

Laboratory Export Inspection Agency – Kolkata Laboratory, Space 101
(First Floor), Southend Conclave, 1582, Rajdanga Main Road,
Kolkata, West Bengal

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7423 (in lieu of T-1392, T-2570)

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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
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BIOLOGICAL TESTING

I.	MARINE /AQUA CULTURE FOOD PRODUCTS			
1.	Marine /Aqua culture Food Products	Total Plate Count	IS 5402:2012	≥10 cfu/g
			ISO: 4833-1 2013	≥10 cfu/g
		<i>Escherichia coli</i>	IS 5887 (Part 1) :1976-RA 2005	Qualitative (Present/ Absent/ g)
				≥10 cfu/g
			ISO 16649-2:2001	≥10 cfu/g
			ISO 16649-3:2015	Qualitative (Present/ Absent/ g)
		<i>Staphylococcus aureus (coagulase positive)</i>	IS 5887 (Part 2) : 1976 RA 2005	≥10 cfu/g
			ISO 6888-1:1999 Amendment 2003	≥10 cfu/g
		Coli forms	IS 5401 (Part 1): 2002 RA 2007	≥10 cfu/g
			IS 5401 (Part 2): 2012	Qualitative (Present/ Absent/ g)
				≥0.30 to 110 MPN/g
			ISO 4831:2006	Qualitative (Present/ Absent/ g)
				0 to ≥110 MPN/g
		<i>Salmonella spp.</i>	ISO 4832:2006	≥10cfu/g
			IS 5887 (Part 3): 1999 RA 2009	Qualitative (Present/ Absent/ 25 g)
ISO: 6579 -1: 2017				
EIA/KOL/LAB/ MICRO/ SOP /13 Issue No 01, Issue Date 02-11-2015				

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		<i>Shigella spp.</i>	IS 5887 (Part 7): 1999 RA 2009 ISO 21567:2004	Qualitative (Present/ Absent/ 25 g)
		<i>Vibrio cholerae</i>	IS 5887 (Part 5): 1976 RA 2009 ISO/TS 21872-1: 2017	Qualitative (Present/ Absent/ 25 g)
		<i>Vibrio vulnificus</i>	ISO/TS 21872-1: 2017	Qualitative (Present/ Absent/ 25 g)
		<i>Vibrio parahaemolyticus</i>	IS 5887 (Part 5): 1976 RA 2009 ISO/TS 21872-1: 2017	Qualitative (Present/ Absent/ 25 g)
			USFDA BAM 2004 Chapter - 9	<3.0 to >1100 MPN /g
		<i>Vibrio mimicus</i>	ISO/TS 21872-1: 2017	Qualitative (Present/ Absent/ 25 g)
		<i>Vibrio alginolyticus</i>	ISO/TS 21872-1: 2017	Qualitative (Present/ Absent/ 25 g)
		<i>Listeria monocytogenes</i>	IS 14988 (Part 1): 2001 RA 2012 ISO 11290-1:2017 EIA/KOL/LAB/ MICRO/ SOP /14 Issue No 01: Issue Date 02-11-2015	Qualitative (Present/ Absent/ 25 g)
		<i>Enterobacteriace</i>	ISO 21528-1: 2017	Qualitative (Present/ Absent/ g) 0 to ≥110 MPN/g
			ISO 21528-2: 2017	≥10 cfu/g
		<i>Clostridium perfringens</i>	ISO 7937:2004	≥10 cfu/g
		<i>Sulphite reducing bacteria</i>	ISO 15213:2003	≥10 cfu/g
		<i>Yeast and Mould</i>	ISO 21527-2:2008	≥10 cfu/g
			IS 5403:1999- RA 2009	≥10 cfu/g

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		<i>Fecal Streptococci</i>	IS 5887 (Part 2): 1976 – RA 2009	≥ 10 cfu/g ≥0.30 to 110 MPN/g
		<i>Bacillus cereus</i>	ISO:7932: 2004 IS 5887 (Part 6): 2012	≥10 cfu/g ≥10 cfu/g
II.	FOOD AND AGRICULTURAL PRODUCTS			
1.	Meat and Meat Products	Total Plate Count	IS 5402:2012 ISO :4833-1 2013	≥10 cfu/g ≥10 cfu/g
		<i>Escherichia coli</i>	ISO 16649-2:2001	≥10cfu/g
		<i>Staphylococcus aureus</i> (Coagulase positive)	ISO 6888-1:1999 Amendment 2003	≥10 cfu/g
		Coli forms	ISO 4831:2006 ISO 4832:2006	Qualitative (Present/ Absent/ g) 0 to ≥110 MPN/g ≥10 cfu/g
		<i>Salmonella spp.</i>	ISO 6579 -1:2017 EIA/KOL/LAB/ MICRO/ SOP /13 Issue No 01: Issue Date 02-11-2015	Qualitative (Present/ Absent/ 25 g)
		<i>Shigella spp.</i>	ISO 21567:2004	Qualitative (Present/ Absent/ 25 g)
		<i>Vibrio cholerae</i>	ISO/TS 21872-1:2017	Qualitative (Present/ Absent/ 25 g)
		<i>Listeria monocytogenes</i>	ISO 11290-1:2017 EIA/KOL/LAB/ MICRO/ SOP /14 Issue No 01: Issue Date 02-11-2015	Qualitative (Present/ Absent/ 25 g)
		<i>Enterobacteriace</i>	ISO 21528-1: 2017 ISO 21528-2: 2017	Qualitative (Present/ Absent/ g) 0 to ≥110 MPN/g ≥10 cfu/g
		<i>Clostridium perfringens</i>	ISO 7937:2004	≥10 cfu/g

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2.	Poultry and Poultry Products	Total Plate Count (TPC)	IS 5402:2012	≥10 cfu/g
			ISO 4833-1 2013	≥10 cfu/g
		<i>Escherichia coli</i>	ISO 16649-2:2001	≥10cfu/g
		<i>Staphylococcus aureus</i>	ISO 6888-1:1999 Amendment 2003	≥10 cfu/g
		Coli forms	ISO 4831:2006	Qualitative (Present/ Absent/ g) 0 to ≥110 MPN/g
			ISO 4832:2006	≥10cfu/g
		<i>Salmonella spp.</i>	ISO: 6579 -1:2017 EIA/KOL/LAB/ MICRO/ SOP /13 Issue No 01: Issue Date 02-11-2015	Qualitative (Present/ Absent/ 25 g)
		<i>Shigella spp.</i>	ISO 21567:2004	Qualitative (Present/ Absent/ 25 g)
		<i>Vibrio cholerae</i>	ISO/TS 21872-1:2017	Qualitative (Present/ Absent/ 25 g)
		<i>Listeria monocytogenes</i>	ISO 11290-1:2017 EIA/KOL/LAB/ MICRO/ SOP /14 Issue No 01: Issue Date 02-11-2015	Qualitative (Present/ Absent/ 25 g)
		<i>Enterobacteriace</i>	ISO 21528-1: 2017	Qualitative (Present/ Absent/ g) 0 to ≥110 MPN/g
	ISO 21528-2: 2017	≥10 cfu/g		
	<i>Clostridium perfringens</i>	ISO 7937:2004	≥10 cfu/g	
3.	Milk and dairy Products	Total Plate Count (TPC)	IS 5402:2012	≥10 cfu/g
			ISO 4833-1 2013	≥1 cfu/ml
			ISO 4833-1 2013	≥10 cfu/g
		<i>Escherichia coli</i>	ISO 16649-2:2001	≥10cfu/g ≥1 cfu/ml

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		<i>Staphylococcus aureus</i>	ISO 6888-1:1999 Amendment 2003	≥10 cfu/g ≥ cfu 1/ml
		Coli forms	ISO 4831:2006	Qualitative (Present/ Absent/ g) Qualitative (Present/ Absent/ ml) 0 to ≥110 MPN/g 0 to ≥110 MPN/ml
			ISO 4832:2006	≥10cfu/g ≥1 cfu /ml
		<i>Salmonella spp.</i>	ISO: 6579: 2017	Qualitative (Present/ Absent/ 25 g) Qualitative (Present/ Absent/ 25 ml)
			EIA/KOL/LAB/ MICRO/ SOP /13 Issue No 01: Issue Date 02-11-2015	Qualitative (Present/ Absent/ 25 g) Qualitative (Present/ Absent/ 25 ml)
		<i>Shigella spp.</i>	ISO 21567:2004	Qualitative (Present/ Absent/ 25 g) Qualitative (Present/ Absent/ 25 ml)
		<i>Vibrio cholerae</i>	ISO/TS 21872-1:2017	Qualitative (Present/ Absent/ 25 g) Qualitative (Present/ Absent/ 25 ml)
		<i>Listeria monocytogenes</i>	ISO 11290-1:2017	Qualitative (Present/ Absent/ 25 g)
			EIA/KOL/LAB/ MICRO/ SOP /14 Issue No 01: Issue Date 02-11-2015	Qualitative (Present/ Absent/ 25 ml)

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		<i>Enterobacteriaceae</i>	ISO 21528-1: 2017	Qualitative (Present/ Absent/ g)		
				Qualitative (Present/ Absent/ ml)		
				0 to ≥110 MPN/g 0 to ≥110 MPN/ml		
			ISO 21528-2: 2017	≥10 cfu/g ≥1 cfu /ml		
			<i>Clostridium perfringens</i>	ISO 7937:2004	≥10cfu/g ≥1 cfu /ml	
		<i>Yeast and Mould</i>		IS 5403:1999-RA 2009	≥10cfu/g ≥1 cfu /ml	
			4. Bakery and confectionary Products	Total Plate Count (TPC)	IS 5402:2012	≥10 cfu/g
					ISO 4833-1 2013	≥10 cfu/g
		<i>Escherichia coli</i>		ISO 16649-2:2001	≥10cfu/g	
				IS 5887 (Part 1) :1976-RA 2009	Qualitative (Present/ Absent/ g)	
<i>Staphylococcus aureus</i>	ISO 6888-1:1999 Amendment 2003	≥10 cfu/g				
	IS 5887 (Part 2) : 1976 RA 2009	Qualitative (Present/ Absent/ g)				
Coli forms	ISO 4831:2006	Qualitative (Present/ Absent/ g) 0 to ≥110 MPN/g				
	ISO 4832:2006	≥10cfu/g				
<i>Salmonella spp.</i>	ISO: 6579: 2017	Qualitative (Present/ Absent/ 25 g)				
	EIA/KOL/LAB/ MICRO/ SOP /13 Issue No 01: Issue Date 02-11-2015					
<i>Shigella spp.</i>	ISO 21567:2004	Qualitative (Present/ Absent/ 25 g)				

