Raw And Processed)	Solid pack	FSSAI Manual (Fruit and Vegetable Products), 2016, Clause 1.3	0.52 at 99g/100g
	Fruit & Vegetable (Raw And Processed)	Starch (m/m)	IS 4706 (Part 2)- 1978	0.10 at 99g/100g
	Fruit & Vegetable (Raw And Processed)	Sugared raisins	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Fruit & Vegetable (Raw And Processed)	Sugars	FSSAI Manual (Fruit and Vegetable Products), 2016, Clause 2.6/ FSSAI Manual 4, 2015 Clause14.7	1.0 at 80g/100g
	Fruit & Vegetable (Raw And Processed)	Total Ash	IS 13846- 2009/ IS 3500-1966/ FSSAI Manual (Fruit and Vegetable Products), 2016, Clause 11.3,14.4,17.3	0.05 at 10g/100g
	Fruit & Vegetable (Raw And Processed)	Total Solids / Dry Matter Content	IS 5781- 1993/ FSSAI Manual (Fruit and	0.05 at 10g/100g

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	Processed)		Vegetable Products), 2016, Clause 2.1	
	Fruit & Vegetable (Raw And Processed)	Total Soluble Solids	IS 13815- 2010/ IS 2860-1964/ FSSAI Manual (Fruit and Vegetable Products), 2016, Clause 1.6	0.05 at 80g/100g
	Fruit & Vegetable (Raw And Processed)	Total Sugars as invert sugar	FSSAI Manual (Fruit and Vegetable Products), 2016, Clause 2.6	1.0at 80g/100g
	Fruit & Vegetable (Raw And Processed)	Unopened shells	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Fruit & Vegetable (Raw And Processed)	Water Insoluble Solids	IS 13845- 2003 /FSSAI Manual (Fruit and Vegetable Products), 2016, Clause 2.1.2	0.05 at 20g/100g
	Snacks and ready to eat foods	Description	IS 15271-2003	Qualitative
	Snacks and ready to eat foods	Moisture	IS 12711- 1989/ IS 15271-2003/FSSAI (Fresh fruit & Vegetables), 2016/FSSAI (Cereal & Cereal products), 2016, Clause 16.1/IS 2639-1999	0.1to80g/100g
	Snacks and ready to eat foods	Total Ash	IS 12711- 1989 /IS 1164-1986/ IS 13854-1994/FSSAIManual 4, 2015, Clause1.3,4.4,5	0.1to30g/100g
	Snacks and ready to eat foods	Fat	IS 12711- 1989/ IS15271-2003	0.1to99.90g/100g
	Snacks and ready to eat foods	Acid Insoluble Ash	IS 1164- 1986/ IS13857-1993/FSSAIManual 4, 2015, Clause1.5,4.5 & 5.5	0.01to20.0g/100g
	Snacks and ready to eat foods	Acid value of extracted fat	IS 4333 (Part 1)- 1996/ MXNS/BLR/SOP/FC/02,	0.01 to 10 g/100g

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			Issue no-00 dated 20-09-2018	
	Snacks and ready to eat foods	Crude Fibre	IS 12711- 1989/IS 1158-1973	0.01 to 10 g/100g
	Snacks and ready to eat foods	Total Sugar	FSSAI Manual 4, 2015, clause 6.4	2 to 90g/100g
	Snacks and ready to eat foods	Foreign matter	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Snacks and ready to eat foods	Sugar	MXNS/BLR/SOP/IN/26 Issue no-0 dated 25-01-2019	0.5 to 50 %
	Snacks and ready to eat foods	Added Sugar (As Sucrose)	MXNS/BLR/SOP/IN/26 Issue no-0 dated 25-01-2019SOP	0.5 to 50 %
	Snacks and ready to eat foods	Alcoholic acidity	IS 1158- 1973/ FSSAI Manual (Cereals & Cereals products), 2016, Clause 16.3	0.1to5.0g/100g
	Snacks and ready to eat foods	Melamine	MXNS/BLR/SOP/IN/06 Issue no-01 dated 03-02-2018	1 to 100 mcg/kg
	Snacks and ready to eat foods	Acid Value	IS 548 (Part 1)- 1964/ IS15271- 2003	0.01to 20
	Snacks and ready to eat foods	Free Fatty Acid	IS15271- 2003/IS548 (part 1)- 1964	0.02 to 20
	Snacks and ready to eat foods	Total Nitrogen	IS 7219-1973	0.2 to 10 g /100g
	Edible Oil &Fats	Description: -Appearance -colour - texture	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Edible Oil &Fats	Moisture	IS 548(part 1)- 1964/FSSAI Manual (Oil, Fat), 2016, clause 3.0	0.005 to30g/100g

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	Edible Oil &Fats	Moisture & Volatile matter	IS 548(part 1)- 1964/FSSAI Manual (Oil, Fat), 2016, clause3.0	0.005 to30g/100g
	Edible Oil &Fats	Acid value	IS 548(part 1)- 1964/FSSAI Manual (Oil, Fat), 2016	0.005 to30
	Edible Oil &Fats	Argemone Oil Test	IS 548 (Part2)- 1976/ FSSAI Manual (Oil, Fat), 2016, Clause 30.0	Qualitative
	Edible Oil &Fats	Baudouin Test/sesame oil	FSSAI Manual (Oil, Fat), 2016, Clause 15.0	Qualitative
	Edible Oil &Fats	Beilliers Turbidity Temperature	FSSAI Manual (Oil, Fat), 2016, Clause 14.0	1.0 to 30.0 degree c
	Edible Oil &Fats	Butyro - refractometer reading at 40°C	IS 548(part 1)- 1964/FSSAI Manual (Oil, Fat), 2016	35.0 to 50.0
	Edible Oil &Fats	Reichert Meissl Value	IS 548(part 1)- 1964/FSSAI Manual (Oil, Fat), 2016	0.1 to 40
	Edible Oil &Fats	Castor oil	FSSAI Manual (Oil, Fat), 2016, Clause 29.0	Qualitative
	Edible Oil &Fats	Cold Test	FSSAI Manual (Oil, Fat), 2016, Clause 23.0	Qualitative
	Edible Oil &Fats	Cloud Point	FSSAI Manual (Oil, Fat), 2016, Clause 17.0	0.005 to30 degree c
	Edible Oil &Fats	Halphen Test	FSSAI Manual (Oil, Fat), 2016, Clause 16.0	Qualitative
	Edible Oil &Fats	Detection of Adulterants	IS 548 (Part 2)- 1976	Qualitative
	Edible Oil &Fats	Foreign Matter	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Edible Oil &Fats	Free Fatty Acid	IS 548(part 1)- 1964/FSSAI Manual (Oil, Fat), 2016, Clause 11	0.01 to20g/100g
	Edible Oil &Fats	Iodine Value	IS 548(part 1)- 1964/FSSAI Manual (Oil, Fat), 2016, clause 12.0	5 to 300

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	Edible Oil &Fats	Melting Point	FSSAI Manual (Oil, Fat), 2016, clause 8.0	5 to 40
	Edible Oil &Fats	Mineral Oil (Hold 's test)	FSSAI Manual (Oil, Fat), 2016, clause 17.0	Qualitative
	Edible Oil &Fats	Monounsaturated Fatty Acids (MUFA)	AOAC 996.01/996.06 -20th edition, 2016	0.1g to 100g /100g
	Edible Oil &Fats	Peroxide Value	IS 548(part 1)- 1964/FSSAI Manual (Oil, Fat), 2016	0.1 to 30 meq/kg
	Edible Oil &Fats	Polenske value	IS 548(part 1)- 1964/FSSAI Manual (Oil, Fat), 2016	0.2 to 30
	Edible Oil &Fats	Polyunsaturated Fatty Acids (PUFA)	AOAC 996.01/996.06 -20th edition, 2016	0.1g to 100g /100g
	Edible Oil &Fats	Rancidity	FSSAI Manual (Oil, Fat), 2016, clause 38.0	Qualitative
	Edible Oil &Fats	Refractive index at 40°C	IS 548(part 1)- 1964/FSSAI Manual (Oil, Fat), 2016, clause 9.0	0.500000 to 2.0000
	Edible Oil &Fats	Residue in Olive Oil	FSSAI Manual (Oil, Fat), 2016, Clause 25.0	Qualitative
	Edible Oil &Fats	Ricebran oil	FSSAI Manual (Oil, Fat), 2016, Clause 18.0	Qualitative
	Edible Oil &Fats	Saponification Value	IS 548(part 1)- 1964/FSSAI Manual (Oil, Fat), 2016, clause 9.0	5 to 400
	Edible Oil &Fats	Saturated Fat	AOAC 996.01/996.06 -20th edition, 2016	0.1g/100g
	Edible Oil &Fats	Sesame seed oil test	FSSAI Manual (Oil, Fat), 2016, Clause 15.0	Qualitative
	Edible Oil &Fats	Sesame(til) oil / Cloud point	FSSAI Manual (Oil, Fat), 2016, Clause 17.0/ IS 548(part 1)- 1964	Qualitative
	Edible Oil &Fats	Specific Gravity	IS 548(part 1)- 1964/FSSAI Manual (Oil, Fat), 2016, Clause 4.0	0.5000 to 1.5000

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	Edible Oil &Fats	Unsaponifiable Matter	IS 548(part 1)- 1964/FSSAI Manual (Oil, Fat), 2016	0.05 to 10 g/100g
	Honey & Honey Products	Specific gravity	IS 4941- 1994	1.000 to 1.500
	Honey & Honey Products	Aniline Chloride test	FSSAI Manual 4, 2015, Clause 6.6.2	Qualitative
	Honey & Honey Products	Carbohydrates	AOAC 986.25-20 th edition, 2016/ MXNS/BLR/WIS/FC/01 issue- 01 dated 20-09-2018	0.5 to 90 g/100g
	Honey & Honey Products	Colour	IS 4941- 1994	Qualitative
	Honey & Honey Products	extraneous matter	IS 4941- 1994/FSSAI Manual 4, 2015, Clause6.4.4	0.01 to 10 g/100g
	Honey & Honey Products	Fiehes Test (Qualitative (Present/Absent))	IS 4941- 1994/ FSSAI manual 4, 2015, Clauses 6.6.1	Qualitative
	Honey & Honey Products	Foreign matter	IS 4941- 1994	Qualitative
	Honey & Honey Products	Fructose Glucose Ratio	IS 4941Annex C -1994	0.5 to 1.5
	Honey & Honey Products	Hydroxymethyl furfural (HMF)	IS 4941Appendix F -1994	10 to 400 mg/kg
	Honey & Honey Products	Insoluble Dietary Fibre	IS 11062-1984	0.1 to 70 g per100 g
	Honey & Honey Products	Moisture	IS1009Appendix A -1979 RA 2005	0.1 to 15 g per100 g
	Honey & Honey Products	Sucrose	IS 4941- 1994/FSSAI Manual 4, 2015, Clause 6.4.4	0.3 to 85g per100 g
	Honey & Honey Products	Total Reducing Sugar	IS 4941Annex C -1994	25 to 85 g per100 g
	Sugar & Sugar	Description:	MXNS/BLR/SOP/FC/02,	Qualitative

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	Products	-Appearance -colour - texture	Issue no-00 dated 20-09-2018	
	Sugar & Sugar Products	Foreign matter (dirt, filth, iron filling and added colouring matter)	IS 4941- 1994/IS5982-2003/FSSAI Manual4, 2015	Qualitative
	Sugar & Sugar Products	Foreign matter(Living insects, mould, dead insects, insect fragents and rodent contamination, sand, grit, stalks, peels, stems)	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018/FSSAI Manual 4, 2015, Clause 1.1	Qualitative
	Sugar & Sugar Products	Test for sulphur di oxide	IS 15279-2003	1.0 to 30.0 mg/kg
	Sugar & Sugar Products	Acid insoluble Ash	IS 12923- 2013	0.01 to 10 g/100g
	Sugar & Sugar Products	Conductivity	FSSAI Manual 4, 2015, Clause 7.6	0.1mho/cm2 to 200mho/cm2
	Sugar & Sugar Products	Moisture	IS 15279-2003	0.01 to 10 g/100g
	Sugar & Sugar Products	Sucrose	IS 15279-2003	0.1 to99.99g/100g
	Sugar & Sugar Products	Calcium oxide	FSSAI Manual 4, 2015, Clause 7.7	0.1 g to 900mg/100g
	Sugar & Sugar Products	Total Sugar	FSSAI Manual 4, 2015, Clause 8.2	0.1 to99.99g/100g
	Sugar & Sugar Products	Sulphated ash	IS 15279-2003	0.1 to 2.0 g/100g
	Herbs, Spices& Condiments	Description: -Appearance -colour - texture	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative

