

**Laboratory** Doctors' Analytical Laboratories Pvt. Ltd., R-809, TTC, MIDC, Rabale, Thane-Belapur Road, Navi Mumbai, Maharashtra

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-7632 (in lieu of T-1313, T-1312) **Page 1 of 53**

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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.	WATER			
1.	Packaged Drinking water, Packaged natural mineral water	Escherichia coli	IS 15185:2016 / IS 5887 (Part - 1):1976 (RA 2013)	Qualitative Present/Absent per 250 ml
		Coliform	IS 15185:2016 / IS 5401 (PART 1) 2002 (RA 2012)	≥1 cfu per250 ml Qualitative Present/ Absent per 250ml
		Staphylococcus aureus	IS 5887 (Part 2) 1976 (RA 2013)	Qualitative Present/Absent per 250 ml
		Sulphite reducing anaerobes	IS 13428:2005 (RA 2014)	Qualitative Present/Absent per 250 ml
		Pseudomonas aeruginosa	IS 13428:2005 (RA 2014)	Qualitative Present/Absent per 250 ml
		Salmonella spp.	IS 15187:2016 IS 5887: 1999, (Part 3) (RA 2013)	Qualitative Present/Absent per 250 ml
		Shigella spp.	IS 5887 (Part 7): 1999 (RA 2013)	Qualitative Present/Absent per 250ml
		Vibrio cholera & Vibrio parahaemolyticus	IS 5887(Part 5) 1976 (RA 2013)	Qualitative Present/Absent per 250 ml



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<b>II.</b>	<b>FOOD AND AGRICULTURAL PRODUCTS</b>			
<b>1.</b>	<b>Cereals, Pulses And Cereal Products</b>	Total plate count/ Total Viable count/ Aerobic plate count	IS 5402 – 2012	≥10 cfu / g
	<b>a. Wheat Flour for Bakery Industry</b>	Coliform Count	IS 5401 (Part 1) 2002 RA 2012	≥10 cfu / g
	<b>b. Atta</b>	E. coli (Detection)	S 5887(Part 1)1976 RA 2013	Qualitative Present/Absent per g
	<b>c. Rava</b>	E. coli (Enumeration)	IS 5887(Part 1)1976 RA 2013	≥10 cfu/ g <0.3 to >110 /g by MPN
	<b>d. Maida</b>	Yeast & Mould Count	IS 5403 -1999 RA 2013	≥10 cfu/g
	<b>e. Besan</b>	S. aureus (Enumeration)	IS 5887(Part 8/Sec.1) 2002, RA 2018 ISO 6888-1 : 1999	≥10cfu / 0.1 g, per g
	<b>f. Corn flex</b>	Staphylococcus aureus	IS 5887(Part 2 ) 1976 RA 2013 ISO 6888-1 : 1999	Qualitative Present/Absent per g
	<b>g. Corn flour</b>	Faecal streptococci	IS 5887 (Part 2) - 1976 RA 2013	Qualitative Present/Absent per g
	<b>h. Malted Food</b>	Salmonella spp.	IS 5887 (Part -3)1999 RA 2013	Qualitative Present/Absent per 25g
		Rope spore count	IS 7463 –2004 RA 2013	≥10 cfu/g
		Vibrio cholerae V. parahaemolyticus	IS 5887(Part 5) 1976 RA 2013	Qualitative Present/Absent per 0.1g, per g, and per 25g
		Shigella spp.	IS 5887 (Part 7) 1999 RA 2013	Qualitative Present/Absent per 25 g

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2.	<b>Spices &amp; Condiments Spices Whole Ground Or Their Mixes And Their Products, Oleoresins a. Chilli b. Cumin c. Pepper d. Turmeric e. Coriander</b>	Total Viable count/ Aerobic plate count	IS 5402 – 2012	≥10 cfu/g
		Yeast & Mould count	IS 5403 – 1999 RA 2013	≥10 cfu/g
		Coliform count	IS 5401 (Part 1) 2002 RA 2012 IS 5401 (Part 2) 2012	≥10 cfu/g <0.2 to >180 org/g (MPN)
		E. coli (Isolation)	IS 5887(Part 1)1976 RA 2013	Qualitative Present/Absent per g
		E. coli (Enumeration)	IS 5887(Part 1)1976 RA 2013	≥10 cfu/ g <0.3 to >110 /g (MPN)
		Salmonella	IS 5887 (Part 3) 1999 RA 2013	Qualitative Present/Absent/25g
		S. aureus (Enumeration)	IS 5887(Part 8/Sec.1) 2002, RA 2018 ISO 6888-1 : 1999	≥10 cfu/ g
		S. aureus (Isolation)	IS 5887(Part 2) 1976 RA 2013	Qualitative Present/Absent per g
		Shigella	IS 5887 (Part 7) 1999 RA 2013	Qualitative Present/Absent per g
		Anaerobic Spore Count (Clostridium spp.)	IS 5887 (Part 4) 1999 RA 2018	Qualitative Present/Absent per g ≥10 cfu/ g and above
		Listeria monocytogenes	IS 14988 (Part 1) 2001 RA 2018	Qualitative Present/ Absent

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3.	<b>Agricultural produce and Their products</b> <b>a. Fruit and Fruit Products, Juices</b> <b>b. Pulps, Jams, Pastes, Sauces,</b> <b>c. Thermally processed Fruit</b> <b>d. Oil seeds &amp; their by products like Soybean Meal</b> <b>e. Tea, Coffee, Cocoa &amp; their products</b> <b>f. Dry Premixes of Tea/Coffee &amp; Soup</b>	Total Viable count/ Total plate count/ Aerobic plate count	IS 5402 – 2012	≥10 cfu/g
		Yeast & Mould count	IS 5403 – 1999 RA 2013	≥10 cfu/g
		Coliform count	IS 5401 (Part 1) 2002 RA 2012 IS 5401 (Part 2) 2012	≥10 cfu/g <0.2 to >180 org/g (MPN)
		E. coli (Enumeration)	IS 5887 (Part 1) 1976 RA 2013	≥10 cfu/ g and above <0.3 to 110 /g MPN
		Salmonella	IS 5887 (Part 3) 1999 RA 2013 ISO:6579:2002	Qualitative Present/ Absent per25g Present/ Absent per25g
		S.aureus (Enumeration)	IS 5887(Part 8/Sec.1) 2002, RA 2018	≥10cfu / g
		S. aureus (Isolation)	IS 5887(Part 2) 1976 RA 2013	Qualitative Present/ Absent per g
		Shigella	IS 5887 (Part 7) 1999 RA 2013	Qualitative Present/Absent per 25g
		Aciduric Flat Sour Organisms	AOAC 20th Edition 2016 Chapter 17. 17.6.03 , page 116 -117	Qualitative Present/Absent per g
		Thermophilic Flat Sour Organisms (Clostridium thermosaccharolyticum)	AOAC 20th Edition 2016 Chapter 17. 17.6.03 page 116 – 117	Qualitative Present/Absent per g
		(Thermophilic Anaerobic Spore Formers (C. nigrificans)	AOAC 20th Edition 2016 Chapter 17. 17.6.03, page 116 - 117	Qualitative Present/Absent per g
	Vibrio cholerae	IS 5887(Part-5) 1976 RA 2013	Present/Absent per g	