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		<i>Vibrio cholerae</i>	ISO/TS 21872-1:2017	Qualitative (Present/ Absent/ 25 g)
		<i>Listeria monocytogenes</i>	ISO 11290-1:2017	Qualitative (Present/ Absent/ 25 g)
			EIA/KOL/LAB/ MICRO/ SOP /14 Issue No 01: Issue Date 02-11-2015	
		<i>Enterobacteriaceae</i>	ISO 21528-1: 2017	Qualitative (Present/ Absent/ g)
			ISO 21528-2: 2017	0 to ≥110 MPN/g
		<i>Yeast and Mould</i>	IS 5403:1999- RA 2009	≥10 cfu/g
		<i>Bacillus spp</i>	IS 5887 (Part 6) : 2012	≥10 cfu/g
<i>Clostridium perfringens</i>	ISO 7937:2004	≥10 cfu/g		
5.	Salt	<i>Staphylococcus aureus</i>	IS 5887 (Part 2) : 1976 RA 2009	Qualitative (Present/ Absent/ g)
		<i>Sulphite Reducing anaerobes</i>	Annex C IS 13428: 2014	Qualitative (Present/ Absent/ g)
6.	Beverages (Alcoholic and Non-alcoholic)	Total Plate Count (TPC)	IS 5402:2012	≥ 1 cfu/ml
		Coli forms	IS 5401-1:2002	≥1cfu/ ml
			IS 5401-2 :2012	Qualitative (Present/ Absent/ ml)
			ISO 4831:2006	≥0.30 to 110 MPN/g
			ISO 4832:2006	Qualitative (Present/ Absent/ ml)
<i>Flat sour spore count</i>	Compendium of Methods for the Microbiological Examination of Foods American Public Health Association 5 th Edition, 2015.	0 to ≥110 MPN/ml		
				Qualitative (Present/ Absent/ 10 ml)

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7.	Processed and Unprocessed Agricultural products	<i>Yeast and Mould</i>	IS 5403:1999-RA 2009	≥1 cfu/ml	
		Total Plate Count (TPC)	IS 5402:2012	≥10 cfu/g/	
				≥1 cfu/ml	
		<i>Escherichia coli</i>	IS 5887 (Part 1) :1976-RA 2009	≥10 cfu/g	
				≥1 cfu/ml	
				Qualitative (Present/ Absent/ g)	
				Qualitative (Present/ Absent/ ml)	
				ISO 16649-2:2001	≥10cfu/g
				≥1 cfu/ml	
		<i>Staphylococcus aureus</i>	IS 5887 (Part 2): 1976 RA 2009	≤10 cfu/g	
				≥1 cfu/ml	
				Qualitative (Present/ Absent/ g)	
				Qualitative (Present/ Absent/ ml)	
				ISO 6888-1:1999 Amendment 2003	≥10 cfu/g
				≥1 cfu/ml	
Coli forms	IS 5401 (Part 1): 2002 RA 2009	≥10cfu/g			
		≥1 cfu/ml			
	IS 5401 (Part 2): 2012	Qualitative (Present/ Absent/ g)			
		Qualitative (Present/ Absent/ ml)			
		≥0.30 to 110 MPN/ml			
		≥0.30 to 110 MPN/g			
	ISO 4831:2006	Qualitative (Present/ Absent/ g)			
		Qualitative (Present/ Absent/ ml)			

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				0 to ≥ 110 MPN/g
				0 to ≥ 110 MPN/ml
			ISO 4832:2006	≥ 10 cfu/g
				≥ 1 cfu/ml
		<i>Salmonella spp.</i>	IS 5887 (Part 3):1999] RA 2009	Qualitative (Present/ Absent/ 25 g)
			ISO: 6579: 2017	Qualitative (Present/ Absent/ 25 ml)
			EIA/KOL/LAB/ MICRO/ SOP /13 Issue No 01: Issue Date 02-11-2015	
		<i>Listeria monocytogenes</i>	IS 14988 (Part 1): 2001 RA 2012	Qualitative (Present/ Absent/ 25 g)
			ISO 11290-1:2017	Qualitative (Present/ Absent/ 25 ml)
			EIA/KOL/LAB/ MICRO/ SOP /14 Issue No 01: Issue Date 02-11-2015	
		<i>Enterobacteriaceae</i>	ISO 21528-1: 2017	Qualitative (Present/ Absent/ g)
				0 to ≥ 110 MPN/g
			ISO 21528-2: 2017	≥ 10 cfu/g
		<i>Yeast and Mould</i>	IS 5403:1999- RA 2009	≥ 10 cfu/g
				≥ 1 cfu/ml
		<i>Clostridium perfringens</i>	ISO 7937:2004	≥ 10 cfu/g
				≥ 1 cfu/ml
		<i>Bacillus cereus</i>	IS 5887 (Part 6): 2012	≥ 10 cfu/g
				≥ 1 cfu/ml
		<i>Rope spore count</i>	Appendix F of IS 1320/1988	≤ 10 cfu/g
		<i>Sulphite spoilage Bacteria</i>	Compendium of Methods for the Microbiological Examination of Foods American Public Health Association 5 th Edition, 2015.	Qualitative (Present/ Absent/ 10 g)
				Qualitative (Present/ Absent/ 10 ml)

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		<i>Thermophilic Bacterial count</i>	Compendium of Methods for the Microbiological Examination of Foods American Public Health Association 5 th Edition, 2015.	Qualitative (Present/ Absent/ 10 g) Qualitative (Present/ Absent/ 10 ml)
		<i>Flat sour spore count</i>	Compendium of Methods for the Microbiological Examination of Foods American Public Health Association 5 th Edition, 2015.	Qualitative (Present/ Absent/ 10 g) Qualitative (Present/ Absent/ 10 ml)
8.	Herbs ,Spices & condiments	<i>Salmonella spp.</i>	IS 5887 (Part 3): 1999 RA 2009 ISO: 6579: 2017 EIA/KOL/LAB/ MICRO/ SOP /13 Issue No 01: Issue Date 02-11-2015	Qualitative (Present/ Absent/ 25 g) Qualitative (Present/ Absent/ 25 ml)
9.	Tea, Coffee Cocoa and by products	Total Plate Count	IS 5402:2012	≥10 cfu/g
		<i>Escherichia coli</i>	IS 5887 (Part 1): 1976- RA 2009 ISO 16649-2:2001	≥10 cfu/g Qualitative (Present/ Absent/ g)
		<i>Staphylococcus aureus</i>	IS 5887 (Part 2): 1976 RA 2009 ISO 6888-1:1999 Amendment 2003	≥10 cfu/g Qualitative (Present/ Absent/ g) ≥10 cfu/g
		Coli forms	IS 5401 (Part 1): 2002 IS 5401 (Part 2): 2012 ISO 4831:2006	≤10cfu/g Qualitative (Present/ Absent/ g) ≥0.30 to 110 MPN/g Qualitative (Present/ Absent/ g) 0 to ≥110 MPN/g

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			ISO 4832: 2006	≥10cfu/g
		<i>Salmonella spp.</i>	IS 5887 (Part 3): 1999 RA 2009	Qualitative (Present/ Absent/ 25 g)
			ISO 6579: 2017 EIA/KOL/LAB/ MICRO/ SOP /13 Issue No 01: Issue Date 02-11-2015	
		<i>Listeria monocytogenes</i>	IS 14988 (Part 1): 2001 ISO 11290-1:1996 – Amendment 2004	Qualitative (Present/ Absent/ 25 g)
			EIA/KOL/LAB/ MICRO/ SOP /14 Issue No 01: Issue Date 02-11-2015	
		<i>Yeast and Mould</i>	IS 5403:1999 - RA 2009	≥10 cfu/g
		<i>Clostridium perfringens</i>	ISO 7937:2004	≥10 cfu/g
		<i>Bacillus cereus</i>	IS 5887 (Part 6) : 2012	≥10 cfu/g
10.	Ready to Eat /Ready to Serve/Ready to cook Food /Hot cooked meals	Total Plate Count	IS 5402:2012	≥10 cfu/g
		<i>Escherichia coli</i>	IS 5887 (Part 1): 1976 RA 2009	≥10 cfu/g Qualitative (Present/ Absent/ g)
		<i>Staphylococcus aureus</i>	IS 5887 (Part 2): 1976 RA 2009	≥10 cfu/g
				Qualitative (Present/ Absent/ g)
		Coli forms	IS 5401 (Part 1): 2002 IS 5401 (Part 2): 2012	≥10 cfu/g
				Qualitative (Present/ Absent/ g) ≥0.30 to 110 MPN/g
		<i>Salmonella spp.</i>	IS 5887 (Part 3): 1999 RA 2009 ISO: 6579: 2017 EIA/KOL/LAB/ MICRO/SOP /13 Issue No 01: Issue Date 02-11-2015	Qualitative (Present/ Absent/ 25 g)

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		<i>Yeast and Mould</i>	IS 5403:1999-RA 2009	≥10 cfu/g
III.	NEUTRACEUTICALS & FUNCTIONAL FOODS			
1.	Fortified food, food supplements	Total Plate Count	IS 5402:2012	≥10 cfu/g
		<i>Escherichia coli</i>	ISO 16649-2:2001	≥10cfu/g
		<i>Staphylococcus aureus</i>	ISO 6888-1:1999 Amendment 2003	≥10 cfu/g
		Coli forms	ISO 4831:2006	Qualitative (Present/ Absent/ g) 0 to ≥110 MPN/g
			ISO 4832:2006	≥10cfu/g
		<i>Salmonella spp.</i>	ISO: 6579: 2017 EIA/KOL/LAB/ MICRO/ SOP /13 Issue No 01: Issue Date 02-11-2015	Qualitative (Present/ Absent/ 25 g)
		<i>Shigella spp.</i>	ISO 21567:2004	Qualitative (Present/ Absent/ 25 g)
		<i>Vibrio cholerae</i>	ISO/TS 21872-1:2017	Qualitative (Present/ Absent/ 25 g)
		<i>Listeria monocytogenes</i>	ISO 11290-1:2017 EIA/KOL/LAB/ MICRO/ SOP /14 Issue No 01: Issue Date 02-11-2015	Qualitative (Present/ Absent/ 25 g)
		<i>Enterobacteriace</i>	ISO 21528-1: 2017	Qualitative (Present/ Absent/ g)
			ISO 21528-2: 2017	0 to ≥110 MPN/g ≥10cfu/g
		<i>Clostridium perfringens</i>	ISO 7937:2004	≥10cfu/g
		<i>Yeast and Mould</i>	IS 5403:1999-RA 2009	≥10cfu/g
	<i>Vibrio parahaemolyticus</i>	IS 5887 (Part 5): 1976 RA 2009	Qualitative (Present/ Absent/ 25 g)	