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	Herbs, Spices & Condiments	Foreign seeds (edible seeds, vegetable matter, Argemone, Maxicana L seeds)	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Herbs, Spices & Condiments	Foreign matter	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018/ FSSAI Manual (Spices and Condiments), 2016, Clause 2.0	Qualitative
	Herbs, Spices & Condiments	(Living insects, mould, dead insects, insect fragents and rodent contamination, sand, grit, stalks, peels, stems etc)	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018/ FSSAI Manual (Spices and Condiments), 2016, Clause 2.1	Qualitative
	Herbs, Spices & Condiments	Moisture	IS 1797- 2017/FSSAI Manual (Spices and Condiments), 2016, Clause 3.0 / 3.5.3	0.50 to 30 g/100g
	Herbs, Spices & Condiments	Non-volatile ether extract	IS 1797- 2017/FSSAI Manual (Spices and Condiments), 2016, Clause 9.0	0.50 to 30 g/100g
	Herbs, Spices & Condiments	Moisture & volatile matter	IS 5453 (Part 1)- 1996/FSSAI Manual (Spices and Condiments), 2016, Clause 15.4	0.05 to 30 g/100g
	Herbs, Spices & Condiments	Protein	IS 7219- 1973	0.1 to 40 g/100g
	Herbs, Spices & Condiments	Total Ash	IS 1797- 2017/IS 5453 (Part 2)- 1996	0.05 to 30.0g/100g
	Herbs, Spices & Condiments	Water insoluble ash	IS 1797- 2017	0.52 to 10 g/100g.
	Herbs, Spices & Condiments	Total Nitrogen	IS 5453 (Part 1)- 1996/ FSSAI Manual (Spices and	0.05 to 30 g/100g

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			Condiments), 2016, Clause 15.7	
	Herbs, Spices & Condiments	Total Sugars as invert sugar	FSSAI Manual 4, 2015	25 to 85 g per 100 g
	Herbs, Spices & Condiments	Unripe & marked fruits	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Herbs, Spices & Condiments	Volatile Oil	IS 1797- 2017/FSSAI Manual (Spices and Condiments), 2016, Clause 10.0	0.05 to 30 g/100g
	Herbs, Spices & Condiments	Empty & malformed capsules by count	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Herbs, Spices & Condiments	Acid Insoluble Ash	IS 1797- 2017/ IS 5453 (Part 2)- 1996/FSSAI Manual (Spices and Condiments), 2016, Clause 5.0	0.05 to 40.0 g/100g.
	Herbs, Spices & Condiments	Acidity	IS 13844- 2003	0.1 to 5.0 g/100g
	Herbs, Spices & Condiments	Acidity of Extracted Fat	IS 548 (Part 1)- 1964	0.1 to 5.0 g/100g
	Herbs, Spices & Condiments	Alcohol soluble extract	IS 1797- 2017/FSSAI Manual (Spices and Condiments), 2016, Clause 7.0	5.0 to 150 g/100g
	Herbs, Spices & Condiments	Alcoholic Extract (with 90 per cent alcohol)	IS 7807- 1975	5.0 to 150 g/100g
	Herbs, Spices & Condiments	Any other foreign resin	IS 7807- 1975/ MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Herbs, Spices & Condiments	Any other foreign resin	FSSAI Manual (Spices and Condiments), 2016, Clause	Qualitative

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			17.4.2	
	Herbs, Spices & Condiments	Bitterness, expressed as direct reading of the absorbance of picrocrocin at 257 nm, on dry basis	FSSAI Manual (Spices and Condiments), 2016, Clause 15.6	5.0 to 150 g/100g
	Herbs, Spices & Condiments	Black and Broken berries	IS 1798- 2010/ MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Herbs, Spices & Condiments	Broken fruits, seed & fragments	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Herbs, Spices & Condiments	Bulk Density	FSSAI Manual (Spices and Condiments), 2016, Clause 14.1	300 to 700g/litre
	Herbs, Spices & Condiments	Calcium as calcium oxide	FSSAI Manual (Spices and Condiments), 2016, Clause 8.0	0.1 g to 900mg/100g
	Herbs, Spices & Condiments	Carbohydrates	AOAC 986.25-20th edition, 2016	0.05 to 90 g/100g
	Herbs, Spices & Condiments	Cold water soluble extract	IS 1797- 2017/ FSSAI Manual (Spices and Condiments), 2016, Clause 6.0	0.50 to 70 g/100g
	Herbs, Spices & Condiments	Colouring strength, expressed as reading of the absorbance of crocin at 440 nm on dry basis	IS 5453 (Part 2)- 1996/ FSSAI Manual (Spices and Condiments), 2016, Clause 15.6	5.0 to 300 g/100g
	Herbs, Spices & Condiments	Crude fiber	IS 1797- 2017/ ASTA 7.0, 4th edition- 1997 / FSSAI Manual (Spices and Condiments), 2016, Clause 11.0	0.10 to 50 g/100g
	Herbs, Spices &	Defective Rhizomes	MXNS/BLR/SOP/FC/02,	Qualitative

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	Condiments		Issue no-00 dated 20-09-2018	
	Herbs, Spices & Condiments	Defective, Damaged and Discolored seeds	FSSAI Manual (Spices and Condiments), 2016, Clause 2.0/ MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	NA
	Herbs, Spices & Condiments	Energy from Fat	MXNS/BLR/WIS/FC/01, Issue no-01 dated 20-09-2018	5k cal/100g to 950k cal/100g/100g to
	Herbs, Spices & Condiments	Extraneous matter	IS 1797- 2017/FSSAI Manual (Spices and Condiments), 2016, Clause 2	0.01 to 10.0 g/100g
	Herbs, Spices & Condiments	Fat	IS 1797- 2017	0.50 to 30 g/100g
	Herbs, Spices & Condiments	Floral waste	IS 5453 (Part-1)- 1996/FSSAI Manual (Spices and Condiments), 2016, Clause 15.3	0.05 to 10.0 g/100g
	Herbs, Spices & Condiments	Free from Harmful Substances	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Herbs, Spices & Condiments	Headless, Tendrils, Khokar and Mother cloves	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Herbs, Spices & Condiments	Immature & Shrivelled capsules	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Herbs, Spices & Condiments	Impurities (dirt, Stalks, peels, stems, living and dead insects, insect fragments, insect infestation, rodent contamination, mould)	IS 5453 (Part-1)- 1996/IS 1908- 2008/FSSAI Manual (Spices and Condiments), 2016, Clause 2.0/IS 1798- 2010/ IS 4452- 2009	Qualitative

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		growth)		
	Herbs, Spices & Condiments	Insect damaged seeds	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018, FSSAI (Spices and Condiments), 2016, Clause 2.0	Qualitative
	Herbs, Spices & Condiments	Lead Chromate	FSSAI Manual (Spices and Condiments), 2016, Clause 16.6	Qualitative
	Herbs, Spices & Condiments	Light Seeds/Berries	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018/FSSAI Manual (Spices and Condiments), 2016, Clause 4.2	Qualitative
	Herbs, Spices & Condiments	Mineral oil	FSSAI Manual (Spices and Condiments), 2016, Clause 20.0	Qualitative
	Herbs, Spices & Condiments	Nutmeg in mace	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Herbs, Spices & Condiments	Safranal, expressed as direct reading of the absorbance at 330nm	IS 5453 (Part 2)- 1996/ FSSAI Manual (Spices and Condiments), 2016, Clause 15.6	5.0 to 300 g/100g
	Herbs, Spices & Condiments	Salt	IS 1797- 2017	0.05 to 20.0 g/100g
	Herbs, Spices & Condiments	Scorched, toasted & baked Particles	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Herbs, Spices & Condiments	Seed coatings	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Herbs, Spices & Condiments	Sieve Analysis	IS 4706 (Part 1)-1978	0.1 to 99.99 g/100g
	Herbs, Spices &	Solubility in cold water	IS 1797- 2017/ FSSAI	0.50 to 70 g/100g

Vinay Kumar Tyagi
Convener

Mallika Gope
Program Manager

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	Condiments		Manual (Spices and Condiments), 2016, Clause 6.0	
	Herbs, Spices & Condiments	Split fruits	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Herbs, Spices & Condiments	Starch	FSSAI Manual (Spices and Condiments), 2016, Clause 16.5	3.0 at 70g/100g
	Beverages (Alcoholic / Non Alcoholic)			
	Non Alcoholic (Soft drink Carbonated and Non-Carbonated)	pH	FSSAI Manual (Fruits & Vegetable Products), 2016, clause 2.3	1 to 14
	Non Alcoholic (Soft drink Carbonated and Non-Carbonated)	Total Soluble Solids	IS 13815- 2010/FSSAI Manual (Fruits & Vegetable Products), 2016, Clause 15.1	0.05 at 80g/100g
	Non Alcoholic (Soft drink Carbonated and Non-Carbonated)	Total Sugar	FSSAI Manual (Fruits & Vegetable Products), 2016, Clause 2.6/FSSAI Manual 4, 2015 Clause 6.4	1.0 at 80g/100g
	Non Alcoholic (Soft drink Carbonated and Non-Carbonated)	Caffeine	IS 3077 Annex L - 1992/IS16028-2012	0.5 to 5.0 g per 100 g
	Alcoholic drinks & Beverages (Wine, Spirit, Rum, Vodka)	Reducing residual sugar	IS 7585- 1995/ FSSAI Manual 4, 2015, Clause 6.4.1	2.0 to 5g/litre
	Alcoholic drinks & Beverages	pH	IS 7585- 1995	1 to 14

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	(Wine,Spirit,Rum, Vodka)			
	Alcoholic drinks & Beverages (Wine,Spirit,Rum, Vodka)	Total Sulphur Dioxide	IS 7585- 1995	10.0 to400g/Litre.
	Alcoholic drinks & Beverages (Wine,Spirit,Rum, Vodka)	Free Sulphur Dioxide	IS 7585- 1995	0.04 to250g/Litre.
	Alcoholic drinks & Beverages (Wine,Spirit,Rum, Vodka)	Energy from Fat	MXNS/BLR/WIS/FC/01, Issue no-01 dated 20-09-2018	
	Alcoholic drinks & Beverages (Wine,Spirit,Rum, Vodka)	Esters	IS 3752-2005	0.5 to 100g/Litre.
	Alcoholic drinks & Beverages (Wine,Spirit,Rum, Vodka)	Ethyl Alcohol	IS 3752-2005	2.0 to 50g/100ml.
	Alcoholic drinks & Beverages (Wine,Spirit,Rum, Vodka)	Extracts	IS 7585- 1995	0.04 to250g/Litre.
	Alcoholic drinks & Beverages (Wine,Spirit,Rum, Vodka)	Flavour	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Alcoholic drinks & Beverages (Wine,Spirit,Rum, Vodka)	Foreign matter	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
	Alcoholic drinks	Furfural	IS 3752-2005	0.1 to 15 g/100L

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	& Beverages (Wine, Spirit, Rum, Vodka)			
	Alcoholic drinks & Beverages (Wine, Spirit, Rum, Vodka)	Higher Alcohols	IS 3752-2005	0.5 to 20g/Litre.
	Alcoholic drinks & Beverages (Wine, Spirit, Rum, Vodka)	Reducing Sugar	IS 7585- 1995	2.0 to 5g/litre
	Alcoholic drinks & Beverages (Wine, Spirit, Rum, Vodka)	Residue on evaporation	AOAC -20th Edition 982.14, 2016/IS 3752-2005	0.02 to 10g/100g
	Alcoholic drinks & Beverages (Wine, Spirit, Rum, Vodka)	Sulphur dioxide	AOAC -20th edition 990.28, 2016/FSSAI Manual (Food Additives), 2016, Clause 1.5/FSSAI Manual (Fresh Fruits & Vegetables), 2016, Clause 17.7/IS7585-1995	10 to 300 mg/L
	Alcoholic drinks & Beverages (Wine, Spirit, Rum, Vodka)	Tannins	IS 7585- 1995	0.1 to 20 g/L
	Alcoholic drinks & Beverages (Wine, Spirit, Rum, Vodka)	Total Acidity	IS 3752-2005	0.1 to 30 g/100L
	Alcoholic drinks & Beverages (Wine, Spirit, Rum, Vodka)	Volatile Acidity (expressed as Acetic Acid)	IS 3752-2005	0.1 to 5 g/L
	Alcoholic drinks & Beverages	Aldehydes	IS3752-2005	0.1 to 2 mg/L