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4.	<b>Dairy Products</b> <b>a. Milk Cereal Based Weaning Foods</b>	Total plate count/ Total Bacterial count/ Aerobic plate count	IS 5402-2012	≥10 cfu / g
		Coliform Count	IS 5401 (Part 1) 2002 RA 2012	≥10 cfu / g
	<b>b. Soya/ Nutritional Supplements</b>	Escherichia coli (Isolation)	IS 5887(Part 1) 1976 RA 2013	Qualitative Present/Absent per g
		Escherichia coli (Enumeration)	IS 5887(Part I)1976 RA 2013	≥10cfu / g
	<b>c. Milk Based Beverages</b>	Yeast & Mould Count	IS 5403-1999 RA 2013	≥10cfu / g
		<b>d. Dairy Based Beverage Mix</b> S.aureus (Enumeration)	IS 5887(Part 8/Sec.1) 2002, RA 2018	≥10cfu / g
	Salmonella	IS : 5887 (Part 3) 1999 RA 2013	Qualitative Present/ Absent per 25 g	
	Shigella	IS 5887 (Part 7) 1999 RA 2013	Qualitative Present/Absent per 25 g	
	Enterobacteriaceae	IS/ISO 7402:1993 RA 2018	<0.3 to 110 MPN/g <1 to 10cfu/ml	
	Staphylococcus aureus (Isolation)	IS 5887(Part 2)1976 RA 2013	Qualitative Present/ Absent per g	
5.	<b>Milk &amp; Milk Products &amp; Traditional Sweets &amp; Mithai</b>	Total Viable count/ Total Bacterial count/ Aerobic plate count	IS 5402 – 2012	≥10 cfu / g or ≥1 cfu per ml
		Yeast & Mould count	IS 5403- 1999 RA 2013	≥10 cfu / g or ≥1 cfu per ml
	<b>a. Cheese</b>	Coliform count	IS 5401 (Part 1) 2002 RA 2012	≥10 cfu / g or ≥1 cfu per ml
	<b>b. Paneer</b>	E. coli (Isolation)	IS 5887(Part 1) 1976 RA 2013	Qualitative Present/ Absent per g
	<b>c. Khoya</b>	E. coli (Enumeration)	IS 5887(Part 1) 1976 RA 2013	≥10 cfu / g or ≥1 cfu/ml
	<b>d.Curd/Yoghurt</b>	Salmonella	IS 5887 (Part 3) 1999 RA 2013	Qualitative Present/Absent per 25g, ml
	<b>e. Butter Milk</b>			
	<b>f. Lassi</b>			
	<b>g. Shrikhand</b>			
	<b>h. Cream</b>			
<b>i. Butter</b>				
<b>j. Milk Powders</b>				
<b>k. Whey Powder</b>				

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	I. Casein m. Ice cream n. Frozen desserts	S. aureus (Enumeration)	IS 5887(Part 8/Sec.1) 2002 RA 2018	≥10 cfu / g or ≥1 cfu per ml
		S. aureus (Isolation)	IS 5887(Part 2) 1976 RA 2013	Qualitative Present/ Absent per g, ml
		Shigella	IS 5887 (Part 7) 1999 RA 2013	Qualitative Present/ Absent per g, ml
		Listeria monocytogenes	IS 14988 (Part 1) 2001 RA 2018	Qualitative Present/ Absent per g, ml
		Clostridium perfringens	IS 5887 (Part 4) 1999 RA 2018	Qualitative Present/ Absent per g, ml
		Aerobic Spore Count (B. cereus)	IS 5887 (Part 6) 2012 RA 2018	≥10 cfu/ g and above
		Lactic Acid Bacteria	IS 12899: 1989 RA 2014	≥10 cfu/ g, ml and above
		Aciduric Flat Sour Organisms (Bacillus stereoothermophilus )	AOAC 20th Edition 2016 Chapter 17. 17.6.03 , page 116 -117	Qualitative Present/ Absent per g, ml
		Thermophilic Flat Sour Organisms (Clostridium thermosaccharolyticum )	AOAC 20th Edition 2016 Chapter 17. 17.6.03 , page 116 -117	Qualitative Present/ Absent per g, ml
		Thermophilic Anaerobic Spore Formers (C. nigrificans)	AOAC 20th Edition 2016 Chapter 17. 17.6.03 , page 116 -117	Qualitative Present/ Absent per g, ml
6.	Beverages alcoholic & Non-alcoholic a. Carbonated/ Non-Carbonated Soft Drinks	Total plate count	IS 5402-2012	≥1 cfu/ml
		Coliform Count	IS 5401(Part 1) 2002 RA 2012	≥1 cfu/ml
		Yeast & Mould Count	IS 5403-1999 RA 2013	≥1 cfu/ml

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	b. Dairy Based Beverages c. Alcoholic Drinks & Beverages d. Fruit Beverages e. Ready-to-Serve Beverages f. Synthetic Beverages and products	Vibrio Cholera Vibrio parahaemolyticus	IS 5887 (Part 5) 1976 RA 2013	Qualitative Present/ Absent per ml, g
7.	Marine products Fish Shrimp Processed marine Products	Total plate count/ Aerobic plate count	IS 5402 – 2012	≥10 cfu/g
		Yeast & Mould Count	IS 5403-1999 RA 2013	≥10 cfu/g
		E. coli (Isolation)	IS 5887(Part 1) 1976 RA 2013	Qualitative Present/ Absent per g, ml
		E. coli (Enumeration)	IS 5887(Part 1) 1976 RA2013	≥10 cfu/ g and above <0.3 to >110 /g MPN
		Vibrio cholera	IS 5887(Part 5) 1976 RA 2013	Qualitative Present /Absent per 25 g
		Listeria monocytogenes	IS 14988 (Part 1) 2001 RA 2018	Qualitative Present /Absent per 25 g
		Anaerobic Spore Count (Clostridium spp.)	IS 5887 (Part 4) 1999 RA 2018	Qualitative Present /Absent per g
		Salmonella	IS 5887(Part 3) 1999 RA 2013	Qualitative Present /Absent per 25 g



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		S. aureus (Enumeration)	IS 5887(Part 8/Sec.1) 2002, RA 2018	≥10cfu / g
8.	<b>Meat and Meat Products Chicken</b>	Total plate count/ Aerobic plate count	IS 5402 – 2012	≥10cfu/g
		Yeast & Mould Count	IS 5403-1999 RA 2013	≥10cfu/g
		E. coli (Isolation)	IS 5887(Part 1) 1976 RA2013	Qualitative Present /Absent per g
		E. coli (Enumeration)	IS 5887(Part 1) 1976 RA2013	≥10cfu / g and above <0.3 to >110 /g MPN
		Vibrio cholerae	IS 5887(Part -5) 1976 RA 2013	Qualitative Present /Absent per 25 g
		Listeria monocytogenes	IS 14988 (Part 1) 2001 RA 2018	Qualitative Present /Absent per 25 g
		Sulphite Reducing Clostridia	IS 5887 (Part -4) 1999 RA 2018	Qualitative Present /Absent per 25 g ≥10cfu/g
		Salmonella spp.	IS 5887(Part 3) 1999 RA 2013	Qualitative Present /Absent per 25 g
		S. aureus (Enumeration)	IS 5887(Part 8/Sec.1) 2002, RA 2018	≥10cfu / g
9.	<b>Bakery and Confectionary and sugar products a. Biscuits b. Bread c. Puffs d. Cakes e. Candies</b>	Total plate count	IS 5402-2012	≥10 cfu/g
		Yeast &Mould Count	IS 5403-1999 RA 2013	≥10 cfu/g
		Coliform Count	IS 5401 (Part 1) 2002 RA 2012	≥10 cfu/g
		E. coli (Isolation)	IS 5887(Part 1)1976 RA 2013	Qualitative Present /Absent per g
		Salmonella spp	IS 5887 (Part 3) 1999 RA 2013	Qualitative Present /Absent per 25 g
		Enterobacteriaceae	IS/ISO 7402:1993 RA 2018	<0.3 to >110 MPN/g ≥10 cfu/g

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		S. aureus (Enumeration)	IS 5887(Part 8/Sec.1) 2002, RA 2018	≥10 cfu/g
		Staphylococcus aureus (Isolation)	IS 5887(Part 2) 1976 RA 2013	Qualitative Present /Absent per g
		Clostridium Spp	IS 5887 (Part 4) 1999 RA 2018	Qualitative Present /Absent per 25 g
		B. cereus	IS 5887 (Part 6 ) 2012 RA 2018	Qualitative Present /Absent per g
10.	<b>Nut And Nut Products</b> <b>a. Dry Fruits</b> <b>b. Raisins</b> <b>c. Pista</b> <b>d. Dates</b> <b>e. Almond</b> <b>f. Cashew</b> <b>g. Nuts</b>	Total plate count	IS 5402-2012	≥10 cfu/g
		Yeast & Mould Count	IS 5403-1999 RA 2013	≥10 cfu/g
		Coliform Count	IS : 5401 (Part 1) 2002 RA 2012	≥10 cfu/g
		E. coli (Isolation)	IS 5887(Part 1)1976 RA 2013	Qualitative Present /Absent per g
		E. coli (Enumeration)	IS 5887(Part 1)1976 RA 2013	≥10 cfu/g
		Salmonella Spp	IS 5887 (Part 3) 1999 RA 2013	Qualitative Present /Absent per 25 g
		Shigella Spp	IS 5887 (Part 7) 1999 RA 2013	Qualitative Present /Absent per 25 g
		Clostridium Spp	IS 5887 (Part 4) 1999 RA 2018	Qualitative Present /Absent per 25 g
		Vibrio cholerae	IS 5887(Part 5) 1976 RA 2013	Qualitative Present /Absent per g
		Staphylococcus aureus (Isolation)	IS 5887(Part 2) 1976 RA2013	Qualitative Present /Absent per g
11.	<b>Snack foods/ namkeen/ Ready to eat food</b> <b>a. Chivda</b> <b>b. Bhujiya</b> <b>c. Spiced Puffed Cereals</b>	Total plate count/	IS 5402-2012	≥10 cfu/g
		Yeast & Mould Count	IS 5403-1999 RA 2013	≥10 cfu/g
		Coliform Count	IS 5401 (Part 1) 2002 RA 2012	≥10 cfu/g
		E. coli (Isolation)	IS 5887(Part 1) 1976 RA 2013	Qualitative Present /Absent per g
		Salmonella Spp.	IS 5887 (Part 3) 1999 RA 2013	Qualitative Present /Absent per 25 g