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IV.	ANIMAL FOOD AND FEED			
1.	Animal food and feed	<i>Salmonella sp.</i>	IS 5887 (Part 3):1999 RA 2009	Qualitative (Present/ Absent/ 25 g)
			ISO: 6579: 2017	
			EIA/KOL/LAB/ MICRO/ SOP /13 Issue No 01: Issue Date 02-11-2015	Qualitative (Present/ Absent/ 25 g)
V.	WATER			
1.	Water/Ice Processing for Food Industry & Drinking water	Total plate count	EIA/KOL/LAB/ MICRO/ SOP /15 Issue No 01, Issue Date 02-11-2015	≥ 1 cfu/ml
			IS 5402:2012	≥ 1 cfu/ml
		Total plate count at 22° C	IS 5402:2012	≥ 1 cfu/ml
			ISO 6222:1999	≥ 1 cfu/ml
		Total plate count at 37° C	IS 5402:2012	≥ 1 cfu/ml
			ISO 6222:1999	≥ 1 cfu/ml
		Standard plate count	IS 1622:1981 RA 2009	≥ 1 cfu/ml
		<i>Coliforms</i>	IS 1622:1981 RA 2009	<2 to 1600 MPN /100 ml
			ISO:9308-1:2014	Qualitative Present/ Absent in 100 ml
		<i>Escherichia coli</i>	IS 15185: 2002	Qualitative Present/ Absent in 250 ml
IS 1622:1981 RA 2009	<2 to 1600 MPN /100 ml			
Proteolytic Bacteria	ISO:9308-1:2014	Qualitative Present/ Absent in 100 ml		
	IS 15185: 2002	Qualitative Present/ Absent in 250 ml		
Lipolytic Bacteria	Appendix A of IS 4251:1967- RA 2009	≥1 cfu/ml		
	Appendix A of IS 4251:1967- RA 2009	≥1 cfu/ml		

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		Slime forming Organisms	IS 1622:1981 RA 2009	Qualitative Present/ Absent/ ml
		Sulphite reducing Anaerobes	Annex C of IS 13428: 2005 amendment 2014	Qualitative Present/ Absent/ 50 ml
		<i>Yeast and Mould</i>	IS 5403:1999-RA 2009	Qualitative Present/ Absent in 250 ml
		<i>Clostridium perfringens</i>	ISO 14189:2013	≥1 cfu/ml
		<i>Salmonella spp.</i>	IS 15187:2016	Qualitative Present/ Absent in 250 ml
		<i>Shigella spp.</i>	IS 5887 (Part 7) : 1999 RA 2009	Qualitative Present/ Absent in 250 ml
		<i>Staphylococcus aureus</i>	IS 5887 (Part 2) : 1976 RA 2009	Qualitative Present/ Absent in 250 ml
		<i>Enterococci (Faecal streptococci)</i>	ISO 7899-2:2002 IS 15186 RA 2009	Qualitative Present/ Absent/ 250 ml
		<i>Pseudomonas aeruginosa</i>	Annex D of IS 13428: 2005 amendment 2014 ISO 16266 :2006	Qualitative Present/ Absent/ 250 ml
		<i>Vibrio parahaemolyticus</i>	IS 5887 (Part 5): 1976 RA 2009	Qualitative Present/ Absent in 250 ml
		<i>Vibrio cholera</i>	IS 5887 (Part 5): 1976 RA 2009	Qualitative Present/ Absent in 250 ml
		<i>Vibrio cholerae</i>	EIA/KOL/LAB/SOP/MICRO/ 11 Issue No 1, Issue Date 02.11.2015	
VI.	BIOLOGICAL MONITORING			
1.	SWABS (Table, Utensils, Freezing Tray, and Worker's Hand) Swabs-Worker's Hand in APW	Total Plate Count (TPC)	EIA/KOL/LAB/SOP/MICRO/ 01 Issue No 2, Issue Date 02.11.2015	≥ 1 cfu/sq cm
		Coli forms	EIA/KOL/LAB/SOP/MICRO/ 02 Issue No 2, Issue Date 02.11.2015	Qualitative (Present/ Absent/ sq cm)

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		<i>Vibrio cholerae</i>	EIA/KOL/LAB/SOP/MICRO/ 03 Issue No 2 : Issue Date 02.11.2015	Qualitative (Present/ Absent/ sq cm)

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CHEMICAL TESTING				
I.	MARINE/ AQUA CULTURE FOOD PRODUCTS			
1.	Marine/ Aqua culture food products	TVB-N	EIA/KOL/LAB/CHEM/SOP/20 Issue no 02 dated 10.05.2018	15 mg/100g to 200 mg/100g
		Histamine	EIA/KOL/LAB/CHEM/SOP/33 Issue no 01 dated 02.11.2015	25 mg/kg to 1000 mg/kg
		Phosphate	EIA/KOL/LAB/CHEM/SOP/18 Issue no 01 dated 02.11.2015	250 mg/100g to 10000 mg/kg
		Sulphite as SO ₂	EIA/KOL/LAB/CHEM/SOP/19 Issue no 01 dated 02.11.2015	10 mg/kg to 5000 mg/kg
		Citric acid	FSSAI manual for Meat and Fish Products 2016- 3.2	0.01% to 10 %
		Salt (Sodium Chloride)	FSSAI manual for Meat and Fish Products 2016- 2.3/ IS 14950:2001	0.1% to 30 %
		pH	EIA/KOL/LAB/CHEM/SOP/36 Issue no 01 dated 02.12.2016/ FSSAI manual for Meat and Fish Products 2016- 3.0	4 to 10
		Protein	EIA/KOL/LAB/CHEM/SOP/16 Issue no 01 dated 02.11.2015	5% to 50%
		Moisture	FSSAI manual for Meat and Fish Products 2016- 2.2	5% to 90 %
		Acid Insoluble Ash in dilute HCl	FSSAI manual for Meat and Fish Products 2016- 2.4	0.01% to 5%

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II.	FOOD & AGRICULTURAL PRODUCTS			
1.	Fruits and Vegetable products	pH	EIA/KOL/SOP/CHEM/SOP/36 Issue no 01 dated 02.12.2016/ FSSAI manual for Fruit and Vegetable products 2016, 2.3, 11.2, 19.2	2 to 8
		Moisture	FSSAI manual for Fruit and Vegetable products 2016, 4.1, 6.1, 7.1, 17.2, 20.1	1% to 90 %
		Total Soluble solids/ Brix	FSSAI manual for Fruit and Vegetable products 2016, 1.6/ EIA/KOL/LAB/CHEM/SOP/22 Issue no 01 dated 2.11.2015/ IS 13815: 2010	2% to 95 % 2°B to 95 °B
		Acidity / Total acidity	IS 2860 -1964 RA 2008/ FSSAI manual for Fruit and Vegetable products 2016, 2.4/ IS 13844:2003	0.05 % to 20 %
		Sodium chloride (Brine)	IS 2860 -1964, RA 2008 / FSSAI manual for Fruit and Vegetable products 2016, 1.7	0.1% to 20%
		Total ash	IS 13846- 2009/ FSSAI manual for Fruits and Vegetables 2016, 11.3	0.1% to 10%
		Acid insoluble ash in dilute HCl	IS 13846 -2009/ FSSAI manual for Fruit and Vegetable products 2016, 5.3	0.01% to 2%

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		Protein	EIA/KOL/LAB/CHEM/SOP/1 6 Issue no 01 dated 02.11.2015	0.1 % to 10%
		Fat	EIA/KOL/LAB/CHEM/SOP/3 4 Issue no 01 dated 28.10.2016	0.1% to 10%
		Salt	IS 1797 -2017/ FSSAI manual for Fruit and Vegetable products 2016, 1.7	0.1 % to 25%
		Sulphite as SO ₂	EIA/KOL/LAB/CHEM/SOP/1 9 Issue no 01 dated 02.11.2015/ FSSAI manual for Fruit and Vegetable products 2016, 17.7	10 mg/kg to 5000 mg/kg
		Energy	EIA/KOL/LAB/CHEM/SOP/1 7 Issue no 01 dated 23.09.2015	40 KCal/100 g to 900 KCal/100 g
		Total Sugars	FSSAI manual for Fruit and Vegetable products 2016, 2.6	1% to 50 %
		Container fill Capacity	FSSAI manual for Fruit and Vegetable products 2016, 1.3	50 % to 100 %
		Fruit Content	FSSAI manual for Fruit and Vegetable products 2016, 2.11/ AOAC 953.16, 20th Edition 2016	10 % to 100%
		Extraneous Vegetable matter	IS 2860 -1964, RA 2008	0.1% to 10%
		Caramel	FSSAI manual for Fruit and Vegetable products 2016, 14.7	Qualitative (Present/ Absent)

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		Peroxidase test	FSSAI manual for Fruit and Vegetable products 2016, 17.5	Qualitative (Present/ Absent)
		Added Colour	FSSAI manual for Food Additives 2016, 4.2.5	Qualitative (Present/ Absent)
2.	Cereals, Pulses & Cereal Products	Detection of Kesari Dal	FSSAI manual for Cereal and Cereal products, 2016/ IS 15642 : 2002	Qualitative (Present/ Absent)
		Damaged grains	FSSAI manual for Cereal and Cereal products, 2016, 1.4	0.01% to 25%
		Weevilled grains	FSSAI manual for Cereal and Cereal products, 2016, 1.4	0.01 % to 25%
		Extraneous matter (Foreign matter)	FSSAI manual for Cereal and Cereal products, 2016, 1.2	0.01% to 25%
		Mineral Matter	FSSAI manual for Cereal and Cereal products, 2016, 1.3	0.01% to 25%
		Impurities of animal origin	FSSAI manual for Cereal and Cereal products, 2016, 1.4	0.01% to 25%
		Other edible grain	FSSAI manual for Cereal and Cereal products, 2016, 1.4	0.01% to 25%
		Moisture	FSSAI manual for Cereal and Cereal products, 2016, 8.1/ IS 4333 (Part 2): 2002 RA 2012	5 % to 25 %
		Total ash	IS-1155-1968 RA - 2010/ FSSAI manual for Cereal and Cereal Products 2016, 8.2	0.1 % to 10%
		Acid insoluble ash in dilute HCl	IS-1155-1968 RA - 2010/ FSSAI manual for Cereal and Cereal Products 2016, 8.3	0.01 % to 5 %