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	(Wine, Spirit, Rum, Vodka)			
	Tea Coffee, Cocoa Powder, Food grains, Pulses, Cereals, Bakery & Confectionery, Fruit & Vegetable products, sugar and sugar Products, Snacks, Honey & Honey Products, Nut and nut products, milk and milk products, infant food, Softdrinks, Carbonated & Non carbonated Beverages, Alcoholic drinks, Oils & Fat, Herbs, Spices & Condiments	Sodium	MXNS/BLR/SOP/IN/11 Issue no-0 dated 20-09-2018	10 to 10000 mg/kg
		Potassium	MXNS/BLR/SOP/IN/11 Issue no-0 dated 20-09-2018	1 to 10000 mg/kg
		Calcium	MXNS/BLR/SOP/IN/11 Issue no-0 dated 20-09-2018	1 to 10000 mg/kg
		Iron	MXNS/BLR/SOP/IN/11 Issue no-0 dated 20-09-2018	0.1 to 1000 mg/kg
		Magnesium	MXNS/BLR/SOP/IN/11 Issue no-0 dated 20-09-2018	1 to 10000 mg/kg
		Manganese	MXNS/BLR/SOP/IN/11 Issue no-0 dated 20-09-2018	0.1 to 1000 mg/kg
		Zinc	MXNS/BLR/SOP/IN/11 Issue no-0 dated 20-09-2018	1 to 1000 mg/kg
		pH	FSSAI Manual (Fruits & Vegetable Products), 2016, clause 2.3/IS 2860- 1964/IS 12711- 1989/ IS 4706 (Part 2)- 1978/ IS 1483- 1988	1 to 14
		Foreign Matter	MXNS/BLR/SOP/FC/02, Issue no-00 dated 20-09-2018	Qualitative
		Total Sugars as invert sugar	FSSAI Manual 4, 2015, clause 6.4/ IS: 6287 - 1985/FSSAI Manual	1.0 at 80g/100g

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			(Fruits&Vegetable Products), 2016, Clause 10.1	
		Salt as NaCl	IS 2860- 1964/ IS 2785-1979/ IS 3507- 1966/IS 1479(Part 2)- 1961	0.05 to 10 g/100g.
		Added Sugar (As Sucrose)'	MXNS/BLR/SOP/IN/26 Issue no-0 dated 25-01-2019	0.5 to 50%
		Rancidity Parameter:		
	Tea Coffee, Cocoa Powder, Food grains, Pulses, Cereals , Bakery & Confectionery, Fruit & Vegetable products, , sugar and sugar Products, Snacks, Honey & Honey Products, Nut and nut products, milk and milk products, infant food, Softdrinks , Carbonated &Non carbonated Beverages , Alcoholic drinks , Oils & Fat, Herbs ,Spices & Condiments	Alcoholic acidity	IS 1158- 1973/ FSSAI Manual (Cereals & Cereals products), 2016, Clause 16.3	0.1to5.0g/100g
		Peroxide value	IS 548 (Part 1)- 1964	0.1 to 30 meq/kg
		Acidity	IS 13844- 2003/IS11766-1986/IS 1479 (Part 1)-1960/IS 2802- 1964/FSSAI Manual (Milk & Milk Products), 2016, Clause 9.5,14.5,15.5,17.9/IS 2860-1964	0.05to20.0g/100g
		Acidity of Extracted Fat	IS 548(Part 1)-1964/FSSAI Manual 4, 2015	0.1to5.0g/100g
		Sugar profile:		
		Sucrose	MXNS/BLR/SOP/IN/26 Issue no-0 dated 25-01-2019	0.5 to 50%
		Fructose	MXNS/BLR/SOP/IN/26 Issue no-0 dated 25-01-2019	0.5 to 50%
		Glucose	MXNS/BLR/SOP/IN/26 Issue no-0 dated 25-01-2019	0.5 to 50%

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		Maltose	MXNS/BLR/SOP/IN/26 Issue no-0 dated 25-01-2019	0.5 to 50%
		Lactose	MXNS/BLR/SOP/IN/26 Issue no-0 dated 25-01-2019	0.5 to 50%
		Nutritional Analysis:		
		Carbohydrates	MXNS/BLR/WIS/FC/01 issue no- 01 dated 20-09-2018/AOAC 986.2520th edition, 2016	0.05 to 99.90 g/100g
		Crude Fibre	IS 12711- 1989/ IS1158-1973/ IS 4684-1975	0.1 to 50 g/100g
		Fat	IS 12711- 1989/ IS 15271-2003/FSSAI Manual 4, 2015/IS 4684-1975	0.1 to 99.90g/100g
		Protein	IS7219- 1973/IS 1479 (Part 2)- 1961/IS 4684-1975	0.05 to 90.0 g/100g
	Tea Coffee, Cocoa Powder, Food grains, Pulses, Cereals, Bakery & Confectionery, Fruit & Vegetable products, sugar and sugar Products, Snacks, Honey & Honey Products, Nut and nut products, milk and milk products, infant food, Softdrinks, Carbonated & Non	Energy / Calories	MXNS/BLR/WIS /FC/01 issue no- 01 dated 20-09-2018	0.2 to 900 k cal/100g
		Crude Fibre	IS12711- 1989	0.01 g to 10 g/100g
		Total Dietary Fibre	IS 11062-1984	0.1 g to 70.0 g/100g
		Soluble Dietary Fibre	IS 11062-1985	0.1 g to 70.0 g/100g
		Insoluble Dietary Fibre	IS 11062-1986	0.1 g to 70.0 g/100g
		Sugars	IS 6287- 1985/FSSAI Manual 4, 2015, Clause 10.0	4.0 g to 90.0 g/100g
		Total Sugar	FSSAI Manual 4, 2015, clause 6.4/ IS 6287-1985/FSSAI Manual (Fruits&Vegetable Products), 2016, Clause 10.1	0.5 g to 80g/100g

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	carbonated Beverages , Alcoholic drinks , Oils & Fat, Herbs ,Spices & Condiments	Fatty acid profile:		
		Monounsaturated Fatty Acids (MUFA)	AOAC 20th edition, 2016, 996.01/996.06	0.1g to 100g /100g
		Polyunsaturated Fatty Acids (PUFA)	AOAC 20th edition, 2016, 996.01/996.06	0.1g to 100g /100g
		trans Fat	AOAC 20th edition, 2016, 996.01/996.06	0.1g to 100g /100g
		Saturated Fat	AOAC 20th edition, 2016, 996.01/996.06	0.1g to 100g /100g
		Cholesterol	AOAC 20th edition, 2016, 996.01/996.06	25mg/100g to 1000mg/100g
		Omega 3 fatty acid	AOAC 20th edition, 2016, 996.01/996.06	0.1g to 100g /100g
		Omega 6 fatty acid	AOAC -20th edition, 2016, 996.01/996.06	0.1g to 100g /100g
II.	RESIDUES IN FOOD PRODUCTS			
1.	Cereal, Pulses & Oil Seeds	p,p- DDT	MXNS/BLR/SOP/IN/01, R0 dated 27.11.2017	0.025mg/kg to 0.5mg/kg
		o,p- DDT		0.025mg/kg to 0.5mg/kg
		o,p- DDE		0.025mg/kg to 0.5mg/kg
		p,p- DDE		0.025mg/kg to 0.5mg/kg
		o,p- DDD		0.025mg/kg to 0.5mg/kg
		p,p- DDD		0.025mg/kg to 0.5mg/kg
		Alpha HCH		0.025mg/kg to 0.5mg/kg
		Beta HCH		0.025mg/kg to 0.5mg/kg
		Gamma HCH		0.025mg/kg to 0.5mg/kg
		Delta HCH		0.025mg/kg to 0.5mg/kg
		Chlorpyrifos		0.025mg/kg to 0.5mg/kg
		Aldrin		0.025mg/kg to 0.5mg/kg
		Dieldrin		0.025mg/kg to 0.5mg/kg
		Cypermethrin		0.025mg/kg to 0.5mg/kg
	Deltamethrin		0.025mg/kg to 0.5mg/kg	

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		Fenvalerate		0.025mg/kg to 0.5mg/kg	
2.	Fruits & Vegetables	o,p- DDT	MXNS/BLR/SOP/IN/01, R0 dated 27.11.2017	0.025mg/kg to 0.5mg/kg	
		o,p- DDE		0.025mg/kg to 0.5mg/kg	
			o,p- DDD		0.025mg/kg to 0.5mg/kg
			p,p- DDD		0.025mg/kg to 0.5mg/kg
			Alpha HCH		0.025mg/kg to 0.5mg/kg
			Beta HCH		0.025mg/kg to 0.5mg/kg
			Chlorpyrifos		0.025mg/kg to 0.5mg/kg
			Aldrin		0.025mg/kg to 0.5mg/kg
			Dieldrin		0.025mg/kg to 0.5mg/kg
			Cypermethrin		0.025mg/kg to 0.5mg/kg
3.	Leafy Vegetables & Herbs	Deltamethrin		0.025mg/kg to 0.5mg/kg	
		p,p- DDT	MXNS/BLR/SOP/IN/01, R0 dated 27.11.2017	0.025mg/kg to 0.5mg/kg	
		o,p- DDT		0.025mg/kg to 0.5mg/kg	
			o,p- DDE		0.025mg/kg to 0.5mg/kg
			p,p- DDE		0.025mg/kg to 0.5mg/kg
			o,p- DDD		0.025mg/kg to 0.5mg/kg
			p,p- DDD		0.025mg/kg to 0.5mg/kg
			Alpha HCH		0.025mg/kg to 0.5mg/kg
			Beta HCH		0.025mg/kg to 0.5mg/kg
			Gamma HCH		0.025mg/kg to 0.5mg/kg
			Delta HCH		0.025mg/kg to 0.5mg/kg
			Chlorpyrifos		0.025mg/kg to 0.5mg/kg
			Aldrin		0.025mg/kg to 0.5mg/kg
			Dieldrin		0.025mg/kg to 0.5mg/kg
			Cypermethrin		0.025mg/kg to 0.5mg/kg
	Deltamethrin		0.025mg/kg to 0.5mg/kg		
	Fenvalerate		0.025mg/kg to 0.5mg/kg		
4.	Tea, Coffee & Cocoa	p,p- DDT	MXNS/BLR/SOP/IN/01, R0 dated 27.11.2017	0.025mg/kg to 0.5mg/kg	
		o,p- DDT		0.025mg/kg to 0.5mg/kg	

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		o,p- DDE		0.025mg/kg to 0.5mg/kg
		p,p- DDE		0.025mg/kg to 0.5mg/kg
		o,p- DDD		0.025mg/kg to 0.5mg/kg
		p,p- DDD		0.025mg/kg to 0.5mg/kg
		Alpha HCH		0.025mg/kg to 0.5mg/kg
		Beta HCH		0.025mg/kg to 0.5mg/kg
		Gamma HCH		0.025mg/kg to 0.5mg/kg
		Delta HCH		0.025mg/kg to 0.5mg/kg
		Chlorpyrifos		0.025mg/kg to 0.5mg/kg
		Aldrin		0.025mg/kg to 0.5mg/kg
		Dieldrin		0.025mg/kg to 0.5mg/kg
		Cypermethrin		0.025mg/kg to 0.5mg/kg
		Deltamethrin		0.025mg/kg to 0.5mg/kg
		Fenvalerate		0.025mg/kg to 0.5mg/kg
		Ethephon	MXNS/BLR/SOP/IN/02, R0 dated 27.11.2017	0.05g/kg to 0.5mg/kg
		Aflatoxin	MXNS/BLR/SOP/IN/03, R0 dated 28.11.2017	10µg/kg to 100µg/kg
		Mercury	FSSAI Manual 9, 2016, Pg 29 (ICP-MS)	100µg/kg to 5000µg/kg
		Copper	FSSAI Manual 9, 2016, Pg 29 (ICP-MS)	50µg/kg to 5000µg/kg
		Lead	FSSAI Manual 9, 2016, Pg 29 (ICP-MS)	100µg/kg to 5000µg/kg
		Cadmium	FSSAI Manual 9, 2016, Pg 29 (ICP-MS)	10µg/kg to 5000µg/kg
		Zinc	FSSAI Manual 9, 2016, Pg 29 (ICP-MS)	20µg/kg to 5000µg/kg
		Tin	FSSAI Manual 9, 2016, Pg 29 (ICP-MS)	100µg/kg to 5000µg/kg
		Arsenic	FSSAI Manual 9, 2016, Pg 29 (ICP-MS)	20µg/kg to 5000µg/kg