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12.	Oils & Fats (Ghee)	Total Plate Count	IS 5402-2012	≥1 cfu/ml
		Yeast & Mould Count	IS 5403-1999 RA 2013	≥1 cfu/ml
13.	Cooked Food a. Daal b. Rice c. Sabji d. Roti e. Salad f. Raita	Total Plate Count	IS 5402-2012	≥10 cfu/g
		Coliform Count	IS 5401 (Part 1) 2002 RA 2012	≥10 cfu/g
		E. coli (Isolation)	IS 5887(Part 1)1976 RA 2013	Qualitative Present /Absent per g
		Salmonella Spp	IS 5887 (Part 3) 1999 RA 2013	Qualitative Present /Absent per 25 g
		Staphylococcus aureus (Isolation)	IS 5887(PART 2)1976 RA 2013	Qualitative Present /Absent per g
<b>III.</b>	<b>DRUGS AND PHARMACEUTICALS</b>			
1.	Raw Materials, Bulk/ Finished Products/ Formulations a. API b. Vitamins c. Tablets d. Starch e. Excipients	Total Aerobic Microbial Count	IP 2014 Method 2.2.9 BP 2015 Appendix XVI B USP41 NF 36 Chapter 61	≥10 cfu/g, ml
		Yeast and Mould count	IP 2014 Method 2.2.9 BP 2015 Appendix XVI B USP41 NF 36 Chapter 61	≥10 cfu/g, ml
		Escherichia coli (Isolation)	IP 2014 Method 2.2.9 BP 2015 Appendix XVI B USP41 NF 36 Chapter 62	Qualitative Present /Absent per g
		Salmonella Spp	IP 2014 Method 2.2.9 BP 2015 Appendix XVI B USP41 NF 36 Chapter 62	Qualitative Present /Absent per 25 g
		Pseudomonas aeruginosa	IP 2014 Method 2.2.9 BP 2015 Appendix XVI B USP41 NF 36 Chapter 62	Qualitative Present /Absent per g
		Staphylococcus aureus (Isolation)	IP 2014 Method 2.2.9 BP 2015 Appendix XVI B USP41 NF 36 Chapter 62	Qualitative Present /Absent per g
		Enterobacteria & certain other gram negative organisms	IP 2014 Method 2.2.9 BP 2015 Appendix XVI B USP41 NF 36 Chapter 62	Qualitative Present /Absent per g

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	f. Oral Suspension g. Cream h. Lotions	Preservative Efficacy test	IP 2014 Method 2.2.2 BP 2015 Appendix XVI C USP41 NF 36 Chapter 51	≥0 cfu/ml, g
2.	Injectables, Water, Raw materials, Bulk products, Finished products	Endotoxin Detection by GEL Clot method (LAL Testing)	IP 2014 Method 2.2.3 BP 2015 Appendix XVI C USP 41 NF 36 Chapter 85	Lysate Sensitivity 0.125 EU/ml or more Semi-quantitative method reported as NMT or NLT
IV.	<b>COSMETICS AND ESSENTIAL OILS</b>			
1	Cosmetics, Herbal Cosmetics Skin Creams, Lotions, Shampoos, Conditioner & Related Products, Intermediate, Raw Materials/ Chemicas	Total Viable count	IS 14648 - 2011 IS 6608 - 2004 Amend 2015 USP 41	≥10 cfu /g, ml
		Bile Tolerant Gram Negative Bacteria		Qualitative Present /Absent per 25 g
		Escherichia coli		Qualitative Present /Absent per g
		Salmonella spp.		Qualitative Present /Absent per 25 g
		Pseudomonas aeruginosa		Qualitative Present /Absent per g
		Staphylococcus aureus		Qualitative Present /Absent per g
		Candida albicans		Qualitative Present /Absent per g
		Yeast and Mould Count		≥10 cfu /g, ml

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<b>V.</b>	<b>ENVIRONMENT &amp; POLLUTION</b>			
<b>1.</b>	<b>Microbial Air quality monitoring</b>	Total Viable count	SOP/QP/DALPL/337 USP 41, Ch 1116	≥ 1 CFU and above for 4 hrs with plate of 90mm
		Yeast and Mold count	SOP/QP/DALPL/337 USP 41, Ch 1116	≥ 1 CFU and above for 4 hrs with plate of 90mm
<b>2.</b>	<b>Surface/ Hand swab</b>	Total Viable Count	IS 5402-2012 USP 41 SOP/QP/DALPL/369	≥1 CFU and above per swab or per sq. cm
		Yeast & Mold Count	IS 5403-1999 RA 2013 USP 41 SOP/QP/DALPL/369	≥ 1 CFU and above per swab or per sq. cm
		Coliform Count	IS 5401 (Part 1) 2002 RA 2012 USP 41 SOP/QP/DALPL/369	≥ 1 CFU and above per swab or per sq. cm
		E. coli	IS 5887(Part 1)1976 RA 2013 USP 41 SOP/QP/DALPL/369	Present/ Absent per swab or per sq. cm
		Salmonella Spp.	IS 5887 (Part 3) 1999 RA 2013 USP 41 SOP/QP/DALPL/369	Present/ Absent per swab or per sq. cm

**\*NOTE:** The Laboratory has demonstrated competence for the stated scope for **WATER**. This however **does not fully cover** the specification requirements of **BIS for the Packaged Drinking Water as per IS:14543 and the Packaged Natural Mineral Water IS:13428.**

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<b>CHEMICAL TESTING</b>				
<b>I.</b>	<b>FOOD &amp; AGRICULTURAL PRODUCTS</b>			
<b>1.</b>	<b>CEREAL &amp; CEREAL PRODUCTS</b>			
<b>a.</b>	<b>Wheatflour</b>	Moisture	FSSAI Lab Manual 2018 Method no 8.1 IS 1155-1968 (RA 2015)	0.1 to 30%
		Total Ash	FSSAI Lab Manual 2018 Method no 8.2 IS 1155-1968 (RA 2015)	0.1 to 15%
		Acid Insoluble Ash	FSSAI Lab Manual 2018 Method no 8.3 IS 1155-1968 (RA 2015) IS 7219-1973 (RA 2015)	0.01 to 2%
		Total Protein	FSSAI Lab Manual 2018 Method no 8.7 IS 1155-1968 (RA 2015)	1 to 50%
		Gluten	FSSAI Lab Manual 2018 Method no 8.4 IS 1155-1968 (RA 2015)	0.1 to 50%
		Crude Fibre	FSSAI Lab Manual 2018 Method no 8.8 IS 10226 (Part1)1982 RA 2015	0.1 to 15%
		Alcoholic Acidity as H <sub>2</sub> SO <sub>4</sub>	FSSAI Lab Manual 2018 Method no 8.5 IS 1155-1968 (RA 2015)	0.01to 5.0%
<b>b.</b>	<b>Maida</b>	Moisture	FSSAI Lab Manual 2018 Method no 8.1 IS 1009-1979 (RA 2015)	0.1 to 30%

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		Total Ash	FSSAI Lab Manual 2018 Method no 8.2 IS 1009-1979 (RA 2015)	0.1 to 15%
		Acid Insoluble Ash	FSSAI Lab Manual 2018 Method no 8.3 IS 1009-1979 (RA 2015)	0.01 to 2%
		Gluten	FSSAI Lab Manual 2018 Method no 8.4 IS 1009-1979 (RA 2015)	0.1 to 50%
		Alcoholic acidity as H <sub>2</sub> SO <sub>4</sub>	FSSAI Lab Manual 2018 Method no 8.5 IS 1009-1979 (RA 2015)	0.01 to 5%
		Crude Fibre	FSSAI Lab Manual 2018 Method no 8.8 IS 10226 (Part 1)-1982 RA 2015	0.1 to 20%
		Total Protein	FSSAI Lab Manual 2018 Method no 8.7 IS 1155-1968 (RA 2015)	1 to 50%
<b>c.</b>	<b>Rava</b>	Moisture	FSSAI Lab Manual 2018 Method no 8.1 IS 1010 -1968 RA 2015	0.1 to 30%
		Total Ash	FSSAI Lab Manual 2018 Method no 8.2 IS 1010-1968 (RA 2015)	0.1 to 15%
		Acid Insoluble Ash	FSSAI Lab Manual 2018 Method no 8.3 IS 1010-1968 (RA 2015)	0.01 to 2%
		Gluten	FSSAI Lab Manual 2018 Method no 8.4 IS 1010-1968 (RA 2015)	0.1 to 50%
		Alcoholic acidity as H <sub>2</sub> SO <sub>4</sub>	FSSAI Lab Manual 2018 Method no 8.5 IS 1010-1968 (RA 2015)	0.01 to 5%