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		Protein	EIA/KOL/LAB/CHEM/SOP/1 6 Issue no 01 dated 02.11.2015/ IS 7219: 1973 RA 2005	1 % to 70 %
		Gluten content	IS-1155-1968 RA - 2010/ FSSAI manual for Cereal and Cereal Products 2016, 8.4	5% to 20%
		Alcoholic acidity	IS-1155-1968 RA - 2010/ FSSAI manual for Cereal and Cereal Products 2016, 8.5/ IS 12711:1989	0.05% to 1.0%
		Starch content	IS-4706-1978,RA 1995	2.0 % to 80%
		Carbohydrate	IS 1656: 2007 (By Calculation)	10% to 80%
		Energy	EIA/KOL/LAB/CHEM/SOP/1 7 Issue no 01 dated 23.09.2015	5 KCal/100 g to 900 KCal/100 g
		Uric acid	EIA/KOL/LAB/CHEM/SOP/1 5 Issue no 01 dated 02.11.2015	2.5 mg/kg to 500 mg/kg
		Crude Fibre	FSSAI manual for Cereal and Cereal products, 2016, 8.8 / IS 10226 part 1 1982 RA 2005	0.1 % to 50 %
		Rodent Hair Excreta	FSSAI manual for Cereal and Cereal products, 2016, 1.4	Qualitative (Present/ Absent)
		Detection of Talc	FSSAI manual for Cereal and Cereal products, 2016, 12.0	Qualitative (Present/ Absent)
		Calcium Carbonate	FSSAI manual for Cereal and Cereal products, 2016, 8.6	10 mg/kg to 2000 mg/kg

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3.	Bakery & Confectionary Products	Moisture	IS 1011-2002,RA 2009/ IS 12711:1989/ FSSAI manual for Cereals and Cereal products 2016 14.3 & 15.2	0.1 % to 15%
		Fat	EIA/KOL/LAB/CHEM/SOP/3 4 Issue no 01 dated 28.10.2016 / IS 12711:1989	0.1 % to 50 %
		Acidity of extracted fat (as oleic acid)	IS 1011-2002,RA 2009/ IS 12711:1989/ FSSAI manual for Cereals and Cereal products 2016 14.5	0.05 % to 10%
		Ash	IS 1011-2002,RA 2009 / IS 12711:1989	0.1 % to 25%
		Acid insoluble ash in dilute HCl	IS 1011-2002,RA 2009 / IS 12711:1989/ FSSAI manual for Cereals and Cereal products 2016 14.4 & 15.4	0.01 % to 5 %
		Protein	EIA/KOL/LAB/CHEM/SOP/1 6 Issue no 01 dated 02.11.2015	0.1 % to 50 %
		Carbohydrate	IS 1656 : 2007 By Calculation	1% to 80%
		Energy	EIA/KOL/LAB/CHEM/SOP/1 7 Issue no 01 dated 23.09.2015	5 KCal/100 g to 900 KCal/100 g
		Alcoholic acidity	IS 12711- 1989 RA 1994 / FSSAI manual for Cereals and Cereal products 2016 15.3	0.05 % to 5 %
		Salt	IS 1797-2017	0.1 % to 50 %
		Added Colour	FSSAI manual for Food Additives 2016 4.2.5	Qualitative (Present/ Absent)

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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
4.	Honey & Honey Based Products	Specific gravity	IS 4941- 1994,RA 2002	1 to 2
		Total reducing sugar	IS 4941- 1994,RA 2002	10% to 75%
		Ash	IS 4941- 1994,RA 2002	0.1% to 5 %
		Acidity (expressed as formic acid)	IS 4941- 1994,RA 2002	0.05% to 5 %
		Fructose- Glucose ratio	IS 4941- 1994,RA 2002	0.2 % to 2%
		Fiehe's test	IS 4941- 1994,RA 2002	Qualitative (Positive/Negative)
		Sucrose	IS 4941- 1994,RA 2002	0.1 % to 10 %
		Hydroxy methyl furfural	AOAC 980.23, 20 th Edition, 2016	0.5 mg/kg to 100 mg/kg
		Energy	EIA/KOL/LAB/CHEM/SOP/17 Issue no 01 dated 23.09.2015	5 KCal/100 g to 900 K Cal/100 g
		Moisture	IS 4941-1994 RA 2002	5% to 25%
5.	Herbs, Spices & Condiments	Foreign Matter (such as mould, dirt, scum, pieces of beeswax, the fragments of bees and other insects)	IS 4941-1994 RA 2002	Qualitative (Present/ Absent)
		Optical Density	IS 4941-1994 RA 2002	0.01 to 0.5
		Extraneous matter	FSSAI manual for Spices and Condiments 2016, 2.0 / IS 1797-2017	0.01% to 50 %
		Insect damaged matter	FSSAI manual for Spices and Condiments 2016, 2.0	0.01% to 50 %
		Empty and malformed capsules by count (cardamom)	FSSAI manual for Spices and Condiments 2016, 2.0	0.01% to 50 %
Immature and shrivelled capsules	FSSAI manual for Spices and Condiments 2016, 2.0	0.01% to 50 %		

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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
		Light seed	FSSAI manual for Spices and Condiments 2016, 2.0	0.01% to 50 %
		Unripe and marked fruit (Chilli)	FSSAI manual for Spices and Condiments 2016, 2.0	0.01% to 50 %
		Broken fruit, seed and fragment	FSSAI manual for Spices and Condiments 2016, 2.0	0.01% to 50 %
		Tendrils, mother clove	FSSAI manual for Spices and Condiments 2016, 2.0	0.01% to 50 %
		Khokar clove	FSSAI manual for Spices and Condiments 2016, 2.0	0.01% to 50 %
		Headless cloves	FSSAI manual for Spices and Condiments 2016, 2.0	0.01% to 50 %
		Split fruit (coriander)	FSSAI manual for Spices and Condiments 2016, 2.0	0.01% to 50 %
		Damaged discoloured fruit	FSSAI manual for Spices and Condiments 2016, 2.0	0.01% to 50 %
		Defective seed (fennel)	FSSAI manual for Spices and Condiments 2016, 2.0	0.01% to 50 %
		Edible seed other than fennel seed	FSSAI manual for Spices and Condiments 2016, 2.0	0.01% to 50 %
		Light berries (black pepper)	FSSAI manual for Spices and Condiments 2016, 2.0	0.01% to 50 %
		Pin head or broken berries	FSSAI manual for Spices and Condiments 2016, 2.0	0.01% to 50 %
		Defective rhizome (turmeric)	FSSAI manual for Spices and Condiments 2016, 2.0	0.01% to 50 %
		Moisture	IS 1797 - 2017 / FSSAI manual for Spices and Condiments 2016 3.0 / EIA/KOL/LAB/CHEM/SOP/37 issue no 01 dt. 14.12.2016	0.1% to 50%
		Total ash	IS 1797 - 2017 / FSSAI manual for Spices and Condiments 2016, 4.0	0.1% to 15%

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		Acid insoluble ash in dilute HCl	IS 1797 - 2017 / FSSAI manual for Spices and Condiments 2016, 5.0	0.01% to 3%
		Water insoluble ash	IS 1797 - 2017	0.1% to 5%
		Volatile oil content	IS 1797 - 2017 / FSSAI manual for Spices and Condiments 2016, 9.0	0.1% to 20 %
		Non-volatile ether extract	IS 1797 - 2017 / FSSAI manual for Spices and Condiments 2016, 10.0	1% to 30%
		Protein	EIA/KOL/LAB/CHEM/SOP/16 Issue no 01 dt. 02.11.2015	0.1% to 50%
		Presence of Chromate	IS 3576-2010 / FSSAI manual for Spices and Condiments 2016, 16.6	Qualitative (Present/ Absent)
		Salt	IS 1797 - 2017	0.1 % to 50 %
		Energy	EIA/KOL/LAB/CHEM/SOP/17 Issue no 01 dated 23.09.2015	5 KCal/100 gm to 900 KCal/100 gm
		Mould, living and dead insects, insect fragments, rodent contamination	IS 1797 - 2017	Qualitative (Present/ Absent)
		Added Colour	FSSAI manual for Food Additives 2016, 4.2.5	Qualitative (Present/ Absent)
		Cold water soluble extract	IS 1797 - 2017 / FSSAI manual for Spices and Condiments 2016 6.0	50% to 100 %
		Bulk Density	IS 1797 - 2017 / FSSAI manual for Spices and Condiments 2016 14.1	500 to 1500 g/l
		Crude Fibre	IS 1797 - 2017 / FSSAI manual for Spices and Condiments 2016 11.0	1% to 50%

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		Starch content	IS 4706 (Part 1): 1978 RA1995 / FSSAI manual for Spices and Condiments 2016 16.5	1% to 50%
6.	Edible Salt	Water insoluble matter	IS 7224 : 2006	0.01% to 5 %
		Matter soluble in water other than NaCl	IS 7224 : 2006	0.01% to 5 %
		Matter insoluble in dilute HCl	IS 253 : 2014	0.01% to 5 %
		Iodine Content in Salt	IS 7224 : 2006	1 mg/kg to 100 mg/kg
		pH in aqueous solution	IS 7224 : 2006	4 to 10
		Sodium chloride (Purity)	IS 7224 : 2006	80% to 100 %
		Magnesium	IS 7224 : 2006	0.01% to 5 %
		Sulphate	IS 7224 : 2006	0.01% to 5 %
7.	Oils & Fats & Related products	Moisture & volatile matter	IS 548 (Part I): 1964 RA 2010/ FSSAI manual for Oils and fats 2016, 3.0/ EIA/KOL/LAB/CHEM/SOP/3 7 Issue no 1 dt. 14.12.2016	0.01% to 10%
		Free fatty acid	IS 548 (Part I): 1964 RA 2010 / FSSAI manual for Oils and fats 2016, 11.8	0.05% to 25%
		Acid value	IS 548 (Part I): 1964 RA 2010 / FSSAI manual for Oils and fats 2016, 11.0	0.1 to 50
		Saponification value	IS 548 (Part I): 1964 RA 2010 / FSSAI manual for Oils and Fats 2016, 9.0	2 to 300

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		Iodine value	IS 548 (Part I): 1964 RA 2010 / FSSAI manual for Oils and Fats 2016, 12.0	1 to 200
		Refractive index	EIA/KOL/LAB/CHEM/SOP/2 2 Issue no 01 dt.02.11.2015 / FSSAI manual for Oils and fats 2016, 5.0 / IS 548 (Part I):1964RA 2010	1.3 to 1.8
		Unsaponifiable matter	IS 548 (Part I): 1964 RA 2010 / FSSAI manual for Oils and Fats 2016, 10.0	0.1% to 15%
		Peroxide value	IS 548 (Part I): 1964 RA 2010 / FSSAI manual for Oils and fats 2016, 38.1	0.10 mEq/kg to 100 mEq/kg
		Test for mineral oil	FSSAI manual for Oils and fats 2016,28.0/ IS 548 (Part II): 1976	Qualitative (Present/ Absent)
		Test for Argemone oil	FSSAI manual for Oils and Fats 2016, 30.0 / IS 548 (Part II): 1976	Qualitative (Present/ Absent)
		Energy	EIA/KOL/LAB/CHEM/SOP/1 7 Issue no 01 dt. 23.09.2015	5 KCal/100 g to 900 KCal/100 g
		Bellier Test (Turbidity temperature)	FSSAI manual for Oils and Fats 2016, 14.0 / IS 548 (Part II): 1976	20°C to 60°C
		Boudouins Test	FSSAI manual for Oils and Fats 2016, 15.0 / IS 548 (Part II): 1976	Qualitative (Positive/ Negative)
		Specific Gravity	FSSAI manual for Oils and Fats 2016, 4.0 / IS 548 (Part I): 1964	0.8 to 1.2