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5.	Spices & Condiments	p,p- DDT	MXNS/BLR/SOP/IN/01, R0 dated 27.11.2017	0.05mg/kg to 0.5mg/kg
		o,p- DDT		0.05mg/kg to 0.5mg/kg
		o,p- DDE		0.05mg/kg to 0.5mg/kg
		o,p- DDD		0.05mg/kg to 0.5mg/kg
		p,p- DDD		0.05mg/kg to 0.5mg/kg
		Beta HCH		0.05mg/kg to 0.5mg/kg
		Gamma HCH		0.025mg/kg to 0.5mg/kg
		Deltamethrin		0.025mg/kg to 0.5mg/kg
6.	Milk & Milk Products	Fenvalerate		0.025mg/kg to 0.5mg/kg
		p, p- DDT	MXNS/BLR/SOP/IN/04, R0 dated 28.11.2017	0.05mg/kg to 0.5mg/kg
		o, p- DDT		0.05mg/kg to 0.5mg/kg
		o, p- DDE		0.1mg/kg to 0.5mg/kg
		o, p- DDD		0.1mg/kg to 0.5mg/kg
		p, p- DDD		0.05mg/kg to 0.5mg/kg
		Gamma HCH		0.025mg/kg to 0.5mg/kg
		Aldrin		0.025mg/kg to 0.5mg/kg
Aflatoxin M1	MXNS/BLR/SOP/IN/05, R0 dated 29.11.2017	0.5µg/kg to 100µg/kg		
	Melamine	MXNS/BLR/SOP/IN/06, R0 dated 29.11.2017	25µg/kg to 1000µg/kg	
7.	Tea Coffee, Cocoa Powder, Food grains, Pulses, Cereals, Bakery & Confectionery, Fruit & Vegetable products, , sugar and sugar Products, Snacks, Honey & Honey Products, Nut and nut products, milk	Lead	MXNS/BLR/SOP/IN/11 Issue no-0 dated 20-09-2018	0.02 to 100 mg/kg
		Copper	MXNS/BLR/SOP/IN/11 Issue no-0 dated 20-09-2018	0.1 to 1000 mg/kg
		Arsenic	MXNS/BLR/SOP/IN/11 Issue no-0 dated 20-09-2018	0.05 to 100 mg/kg
		Tin	MXNS/BLR/SOP/IN/11 Issue no-0 dated 20-09-2018	1 to 1000 mg/kg

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	and milk products, infant food, Softdrinks, Carbonated & Non carbonated Beverages , Alcoholic drinks , Oils & Fat, Herbs , Spices & Condiments	Cadmium	MXNS/BLR/SOP/IN/11 Issue no-0 dated 20-09-2018	0.05 to 100 mg/kg
		Mercury	MXNS/BLR/SOP/IN/11 Issue no-0 dated 20-09-2018	0.1 to 100 mg/kg
		Methyl Mercury (calculated as element)	MXNS/BLR/SOP/FC/04 Issue no-0 dated 20-09-2018	0.01 to 5mg/kg
		Chromium	MXNS/BLR/SOP/IN/11 Issue no-0 dated 20-09-2018	0.01 to 100 mg/kg
		Nickel	MXNS/BLR/SOP/IN/11 Issue no-0 dated 20-09-2018	0.1 to 100 mg/kg
		Aflatoxin B1	MXNS/BLR/SOP/IN/03 Issue no-01 dated 03-02-2018	10 to 1000 mcg/kg
		Aflatoxin B2	MXNS/BLR/SOP/IN/03 Issue no-01 dated 03-02-2018	10 to 1000 mcg/kg
		Aflatoxin G1	Issue no-01 dated 03-02-2018	10 to 1000 mcg/kg
		Aflatoxin G2	MXNS/BLR/SOP/IN/03 Issue no-01 dated 03-02-2018	10 to 1000 mcg/kg
		Aflatoxin M1	MXNS/BLR/SOP/IN/05 Issue no-01 dated 29-11-2017	0.5 to 100 mcg/Kg
		Agaric Acid	MXNS/BLR/SOP/IN/13 Issue no-00 dated 02-01-2019	1 mg/kg to 200 mg/kg
		Hydrocyanic acid	AOAC 20th Ed 915.03, 2016/FSSAI Manual	qualitative
		Hypericine	MXNS/BLR/SOP/IN/13	1 mg/kg to 200 mg/kg

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			Issue no-00 dated 02-01-2019	
		Saffrole	MXNS/BLR/SOP/IN/13 Issue no-00 dated 02-01-2019	1 mg/kg to 200 mg/kg
		Melamine	MXNS/BLR/SOP/IN/06 Issue no-01 dated 03-02-2018	25 to 1000 mcg/kg
III.	RESIDUES IN WATER			
1.	Ground Water/ Drinking Water	Polynuclear Aromatic Hydrocarbons (PAH)	APHA 6440 B, 23 rd Edn., Pg 6-94(By GC) APHA 6440 B 23 rd Edn., Pg 6-94 (By HPLC)/ USEPA METHOD 8310, 1986 (By HPLC)	10µg/L to 100µg/L 0.1µg/L to 100µg/L
		Trihalomethanes	APHA 6232 B 23 rd Edn	0.05µg/L to 500µg/L
		a) Bromoform		
		b) Dibromochloromethane		
		c) Bromodichloromethane		
		d) Chloroform		
		PESTICIDE RESIDUES		
		1) p,p- DDT	USEPA 508,	0.025µg/L to 100µg/L
		2) o,p- DDE	USEPA 508,	0.025µg/L to 100µg/L
		3) p,p- DDE	USEPA 508,	0.025µg/L to 100µg/L
		4) o,p- DDD	USEPA 508,	0.025µg/L to 100µg/L
		5) p,p- DDD	USEPA 508,	0.025µg/L to 100µg/L
		6) Alpha HCH	USEPA 508,	0.010µg/L to 100µg/L
		7) Beta HCH	USEPA 508,	0.025µg/L to 100µg/L

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		8) Gamma HCH	USEPA 508,	0.025µg/L to 100µg/L
		9) Delta HCH	USEPA 508,	0.025µg/L to 100µg/L
		10) Alpha Endosulfan	USEPA 508,	0.025µg/L to 100µg/L
		11) Beta Endosulfan	USEPA 508,	0.025µg/L to 100µg/L
		12) Endosulfan sulphate	USEPA 508,	0.025µg/L to 100µg/L
		13) Monocrotophos	USEPA 8141 A,	0.05µg/L to 100µg/L
		14) Ethion	USEPA 8141 A, / USEPA 1657A,	0.05µg/L to 100µg/L
		15) Phorate & its analogues – Phorate Sulphoxide & Phorate Sulphone	USEPA 8141A,	0.05µg/L to 100µg/L
		16) 2,4 -D	USEPA 515.4,	0.05µg/L to 100µg/L
		17) Butachlor	USEPA 8141A / USEPA 525.2,	0.05µg/L to 100µg/L
		18) Isoproturon	USEPA 532,	0.05 µg/L to 100 µg/L
		19) Alachlor	USEPA 507,/ USEPA 508,/ USEPA 525.2,	0.05 µg/L to 100 µg/L
		20) Atrazine	USEPA 8141A,	0.05 µg/L to 100 µg/L
		21) Methyl parathion & its Analogue-Methyl Paraaxon	USEPA 8141A,	0.05 µg/L to 100 µg/L
		22) Malathion & its analogue-Malaoxon	USEPA 8141A,	0.05 µg/L to 100 µg/L
		23) Dieldrin	USEPA 508,/ USEPA 525.2,	0.025 µg/L to 100 µg/L
	Ground Water/Drinking water	PCB	IS 13428Annex M -2005 (By GC)	10 – 100 mcg/L
	Ground Water/Drinking water	PCB	USEPA METHOD 608, 2001 (By GC)	0.01 to 100 mcg/L

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	Ground Water/Drinking water	o,p- DDT	USEPA 508,1995	0.025 to 100 mcg/L
	Ground Water/Drinking water	Chlorpyrifos	USEPA 508, 1995/ USEPA 525.2, 1995	0.025 to 100 mcg/L
	Ground Water/Drinking water	Aldrin	USEPA 508, 1995/ USEPA 525.2, 1995	0.025 to 100 mcg/L
	Ground Water/Drinking water	Alpha HCH	USEPA 508, 1995/ USEPA 525.3, 2014	0.010 to 100 mcg/L
	Natural Mineral Water	Polychlorinated Biphenyl (PCB)	IS 13428Annex M -2005 (By GC)	10 – 100 mcg/L
	Natural Mineral Water		USEPA METHOD 608, 2001(By GC)	0.01 to 100 mcg/L
	Natural Mineral Water	Poylynuclear Aromatic Hydrocarbons (PAH)	APHA 6440 B, 23rd Edn.,Pg 6-94, 2017 (By GC)	10 – 100 µg/L
	Natural Mineral Water	Poylynuclear Aromatic Hydrocarbons (PAH)	APHA 6440 B, 23rd Edn.,Pg 6-94, 2017 (By HPLC) USEPA METHOD 8310,1986 (By HPLC)	0.1-100 µg/L
	Natural Mineral Water	1) p,p- DDT	USEPA 508, 1995	0.025 to 100 µg/L
	Natural Mineral Water	2) o,p- DDT	USEPA 508, 1995	0.025 to 100 µg/L
	Natural Mineral Water	3) o,p- DDE	USEPA 508, 1995	0.025 to 100 µg/L
	Natural Mineral Water	4) p,p- DDE	USEPA 508, 1995	0.025 to 100 µg/L
	Natural Mineral Water	5) o,p- DDD	USEPA 508, 1995	0.025 to 100 µg/L
	Natural Mineral	6) p,p- DDD	USEPA 508, 1995	0.025 to 100 µg/L

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	Water			
	Natural Mineral Water	7) Alpha HCH	USEPA 508, 1995	0.010 to 100 µg/L
	Natural Mineral Water	8) Beta HCH	USEPA 508, 1995	0.025 to 100 µg/L
	Natural Mineral Water	9) Gamma HCH	USEPA 508, 1995	0.025 to 100 µg/L
	Natural Mineral Water	10) Delta HCH	USEPA 508, 1995	0.025 to 100 µg/L
	Natural Mineral Water	11) Alpha Endosulfan	USEPA 508, 1995	0.025 to 100 µg/L
	Natural Mineral Water	12) Beta Endosulfan	USEPA 508, 1995	0.025 to 100 µg/L
	Natural Mineral Water	13) Endosulfan sulphate	USEPA 508, 1995	0.025 to 100 µg/L
	Natural Mineral Water			
	Natural Mineral Water	14) Monocrotophos	USEPA 8141 A, 1994	0.05 to 100 µg/L
	Natural Mineral Water	15) Ethion	USEPA 8141 A, 1994 / USEPA 1657A, 2000	0.05 to 100 µg/L
	Natural Mineral Water	16) Chlorpyrifos	USEPA 508, 1995/ USEPA 525.2, 1995	0.025 to 100 µg/L
	Natural Mineral Water	17) Phorate & its analogues – Phorate Sulphoxide & Phorate Sulphone	USEPA 8141A, 1994	0.05 to 100 µg/L
	Natural Mineral Water			
	Natural Mineral Water	18) 2,4 -D	USEPA 515.4, 2000	0.05 to 100 µg/L
	Natural Mineral Water	19) Butachlor	USEPA 8141A, 1994 / USEPA 525.2, 1995	0.05 to 100 µg/L
	Natural Mineral Water	20) Isoproturon	USEPA 532, 2000	0.05 to 100 µg/L