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d.	<b>Besan</b>	Moisture	FSSAI Lab Manual 2018 Method no 8.1 IS 2400-1976 (RA 2015)	0.1 to 30%
		Total Ash	FSSAI Lab Manual 2018 Method no 8.2 IS 2400-1976 (RA 2015)	0.1 to 15%
		Acid Insoluble Ash	FSSAI Lab Manual 2018 Method no 8.3 IS 2400-1976 (RA 2015)	0.01 to 2%
e.	<b>Custard Powder</b>	Moisture	FSSAI Lab Manual 2018 Method no 16.1 IS 1007-1984 (RA 2017)	0.1 to 30%
		Total Ash	FSSAI Lab Manual 2018 Method no 8.2, 16.2 IS 1007-1984 (RA 2017)	0.1 to 15%
		Acid Insoluble Ash	FSSAI Lab Manual 2018 Method no 8.3 IS 1007-1984 (RA 2017)	0.01 to 2%
f.	<b>Cereal Products Macaroni, Spaghetti, Vermicelli Breakfast Cereals RTE Products</b>	Moisture	FSSAI Lab Manual 2018 Method no 8.1 IS 1485-1993 (RA 2015)	0.1 to 30%
		Total Ash	FSSAI Lab Manual 2018 Method no 8.2 IS 1485-1993 (RA 2015)	0.1 to 15%
		Acid Insoluble Ash	FSSAI Lab Manual 2018 Method no 8.3 IS 1485-1993 (RA 2015)	0.01 to 2%



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		Total Protein	FSSAI Lab Manual 2018 Method no 8.7 IS 1485-1993 (RA 2015) IS 7219-1973 (RA 2015)	1% to 50%
		Fat	FSSAI Lab Manual 2018 Method No 14.5 IS 3579 -1966 (RA 2015) AOAC 20 <sup>th</sup> Edn 2016 (922.06)	0.1 to 50%
2.	<b>Bakery Products Bread Biscuits Cakes</b>	Moisture	FSSAI Lab Manual 2018 Method no 14.3, 15.2 IS 12711-1989 RA 2015 IS 1011- 2002 RA 2013	0.1 to 50%
		Acid Insoluble Ash	FSSAI Lab Manual 2018 Method no 14.4,15.4 IS 12711-1989 RA 2015 IS 1011-2002, RA 2013	0.01 to 2 %
		Total Solid content	IS 12711-1989 , RA 2015 FSSAI Lab Manual 2018	1.0 to 80 %
		Fat	FSSAI Lab Manual 2018 Method No 14.5 IS 3579 -1966 (RA 2015) AOAC 20 <sup>th</sup> Edn 2016 (922.06)	0.1 to 50%
		Acidity of Extracted Fat	FSSAI Lab Manual 2018 Method no 14.5 IS 12711-1989 , RA 2015, IS 1011-2002, RA 2013	0.1 to 50%
		Crude Fibre	FSSAI Lab Manual 2018 Method no 8.8 IS 12711-1989 RA 2015 IS 1483-1988 RA 2015	0.1 to 30%

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		Total Aflatoxin	SOP No. QP/DALPL/100	0.1-1000µg/kg
		Aflatoxin B1	Issue Date: 02/01/2018	
		Aflatoxin B2	Revision No. 4	
		Aflatoxin G1		
		Aflatoxin G2		
3.	<b>Food Grains All Types of Edible Food Grains Pulses (Whole, Split, Groundnut)</b>	Moisture	IS 1155:1968 (RA 2015) IS 4333 Part 2: 2017 IS 1009: 1979 RA 2015	0.1 to 25%
		Extraneous matter	IS 4333 (Part I)-1996, RA 2017	0.01 to 10 %
		Other Food Grains	IS 4333 (Part I)-1996, RA 2017	0.01 to 10 %
		Damaged Grains	IS 4333 (Part I)-1996, RA 2017	0.01 to 10 %
		Discoloured Grains	IS 4333 (Part I)-1996, RA 2017	0.01 to 10 %
		Insect damaged Grains	IS 4333 (Part I)-1996, RA 2017	0.01 to 10 %
		Shrivelled/Shrunken/ Immature Grains	IS 4333 (Part I)-1996, RA 2017	0.01 to 10 %
		Foreign Matter	IS 4333 (Part I)-1996, RA 2017	0.01 to 10 %
		Broken Grains	IS 4333 (Part I)-1996, RA 2017	0.01 to 10 %
		Starch	FSSAI Lab Manual 2018 Method 13.0 IS 4706(Part 2) 1978 RA 2015	0.1 to 60 %
		Total Aflatoxin	SOP No. QP/DALPL/100	1 to 1000µg/kg
		Aflatoxin B1	Issue Date: 02/01/2018	
		Aflatoxin B2	Revision No. 4	
		Aflatoxin G1		
		Aflatoxin G2		



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		Acid Value	FSSAI Lab Manual 2018 Method no 11.0 IS 548 - (Part1) -1964 RA 2015	0.1 to 20
		Saponification value	FSSAI Lab Manual 2018 Method no 9.0 IS 548 - (Part1) -1964 RA 2015	50 to 350
		Refractive Index	FSSAI Lab Manual 2018 Method no 5.0 IS 548 - (Part1) -1964 RA 2015	1.30 to 1.70
		Unsaponifiable matter	FSSAI Lab Manual 2018 Method no 10.0 IS 548 - (Part1) -1964 RA 2015	0.1 to 5%
		Free fatty acids	FSSAI Lab Manual 2018 Method no 11.0 IS 548 - (Part1) -1964 RA 2015	0.1 to 10%
		Melting Point	FSSAI Lab Manual 2018 Method no 8.0 IS 548 - (Part1) -1964 RA 2015	20° to 50°C °
		Peroxide value	FSSAI Lab Manual 2018 Method no 38.1 IS 548 - (Part 1) -1964 RA 2015	0.2 to 300mEq/1000g
		Specific Gravity	FSSAI Lab Manual 2018 Method no 4.0 IS 548 - (Part 1) -1964 RA 2015	0.9 to 1.5

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		Baudouin Test	FSSAI Lab Manual 2018 Method No. 15 IS 548 - (Part II) -1964 RA 2015	Qualitative Present / Absent
		Argemone oil	FSSAI Lab Manual 2018 Method No. 30	Qualitative Present / Absent
		Rice Bran Oil	FSSAI Lab Manual 2018 Method 18 IS 548 ( Part II) 1976 RA 2015 DGHS 2005 Manual 2 Method18	Qualitative Present / Absent
		Linseed Oil	FSSAI Lab Manual 2018 Method 19 IS 548 ( Part II) 1976 RA 2015	Qualitative Present / Absent
		Castor Oil	FSSAI Lab Manual 2018 Method 29 IS 548 Part (II) 1976 RA 2015	Qualitative Present / Absent
		Cotton Seed oil	FSSAI Lab Manual 2018 Method 16 IS 548 ( Part II) 1976 RA 2015	Qualitative Present / Absent
		Mineral Oil	FSSAI Lab Manual 2018 Method 28 IS 548 ( Part II) 1976 RA 2015	Qualitative Present / Absent
		<b>Fatty acid profile</b>		
		Saturated fat	SOP/QP/DALPL/229	0.1 to 99%
		Monounsaturated fat	Revision No: 06	0.1 to 99%
		Polyunsaturated fat	Issue Date: 01/10/2018	0.1 to 99%
		Trans Fat		0.1 to 99%