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8.	Starch and starchy products	Moisture	IS 4706-1978,RA-2005	0.1 % to 20%
		Total Ash	IS 4706-1978,RA-2005	0.1 % to 10%
		Acid insoluble ash	IS 4706-1978,RA-2005	0.01 % to 2%
		Protein	EIA/KOL/LAB/CHEM/SOP/1 6 Issue no 01 dt. 02.11.2015	0.1 % to 50 %
		Alcoholic acidity	IS 4706-1978,RA-2005	0.05 % to 5%
		Fat	EIA/KOL/LAB/CHEM/SOP/3 4 Issue no 01 dt. 28.10.2016	0.1% to 50%
		Carbohydrate	By Calculation IS 1656: 2007	1% to 80%
		Salt	IS 4706-1978,RA-2005	0.1% to 25%
		Energy	EIA/KOL/LAB/CHEM/SOP/1 7 Issue no 01 dt. 23.09.2015	5 KCal/100 g to 900 KCal/100 g
	Rodent Excreta	IS 4706 (Part I): 1978	Qualitative (Present/ Absent)	
9.	Tea, Coffee, Cocoa and by products	Moisture	IS-3077-1992,RA 1998 IS 3633 : 2003 RA 2008	0.1 % to 90%
		Total Ash	IS- 13854-1994, RA 1999	0.1 % to 20 %
		Water soluble ash	IS-3077-1992,RA 1998 / IS 13855:1993	5 % to 90 %
		Ash insoluble in HCL	IS-3077-1992,RA 1998 / IS 13857 : 1993	0.01 % to 10%
		Aqueous Extract / Water soluble matter	IS-3077-1992,RA 1998 / IS 13862:1999	5 % to 80 %
		Alkalinity of soluble ash	IS-3077-1992,RA 1998 / IS 13856:1993	0.1 % to 20 %
		Petroleum ether extract	IS-3077-1992,RA 1998	1 % to 30 %
		Caffeine	EIA/KOL/LAB/CHEM/SOP/1 4 Issue no 01 dt 02.11.2015	25 mg/kg to 1000 mg/kg
		Protein	EIA/KOL/LAB/CHEM/SOP/1 6 Issue no 01 dt 02.11.2015	0.1 % to 50%
			Total Polyphenols	AOAC(968.21) 20 th edition 2016

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		Energy	EIA/KOL/LAB/CHEM/SOP17 Issue no 01 dt 23.09.2015	5 KCal/100 g to 900 KCal/100 g
		Crude Fibre	IS 16041 : 2012 / IS 10226 (part I): 1982 RA 2005	1% to 30 %
		Iron Filings	IS 3633:2003 RA 2008/ IS 15642 : 2006	100 mg/kg to 10000 mg/kg
		Solubility in boiling water	IS 2791:1992	1 min. to 5 min.
		Added Colour	FSSAI manual for Food Additives 2016 4.2.5	Qualitative (Present/ Absent)
		Solubility in cold water	IS 2791:1992	10 sec. to 120 sec.
10.	Snacks & Related Products (Namkeen, Jhal muri, Bhujia, Chips, Kurmure, Kurkure)	Moisture	IS 1155-1968, RA 2010	0.1% to 80%
		Total Ash	IS 15271-2003, RA 2009	0.1% to 25%
		Acid Insoluble ash in dilute HCl	IS 15271-2003, RA 2009	0.01 % to 5%
		Fat	EIA/KOL/LAB/CHEM/SOP/3 4 Issue no 01 dated 28.10.2016	0.1 % to 50%
		Protein	EIA/KOL/LAB/CHEM/SOP/1 6 Issue no 01 dt 02.11.2015	0.1% to 50%
		Carbohydrate	By Calculation	1% to 80%
		Acidity / Acidity of extracted fat	IS 15271-2003, RA 2009	0.05% to 50%
		Salt	IS 4706-1978	0.1% to 25 %
		Energy	EIA/KOL/LAB/CHEM/SOP/1 7 Issue no 01 dt 23.09.2015	5 KCal/100 g to 900 KCal/100 g
11.	Nuts & Nuts products	Moisture	AOAC (925.40), 20 th edition 2016	0.1% to 70%
		Fat	AOAC (948.22), 20 th edition, 2016 / EIA/KOL/LAB/CHEM/SOP/3 4 Issue no 01 dt 28.10.2016	0.1% to 75%

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		Protein	EIA/KOL/LAB/CHEM/SOP/16 Issue no 01 dt 02.11.2015	0.1% to 80%
		Carbohydrate	IS 1656 : 2007 By Calculation	1% to 80 %
		Acidity / Acidity of extracted fat	FSSAI manual for Fruit and Vegetable products 2016	0.05% to 25 %
		Energy	EIA/KOL/LAB/CHEM/SOP/17 Issue no 01 dt 23.09.2015	5 KCal/100 g to 900 KCal/100 g
		Insects living/ dead	FSSAI manual for Fruit and Vegetable products 2016	Qualitative (Present/ Absent)
		Insect fragment / rodent contamination	FSSAI manual for Fruit and Vegetable products 2016	Qualitative (Present/ Absent)
		Damaged / Discoloured units	FSSAI manual for Fruit and Vegetable products 2016	0.1% to 30%
		Extraneous vegetable matter	FSSAI manual for Fruit and Vegetable products 2016	0.1% to 30%
12.	Sugar and sugar products	Moisture	DGHS Manual 4, 2005 IS 15279 : 2003	0.1% to 30%
		Total Ash	DGHS Manual 4, 2005 IS 15279 : 2003	0.1% to 10%
		Acid insoluble ash in dilute HCl	DGHS Manual 4, 2005 IS 15279 : 2003	0.01% to 5%
		Fat	EIA/KOL/LAB/CHEM/SOP/34 Issue no 01 dt 28.10.2016	0.1% to 50%
		Protein	EIA/KOL/LAB/CHEM/SOP/16 Issue no 01 dt 02.11.2015	0.1% to 50%
		Sucrose	DGHS Manual 4, 2005	1.0 % to 90 %
		Reducing sugar	DGHS Manual 4, 2005	0.5% to 70%
		Brix (total soluble solids)	EIA/KOL/LAB/CHEM/SOP/22 Issue no 01 dt 02.11.2015	1 % to 85 %
		Sulphated ash	DGHS Manual 4, 2005	0.1% to 10%
		Acidity	DGHS Manual 4, 2005	0.05% to 20%

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		Energy	EIA/KOL/LAB/CHEM/SOP/1 7 Issue no 01 dt 23.09.2015	5 KCal/100 g to 900 KCal/100 g
		Sulphite as SO ₂	EIA/KOL/LAB/CHEM/SOP/1 9 Issue no 01 dt 02.11.2015	10 mg/kg to 5000 mg/kg
		Added Colour	FSSAI manual for Food Additives 2016 4.2.5	Qualitative (Present/ Absent)
13.	Beverage (non-alcoholic)	pH	EIA/KOL/LAB/CHEM/SOP/3 6 Issue no 01 dt 02.12.2016	1 to 14
		Sulphite as SO ₂	EIA/KOL/LAB/CHEM/SOP/1 9 Issue no 01 dt 02.11.2015	10 mg/l to 5000 mg/l
		Brix (total soluble solids)	EIA/KOL/LAB/CHEM/SOP/2 2 Issue no 01 dt 02.11.2015	1% to 85 %
		Acidity	AOAC(990.28) 20 th edition 2016	0.05% to 10 %
		Caffeine	EIA/KOL/LAB/CHEM/SOP/1 4 Issue no 01 dt 02.11.2015	25 mg/l to 500 mg/l
14.	Beverage (Alcoholic)	pH	EIA/KOL/LAB/CHEM/SOP/3 6 Issue no 01 dt 02.12.2016	1 to 14
		Specific Gravity	IS-7585-1995,RA 2000	0.5 to 1.5
		Ethyl alcohol content	IS-7585-1995,RA 2000	1% to 100 %
		Total acids as tartaric acid	IS-7585-1995,RA 2000	0.1 g/l to 10 g/l
		Volatile acids as acetic acid	IS-7585-1995,RA 2000	0.1 g/l to 5 g/l
		Residue on evaporation	IS-7585-1995,RA 2000	0.1% to 10%
15.	Milk and Dairy products	Moisture	FSSAI manual for Milk and Milk products 2016 3.2	0.1% to 50%
		Total Ash	FSSAI manual for Milk and Milk products 2016 10.7	0.1% to 10%
		Acid insoluble ash	FSSAI manual for Milk and Milk products 2016 10.8	0.01% to 5%

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		Fat	EIA/KOL/LAB/CHEM/SOP/3 4 Issue no 01 dt 28.10.2016	0.1 % to 80%
		Protein	EIA/KOL/LAB/CHEM/SOP/1 6 Issue no 01 dt 02.11.2015	0.1% to 90%
		Titration acidity(ml 0.1N NaOH/10g solids not fat)	FSSAI manual for Milk and Milk products 2016	0.1 to 20
		Energy	EIA/KOL/LAB/CHEM/SOP/1 7 Issue no 01 dt 23.09.2015	5 KCal/100 g to 900 KCal/100 g
		Total solids	FSSAI manual for Milk and Milk products 2016 9.2	5 % to 95 %
		Detection of Starch in Milk	FSSAI manual for Milk and Milk products 2016 1.2.2	Qualitative (Present/ Absent)
		Sodium Chloride in Milk	FSSAI manual for Milk and Milk products 2016 1.2.8	Qualitative (Present/ Absent)
		Presence of Formalin in Milk	FSSAI manual for Milk and Milk products 2016 1.2.17	Qualitative (Present/ Absent)
		Milk protein in milk solids not fat	FSSAI manual for Milk and Milk products 2016 3.4	0.1% to 90%
		Milk Solids not fat	IS 1479: 1961 RA 2009 By Calculation	0.1% to 90%
		Crude Fibre	FSSAI manual for Milk and Milk products 2016 10.9	0.1% to 10 %
		Butyro Refractometer	FSSAI manual for Milk and Milk products 2016 13.3 / IS 3508:1966 RA 2003	30 to 60
		Refractive Index	FSSAI manual for Milk and Milk products 2016 13.3 / IS 3508:1966 RA 2003	1.4400 to 1.4700
		Acidity & Free Fatty Acid	FSSAI manual for Milk and Milk products 2016 10.4 & 13.4	0.1% to 10%
		Reichert-Meissel	FSSAI manual for Milk and Milk products 2016 13.5 / IS 3508:1966 RA 2003	10 to 40