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	Natural Mineral Water	21) Alachlor	USEPA 507, 1995 / USEPA 508,1995/ USEPA 525.2,1995	0.05 to 100 µg/L
	Natural Mineral Water	22) Atrazine	USEPA 8141A,1994	0.05 to 100 µg/L
	Natural Mineral Water	23) Methyl parathion & its Analogue-Methyl Paraoxon	USEPA 8141A, 1994	0.05 to 100 µg/L
	Natural Mineral Water	24) Malathion & its analogue-Malaoxon	USEPA 8141A, 1994	0.05 to 100 µg/L
	Natural Mineral Water	25) Aldrin	USEPA 508,1995/ USEPA 525.2,1995	0.025 tso 100 µg/L
	Natural Mineral Water	26) Dieldrin	USEPA 508,1995/ USEPA 525.2,1995	0.025 to 100 µg/L
2.	Packaged Drinking Water	Polychlorinated Biphenyl (PCB)	Annex M of 'IS 13428 (By GC) USEPA METHOD 608, (By GC)	10 µg/L to 100 µg/L 0.01 µg/L to 100 µg/L
		Poylynuclear Aromatic Hydrocarbons (PAH)	APHA 6440 B, 23 rd Edn., Pg 6-94(By GC) APHA 6440 B, 23 rd Edn.,..., Pg 6-94(By HPLC) USEPA METHOD 8310,1986(By HPLC)	10 µg/L to 100 µg/L 0.1 µg/L to 100 µg/L
		PESTICIDE RESIDUES		
		1) p,p- DDT	USEPA 508	0.025 µg/L to 100 µg/L
		2) o,p- DDT	USEPA 508	0.025 µg/L to 100 µg/L
		3) o,p- DDE	USEPA 508	0.025 µg/L to 100 µg/L
		4) p,p- DDE	USEPA 508	0.025 µg/L to 100 µg/L
		5) o,p- DDD	USEPA 508	0.025 µg/L to 100 µg/L
		6) p,p- DDD	USEPA 508	0.025 µg/L to 100 µg/L
		7) Alpha HCH	USEPA 508	0.010 µg/L to 100 µg/L
		8) Beta HCH	USEPA 508	0.025 µg/L to 100 µg/L
		9) Gamma HCH	USEPA 508	0.025 µg/L to 100 µg/L

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		10) Delta HCH	USEPA 508	0.025 µg/L to 100 µg/L
		11) Alpha Endosulfan	USEPA 508	0.025 µg/L to 100 µg/L
		12) Beta Endosulfan	USEPA 508	0.025 µg/L to 100 µg/L
		13) Endosulfan sulphate	USEPA 508	0.025 µg/L to 100 µg/L
		14) Monocrotophos	USEPA 8141 A4	0.05 µg/L to 100 µg/L
		15) Ethion	USEPA 8141 A/ USEPA 1657A,	0.05 µg/L to 100 µg/L
		16) Chlorpyrifos	USEPA 508,/ USEPA 525.2,	0.025 µg/L to 100 µg/L
		17) Phorate & its analogues – Phorate Sulphoxide & Phorate Sulphone	USEPA 8141A,	0.05 µg/L to 100 µg/L
		18) 2,4 -D	USEPA 515.4	0.05 µg/L to 100 µg/L
		19) Butachlor	USEPA 8141A / USEPA 525.2	0.05 µg/L to 100 µg/L
		20) Isoproturon	USEPA 532,	0.05 µg/L to 100 µg/L
		21) Alachlor	USEPA 507,/ USEPA 508,/ USEPA 525.2,	0.05 µg/L to 100 µg/L
		22) Atrazine	USEPA 8141A	0.05 µg/L to 100 µg/L
		23) Methyl parathion & its Analogue-Methyl Paraoxon	USEPA 8141A	0.05 µg/L to 100 µg/L
		24) Malathion & its analogue-Malaoxon	USEPA 8141A	0.05 µg/L to 100 µg/L
		25) Aldrin	USEPA 508/ USEPA 525.2	0.025 µg/L to 100 µg/L
		26) Dieldrin	USEPA 508/ USEPA 525.2	0.025 µg/L to 100 µg/L
3.	Waste Water	PESTICIDE RESIDUES		
		1) p,p- DDT	USEPA 508	0.025 µg/L to 100 µg/L

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		2) o,p- DDT	USEPA 508	0.025 µg/L to 100 µg/L
		3) o,p- DDE	USEPA 508	0.025 µg/L to 100 µg/L
		4) p,p- DDE	USEPA 508	0.025 µg/L to 100 µg/L
		5) o,p- DDD	USEPA 508	0.025 µg/L to 100 µg/L
		6) p,p- DDD	USEPA 508	0.025 µg/L to 100 µg/L
		7) Alpha HCH	USEPA 508	0.010 µg/L to 100 µg/L
		8) Beta HCH	USEPA 508	0.025 µg/L to 100 µg/L
		9) Gamma HCH	USEPA 508	0.025 µg/L to 100 µg/L
		10) Delta HCH	USEPA 508	0.025 µg/L to 100 µg/L
		11) Alpha Endosulfan	USEPA 508	0.025 µg/L to 100 µg/L
		12) Beta Endosulfan	USEPA 508	0.025 µg/L to 100 µg/L
		13) Endosulfan sulphate	USEPA 508	0.025 µg/L to 100 µg/L
		14) Monocrotophos	USEPA 8141 A	0.05 µg/L to 100 µg/L
		15) Ethion	USEPA 8141 A / USEPA 1657A	0.05 µg/L to 100 µg/L
		16) Chlorpyrifos	USEPA 508 / USEPA 525.2	0.025 µg/L to 100 µg/L
		17) Phorate & its analogues – Phorate Sulphoxide & Phorate Sulphone	USEPA 8141A	0.05 µg/L to 100 µg/L
		18) 2,4 -D	USEPA 515.4	0.05 µg/L to 100 µg/L
		19) Butachlor	USEPA 8141A,/ USEPA 525.2	0.05 µg/L to 100 µg/L
		20) Isoproturon	USEPA 532	0.05 µg/L to 100 µg/L
		21) Alachlor	USEPA 507/ USEPA 508,/ USEPA 525.2,	0.05 µg/L to 100 µg/L
		22) Atrazine	USEPA 8141A,	0.05 µg/L to 100 µg/L
		23) Methyl parathion & its Analogue-Methyl Paraoxon	USEPA 8141A,	0.05 µg/L to 100 µg/L

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		24) Malathion & its analogue-Malaoxon	USEPA 8141A,	0.05 µg/L to 100 µg/L
		25) Aldrin	USEPA 508,/ USEPA 525.2,	0.025 µg/L to 100 µg/L
		26) Dieldrin	USEPA 508,/ USEPA 525.2,	0.025 µg/L to 100 µg/L
IV.	WATER			
1.	Ground Water/ Drinking water	Colour	Cl. 2 of IS 3025 (P 4)/ APHA 2120-C, 23rd Edn	2 TCU/Hz to 500 TCU/Hz
		Odour	IS 3025 (P 5)	Agreeable /Not Agreeable
		Turbidity	IS 3025 (P 10)	0.01 NTU to 100 NTU
		pH value	Cl. 2 of IS 3025 (P 11)	1 to 13
		Conductivity	IS 3025 (P 14) & APHA 2510-B, 23rd Edn.,	0.1 µmhos/cm to 5000 µmhos/cm
		Total Dissolved Solids	IS 3025 (P 16)	2 mg/L to 5000 mg/L
		Total Suspended Solids	IS 3025 (P 17)	2 mg/L to 500 mg/L
		Volatile Solids (Organic solids)	IS 3025 (P 18)	2 mg/L to 5000 mg/L
		Fixed Residue (Inorganic Solids)	IS 3025 (P 18)	2 mg/L to 5000 mg/L
		Total Hardness	Cl. 5 of IS 3025 (P 21)	2 mg/L to 1000 mg/L
		Acidity	IS 3025 (P 22)	2 mg/L to 500 mg/L
		Alkalinity	IS 3025 (P 23)	2 mg/L to 3000 mg/L
		Sulphates	Cl. 4 of IS 3025 (Part 24)	0.2 mg/L to 1000 mg/L
			APHA 4110 B,23rd Edn.	0.1 mg/L to 1000 mg/L
		Residual Free Chlorine	Cl. 4 of IS 3025 (Part 26)	0.05 mg/L to 50 mg/L
		Cyanide	Cl. 2.7 of IS 3025 (Part 27)	0.01mg/L to 100mg/L
			APHA 4500 CN—E, 23rd Edn.,2017	0.01mg/L to 100mg/L
		Sulphides	Cl. 3 of IS 3025 (Part 29)	0.05mg/L to 10mg/L

Vinay Kumar Tyagi
Convener

Mallika Gope
Program Manager

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		Chloride	Cl. 2 of IS 3025 (Part 32)	2 mg/L to 5000mg/L
			APHA 4110 B, 23rd Edn.	0.1mg/L to 1000mg/L
		Reactive Silica	Cl. 4 of IS 3025 (Part 35)	0.2mg/L to 100mg/L
		Total Silica	Cl. 2 of IS 3025 (Part 35)	1 mg/L to 500mg/L
		Arsenic	Cl. 3 of IS 3025 (Part 37) / APHA 3113 B 23 rd Edn.,	0.01mg/L to 1.0mg/L
		Oil & Grease	Cl. 5 of IS 3025 (Part 39)	1mg/L to 50mg/L
		Total Organic Carbon	APHA 5310 C 23 rd Edn., & MXNS/BLR/SOP/ED/01, R0 dated 28.11.2017	0.05mg/L to 500mg/L
		Chloramines	IS 3025 (Part 26)	0.05mg/L to 10mg/L
		Barium	Annex F of IS 13428	0.1mg/L to 100mg/L
			APHA 3113 B, 23 rd Edn.	0.002mg/L to 10mg/L
		Calcium	Cl. 5 & 6 of IS 3025 (Part 40)	1mg/L to 1000mg/L
		Cadmium	Cl. 5 & 6 of IS 3025 (Part 41)-1992 RA 2014	0.01mg/L to 10mg/L
			APHA 3113 B 23 rd Edn., 2017	0.001mg/L to 10mg/L
		Biochemical Oxygen Demand @27 ° for 3 days	Cl. 4 of IS 3025 (Part 44)	1mg/L to 100mg/L
		Phenols	Cl. 6 of IS 3025 (Part 43)	0.001mg/L to 10mg/L
		Magnesium	Cl. 6 of IS 3025 (Part 46)	1mg/L to 1000mg/L
		Lead	Cl. 7 & 8 of IS 3025 (Part 47)	0.1mg/L to 10mg/L
		Lead	APHA 3113 B, 23 rd Edn.,	0.01mg/L to 10mg/L
		Mercury	Cl. 5 of IS 3025 (Part 48)	0.001mg/L to 10mg/L
		Zinc	Cl. 4 & 6 of IS 3025 (Part 49)	0.01mg/L to 10mg/L
		Copper	Cl. 5 of IS 3025 (Part 42)	0.05mg/L to 10mg/L
		Nitrates	Cl. 3.3 & 3.4 of IS 3025 (Part -34)	0.1mg/L to 500mg/L