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		Cholesterol	SOP/QP/DALPL/228 Rev02 Issue date 02/01/2018	1 to 500 mg/100g
5.	<b>Nut &amp; nut products (whole &amp; ground) Edible Nuts, Cashews Ground Nut, Walnut Almonds, Pistachios Dates</b>	Moisture	FSSAI Lab Manual 2018, Pg 282 of Dehy. Fruits Method No. 17.2	0.1 to 30%
		Ash	AOAC 20 <sup>th</sup> Edn 2016 Method 950.49	0.1 to 10%
		Acid insoluble ash	IS 4684 : 1975 RA 2015 FSSAI Lab Manual 2018, Pg 282 of Dehy. Fruits Method No 17.4	0.01 to 2%
		Fat / Oil	IS 3579 – 1966 RA 2015	1 to 70%
		Crude Fibre	GAFTA 2003 (10.0)	0.1 to 15%
		Protein	IS 7219-1973 (RA 2015)	1 to 50 %
		Acid Value of extracted fat	IS 3579 – 1966 RA 2015	0.1 to 50
		Foreign matter admixture including inorganic & organic metallic foreign matter	FSSAI Lab Manual 2018, Pg 290 Method no 1.2 of food grains IS 4333 (P1) 1966 RA 2017	0.01 to 25%
		Hull Content	IS 4427-1967 RA 2010	0.01 to 10 %
		Nooks	IS 3579-1966 RA 2015	0.01 to 10 %
		Damaged/Weevilled Seeds	IS 3579-1966 RA 2015	0.01 to 10 %
		Slightly Damaged/ Weevilled seeds	IS 3579-1966 RA 2015	0.01 to 10 %
		Shriveilled and Immature seeds	IS 3579-1966 RA 2015	0.01 to 10 %
		Dark Seeds	IS 4427-1967 RA 2010	0.01 to 10 %
		Split and Broken Seeds	IS 3579-1966 RA 2015	0.01 to 10 %
		Count per Ounce	IS 3579-1966 RA 2015	0.01 to 80 units

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		No of kernels /25 g	IS 4427-1967 RA 2010	10 to 75 units
		Foreign and oil breeding crop admixture(including broken, corroded and germinated	IS 3579-1966 RA 2015	0.01 to 10.0%
		Cultivated and Plant wild seeds	IS 4427-1967 RA 2010	0.01 to 10.0%
		Total Aflatoxin	SOP No. QP/DALPL/100 Issue Date: 02/01/2018 Revision No. 4	0.1 to 1000µg/kg
		Aflatoxin B1		
		Aflatoxin B2		
		Aflatoxin G1		
		Aflatoxin G2		
6.	<b>Fruit &amp; Vegetables All Types of Fruit, Processed fruit&amp; Canned Fruits, Fruit Concentrates, Pulps, Purees, Sauces, Ketchup, Bottled fruit juices</b>	Ash	FSSAI Lab Manual 2018 Method 11.3 & 14.4 AOAC 20 <sup>th</sup> Edn 2016, Chapter 37, Method 940.26 IS 13846:2009 RA 2018	0.01 to 10%
		Acid Insoluble Ash	FSSAI Lab Manual 2018 Method No. 5.3 IS 13846:2009 RA 2018	0.01 to 2%
		Total Solids/ Dry Matter	FSSAI Lab Manual 2018 Method 2.1, 14.3 IS 3882 - 2013 IS 5781 - 1993 RA 2018	1.0 to 99%
		Protein	IS 7219 1973 RA 2015	0.1 to 30 %
		Carbohydrates	IS1656-2007 RA 2018	10 to 95 %
		Energy/ Calories	IS 14433:2007 RA 2018	100 to 1000 Kcal/100gm
		Total Soluble Solids/Brix	FSSAI Lab Manual 2018 Method 1.6 IS 13815:2009 RA 2018	1 to 95 %
		pH	FSSAI Lab Manual 2018 Method 2.3	1 to 14

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		Total acidity	FSSAI Lab Manual 2018 Method 2.4 & 14.5	0.01 to 5 %
		Acidity as citric acid	FSSAI Lab Manual 2018 Method 2.4	0.01 to 10 %
		Total Sugar	FSSAI Lab Manual 2018 Method 2.6 & 10.1	0.1 to 80 %
		Vitamin C	IS 5838-1970 RA 2015	1.0 mg to 100g
7.	<b>Spices &amp; Condiments All types of Edible Spice, Whole, Ground or Mixed Turmeric, Chillies, Cardamom Cloves, Cinamon Pepper</b>	Moisture	FSSAI Lab Manual 2018 Method 3.0 IS 1797 - 2017 ASTA 2.0 1997, ASTA 2.1 1997	0.5 to 25%
		Extraneous matter	IS 1797 - 2017	0.01 to 10%
		Light berries	FSSAI Lab Manual 2018 Method No. 2	0.01 and 50%
		Bulk Density	FSSAI Lab Manual 2018 Method 14.1	0.3 to 0.8g/ml
		Piperine	FSSAI Lab Manual 2018 Method 14.3	0.01 to 10%
		Total Ash	FSSAI Lab Manual 2018 Method 4.0 IS 1797 - 2017 ASTA 3.0 (4 <sup>th</sup> edn)1997	0.1 to 25%
		Acid Insoluble Ash	FSSAI Lab Manual 2018 Method 5.0 IS 1797 - 2017	0.01 to 5%
		Water Insoluble Ash	IS 1797 - 2017	0.1 to 10%
		Crude Fibre	FSSAI Lab Manual 2018 Method 11.0 IS 1797 - 2017, ASTA 7.0 (4 <sup>th</sup> edn)1997	0.1 to 40%
		Starch	FSSAI Lab Manual 2018 Method 16.5 ASTA 8.0 (4 <sup>th</sup> edn)1997	0.1 to 80%



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		Salt	IS 1797 - 2017	0.1 to 80%
		Volatile Oil	FSSAI Lab Manual 2018 Method 10 IS 1797 – 2017 ASTA 5.0 (4 <sup>th</sup> edn) 1997	0.5 to 25 gm/ 100 ml
		Curcumin	FSSAI Lab Manual 2018 Method 16.4 ASTA 18.0 (4 <sup>th</sup> edn)1997 Food Chemical Codex 8 <sup>th</sup> Edition 2012	0.1 to 10%
		Chromate test	FSSAI Lab Manual 2018 Method 16.6	Qualitative Present/Absent
		Alcohol Soluble Extract	FSSAI Lab Manual 2018 Method 7.0 IS 1797 – 2017 ASTA 9.0 (4 <sup>th</sup> edn)1997	0.1 to 25%
		Non- volatile Ether Extract	FSSAI Lab Manual 2018 Method 9.0 IS 1797 - 2017	0.1 to 30%
		Cold Water Soluble Extract	FSSAI Lab Manual 2018 Method 6.0 IS 1797 - 2017	0.1 to 30%
		Colour	IS 4404-2010 RA 2015	Qualitative (Visual)
		Odour/Flavour	IS 4404:2010 RA 2015 IS 2322:2010 RA 2015 IS 3576:2010 RA 2015	Qualitative (Characteristic)
		Absence of Mould/Insect	IS 4404:2010 RA 2015 IS 2322:2010 RA 2015 IS 3576:2010 RA 2015	Absent/Present
		Tendrill, Mother cloves	IS 4404:2010 RA 2015	0 to 10.0 %
		Khokar Cloves	IS 4404:2010 RA 2015	0 to 10.0 %
		Headless Cloves	IS 4404:2010 RA 2015	0 to 50.0 %
		Insect Damage Cloves	IS 4404:2010 RA 2015	0 to 10.0 %





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		Urea in Milk & Milk Products	FSSAI Lab Manual 2018 Method 1.2.4 IS 1479 (Part I) 2016	Qualitative Present/ Absent
		pH	FSSAI Lab Manual 2018 Method 16.6 IS 1479 (Part II) 1961 RA 2018	3 to 8
		Salt	IS 1479 (Part II) 1961 RA 2018	0.1 to 10%
		Carbonates	IS 1479 (Part I) 2016	Qualitative Present/ Absent
		Sugar/Sucrose	FSSAI Lab Manual 2018 Method 9.4	0.1 to 70%
		Lactose	FSSAI Lab Manual 2018 Method 16.7 IS 1479 (Part II) – 1961 RA 2018	0.5 to 80%
		Titration Acidity	FSSAI Lab Manual 2018 Method 14.5 IS 11766 1986 RA 2018	0.01 to 2.0%
		Melamine	FSSAI Lab Manual 2018 Meth. 3 ISO/TS 15495 - 2010	0.1 to 1000mg/kg, L
		Mineral oil	IS 548 (Part II) 1976 RA 2015	Qualitative Present/ Absent
		BR Reading (Butyrometer Refractometer at 40°C)	IS 548 (Part I) 1964, RA 2015	30 to 50
		RM value	IS 548 (Part I) 1964, RA 2015	10 to 50
		FFA	IS 548 (Part I) 1964, RA 2015	0.01 to 10%
		Baudouin Test	IS 548 (Part II) 1976 RA 2015	Qualitative Present/ Absent