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		Polenske Value	FSSAI manual for Milk and Milk products 2016 13.5 / IS 3508:1966 RA 2003	0.1 to 5
		Boudouins Test	FSSAI manual for Milk and Milk products 2016 13.6 / IS 3508:1966 RA 2003	Qualitative (Present/ Absent)
		Saponification value	IS 3508:1966 RA 2003	100 to 250
		Iodine value	IS 3508:1966 RA 2003	30 to 100
		Unsaponifiable matter	IS 3508:1966 RA 2003	0.1% to 10 %
		Peroxide value	IS 3508:1966 RA 2003	0.1 meq O ₂ /kg to 0.2 50 meq O ₂ /kg
16.	Ready to eat/ Ready to serve/ Ready to cook food/ Hot Cooked Meal	Energy	EIA/KOL/LAB/CHEM/SOP/1 7 Issue no 01 dt 23.09.2015	5 KCal/100 g to 900 KCal/100 g
		Protein	EIA/KOL/LAB/CHEM/SOP/1 6 Issue no 01 dt 02.11.2015	0.1% to 50%
17.	Food Additives & Preservatives	Assay	FSSAI Manual for Food Additives 2016/ FAO JECFA (2014) monograph (1,10,16)	80% to 100%
III.	NUTRACEUTICALS & FUNCTIONAL FOODS			
1.	Fortified Food, Food Supplements	Vitamin A (Retinol)	AOAC 2001.13, 20th Edition 2016	0.15 µg/g to 1 g/g
		Vitamin C (Ascorbic Acid)	IS 5838 : 1970 RA 2005	0.01 mg/100g to 10000 mg/100g
		Vitamin B1 (Thiamine)	EIA/KOL/LAB/CHEM/SOP/4 4 Issue No. 01, 05.02.2018	0.1 mg/100g to 1000 mg/100g
		Vitamin B2 (Riboflavin)		0.1 mg/100g to 1000 mg/100g
		Vitamin B3 (Niacin)		0.1 mg/100g to 1000 mg/100g
		Vitamin B9 (Folic Acid)		0.1 mg/100g to 1000 mg/100g

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IV.	ANIMAL FOOD & FEEDS			
1.	Animal Food & Feeds	Moisture	IS 7874 (Part 1)1975 RA 1990	1% to 50%
		Crude fat	IS 7874 (Part 1)1975 RA 1990	0.1% to 20%
		Crude Protein	IS 7874 (Part 1)1975 RA 1990	1% to 50%
		Crude fibre	IS 7874 (Part 1)1975 RA 1990	1% to 50%
		Total Ash	IS 7874 (Part1) 1975 RA 1990	1% to 25%
		Acid Insoluble Ash	IS 7874 (Part 1)1975 RA 1990	0.01% to 2%
V.	WATER			
1.	Water/Ice Processing for Food Industry & Drinking water	pH	EIA/KOL/LAB/CHEM/SOP/3 6 Issue no 01 dt 02.12.2016	4 to 10
		Sulphate as SO ₄	IS 3025 (Part 24)-1986, RA 2003	10 mg/l to 200 mg/l
		Fluoride as F	IS 3025 (Part 60)-2008,	1 mg/l to 5 mg/l
		Chloride as Cl	IS 3025 (Part 32)-1988, RA 2003	5 mg/l to 1000 mg/l
		Nitrate as NO ₃	IS 3025 (Part 34)-1988, RA 2003	0.5 mg/l to 0.025 mg/l
		Total Solids	IS 3025 (Part 16)-1984, RA 2006	10 mg/l to 10000 mg/l
		Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009	10 mg/l to 1000 mg/l
		Calcium as Ca	IS 3025 (Part 40)-1991, RA 2003	10 mg/l to 1000 mg/l
		Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1991, RA 2003	10 mg/l to 1000 mg/l

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		Magnesium	IS 3025 (Part 46)-1991, RA 2003	10 mg/l to 1000 mg/l
VI.	RESIDUES IN WATER			
1.	Water	Pesticide Residues		
		Malathion (sum of malathion and maloxon reported as Malathion)	EIA/KOL/SOP/CHEM/SOP/1 3 Issue no 01 dt. 02.11.2015	0.05 µg/l to 5000 µg/l
		Parathion methyl		0.05 µg/l to 5000 µg/l
		Fenitrothion		0.05 µg/l to 5000 µg/l
		Dichlorvos		0.05 µg/l to 5000 µg/l
		Diazinon		0.05 µg/l to 5000 µg/l
		Fenthion		0.05 µg/l to 5000 µg/l
		Deltamethrin		0.05 µg/l to 5000 µg/l
		Alpha-HCH		0.05 µg/l to 5000 µg/l
		Beta-HCH		0.05 µg/l to 5000 µg/l
		Gamma-HCH (Lindane)		0.05 µg/l to 5000 µg/l
		Delta HCH		0.05 µg/l to 5000 µg/l
		DDT-Total		0.05 µg/l to 5000 µg/l
		Phosalone		0.05 µg/l to 5000 µg/l
		Ethion		0.05 µg/l to 5000 µg/l
		Chlorpyrifos		0.05 µg/l to 5000 µg/l
		Cypermethrin		0.05 µg/l to 5000 µg/l
		Fenveralate		0.05 µg/l to 5000 µg/l
		Permethrin		0.05 µg/l to 5000 µg/l
		Aldrin		0.05 µg/l to 5000 µg/l
		Dieldrin		0.05 µg/l to 5000 µg/l
		Cis -Chlordane		0.05 µg/l to 5000 µg/l
		Trans- Chlordane		0.05 µg/l to 5000 µg/l
		Endrin		0.05 µg/l to 5000 µg/l

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		Endrin Aldehyde		0.05 µg/l to 5000 µg/l
		Endrin Ketone		0.05 µg/l to 5000 µg/l
		Methamidophos		0.05 µg/l to 5000 µg/l
		Tributylphosphate		0.05 µg/l to 5000 µg/l
		Pirimiphos methyl		0.05 µg/l to 5000 µg/l
		Methadithion		0.05 µg/l to 5000 µg/l
		Triphenylphosphate		0.05 µg/l to 5000 µg/l
		Azinphos – methyl		0.05 µg/l to 5000 µg/l
		Pyrazophos		0.05 µg/l to 5000 µg/l
		Phorate (Phorate including sum of phorate, phorate sulfone and Phorate sulfoxide)		0.05 µg/l to 5000 µg/l
		Monocrotophos		0.05 µg/l to 5000 µg/l
		Alachlor		0.05 µg/l to 5000 µg/l
		Atrazine		0.05 µg/l to 5000 µg/l
		Butachlor		0.05 µg/l to 5000 µg/l
		Endosulfan Total (alpha, beta and Sulphate)		0.05 µg/l to 5000 µg/l
		Isoproturon		0.05 µg/l to 5000 µg/l
		2,4 D		0.05 µg/l to 5000 µg/l
		Methyl parathion		0.05 µg/l to 5000 µg/l
		Methyl paraoxon		0.05 µg/l to 5000 µg/l
		Chlorpyrifos		0.05 µg/l to 5000 µg/l
		Heptachlor		0.05 µg/l to 5000 µg/l
		Heptachlor epoxide		0.05 µg/l to 5000 µg/l

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		Polycyclic Aromatic Hydrocarbons (PAH)		
		Acenaphthylene	EIA/KOL/SOP/CHEM/SOP/43, Issue No. 01, Issue Date 29.12.2017	0.05 µg/l to 5000 µg/l
		Fluorene		
		Phenanthrene		
		Anthracene		
		Pyrene		
		Benzo(a)anthracene		
		Chrysene		
		Benzo(b)fluoranthene		
		Benzo(k)fluoranthene		
		Benzo(a)pyrene		
		Dibenzo(a,h)anthracene		
		Benzo(g,h,i)perylene		
		Indeno(1,2,3-cd)pyrene		
		Trace metal elements		
		Boron (B)	EIA/KOL/LAB/CHEM/SOP/40 Issue no 01 dt. 10.11.2017	0.1 µg/l to 1000 µg/l
		Aluminium (Al)		2 µg/l to 1000 µg/l
		Mercury (Hg)		0.1 µg/l to 1000 µg/l
		Chromium (Cr)		2 µg/l to 1000 µg/l
		Manganese (Mn)		2 µg/l to 1000 µg/l
		Iron (Fe)		2 µg/l to 1000 µg/l
		Nickel (Ni)		2 µg/l to 1000 µg/l
		Copper (Cu)		0.1 µg/l to 1000 µg/l
		Zinc (Zn)		2 µg/l to 1000 µg/l
		Arsenic (As)		2 µg/l to 1000 µg/l
		Selenium (Se)		2 µg/l to 1000 µg/l
		Molybdenum (Mo)		2 µg/l to 1000 µg/l

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		Cadmium (Cd)		0.1 µg/l to 1000 µg/l
		Antimony (Sb)		0.1 µg/l to 1000 µg/l
		Lead (Pb)		2 µg/l to 1000 µg/l
VII.	RESIDUES IN FOOD PRODUCTS			
1.	Food & Agricultural products, marine/ aqua culture products	Mycotoxins		
		Aflatoxin Total (B1+B2+G1+G2)	EIA/KOL/LAB/CHEM/SOP/2 1 Issue no 01 dt. 02.11.2015	1.0 µg/kg to 50 µg/kg
2.	Marine/ Aqua culture food products	Antibiotics		
		Chloramphenicol	EIA/KOL/LAB/CHEM/SOP/0 1 Issue no 01 dt. 02.11.2015	0.15 µg/kg to 100 µg/kg
		Nitrofurans Metabolites		
		3- Amino-2-Oxalidinone (AOZ)	EIA/KOL/LAB/CHEM/SOP/0 2 Issue no 02 dt.10.11.2017	0.42 µg/kg to 100 µg/kg
		5-Methylmorpholino-3-Amino-2- Oxalidinone (AMAZ)		0.30 µg/kg to 100 µg/kg
		1-amino- hydantoin (AHD)		0.45 µg/kg to 100 µg/kg
		Semicarbazide (SEM)		0.50 µg/kg to 100 µg/kg
		Nitrofurans parent		
		Nitrofurazone	EIA/KOL/LAB/CHEM/SOP/0 3 Issue no 02 dt.02.11.2015 amended on 06.11.2017	0.30 µg/kg to 100 µg/kg
		Nitrofurantoin		0.30 µg/kg to 100 µg/kg
		Furazolidone		0.30 µg/kg to 100 µg/kg
		Furaltadone		0.20 µg/kg to 100 µg/kg
		Nitrovin		0.4 µg/kg to 100 µg/kg
		Sulfonamides, Tetracycline & its epimers, Quinolones & Anthelmintics		
	Sulfanilamide	EIA/KOL/LAB/CHEM/SOP/0 4 Issue no 01 dt.02.11.2015	5.0 µg/kg to 1500 µg/kg	
	Sulfadiazine		5.0 µg/kg to 1500 µg/kg	