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			APHA 4110 B, 23 rd Edn.,	0.1mg/L to 100mg/L
		Nitrites	Cl. 4 of IS 3025 (Part 34)	0.01mg/L to 20mg/L
		Fluorides	Cl. 5 of IS 3025 (Part 60)	0.02mg/L to 10mg/L
		Fluorides	APHA 4110 B, 23 rd Edn.,	0.02mg/L to 10mg/L
		Iron	Cl. 6 & 7 of IS 3025 (Part -53)	0.01mg/L to 100mg/L
		Aluminium	Cl. 5 of IS 3025 (Part -55)	0.01mg/L to 10mg/L
		Manganese	Cl. 5 & 6 of IS 3025 (Part 59)	0.1mg/L to 10mg/L
		Selenium	IS 3025 (Part 56)/ IS 15303/APHA 3113B 23 rd Edn.,	0.01mg/L to 1mg/L
		Permanganate Value	IS 3025 (Part 63)	0mg/L to 50mg/L
		Anionic Detergents	Annex K of IS 13428	0.2mg/L to 10mg/L
		Chemical Oxygen Demand	IS 3025 (Part 58) / APHA 5220-B, 23 rd Edn.,	1mg/L to 1000mg/L
		Chromium, Total	Cl 6 & 7 of IS 3025 (Part -52)	0.01mg/L to 10mg/L
		Chromium, Hexavalent	Cl 6 of IS 3025 (Part -52)	0.01mg/L to 10mg/L
		Boron	Cl. 6.0 of IS 3025 (Part 57)- / APHA 4500-B, 23 rd Edn.	0.1mg/L to 10mg/L
		Temperature	IS 3025 (Part 9)	25 °C to 45°C
		Total Solids	IS 3025 (Part 15)	1mg/L to 5000mg/L
		Bromates	ISO 15061/IS 3025(Part 67)	0.005mg/L to 1.0mg/L
		Ammonia	Cl 2 of IS 3025 (Part 34)	0.05 mg/L to 5 mg/L
		Sulphites	IS 3025 (P 28)	2 mg/L to 10 mg/L
		Total Phosphorus	Cl. 2 & 4 of IS 3025 (Part 31)	0.05 mg/L to 50 mg/L
		Dissolved Phosphorus	Cl. 2 & 4 of IS 3025 (Part 31)	0.05mg/L to 50mg/L
		Total Nitrogen	Cl. 2,3,4, 5 of IS 3025 (Part 34)	1mg/L to 500mg/L
		Organic Nitrogen	MXNS/BLR/SOP/ED/11,	1mg/L to 500mg/L

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			R0 dated 08.01.2018	
		Sodium	Cl. 5 of IS 3025 (Part 45)	0.1mg/L to 500mg/L
		Potassium	Cl. 5 of IS 3025 (Part 45)	0.1mg/L to 100mg/L
		Nickel	Cl. 6 of IS 3025 (Part 54)	0.01mg/L to 10mg/L
		Nickel	Cl. 7 of IS 3025 (Part 54)/ Annex L of IS 13428	0.01mg/L to 10mg/L
		Silver	Annex J of IS 13428/ APHA 3113 B 23 rd Edn.,	0.01mg/L to 1mg/L
		Molybdenum	IS 3025 (Part 2) / APHA 3113 B 23 rd Edn.,	0.01mg/L to 10mg/L
		Mineral Oil	Cl.6.0 of IS 3025 (Part-39) /APHA 5520 C 23 rd Edn.,	0.05mg/L to 1mg/L
	Ground Water/Drinking water	Total organic Carbon	APHA 5310 B, 23 rd edn., 2017/ IP 2018/ USP Method 643	50-5000 mcg/L
	DM Water/purified water/Reagent grade Water	Total organic Carbon	APHA 5310 B, 23 rd edn., 2017/IP 2018/ USP Method 643	50-5000 mcg/L
2.	Construction Water	Quantity of 0.02N NaOH required to neutralise 100ml of sample	IS 3025 (Part 22)	0.1ml mg/L to 50ml
		Quantity of 0.02N H ₂ SO ₄ required to neutralise 100ml of sample	IS 3025 (Part 23)	0.1ml mg/L to 200 ml
		Inorganic Solids	IS 3025 (Part 18)	2mg/L to 2000mg/L
		Sulphates as SO ₃	MXNS/BLR/SOP/ED/10, R0 dated 08.01.2018	0.2mg/L to 1000mg/L
		Chlorides	Cl. 2 of IS 3025 (Part 32)	2mg/L to 1000mg/L
			APHA 4110 B, 23 rd Edn.,	0.1mg/L to 1000mg/L
		Suspended Solids	IS 3025 (Part 17)	2mg/L to 500mg/L
		Organic Solids	IS 3025 (Part 18)	2 mg/L to 1000mg/L

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		pH	Cl. 2 of IS 3025 (Part 11)	1 to 13
3.	Swimming Pool Water	pH	Cl. 2 of IS 3025 (Part 11)	1 to 13
		Colour	Cl. 2 of IS 3025 (Part 4)-/ APHA 2120-C, 23rd Edn.,	2 TCU/Hz to 500 TCU/Hz
		Odour	IS 3025 (Part 5)	Agreeable/Not Agreeable
		Total Alkalinity	IS 3025 (Part 23)	2 mg/L to 3000 mg/L
		Turbidity	IS 3025 (Part 10)	0.01NTU to 100NTU
		Residual Chlorine	Cl. 4 of IS 3025 (Part P 26)	0.05mg/L to 50mg/L
		Chloride	Cl. 2 of IS 3025 (Part P 32)	2 mg/L to 1000mg/L
			APHA 4110 B,23rd Edn.	0.1mg/L to 1000mg/L
		Oxygen absorbed in 4 hours	IS 3025- (Part 63)	0mg/L to 50mg/L
		Total Dissolved Solids	IS 3025 (Part 16)	2 mg/L to 5000mg/L
	Aluminium	Cl. 5 of IS 3025 (Part -55)	0.01mg/L to 10mg/L	
	Iron	Cl. 6 & 7 of IS 3025 (Part-53)	0.01mg/L to 10mg/L	
	Heavy Metals (as lead)	APHA 3113B 23 rd Edn.,	0.01mg/L to 10mg/L	
4.	DM Water /Purified Water /Reagent Grade Water/Industrial Water	Phosphates	Cl. 4 of IS 3025 (Part 31)	0.05mg/L to 10mg/L
		Total Hardness	Cl. 5 of IS 3025 (Part 21)	2mg/L to 10 mg/L
		pH	Cl. 2 of IS 3025 (Part 11)	1 to 13
		Iron Copper	32 of IS 3025	0.05mg/L to 10mg/L
		Silica	Cl. 4 of IS 3025 (Part 35)	0.2mg/L to 10mg/L
		Conductivity	Cl. 5 of IS 3025 (Part 14) & APHA 2510-B, 23 rd Edn.,	0.1µS/cm to 200µS/cm
		Colour Retention Time	Annex A of IS 1070	Comply /Does not comply
		Oxidisable Substances	IP 2018	Comply /Does not comply
		Total Organic carbon	USP Pg 257 / IP 2018	50 to 5000 mcg/L
		Total Solids	IS 3025 (Part 15)	1 mg/L to 100 mg/L
5	Packaged Drinking Water /	TABLE 1		
		1) Colour	Cl. 2 of IS 3025 (Part 4) /	2 TCU/Hz to 100 TCU/Hz

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	Natural Mineral Water		APHA 2120-C, 23rd Edn.,	
		2) Odour	IS 3025 (Part 5)	Agreeable/Not Agreeable
		4) Turbidity	IS 3025 (Part 10)	0.01 NTU to 100 NTU
		5) Total Dissolved Solids	IS 3025 (Part 16)	1 NTU to 1000 mg/L
		6) pH	Cl. 2 of IS 3025 (P 11)	1 to 13
		TABLE 2		
		1) Barium	Annex F of IS 13428	0.1 NTU to 100 NTU
			APHA 3113 B, 23 rd Edn.	0.002 mg/L to 10 mg/L
		2) Copper	Cl. 6 of IS 3025 (Part 42)	0.02 mg/L to 10 mg/L
		3) Iron	Cl. 6 & 7 of IS 3025 (Part 53) / IS 15303	0.01 mg/L to 5 mg/L
		4) Manganese	Cl. 5 of IS 3025(Part 59) /APHA 3500-Mn B, 23 rd Edn.,	0.03 mg/L to 10 mg/L
	5) Nitrates	Cl. 3.3 & 3.4 of IS 3025 (Part 34) /APHA 4500-NO ₃ .B, 23 rd Edn.	0.1 mg/L to 100 mg/L	
		APHA 4110 B, 23 rd Edn.,2017	0.1 mg/L to 100 mg/L	
	6) Nitrites	Cl. 4 of IS 3025 (Part 34)-1988 RA 2014	0.01 mg/L to 20 mg/L	
	7) Fluorides	Cl. 5 of IS 3025 (Part 60) / APHA 4500-F.C, 23 rd Edn.,	0.02 mg/L to 10 mg/L	
		APHA 4110 B, 23 rd Edn.,	0.02 mg/L to 10 mg/L	
	8) Zinc	Cl. 4 & 6 of IS 3025 (Part 49)	0.005 mg/L to 10 mg/L	
	9) Silver	Annex J of IS 13428	0.01 mg/L to 1 mg/L	
	10) Aluminium	Cl. 5 of IS 3025 (Part 55) APHA 3500-Al. D, 23 rd Edn. / IS 15302	0.01 mg/L to 10 mg/L	
	11) Chloride	Cl. 2 of IS 3025 (Part 32)	2 mg/L to 200 mg/L	

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			APHA 4110 B, 23 rd Edn.	0.1 mg/L to 1000 mg/L
		12) Selenium	IS 3025 (Part 56) / IS 15303 /APHA 3113B 23 rd Edn.,	0.01 mg/L to 1 mg/L
		13) Sulphates	Cl. 4 of IS 3025 (Part 24)	0.2 mg/L to 200 mg/L
			APHA 4110 B, 23 rd Edn.,	0.1 mg/L to 1000 mg/L
		14) Alkalinity	IS 3025 (Part 23)	2 mg/L to 500 mg/L
		15) Calcium	Cl. 5 & 6 of IS 3025 (Part 40)	1 mg/L to 100 mg/L
		16) Magnesium	Cl. 6 of IS 3025 (Part 46)	1 mg/L to 100 mg/L
		17) Sodium	Cl. 5 of IS 3025 (Part 45)	0.1 mg/L to 200 mg/L
		18) Residual Free Chlorine	Cl. 4 of IS 3025 (Part 26)	0.05 mg/L to 10 mg/L
		19) Phenolic Compounds as Phenol	Cl 6.0 of IS 3025 (Part 43)	0.001 mg/L to 1 mg/L
		20) Mineral Oil	Cl.6.0 of IS 3025 (Part -39) /APHA 5520 C 23 rd Edn.,	0.05 mg/L to 1 mg/L
		21) Anionic surface active agents	Annex K of IS 13428	0.2 mg/L to 10 mg/L
		22) Sulphides as H ₂ S	Cl. 3 of IS 3025 (Part 29)	0.05 mg/L to 10 mg/L
		23) Antimony	Annex G of IS 13428	0.005mg/L to 1mg/L
			APHA 3113 B 23 rd Edn. IS 15303	0.005mg/L to 1mg/L
		24) Borates	Annex H of IS 13428/ APHA 4500-B.B, 23 rd Edn., / IS 3025 (Part 57)	0.1mg/L to 5mg/L
		25) Bromates	ISO 15061/IS 3025(Part 67)	0.005mg/L to 1.0mg/L
		TABLE 3		
		1) Mercury	Cl. 5 of IS 3025 (Part 48)	0.001mg/L to 0.1mg/L
		2) Cadmium	Cl. 5 of IS 3025 (Part 41)	0.01mg/L to 10mg/L
			APHA 3113 B 23 rd Edn.,	0.001mg/L to 10mg/L

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		3) Arsenic	Cl. 3 of IS 3025 (Part 37) APHA 3113 B 23 rd Edn.,	0.01mg/L to 10mg/L
		4) Cyanide	Cl. 2.7.2 of IS 3025 (Part 27)-1986 APHA 4500 CN-E 23 rd	0.01mg/L to 1mg/L
		5) Lead	Cl. 7 of IS 3025 (Part 47) APHA 3113 B 23 rd Edn.	0.01 mg/L to 1 mg/L
		6) Chromium	Cl. 6 & 7 of IS 3025 (Part 52); Annex J of IS 13428 APHA 3113 B 23 rd Edn.	0.01 mg/L to 1 mg/L
		7) Nickel	Cl. 6 of IS 3025 (Part 54) APHA 3113 B 23 rd Edn. Annex L of IS 13428, Cl. 7 of IS 3025 (Part 54)	0.01mg/L to 10mg/L
V.	POLLUTION & ENVIRONMENT			
1.	Waste Water	pH value	Cl. 2 of IS 3025 (Part 11)	1 to 13
		Conductivity	Cl. 5 of IS 3025 (Part 14) & APHA 2510-B, 23 rd Edn	0.1mS/cm to 20mS/cm
		Total Dissolved Solids	IS 3025 (Part 16)	2mg/L to 8000mg/L
		Total Suspended Solids	IS 3025 (Part 17)	2mg/L to 5000mg/L
		Volatile Solids (Organic Solids/ Dissolved solids)	IS 3025 (Part 18)	2mg/L to 5000mg/L
		Fixed Residue (Inorganic Solids & dissolved solids)	IS 3025 (Part 18)	2 mS/cm to 5000 mg/L
		Settleable matter	IS 3025 (Part 19)/ APHA, 23 rd Edn.	2 ml/L to 100 ml/L
		Total Hardness	Cl. 5 of IS 3025 (Part 21)	1 mg/L to 5000 mg/L