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9.	<b>Confectionary Sugar Boiled confectionary, Chocolates</b>	Moisture	FSSAI Lab Manual 4 ,2016 Method A.2 IS 6287 – 1985,RA 2015,	0.1 to 90%
		Sugar/Sucrose	FSSAI Lab Manual 4 ,2016 Method A.10 IS 6287 – 1985 RA 2015	1.0 to 99 %
		Total Ash	FSSAI Lab Manual 4 ,2016 Method A.3	0.1 to 10%
		Acid Insoluble Ash	FSSAI Lab Manual 4 ,2016 Method A.5 IS 6287 – 1985 RA 2015	0.01 to 5.0 %
		Total Fat	FSSAI Lab Manual 4 ,2016 Method A.8.1, A.8.2 IS 6287 – 1985 RA 2015	0.1 to 50 %
		Milk Fat	IS 1163:1992 RA 2014	0.1 to 50%
		Milk solids	FSSAI Lab Manual 4 ,2016 Method C.8 IS 1163:1992 RA 2014	0.1 to 30 %
		Cocoa solids	FSSAI Lab Manual 4 ,2016 Method C.8	0.1 to 80 %
		Protein	FSSAI Lab Manual 4 ,2016 Method A.7 AOAC 20 <sup>th</sup> Edn 2016 939.02	0.05 to 30%
		Sulphated Ash	FSSAI Lab Manual 4 ,2016 Method A.3 IS 6287 – 1985 RA 2015	0.1 to 20 %
		Reducing Sugar	FSSAI Lab Manual 4 ,2016 Method A.9 IS 6287 – 1985 RA 2015	0.1 to 99 %
10.	<b>Honey</b>	Moisture	IS 4941-1994 RA 2014	0.1 to 50 %
		Colour	IS 4941-1994 RA 2014	Visual
		Specific Gravity at 27 deg C	IS 4941-1994 RA 2014	0.9 to 1.7

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		Total Reducing Sugar	IS 4941-1994 RA 2014	30.0 to 90.0 %
		Sucrose	IS 4941-1994 RA 2014	0.1 to 10.0 %
		Fructose/Glucose ratio	IS 4941-1994 RA 2014	0.9 to 2.0
		Ash	IS 4941-1994 RA 2014	0.01 to 2.0 %
		Acidity	IS 4941-1994 RA 2014	0 to 1 %
		Fiehe's Test	IS 4941-1994 RA 2014	Qualitative Positive/Negative
		Hydroxyl Methyl Furfural	AOAC 20 <sup>th</sup> Edn 2016, 980.23	1.0 to 50
11.	Fish, meat	Ash content	FSSAI Lab Manual 2018 Method 2.4.2	0.1 to 20.0 %
		Ash insoluble in dil. HCL	FSSAI Lab Manual 2018 Method 2.4.3	0.01 to 5.0 %
		Fat Content	FSSAI Lab Manual 2018 Method 2.1	0.1 to 70.0 %
12.	Alcoholic Beverages	Residue On Evaporation	IS 3752 2005 RA 2015	0.01 to 25%
		Ethyl Alcohol	IS 3752 2005 RA 2015	1 to 70%
		Total Acidity	IS: 3752 2005 RA 2015	0.01 to 10%
		Volatile Acidity	IS 3752 2005 RA 2015	1 to 150g/100L
13.	Animal Feeds Soybean Meal, Fish Meal, Meat Meals, livestock ingredient	Description	IS 4307-1983 RA 2014	Qualitative (Characteristic)
		Moisture	IS 7874 (P 1) – 1975 RA 2014 GAFTA 2: 1 – 2005	1 to 20 %
		Crude Protein	GAFTA 4 : 0 – 2003 IS 7874 (P 1) – 1975 RA 2014	1 to 70 %
		Crude Fat	GAFTA 3 : 0 – 2003 IS 7874 (P 1) – 1975 RA 2014	0.1 to 20 %

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		Total Ash	IS 7874 (P 1) – 1975 RA 2014	0.1 to 10%
		Crude Fiber	IS 7874 (P 1) – 1975 RA 2014	0.1 to 15 %
		Acid insoluble ash	GAFTA 13 : 0 – 2003 IS 7874 (P 1) – 1975 RA 2014	0.01 to 2%
14.	<b>All types of food: raw, processed, agricultural produce, Raw materials Colors, Additives</b>	Acidity of Extracted Fat	IS 13844:2003 RA 2018 IS 11766:1986 RA 2018 IS 1479 Part1: 2016 IS 2802: 1964 (RA 2016) IS 2860: 1964 (RA 2016)	0.1 to 50%
		pH	IS 1479:(Part1): 2016	2 to 10
		Peroxide Value (Pv)	IS 15271:2003 RA 2013 IS 548 Part 1: 1964 (RA 2015) IS 3508:1966 (RA2018) IS 12711: 1989 (RA2015)	0.2 to 300mEq/1000g
		<b>Vitamins</b>		
		Vitamin A	AOAC 20 <sup>th</sup> Edn 974.29/2001.13 IS 5886:1970 RA 2015	15 mcg/100g and 10000 mcg
		Vitamin C	IS 5838: 1970 RA 2015	1 to 1000 mg/kg
		Vitamin B1	IS 5398: 1969 RA 2015	1 to 1000 mg/100g
		Vitamin B2	IS 5399: 1969 RA 2015	1 to 1000 mg/100g
		Vitamin B6	IS 7530 : 1975 RA 2015	1 to 1000 mg/100g
		<b>Total Aflatoxin</b>	SOP No. QP/DALPL/100 Issue Date: 02/01/2018 Revision No. 4	1 to 1000µg/kg
		Aflatoxin B1		
		Aflatoxin B2		
		Aflatoxin G1		
		Aflatoxin G2		
		<b>Ochratoxin</b>		

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		Ochratoxin A	AOAC 20th Edn 2016, 2000.03	2.5 to 1000µg/kg
		Ochratoxin B	AOAC 20th Edn 2016, 2000.03	2.5 to 1000µg/kg
		<b>NOTS</b>		
		Saffrole	SOP/QP/DALPL/512, Rev 02 Issue Date 17/03/2018	1 to 1000 mg/kg
		Agaric Acid	SOP/QP/DALPL/509, Rev 02 Issue Date 17/03/2018	11 to 1000 mg/kg
		Hypericin	SOP/QP/DALPL/511, Rev 02 Issue Date 17/03/2018	0.05 to 1000 mg/kg
		Hydrocyanic acid	SOP/QP/DALPL/510, Rev 02 Issue Date 17/03/2018 AOAC 20 <sup>th</sup> Edn 2016, 920.144	3 to 1000 mg/kg
		<b>Antioxidants</b>		
		BHA	AOAC 20 <sup>th</sup> Edn 2016, 983.15	10 to 1000 mg/kg
		BHT	AOAC 20 <sup>th</sup> Edn 2016, 983.15	10 to 1000 mg/kg
		TBHQ	AOAC 20 <sup>th</sup> Edn 2016, 983.15	10 to 1000 mg/kg
		Salt (NaCl)	IS 253: 2014	0.02 to 60 %
		SO <sub>2</sub>	AOAC 20 <sup>th</sup> Edn 2016 990.28	10 to 1000 mg/kg
		Acidity of extracted fat	IS 13844:2003 RA 2018 IS 11766:1986 RA 2018 IS 1479 Part1: 2016 IS 2802: 1964 (RA 2016) IS 2860: 1964 (RA 2016) AOAC 20 <sup>th</sup> Edn 2016, 940.15	0.1 to 10 %