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		Sulfapyridine	EIA/KOL/LAB/CHEM/SOP/04 Issue no 01 dt. 02.11.2015	5.0 µg/kg to 1500 µg/kg
		Sulfamethoxazole		5.0 µg/kg to 1500 µg/kg
		Sulfathiazole		5.0 µg/kg to 1500 µg/kg
		Sulfamerazine		5.0 µg/kg to 1500 µg/kg
		Sulfamethizole		5.0 µg/kg to 1500 µg/kg
		Sulfamethazine(Sulfamidine)		5.0 µg/kg to 1500 µg/kg
		Sulfamethoxypradizine		5.0 µg/kg to 1500 µg/kg
		Sulfachloropyradizine		5.0 µg/kg to 1500 µg/kg
		Sulfadoxine		5.0 µg/kg to 1500 µg/kg
		Sulfadimethoxine		5.0 µg/kg to 1500 µg/kg
		Tetracycline (Tetracycline expressed as sum of Tetracycline & 4 epi-Tetracycline)		5.0 µg/kg to 1500 µg/kg
		Oxytetracycline (Oxytetracycline expressed as sum of Oxytetracycline & 4 epi-Oxytetracycline)		5.0 µg/kg to 1500 µg/kg
		Chlortetracycline (Chlortetracycline expressed as sum of Chlortetracycline & 4 epi-Chlortetracycline)		5.0 µg/kg to 1500 µg/kg
		Oxolinic acid		10.0 µg/kg to 1500 µg/kg
		Sarafloxacin		10.0 µg/kg to 1500 µg/kg
		Enrofloxacin (Expressed as sum of Enrofloxacin & Ciprofloxacin)	10.0 µg/kg to 1500 µg/kg	

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		Flumequine		10.0 µg/kg to 1500 µg/kg
		Difloxacin		10.0 µg/kg to 1500 µg/kg
		Norfloxacin		10.0 µg/kg to 1500 µg/kg
		Danofloxacin		10.0 µg/kg to 1500 µg/kg
		Nalidixic acid		10.0 µg/kg to 1500 µg/kg
		Ivermectin & its isomers		10.0 µg/kg to 1500 µg/kg
		Dyes		
		Malachite green	EIA/KOL/LAB/CHEM/SOP/0	0.3 µg/kg to 100 µg/kg
		Leuco malachite green	5 Issue no 01 dt. 02.11.2015	0.3 µg/kg to 100 µg/kg
		Crystal violet		0.3 µg/kg to 100 µg/kg
		Leuco crystal violet		0.3 µg/kg to 100 µg/kg
		Nitroimidazoles		
		Ronidazole	EIA/KOL/SOP/CHEM/SOP/2	0.5 µg/kg to 25 µg/kg
		Metronidazole	5	0.5 µg/kg to 25 µg/kg
		Dimetridazole	Issue no 01 dt. 28.10.2016	0.5 µg/kg to 25 µg/kg
		Ipronidazole		0.5 µg/kg to 25 µg/kg
		HMMNI		0.5 µg/kg to 25 µg/kg
		Hydroxy Metronidazole		0.5 µg/kg to 25 µg/kg
		Hydroxy Ipronidazole		0.5 µg/kg to 25 µg/kg
3.	Marine/ Aqua culture food products	Pesticide Residue in Fish & Fishery Products		
		Aldrin & Dieldrin (expressed as Dieldrin)	EIA/KOL/LAB/CHEM/SOP/0	0.01 mg/kg to 10 mg/kg
		Endrin,	8 Issue no 01 dt. 02.11.2015	0.01 mg/kg to 10 mg/kg
		DDT-Total		0.01 mg/kg to 10 mg/kg
		HCH Alpha		0.01 mg/kg to 10 mg/kg
		HCH Beta		0.01 mg/kg to 10 mg/kg
		HCH Gamma		0.01 mg/kg to 10 mg/kg
		HCH Delta		0.01 mg/kg to 10 mg/kg
		Heptachlor		0.01 mg/kg to 10 mg/kg
		HCB		0.01 mg/kg to 10 mg/kg

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		Chlordane	EIA/KOL/LAB/CHEM/SOP/0	0.01 mg/kg to 10 mg/kg
		Heptachlor Epoxide	8 Issue no 01 dt. 02.11.2015	0.01 mg/kg to 10 mg/kg
		Chlorpyrifos	EIA/KOL/LAB/CHEM/SOP/4	0.01 mg/kg to 10 mg/kg
			5 Issue no 01 dt. 24.10.2017	
		Pendimethalin	EIA/KOL/LAB/CHEM/SOP/0	0.01 mg/kg to 10 mg/kg
		Trifluralin	7 Issue no 01 dt. 02.11.2015	0.01 mg/kg to 10 mg/kg
		Pesticide cum antioxidant in Fish & Fishery Products		
		Ethoxyquin	EIA/KOL/LAB/CHEM/SOP/0	50 µg/kg to 1500 µg/kg
			6 Issue no 01 dt. 02.11.2015	
		Non dioxin like PCB in Fish & Fishery Products		
		2,4,4'-PCB (PCB 28)	EIA/KOL/LAB/CHEM/SOP/3	0.01 mg/kg to 10 mg/kg
		2,2',5,5'-PCB (PCB 52)	1 Issue no 01 dt. 02.11.2015	0.01 mg/kg to 10 mg/kg
		2,2',4,5,5'-PCB (PCB 101)		0.01 mg/kg to 10 mg/kg
		2,2',3,4,4',5-PCB (PCB 138)		0.01 mg/kg to 10 mg/kg
		2,2',4,4',5,5'-PCB (PCB 153)		0.01 to 10 mg/kg
		2,2',3,4,4',5,5'-PCB (PCB 180)		0.01 mg/kg to 10 mg/kg
4.	Fruits & Vegetables	Pesticide Residue		
		HCH Alpha	EIA/KOL/LAB/CHEM/SOP/1	0.01 mg/kg to 100 mg/kg
		HCH Beta	2 Issue no 01 dt. 02.11.2015	0.01 mg/kg to 100 mg/kg
		HCH Gamma		0.01 mg/kg to 100 mg/kg
		HCH Delta		0.01 mg/kg to 100 mg/kg
		Aldrin & Dieldrin (expressed as Dieldrin)		0.01 mg/kg to 100 mg/kg
		Chlordane -alpha		0.01 mg/kg to 100 mg/kg
		Chlordane -Gamma		0.01 mg/kg to 100 mg/kg
		HCB		0.01 mg/kg to 100 mg/kg
		Parathion –ethyl		0.01 mg/kg to 100 mg/kg

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		Endosulfan-Total (Sum of Endosulfan-alpha, endosulfan-beta and endosulfan sulfate expressed as Endosulfan)	EIA/KOL/LAB/CHEM/SOP/1 2 Issue no 01 dt. 02.11.2015	0.01 mg/kg to 100 mg/kg
		Dicofol		0.01 mg/kg to 100 mg/kg
		DDT-Total		0.01 mg/kg to 100 mg/kg
		Chlorpyrifos		0.01 mg/kg to 100 mg/kg
		Dichlorovos		0.01 mg/kg to 100 mg/kg
		Dimethoate		0.01 mg/kg to 100 mg/kg
		Ethion		0.01 mg/kg to 100 mg/kg
		Malathion (sum of malathion and maloxon reported as Malathion)		0.01 mg/kg to 100 mg/kg
		Parathion-ME		0.01 mg/kg to 100 mg/kg
		Quinolfos		0.01 mg/kg to 100 mg/kg
		Triazofos		0.01 mg/kg to 100 mg/kg
		Profenofos		0.01 mg/kg to 100 mg/kg
		4-bromo-2-chlorophenol		0.01 mg/kg to 100 mg/kg
		Chlorpyrifos-ME		0.01 mg/kg to 100 mg/kg
		Cypermethrin-alpha		0.01 mg/kg to 100 mg/kg
		Bifenthrin		0.01 mg/kg to 100 mg/kg
		Deltamethrin		0.01 mg/kg to 100 mg/kg
		Fenpropathrin		0.01 mg/kg to 100 mg/kg
		Fenvalerate		0.01 mg/kg to 100 mg/kg
		Cyhalothrin-L		0.01 mg/kg to 100 mg/kg
		Carbaryl		0.01 mg/kg to 100 mg/kg
		Phosalone		0.01 mg/kg to 100 mg/kg
		Fenitrothion		0.01 mg/kg to 100 mg/kg

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		Paraxon	EIA/KOL/LAB/CHEM/SOP/1 2 Issue no 01 dt. 02.11.2015	0.01 mg/kg to 100 mg/kg
		Phosphamidon		0.01 mg/kg to 100 mg/kg
		Carbofuran		0.01 mg/kg to 100 mg/kg
		Methomyl		0.01 mg/kg to 100 mg/kg
		Imidacloprid		0.01 mg/kg to 100 mg/kg
		Phorate(Sum of Phorat- sulfoxide & Phorat- sulfone expressed as phorate)		0.01 mg/kg to 100 mg/kg
		Thiodicarb		0.01 mg/kg to 100 mg/kg
		Thiocloprid		0.01 mg/kg to 100 mg/kg
		Carbosulfan		0.01 mg/kg to 100 mg/kg
		Thiamethaxam		0.01 mg/kg to 100 mg/kg
		Acetamiprid		0.01 mg/kg to 100 mg/kg
		Spinosad (Sum of Spinosad A and Spinosad D expressed as Spinosad)		0.01 mg/kg to 100 mg/kg
		Flubendiamide		0.01 mg/kg to 100 mg/kg
		Indoxacarb		0.01 mg/kg to 100 mg/kg
		Emamectin benzoate		0.01 mg/kg to 100 mg/kg
		Cartap hydrochloride		0.01 mg/kg to 100 mg/kg
		Methamidophos		0.01 mg/kg to 100 mg/kg
		Acephate		0.01 mg/kg to 100 mg/kg
		Omethoate		0.01 mg/kg to 100 mg/kg
		Monocrotophos		0.01 mg/kg to 100 mg/kg
		Methidathion	0.01 mg/kg to 100 mg/kg	
		Chlorantraniliprole	0.01 mg/kg to 100 mg/kg	