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		Acidity	IS 3025 (Part 22)	2 mg/L to 500 mg/L
		Alkalinity	IS 3025 (Part 23)	2 mg/L to 500 mg/L
		Sulphates	Cl. 4 of IS 3025 (Part 24)	0.2 mg/L to 200 mg/L
		Sulphates	Cl.2 of IS 3025 (Part 24)	201mg/L to 1000mg/L
		Chlorine Content, Total	Cl. 4 of IS 3025 (Part 26)	0.05mg/L to 50 mg/L
		Residual Free Chlorine	Cl. 4 of IS 3025 (Part 26)	0.05mg/L to 50 mg/L
		Cyanide	Cl. 2.7 of IS 3025 (Part 27)/ APHA 4500 CN-E, 23 rd Edn.,	0.01mg/L to 100 mg/L
		Sulphides	Cl 2 of IS 3025 (Part 29)	1 mg/L to 100mg/L
		Chloride	Cl. 2 of IS 3025 (Part 32)	2 mg/L to 5000 mg/L
		Ammoniacal Nitrogen	Cl 2.5 of IS 3025 (Part 34)	0.5 mg/L to 100 mg/L
		Total Silica	Cl.2 of IS 3025 (Part 35)	0.2 mg/L to 100 mg/L
		Arsenic	Cl. 3 of IS 3025 (Part 37)	0.01 mg/L to 100 mg/L
		Oil & Grease	Cl. 5 of IS 3025 (Part 39)	1 mg/L to 500 mg/L
		Calcium	Cl of 5 & 6 IS 3025 (Part 40)	1 mg/L to 1000 mg/L
		Cadmium	Cl. 5 of IS 3025 (Part 41)	0.1 mg/L to 10 mg/L
		Cadmium	APHA 3113 B 23 rd Edn.	0.001 mg/L to 10 mg/L
		Copper	IS 3025 (Part 42)	0.05 mg/L to 100 mg/L
		Biochemical Oxygen Demand, 3 days, 27°C	Cl. 4 of IS 3025 (Part 44)	1 mg/L to 5000 mg/L
		Phenols	Cl. 6 of IS 3025 (Part 43)	0.001 mg/L to 100 mg/L
		Magnesium	Cl. 6 of IS 3025 (Part 43)	1 mg/L to 1000 mg/L
		Lead	Cl. 7 of IS 3025 (Part 47)	0.1 mg/L to 10 mg/L
			APHA 3113 B, 23 rd Edn.,	0.01 mg/L to 10 mg/L
		Mercury	Cl. 5 of IS 3025 (Part 48)	0.01 mg/L to 10 mg/L
		Zinc	Cl. 4 & 6 of IS 3025 (Part	0.01 mg/L to 10 mg/L

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			49)	
		Nitrates	Cl. 3.3& 3.4 of IS 3025 (Part 34), APHA 4500 NO ₃ B 23 rd Edn.,	0.1 mg/L to 100 mg/L
		Fluorides	Cl. 5 of IS 3025 (Part 60)/ APHA 4500-F.C, 23 rd Edn.,	0.02 mg/L to 10 mg/L
		Iron	Cl. 6 & 7 of IS 3025 (Part -53)	0.01 mg/L to 100 mg/L
		Aluminium	Cl. 5 of IS 3025 (Part -55)	0.01 mg/L to 10 mg/L
		Manganese	Cl. 5 of IS 3025 (Part 59)	0.1 mg/L to 10 mg/L
		Selenium	APHA 3113 B 23 rd Edn./ IS 3025 (Part 56) IS 15303	0.01 mg/L to 1 mg/L
		Chemical Oxygen Demand	Cl. 8 of IS 3025 (Part 58) 2006 RA 2014 & APHA 5220-B, 23 rd Edn.,	1 mg/L to 8000 mg/L
		Chromium, Total	Cl. 6 & 7 of IS 3025 (Part -52) / Annex J of IS 13428	0.01 mg/L to 100 mg/L
		Chromium, Hexavalent	Cl. 6 IS 3025(Part-52)	0.01 mg/L to 100 mg/L
		Boron	IS 3025 (Part 57)/ Annex H of IS 13428, APHA 4500-B, 23 rd Edn	0.1 mg/L to 10 mg/L
		Sodium Absorption Ratio	IS 11077	1 to 90
		Residual Sodium Carbonate	MXNS/BLR/SOP/ED/08, R0 dated 29.11.2017	0 to 20
		Free Ammonia	IS 2488 (Part 4)	0.05 mg/L
		Temperature	IS 3025 (Part 9)	10 °C to 50°C
		Total Solids	IS 3025 (Part 15)	1mg/L to 5000 mg/L
		Sulphites	IS 3025 (Part 28)	2 mg/L to 10 mg/L
		Total Phosphorus	Cl. 2 & 4 of IS 3025 (Part 31)	0.05 mg/L to 50 mg/L
		Dissolved Phosphorus	Cl. 2 & 4 of IS 3025	0.05 mg/L to 50 mg/L

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			(Part 31)	
		Total Nitrogen	Cl. 2,3,4, 5 of IS 3025 (Part 34)	1 mg/L to 500 mg/L
		Organic Nitrogen	MXNS/BLR/SOP/ED/11, R0 dated 08.01.2018	1 mg/L to 500 mg/L
		Dissolved Oxygen	IS 3025 (Part 38)	1 mg/L to 10 mg/L
		Sodium	Cl. 5 of IS 3025 (Part 45)	0.1 mg/L to 500 mg/L
		Potassium	Cl. 5 of IS 3025 (Part 45)	0.1 mg/L to 100 mg/L
		Nickel	Cl. 6 of IS 3025 (Part 54)	0.01 mg/L to 10 mg/L
			APHA 3113 B 23 rd Edn Annex L of IS 13428 Cl. 7 of IS 3025 (Part 54)	0.01 mg/L to 20 mg/L
		Silver	Annex J of IS 13428-2005 RA 2014	0.01mg/L to 1 mg/L
		% Sodium	IS 2488 (Part V)-1976	0 to 100
2.	Soil & Sediments	Cadmium	USEPA 7000B	0.1 mg/kg to 1000mg/kg
		Arsenic	USEPA 7010	0.1 mg/kg to 1000mg/kg
		Lead	USEPA 7000B	1 mg/kg to 1000mg/kg
		Mercury	USEPA 7471B	0.1 mg/kg to 500mg/kg
		Nitrogen	MXNS/BLR/SOP/ED/02, R0 dated 28.11.2017	0.05g/100g to 40g/100g
		Phosphorous, Available	MXNS/BLR/SOP/ED/03, R0 dated 28.11.2017	0.05 g/100g to 40 g/100g
		Potassium, Available	MXNS/BLR/SOP/ED/04, R0 dated 28.11.2017	0.05g/100g to 40g/100g
		Organic Matter	MXNS/BLR/SOP/ED/12, R0 dated 08.01.2018	0.1g/100g to 70g/100g
		Organic Carbon	MXNS/BLR/SOP/ED/12, R0 dated 08.01.2018	0.1g/100g to 70g/100g
		pH Value	IS 2720(Part 26)	1 to 13
		Moisture	IS 2720(Part II)	0.5g/100g to 70g/100g
VI.	ATMOSPHERIC POLLUTION			

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1.	Stack emission	Velocity	IS 11255 (Part 3)	3 m/s to 50 m/s
		Particulate Matter	IS 11255 (Part 1)	1 mg/Nm ³ to 500mg/Nm ³
		Sulphur dioxide	IS 11255 (Part 2)	0.1 mg/Nm ³ to 200mg/Nm ³
		Oxides of Nitrogen	IS 11255 (Part 7)	0.1 mg/Nm ³ to 100mg/Nm ³
2.	Ambient Air	Suspended Particulate Matter	IS 5182 (Part-4)	5 µg/m ³ to 1000µg/m ³
		Sulphur dioxide	IS 5182 (Part-2)	4 µg/m ³ to 100µg/m ³
		Nitrogen dioxide	IS 5182 (Part-6)	4 µg/m ³ to 100µg/m ³
		Particulate Matter PM ₁₀	IS 5182 (Part 23)	5 µg/m ³ to 100µg/m ³
		Particulate Matter PM _{2.5}	MXNS/BLR/SOP/ED/05R0 dated 29.11.2017	5 µg/m ³ to 100µg/m ³
		Ozone	MXNS/BLR/SOP/ED/06R0 dated 29.11.2017	10 µg/m ³ to 500µg/m ³
		Lead	MXNS/BLR/SOP/IN/07 R0 dated 29.11.2017	0.004 µg/m ³ to 100 µg/m ³
		Nickel	MXNS/BLR/SOP/IN/07 R0 dated 29.11.2017	4ng/m ³ to 1000ng/m ³
		Arsenic	MXNS/BLR/SOP/IN/07 R0 dated 29.11.2017	4ng/m ³ to 1000ng/m ³
		Ammonia	MXNS/BLR/SOP/ED/09R0 dated 29.11.2017	20µg/m ³ to 5000µg/m ³
		Carbon monoxide	MXNS/BLR/SOP/ED/07 R0 dated 29.11.2017	1mg/m ³ to 100mg/m ³
		Benzene	MXNS/BLR/SOP/IN/08, R0 dated 29.11.2017	5µg/m ³ to 100µg/m ³
		Benzo(a)pyrene in particulate phase only	MXNS/BLR/SOP/IN/09 R0 dated 29.11.2017	1ng/m ³ to 100ng/m ³
		3.	Stack emission	*Carbon dioxide
Stack emission	*Carbon monoxide		MXNS/BLR/SOP/ED/21 Issue no-0 dated 02-11-2018	0 to 15.00%
Stack emission	*non-methane		MXNS/BLR/SOP/ED/21	0-30000ppm

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		hydrocarbons	Issue no-0 dated 02-11-2018	
	Indoor Air	*Carbon dioxide	MXNS/BLR/SOP/ED/07 Issue no-0 dated 29-11-2017	0 to 5000ppm
	Indoor Air	*Carbon monoxide	MXNS/BLR/SOP/ED/07 Issue no-0 dated 29-11-2017	0 to 500ppm
	Indoor Air	Ozone	MXNS/BLR/SOP/ED/06 Issue no-0 dated 29-11-2017	0.005 to 0.255ppm
	Indoor Air	Formaldehyde	MXNS/BLR/SOP/ED/27 Issue no-0 dated 02-11-2018	10 to 500mcg/m3
	Indoor Air	Suspended Particulate Matter	IS 5182 (4)- 1999	5 to 1000mcg/m3
	Indoor Air	*Volatile organic compounds	MXNS/BLR/SOP/ED/23 Issue no-0 dated 02-11-2018	0.001 to 19999ppm
	Indoor Air	*Noise monitoring	MXNS/BLR/SOP/ED/14 Issue no-0 dated 26-07-2018	30 to 95 dB
	Compressed air	*Oil content	MXNS/BLR/SOP/ED/13 Issue no-0 dated 04-07-2018	0.2 to 5mg/m3
	Compressed air	*moisture	MXNS/BLR/SOP/ED/13 Issue no-0 dated 04-07-2018	150 to 3000mg/m3
	Compressed air	*dew point	MXNS/BLR/SOP/ED/13 Issue no-0 dated 04-07-2018	-20 to 60oC
	Compressed air	*Particle count	MXNS/BLR/SOP/ED/13 Issue no-0 dated 04-07-2018	0 to 2000000/m3
	Ambient Noise Monitoring	Noise monitoring	IS 9989	30 dB(A) to 130 dB(A)
VII.	DRUGS & PHARMACEUTICALS			