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		pH	IS 1479:(Part1): 2016 DGHS 2005 Manual 1	2 to 10
		Peroxide Value	IS 15271:2003 RA 2013 IS 548 Part 1: 1964 (RA 2015) IS 3508:1966 (RA2018) IS 12711: 1989(RA2015)	0.1 to 20 mEq/kg
		<b>Minerals &amp; Metals</b>	AOAC 20 <sup>th</sup> Edition 2016	
		Copper	999.11/963.21/930.34	0.01 to 100 mg/kg
		Manganese	SOP No. QP/DALPL/453	0.01 to 100 mg/kg
		Nickel	Revision No: 03	0.01 to 100 mg/kg
		Aluminum	Revision Date: 01/01/2018	0.01 to 100 mg/kg
		Molybdenum	(SOP No. QP/DALPL/454	0.01 to 100 mg/kg
		Antimony	Revision No: 03	0.01 to 100 mg/kg
		Calcium	Revision Date: 01/01/2018	0.5 to 100 mg/kg
		Magnesium		0.5 to 100 mg/kg
		Sodium		0.5 to 100 mg/kg
		Zinc		0.5 to 100 mg/kg
		Boron		0.5 to 100 mg/kg
		Barium		0.5 to 100 mg/kg
		Cadmium		0.03 to 100 mg/kg
		Iron		0.01 to 100 mg/kg
		Mercury		0.01 to 100 mg/kg
		Arsenic		0.01 to 100 mg/kg
		Chromium		0.03 to 100 mg/kg
		Silver		0.025 to 100 mg/kg
		Lead		0.25 to 100 mg/kg
		Selenium		0.25 to 100 mg/kg
15.	<b>All Types of Food: Butter, Channa, Turmeric, Nuts, Grapes, Hard boiled sugar candy (for trace elements)</b>	Butter - Arsenic	AOAC 20 <sup>th</sup> Edition 2016	0.25 to 100 mg/kg
		Cadmium	Volume 1, Chapter 9, Method	0.25 to 100 mg/kg
		Lead		0.25 to 100 mg/kg
		Channa - Arsenic	999.11/963.21/930.34	0.25 to 100 mg/kg
		Cadmium	SOP No. QP/DALPL/453	0.25 to 100 mg/kg
		Mercury	and	0.25 to 100 mg/kg

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	<b>&amp; heavy metals)</b>	Lead	SOP No. QP/DALPL/454 Rev No. 03 Issue Date 01/01/2018	0.25 to 100 mg/kg
		Turmeric - Arsenic		0.25 to 100 mg/kg
		Cadmium		0.25 to 100 mg/kg
		Copper		0.25 to 100 mg/kg
		Lead		0.25 to 100 mg/kg
		Zinc		0.25 to 100 mg/kg
		Nuts – Arsenic		0.25 to 100 mg/kg
		Cadmium		0.25 to 100 mg/kg
		Mercury		0.25 to 100 mg/kg
		Lead		0.25 to 100 mg/kg
		Grapes – Arsenic		0.25 to 100 mg/kg
		Cadmium		0.25 to 100 mg/kg
		Mercury		0.25 to 100 mg/kg
		Lead		0.25 to 100 mg/kg
		Candy - Arsenic		0.25 to 100 mg/kg
	Tin	0.25 to 100 mg/kg		
	Copper	0.25 to 100 mg/kg		
	Lead	0.25 to 100 mg/kg		
	Zinc	0.25 to 100 mg/kg		
<b>16.</b>	<b>Nutrition labeling and analysis of All types of food</b>	Energy/ Calories	IS 14433:2007 RA 2018	100 to 1000 Kcal/100gm
		Protein	IS 7219:1973 RA 2015	0.1 to 99%
		Carbohydrate	IS1656-2007 RA 2018	10 to 95 %
		Sugars	IS 6287:1985 RA 2015	0.1% to 99 %
		Total Fat	IS 4684:1975 RA 2015 IS 3579:1966 RA 2015 IS 12299:1998 RA 2016	0.1 to 99%
		Saturated Fat	SOP/QP/DALPL/229 Issue date 01/01/2018 Revision 06	0.1 to 90%
		MUFA	SOP/QP/DALPL/229 Issue date 01/01/2018 Revision 06	0.1 to 90%

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		PUFA	SOP/QP/DALPL/229 Issue date 01/01/2018 Revision 06	0.1 to 90%
		Trans Fat	SOP/QP/DALPL/229 Issue date 01/01/2018 Revision 06	0.1 % to 10 %
		Cholesterol	SOP/QP/DALPL/228 Rev 02 Issue date 02/01/2018	1 to 500 mg/100g
		Dietary Fibre	IS 11062: 1984 RA 2015	0.1 to 95%
		Calcium	AOAC 20 <sup>th</sup> Edition 2016	0.5 to 1000 mg/kg
		Iron	Volume 1, Chapter 9	0.01 to 1000 mg/kg
		Sodium	Method 999.11/963.21/930.34 AOAC 20 <sup>th</sup> Edn 2016 Volume 2 Chapter 32, Method 944.03 IS1479 Part 2, 1961, RA 2018 SOP No. QP/DALPL/453 and 454 Issue date 01/01/2018 Revision 03	0.25 to 1000 mg/kg
		Vitamin A	AOAC 20 <sup>th</sup> Edition 2016, 974.29, 2001.13 IS: 5886:1970 RA2015	15 to 10000 mcg/100g
		Vitamin C	IS 5838: 1970 RA 2015	1.0 mg to 100g
		Moisture	IS 12711:1989 RA 2015 IS 1155:1968 RA 2015 IS 1797: 2017	0.1 to 99%
		Ash	IS 12711:1989 RA 2015 IS 1155:1968 RA 2015 IS 1797: 2017 AOAC 20 <sup>th</sup> Edn 2016, 950.49 Vol 2 Ch 40	0.1% to 10 %

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II.	<b>RESIDUE ANALYSIS</b>			
1.	<b>Fresh Fruits And Vegetables Grapes , Okra, Curry leaves, Chilly (Pesticide Residue)</b>	Trans-Chlordane	SOP/QP/DALPL/74 Issue Date 25/05/2018 Revision 07	0.01 to 0. 200 mg/kg
		Chlorothalonil		0.01 to 0. 200 mg/kg
		2 4 DDT		0.01 to 0. 200 mg/kg
		4 4 DDT		0.01 to 0. 200 mg/kg
		2 4 DDE		0.01 to 0. 200 mg/kg
		4 4 DDE		0.01 to 0. 200 mg/kg
		4 4 DDE		0.01 to 0. 200 mg/kg
		2 4 DDD		0.01 to 0. 200 mg/kg
		4 4 DDD		0.01 to 0. 200 mg/kg
		Dicofol		0.01 to 0. 200 mg/kg
		Dieldrin		0.01 to 0. 200 mg/kg
		Alpha-Endosulphan,		0.01 to 0. 200 mg/kg
		Beta –Endosulphan,		0.01 to 0. 200 mg/kg
		EndosulphanSulphate		0.01 to 0. 200 mg/kg
		Alpha HCH		0.01 to 0. 200 mg/kg
		Beta HCH		0.01 to 0. 200 mg/kg
		Delta HCH		0.01 to 0. 200 mg/kg
		Deltamethrin		0.01 to 0. 200 mg/kg
		Fenpropathrin		0.01 to 0. 200 mg/kg
		Lindane		0.01 to 0. 200 mg/kg
	Bio-Allethrin	0.01 to 0. 200 mg/kg		
	cyfluthrin	0.01 to 0. 200 mg/kg		
	Transfluthrin	0.01 to 0. 200 mg/kg		
	Cypermethrin (Mixture)	0.01 to 0. 200 mg/kg		
	Fenvalerate	0.01 to 0. 200 mg/kg		
	Lambda-cyhalothrin	0.01 to 0. 200 mg/kg		
	Permethrin	0.01 to 0. 200 mg/kg		
	Chlorfenvinphos	0.01 to 0. 200 mg/kg		
	Chlorpyrifos	0.01 to 0. 200 mg/kg		
	Chlorpyrifos methyl	0.01 to 0. 200 mg/kg		
	Diazinon	0.01 to 0. 200 mg/kg		
	Dichlorvos	0.01 to 0. 200 mg/kg		

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		Triazophos		0.01 to 0. 200 mg/kg
		Metalaxyl		0.01 to 0. 200 mg/kg
		Phosphamidon		0.01 to 0. 200 mg/kg
		Malathion		0.01 to 0. 200 mg/kg
		Phosalone		0.01 to 0. 200 mg/kg
		Fenarimol		0.01 to 0. 200 mg/kg
		Hexaconazole		0.01 to 0. 200 mg/kg
		Bitertinol		0.01 to 0. 200 mg/kg
		Flusilazole		0.01 to 0. 200 mg/kg
		Edifenphos		0.01 to 0. 200 mg/kg
		Ethion		0.01 to 0. 200 mg/kg
		Fenitrothion		0.01 to 0. 200 mg/kg
		Parathion ethyl		0.01 to 0. 200 mg/kg
		Phenthoate		0.01 to 0. 200 mg/kg
		Phorate		0.01 to 0.02 mg/kg
		Phoratesulfone		0.01 to 0. 200 mg/kg
		Myclobutanil		0.01 to 0. 200 mg/kg
		Iprodione		0.01 to 0. 200 mg/kg
		Captafol		0.01 to 0. 200 mg/kg
		Captan		0.01 to 0. 200 mg/kg
		Pendimethalin		0.01 to 0. 200 mg/kg
		Flufenacet		0.01 to 0. 200 mg/kg
		Propargite		0.01 to 0. 200 mg/kg
		Fipronil		0.01 to 0.02 mg/kg
2.	<b>Milk &amp; dairy Products (Pesticide residue)</b>	<b>Organochlorine compounds</b>	SOP/QP/ DALPL/148 Revision No: 05 Issue Date: 03/01/2018	
	<b>Food having a dairy ingredient as an ingredient, Milk, Milk powder, Milk based beverages,</b>	Aldrin		0.01 to 0. 200 mg/Lit
		Dieldrin		0.01 to 0. 200 mg/Lit
		Trans-Chlordane		0.01 to 0. 200 mg/Lit
		Alpha Endosulfan		0.01 to 0. 200 mg/Lit
		Beta Endosulfan		0.01 to 0. 200 mg/Lit
		Endosulfansulphate		0.01 to 0. 200 mg/Lit
		HCH –gamma (Lindane)		0.01 to 0. 200 mg/Lit
		<b>Organophosphorus</b>		