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5.	Food Grains, Pulses, Cereals & by products	Pesticide Residue		
		Aldrin & Dieldrin expressed as Dieldrin	EIA/KOL/LAB/CHEM/SOP/09	0.01 mg/kg to 50 mg/kg
		Endrin	Issue no 01 dt. 02.11.2015	0.01 mg/kg to 50 mg/kg
		DDT-Total		0.01 mg/kg to 50 mg/kg
		HCH Alpha		0.01 mg/kg to 50 mg/kg
		HCH Beta		0.01 mg/kg to 50 mg/kg
		HCH Gamma		0.01 mg/kg to 50 mg/kg
		HCH Delta		0.01 mg/kg to 50 mg/kg
		Heptachlor		0.01 mg/kg to 50 mg/kg
		HCB		0.01 mg/kg to 50 mg/kg
		Chlordane (sum of cis and trans)		0.01 mg/kg to 50 mg/kg
Heptachlor Epoxide		0.01 mg/kg to 50 mg/kg		
6.	Tea, Coffee, Cocoa and by products	Pesticide Residues		
		Cypermethrin	EIA/KOL/LAB /CHEM/SOP/30	0.01 mg/kg to 100 mg/kg
		o,p DDT	Issue no 01 dt. 02.11.2015	0.01 mg/kg to 100 mg/kg
		p,p DDT		0.01 mg/kg to 100 mg/kg
		Dicofol		0.01 mg/kg to 100 mg/kg
		Ethion		0.01 mg/kg to 100 mg/kg
		Quinalphos		0.01 mg/kg to 100 mg/kg
		Permethrin		0.01 mg/kg to 100 mg/kg
		Methidathion		0.01 mg/kg to 100 mg/kg
		Malathion		0.01 mg/kg to 100 mg/kg
		Propargite		0.01 mg/kg to 100 mg/kg
		Chlorpyrifos		0.01 mg/kg to 100 mg/kg
		Chlorpyrifos-methyl		0.01 mg/kg to 100 mg/kg
		Fenpropathrin		0.01 mg/kg to 100 mg/kg
		Deltamethrin		0.01 mg/kg to 100 mg/kg
Monocrotophos		0.01 mg/kg to 100 mg/kg		
Fenzaquin		0.01 mg/kg to 100 mg/kg		

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		Fenpyroximate	EIA/KOL/LAB /CHEM/SOP/30 Issue no 01 dt. 02.11.2015	0.01 mg/kg to 100 mg/kg
		Acephate		0.01 mg/kg to 100 mg/kg
		Imidacloprid		0.01 mg/kg to 100 mg/kg
		Acetamiprid		0.01 mg/kg to 100 mg/kg
		Glyphosate		0.01 mg/kg to 100 mg/kg
		Glufosinate-Ammonium		0.01 mg/kg to 100 mg/kg
		Hexaconazole		0.01 mg/kg to 100 mg/kg
		Propiconazole		0.01 mg/kg to 100 mg/kg
		Diazinon		0.01 mg/kg to 100 mg/kg
		Fenamiphos		0.01 mg/kg to 100 mg/kg
		Thiamethoxam		0.01 mg/kg to 100 mg/kg
		Flubendamide		0.01 mg/kg to 100 mg/kg
		Bifenthrin		0.01 mg/kg to 100 mg/kg
		Thiacloprid		0.01 mg/kg to 100 mg/kg
		Cyhalothrin		0.01 mg/kg to 100 mg/kg
		Profenofos		0.01 mg/kg to 100 mg/kg
		Phosphamidon	0.01 mg/kg to 100 mg/kg	
		Dimethoate	0.01 mg/kg to 100 mg/kg	
7.	Carbonated water, Soft Drinks, flavored drinks	Pesticide Residues	EIA/KOL/SOP/CHEM/SOP/2 4 Issue no 01 dt. 02.11.2015	
		Malathion		0.05 µg/l to 5000 µg/l
		Parathion methyl		0.05 µg/l to 5000 µg/l
		Fenitrothion		0.05 µg/l to 5000 µg/l
		Dichlorvos		0.05 µg/l to 5000 µg/l
		Diazinon		0.05 µg/l to 5000 µg/l
		Fenthion		0.05 µg/l to 5000 µg/l
		Deltamethrin		0.05 µg/l to 5000 µg/l
		Alpha-HCH		0.05 µg/l to 5000 µg/l
		Beta-HCH		
		Gamma-HCH		
		Delta HCH		

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		DDT-Total	EIA/KOL/SOP/CHEM/SOP/24	0.05 µg/l to 5000 µg/l
		Phosalone	Issue no 01 dt. 02.11.2015	0.05 µg/l to 5000 µg/l
		Ethion		0.05 µg/l to 5000 µg/l
		Chlorpyriphos		0.05 µg/l to 5000 µg/l
		Cypermethrin		0.05 µg/l to 5000 µg/l
		Fenveralate		0.05 µg/l to 5000 µg/l
		Permethrin		0.05 µg/l to 5000 µg/l
		Aldrin		0.05 µg/l to 5000 µg/l
		Dieldrin		0.05 µg/l to 5000 µg/l
		Cis -Chlordane		0.05 µg/l to 5000 µg/l
		Trans- Chlordane		
		Endrin		
		Endrin Aldehyde		0.05 µg/l to 5000 µg/l
		Endrin Ketone		
		Methamidophos		0.05 µg/l to 5000 µg/l
		Tributylphosphate		0.05 µg/l to 5000 µg/l
		Pirimiphos methyl		0.05 µg/l to 5000 µg/l
		Methadithion		0.05 µg/l to 5000 µg/l
		Triphenylphosphate		0.05 µg/l to 5000 µg/l
		Azinphos – methyl		0.05 µg/l to 5000 µg/l
		Pyrazophos		0.05 µg/l to 5000 µg/l
8.		Trace metal elements		
8a.	Marine/ Aqua culture food products	Arsenic (As)	EIA/KOL/LAB/CHEM/SOP/10 Issue no 01 dt.02.08.2015/	0.1 mg/kg to 25 mg/kg 0.025 mg/kg to 100 mg/kg
		Cadmium (Cd)	EIA/KOL/LAB/CHEM/SOP/41 Issue no 01 dt. 21.08.2017	0.02 mg/kg to 25mg/kg 0.015 mg/kg to 100 mg/kg
		Lead (Pb)		0.06 mg/kg to 25 mg/kg 0.01 mg/kg to 100 mg/kg

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		Mercury (Hg)	EIA/KOL/LAB/CHEM/SOP/10 Issue no 01 dt.02.08.2015/	0.1 mg/kg to 25mg/kg 0.015 mg/kg to 100 mg/kg
		Chromium(Cr)	EIA/KOL/LAB/CHEM/SOP/41 Issue no 01 dt. 21.08.2017	0.1 mg/kg to 25 mg/kg 0.015 mg/kg to 100 mg/kg
		Nickel(Ni)		0.1 mg/kg to 25 mg/kg 0.015 mg/kg to 100 mg/kg
		Methyl Mercury (MeHg)	EIA/KOL/SOP/CHEM/SOP/42 , Issue No 01 dt.29.12.2017	0.025 mg/kg to 100 mg/kg
8b.	Food & Agricultural products	Mercury (Hg)	EIA/KOL/LAB/CHEM/SOP/11, Issue no 02 dt.15.02.2018	0.025 mg/kg to 25 mg/kg
		Arsenic (As)		0.05 mg/kg to 25 mg/kg
		Lead (Pb)		0.05 mg/kg to 25 mg/kg
		Cadmium (Cd)		0.05 mg/kg to 25 mg/kg
		Copper (Cu)		0.5 mg/kg to 25 mg/kg
		Zinc (Zn)		0.5 mg/kg to 25 mg/kg
		Iron (Fe)		0.5 mg/kg to 25 mg/kg
		Tin(Sn)		0.1 mg/kg to 25 mg/kg
8c.	Cereal, Pulses & Cereals products	Arsenic (As)	EIA/KOL/LAB/CHEM/SOP/11, Issue no 02 dt.15.02.2018	0.1 mg/kg to 2.5 mg/kg
		Inorganic Arsenic	EIA/KOL/LAB/CHEM/SOP/28, Issue no 02 dt.29.12.2017	0.02 mg/kg to 2.5 mg/kg
8d.	Honey & Honey Based Products	Lead (Pb)	EIA/KOL/LAB/CHEM/SOP/11, Issue no 02 dt.15.02.2018	0.05 mg/kg to 25 mg/kg
		Cadmium (Cd)		0.05 mg/kg to 25 mg/kg
8e.	Starch and starchy products	Mercury (Hg)	EIA/KOL/LAB/CHEM/SOP/11, Issue no 02 dt.15.02.2018	0.05 mg/kg to 25 mg/kg
		Arsenic (As)		0.05 mg/kg to 25 mg/kg
		Lead (Pb)		0.05 mg/kg to 25 mg/kg
		Cadmium (Cd)		0.05 mg/kg to 25 mg/kg
		Zinc (Zn)		5 mg/kg to 25 mg/kg
		Copper (Cu)		0.5 mg/kg to 25 mg/kg

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8f.	Tea, Coffee, cocoa and by products	Mercury (Hg)	EIA/KOL/LAB/CHEM/SOP/11, Issue no 02 dt.15.02.2018	0.025 mg/kg to 25 mg/kg
		Arsenic (As)		0.05 mg/kg to 25 mg/kg
		Cadmium (Cd)		0.05 mg/kg to 25 mg/kg
		Lead (Pb)		0.5 mg/kg to 25 mg/kg
		Copper (Cu)		5 mg/kg to 50 mg/kg
8g.	Beverage (Alcoholic & Non-Alcoholic)	Mercury (Hg)	EIA/KOL/LAB/CHEM/SOP/11, Issue no 02 dt.15.02.2018	0.02 mg/l to 25 mg/l
		Arsenic (As)		0.05 mg/l to 25 mg/l
		Lead (Pb)		0.05 mg/l to 25 mg/l
		Cadmium (Cd)		0.05 mg/l to 25 mg/l
		Copper (Cu)		0.5 mg/l to 25 mg/l
		Zinc (Zn)		0.5 mg/l to 25 mg/l
		Iron (Fe)		0.5 mg/l to 25 mg/l
Tin(Sn)	0.1 mg/l to 25 mg/l			
8h.	Food Additives & Preservatives	Lead (Pb)	EIA/KOL/LAB/CHEM/SOP/11, Issue no 02 dt.15.02.2018	0.05 mg/l to 25 mg/kg
		Arsenic (As)		0.05 mg/l to 25 mg/kg
8i.	Oils and fats	Mercury (Hg)	EIA/KOL/LAB/CHEM/SOP/11, Issue no 02 dt.15.02.2018	0.05 mg/l to 25 mg/kg
		Arsenic (As)		0.05 mg/l to 25 mg/ kg
		Lead (Pb)		0.05 mg/l to 25 mg/ kg
		Cadmium (Cd)		0.05 mg/l to 25 mg/ kg
		Nickel (Ni)		0.15 mg/kg to 25 mg/kg
		Copper (Cu)		0.05 mg/l to 25 mg/ kg