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1.	Tablet (Uncoated/Film coated/Sugar coated/Enteric coated/Chewable Tablets)	Water Content	I.P. 2018	0.1g/100g to 30g/100g
		Loss On drying	I.P. 2018	0.1% to 10.0%
		Identification by UV	I.P. 2018	Qualitative
		Identification by IR	I.P. 2018	Qualitative
		Disintegration Test	I.P. 2018	1 sec to 3hrs
		Uniformity of dispersion	I.P. 2018	Qualitative
		Light Absorption	I.P. 2018	Qualitative
		Melting point	I.P. 2018	30 to 300 ° C
2.	Capsules (Filled Hard gelatin & Soft gelatin Capsules)	Water Content	I.P. 2018	0.1 g/100g to 30 g/100g
		Loss On drying	I.P. 2018	0.1 to 10.0%
		Identification by UV	I.P. 2018	Qualitative
		Identification by IR	I.P. 2018	Qualitative
		Disintegration Test	I.P. 2018	1 sec to 3hrs
		Light Absorption	I.P. 2018	Qualitative
		Melting point	I.P. 2018	30°C to 300°C
3.	Powders (Raw materials and Oral Powders)	Water Content	I.P. 2018	0.1g/100g to 30g/100g
		Loss On drying	I.P. 2018	0.1g to 50g
		Light Absorption	I.P. 2018	Qualitative
		Melting point	I.P. 2018	30°C to 300°C
		Optical rotation/ Specific Optical Rotation	I.P. 2018	1° to 360°
4.	Liquids (Oils, solvents & Oral liquids)	Water Content	I.P. 2018	0.1g/100g to 30g/100g
		Weight per ml/Density	I.P. 2018	0.1g to 2g
		pH	I.P. 2018	1 to 14
		Refractive index	I.P. 2018	1.327 to 1.58
		Optical rotation/Specific Optical Rotation	I.P. 2018	1° to 360°

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		Acid value	I.P. 2018	1 to 5
		Light Absorption	I.P. 2018	Qualitative
B.	Pharmaceutical Substances and their Preparations			
1.	Albendazole tablets	Identification	I.P. 2018	Qualitative
		Assay	I.P. 2018	100mg to 500 mg/tablet
2.	Alprazolam Tablets	Identification B	I.P. 2018	qualitative
		Assay	I.P. 2018	0.1 to 5mg/tablet
3.	Amoxicillin Dispersible Tablet	Assay	I.P. 2018	100 to 300mg/tablet
4.	Amoxicillin Capsules	Identification B	I.P. 2018	Qualitative
		Dissolution	I.P. 2018	70% to 120 %
		Assay	I.P. 2018	100mg to 750mg/capsule
5.	Amoxicillin oral suspension	Identification	I.P. 2018	Qualitative
		Assay	I.P. 2018	100mg to 500mg/5 ml
6.	Ampicillin Capsules	Identification B	I.P. 2018	Qualitative
		Assay	I.P. 2018	100mg to 750mg/capsule
		Dissolution	I.P. 2018	70% to 120 %
7.	Aspirin Tablets	Salicylic Acid	I.P. 2018	Present /Absent
		Assay	I.P. 2018	25mg to 750mg/tablet
		Dissolution	I.P. 2018	70% to 120 %
8.	Benzyl Benzoate application	Assay	I.P. 2018	15g to 35g/100g
9.	Bromhexine Tablets	Related Substances	I.P. 2018	Present / Absent
		Assay	I.P. 2018	2mg to 10mg/tablet
10.	Castor Oil	Acid Value	I.P. 2018	1 to 5
11.	Cefadroxil Oral Suspension	Assay	I.P. 2018	100mg to 500mg/5 ml
12.	Cefadroxil Tablets	Identification	I.P. 2018	Qualitative
		Water	I.P. 2018	0.1 g to 20g

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		Dissolution	I.P. 2018	70% to 120 %
		Assay	I.P. 2018	100mg to 300mg/tablet
13.	Chlorpheniramine Maleate Tablets	Identification	I.P. 2018	Present / Absent
		Uniformity of content	I.P. 2018	1 mg to 10mg/tablet
		Assay	I.P. 2018	1 mg to 10mg/tablet
		Related substance	I.P. 2018	Present / Absent
14.	Ciprofloxacin Hydrochloride Tablets	Identification by A Identification by B	I.P. 2018	Present / Absent
		Dissolution	I.P. 2018	80 % to 120 %
		Assay	I.P. 2018	100 mg to 1000mg/tablet
15.	Clove bud Oil	Optical rotation	I.P. 2018	-5 ° to 360°
		Refractive Index	I.P. 2018	1.327 to 1.58
16.	Diclofenac Gastro Resistant Tablets	Identification	I.P. 2018	Present / Absent
		Assay	I.P. 2018	10mg to 75mg/tablet
17.	Hydrogen Peroxide 20 volumes	Acidity	I.P. 2018	Present / Absent
		Organic stabilizers	I.P. 2018	0.1mg to 20mg/20 ml
		Nonvolatile matter	I.P. 2018	0.1mg to 50mg/10 ml
		Assay	I.P. 2018	1 to 10 g/100ml
18.	Hydrogen Peroxide 100 volumes	Acidity	I.P. 2018	Present / Absent
		Organic stabilizers	I.P. 2018	0.1mg to 20mg/20 ml
		Nonvolatile matter	I.P. 2018	0.1mg to 50mg/10 ml
		Assay	I.P. 2018	10-100g/100ml
19.	Ibuprofen tablets	Related substances	I.P. 2018	Present / Absent
		Dissolution	I.P. 2018	70% to 120 %
		Assay	I.P. 2018	100mg to 750mg/tablet
20.	Light liquid paraffin	Light absorption	I.P. 2018	0.001A to 3A
21.	Mebendazole Tablets	Identification	I.P. 2018	Qualitative
		Related substances	I.P. 2018	0.01% to 1.5%
		Assay	I.P. 2018	50mg to 200mg/tablet
22.	Metronidazole	Related substances	I.P. 2018	0.01mg/kg to 0.5%

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	Tablets	Assay	I.P. 2014	100mg to 500mg/tablet
		Dissolution	I.P. 2018	70% to 120 %
23.	ORS Powder	Uniformity of Weight	I.P. 2018	3g to 25g/sachet
		Total Chloride	I.P. 2018	1g to 5 g/sachet
		Total sodium	I.P. 2018	1g to 3 g/sachet
		Assay for Citrate	I.P. 2018	0.5g to 3 g/sachet
		Assay for dextrose	I.P. 2018	1g to 50 g/sachet
		Total potassium	I.P. 2018	0.5g to 1g/sachet
24.	Paracetamol tablets	Related substances	I.P. 2018	0.001% to 0.3%
		Assay	I.P. 2018	100mg to 850mg/tablet
		Dissolution	I.P. 2018	70% to 120 %
25.	Povidone Iodine solution	Assay	I.P. 2018	0.25g to 2.0g/100ml
26.	Paracetamol Paediatric Syrup	Identification	I.P. 2018	Qualitative
		4 aminophenol	I.P. 2018	0.0001% to 0.8%
		Assay	I.P. 2018	100mg to 500mg/unit dose
27.	Zinc Oxide Cream	Assay	I.P. 2018	20g to 50g/100g
28.	Salbutamol Tablets	Related substances	I.P. 2018	Qualitative
		Uniformity of content	I.P. 2018	1mg to 10mg/tablet
		Assay	I.P. 2018	1mg to 10mg/tablet
VIII.	AYUSH PRODUCTS			
1.	Ayurvedic and Herbal Products a) Asava, Arishta /Syrup viz: Abhayarishta, Ashokarishta, Lohasava, Punarnavasava, Noni Syrup, Adulsa syrup	Cadmium	API- Part I, Volume 8, Appendix 3 First edition 2010	0.1mg/kg to 5.0mg/kg
		Arsenic	API- Part I, Volume 8, Appendix 3 First edition 2010	0.01mg/kg to 5.0mg/kg
		Lead	API- Part I, Volume 8, Appendix 3 First edition 2010,	1.0mg/kg to 10.0mg/kg
		Mercury	API - Part I, Volume 8,	0.01mg/kg to 5.0mg/kg

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	b)Churna viz:Trikatu churna, Bringharaj churna, Brahmi churna c)Single drugs viz:Root, Stem, Leaf Bark, Whole plant		Appendix 3 First edition 2010,	
2.	Ayurvedic and Herbal formulation a)Churna viz: Trikatu churna, Avipattikari churna, Bhringaraj churna. b)Single drugs viz:Whole plant, Root, Stem, Leaf, Bark	Total Ash	API- Part I, Vol II First edition 1999,	1%to 25%, w/w
		Acid Insoluble Ash	API - Part I, Vol II First edition 1999	0.1% to 20%,w/w
		Water soluble Extract	API - Part I, Vol II First edition 1999,	3% to 60%,w/w
		Alcohol soluble Extract	API - Part I, Vol II First edition 1999,	30% to 80%,w/w
		Loss on Drying	API - Part I, Vol II First edition 1999,	0.1% to 15%, w/w
3.	Natural Plant drugs viz: Root Stem Leaf Bark Whole plant	Total Ash	API- Part I Vol II, Page No.190 First edition 1999	1% to 25%, w/w
		Acid Insoluble Ash	API- Part I Vol II, Page No. 190 First edition 1999	0.1% to 20%,w/w
		Water soluble Extract	API- Part I Vol II, Page No. 191 First edition 1999	3% to 60%,w/w
		Alcohol soluble Extract	API- Part I Vol II, Page No. 191 First edition 1999	30% to 80%,w/w
		Volatile oil	API - Part I, Vol II First	0.1% to 25%,v/w

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			edition 1999, Page No. 191	
		Fixed Oil	API - Part I, Vol II First edition 1999, Page No. 191	1% to 15 %,w/w
		Loss on Drying	API - Part I, Vol II First edition 1999, Page No. 191	0.1% to 15%,w/w
	Sanitary Napkins	Weight	Cl 3 of IS 5405	1g to 30g
		Thickness	Cl 3 of IS 5405	1mm to 30mm
		Total Length	Cl 3 of IS 5405	200mm to 800mm
		Total Width	Cl 3 of IS 5405	50mm to 100mm
		Absorbency and ability to withstand pressure after absorption	Appendix A of IS 5405	Qualitative
		Disposability	Cl 5.2 of IS 5405	1minutes to 10minutes
		pH Value	IS 1390	5 to 9
IX.	PLASTICS & POLYMERS			
1.	PE Flexible pouches & Film	Overall migration	IS 9845	5mg/L to 250mg/L
		Water potability test	Annex E of IS 15609	Qualitative
2.	Containers for packaging of Packaged & Natural Mineral Water	Migration test	Cl. 4.6.5 of IS 15410	5mg/L to 250mg/L
		Water potability test	Annex B of Cl. 4.6.6 of IS 15410	Qualitative

***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 14543 and the Packaged Natural Mineral Water 13428.**

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<u>MECHANICAL TESTING</u>				
I.	PLASTICS & POLYMERS			
1.	Flexible pouches & Films	Thickness of film	IS 2508	30microns to 100microns
		Tensile strength Machine direction	IS 2508	5Mpa to 50MPa
		Tensile strength Crosswise machine direction	IS 2508	5Mpa to 50Mpa
		Elongation at break Machine direction	IS 2508	100% to 1000%
		Elongation at break Crosswise machine direction	IS 2508	100% to 1000%
		Dart impact resistance	IS 2508	1Newtons to 5Newtons
		Stack load test	Annex F of IS 15609	Qualitative
		Drop test	Annex G of IS 15609	Qualitative
		Ink adhesion test	Annex H of IS 15609	Qualitative
		Product resistance test	Annex H of IS 15609	Qualitative
	Flexible pouches and Films	Width	MXNS/BLR/SOP/ED/26	200 to 400 mm
2.	Containers for packaging of Packaged & Natural Mineral Water	Brimful Capacity	CI 5 of IS 2798	100ml to 26000ml
		Wall thickness	CI 4.5 of IS 2798	0.05mm to 2.0mm
		Transparency	Annex A of IS 15410	50% to 100%
		Closure leakage test	CI 6 of IS 2798	Qualitative
		Vibration leakage test	CI 6 of IS 2798	Qualitative
		Air pressure leakage test	CI 6 of IS 2798	Qualitative
		Drop test	CI 8 of IS 2798	Qualitative