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	<b>Cheese, Curd, Butter, Ice cream, Yoghurt, Ghee</b>	<b>compounds</b>		
		Diazinon		0.01 to 0. 200 mg/Lit
		Dichlorvos		0.01 to 0. 200 mg/Lit
		Ethion		0.01 to 0. 200 mg/Lit
		Fenthion		0.01 to 0. 200 mg/Lit
		Fenthionsulphone		0.01 to 0. 200 mg/Lit
		Fenthionsulphoxide		0.01 to 0. 200 mg/Lit
		Malathion		0.01 to 0. 200 mg/Lit
		Phosalone		0.01 to 0. 200 mg/Lit
		2,4 DDE		0.01 to 0. 200 mg/Lit
		4,4 DDE		0.01 to 0. 200 mg/Lit
		2,4 DDT		0.01 to 0. 200 mg/Lit
		4,4 DDT		0.01 to 0. 200 mg/Lit
		2,4 DDD		0.01 to 0. 200 mg/Lit
		4,4 DDD		0.01 to 0. 200 mg/Lit
		Fenitrothion		0.01 to 0. 200 mg/Lit
		Chlorpyrifos		0.01 to 0. 200 mg/Lit
		Monocrotophos		0.01 to 0. 200 mg/Lit
		Carbendazim		0.01 to 0. 200 mg/Lit
		Benomyl		0.01 to 0. 200 mg/Lit
	Cypermethrin		0.01 to 0. 200 mg/Lit	
	Edifenfos		0.01 to 0. 200 mg/Lit	
	Fenvalerate		0.01 to 0. 200 mg/Lit	
	Phenthoate		0.01 to 0. 200 mg/Lit	
	Phorate		0.01 to 0. 200 mg/Lit	
	Pirimiphos-methyl		0.01 to 0. 200 mg/Lit	
	Parathion Methyl		0.01 to 0. 200 mg/Lit	
	Malaaxon		0.01 to 0. 200 mg/Lit	
	Paraaxon methyl		0.01 to 0. 200 mg/Lit	
	Carbofuron		0.01 to 0. 200 mg/Lit	
	Trichlorfon		0.01 to 0. 200 mg/Lit	
<b>3.</b>	<b>Milk and Milk Products (for Antibiotics)</b>	Chloramphenicol	SOP No: QP/ DALPL/144 Revision 06 Issue Date 03/01/2018	0.3 to 100 µg/Kg

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		<b>Tetracycline</b>	SOP No: QP/ DALPL/145	
		Tetracycline	Revision 06	50 to 100 µg/Kg
		Trimethoprim	Issue Date 03/01/2018	100 to 1000 µg/Kg
		Oxolinic acid	SOP No: QP/ DALPL/489	25 to 500µg/Kg
			Revision 06	
			Issue Date 03/01/2018	
		<b>Sulfonamides</b>	SOP No: QP/ DALPL/149	
			Revision 06	
			Issue Date 03/01/2018	
		Sulfadiazine		100 to 1000 µg/Kg
		Sulfamerazine		100 to 1000 µg/Kg
		Sulfathiazole		100 to 1000 µg/Kg
		Sulfamethizole		100 to 1000 µg/Kg
		Sulfaguanidine		100 to 1000 µg/Kg
		<b>Nitrofurans</b>		
		Nitrofurantoin, (AHD)	SOP NO:QP/ DALPL/146	10 to 100 µg/Kg
			Revision 07	
		Nitrofurazone ( SEM)	Issue Date 02/01/2018	10 to 100 µg/Kg
		Furaltadone ( AMOZ )		10 to 100 µg/Kg
		Furazolidone (AOZ)		10 to 100 µg/Kg
		Melamine	SOP NO:QP/ DALPL/266	100 to 1000 µg/Kg
			Rev. 05 Issue Date 03/01/2018	
<b>4.</b>	<b>Seafood Shrimp (For Pesticides)</b>	Ethion	SOP No. QP/DALPL/554	0.01 to 0. 200 mg/kg
		Fosetyl-Al	Revision No. 00	0.01 to 0. 200 mg/kg
		Oxydemeton-methyl	Issue Date 26/05/2018	0.01 to 0. 200 mg/kg

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	<b>All Types of Seafood Shrimp (For Pesticides)</b>	Triadimefon	SOP No. QP/DALPL/554	0.01 to 0.200 mg/kg
		Flusilazole	Revision No. 00	0.01 to 0.200 mg/kg
		Myclobutanil	Issue Date 26/05/2018	0.01 to 0.200 mg/kg
		Hexaconazole		0.01 to 0.200 mg/kg
		Monocrotophos		0.01 to 0.200 mg/kg
		Flufenacet		0.01 to 0.200 mg/kg
		Fenarimol		0.01 to 0.200 mg/kg
		Dimethoate		0.01 to 0.200 mg/kg
		Alachlor		0.01 to 0.200 mg/kg
		Atrazine		0.01 to 0.200 mg/kg
		Bitertenol		0.01 to 0.200 mg/kg
		Phorate		0.01 to 0.200 mg/kg
		Pendimethanil		0.01 to 0.200 mg/kg
		Phosalone		0.01 to 0.200 mg/kg
		Carbaryl		0.01 to 0.200 mg/kg
		Omethoate		0.01 to 0.200 mg/kg
		Iprobenphose		0.01 to 0.200 mg/kg
	Acephate		0.01 to 0.200 mg/kg	
	Trizophos		0.01 to 0.200 mg/kg	
	Quinalphos		0.01 to 0.200 mg/kg	
	Phosphomidon		0.01 to 0.200 mg/kg	
	Thiophenate methyl		0.01 to 0.200 mg/kg	
5.	<b>Seafood Fish (Shrimp) Antibiotics</b>	Chloramphenicol	SOP NO:QP/ DALPL/145 Revision No. 06 Issue Date 03/01/2018	0.3 to 300 µg/kg
		<b>Tetracycline</b>		
		Tetracycline	SOP NO:QP/ DALPL/145 Revision No. 06 Issue Date 03/01/2018	50 to 500µg/Kg
		Oxolinic acid	SOP No: QP/ DALPL/489 Revision 06 Issue Date 03/01/2018	25 to 500µg/Kg



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		<b>Sulfonamide</b>	SOP NO:QP/ DALPL/149	
		Sulphadoxine	Revision 06	10 to 500 µg/Kg
		Sulfadiazine	Issue Date 03/01/2018	10 to 500 µg/Kg
		Sulfamethoxazole		10 to 500 µg/Kg
		Sulfamerazine		10 to 500 µg/Kg
		Sulfadimidine		10 to 500 µg/Kg
		Sulfadimethoxine		10 to 500 µg/Kg
		Sulphamethoxypyridazine		10 to 500 µg/Kg
		Sulfapyridine,		10 to 500 µg/Kg
		Sulfathiazole		10 to 500 µg/Kg
		Sulfamethizole,		10 to 500 µg/Kg
		Sulfamethazine,		10 to 500 µg/Kg
		Sulfanilamide,		10 to 500 µg/Kg
		Sulfaguanidine		10 to 500 µg/Kg
		Trimethoprim		10 to 500 µg/Kg
		<b>Nitrofurans</b>	SOP NO:QP/ DALPL/146	
		Nitrofurantoin (AHD)	Revision 07	10 to 500 µg/Kg
		Nitrofurazone(SEM)	Issue Date 02/01/2018	10 to 500 µg/Kg
		Furaltadone(AMAZ)		10 to 500 µg/Kg
		Furazolidone(AOZ)		10 to 500 µg/Kg
6.	<b>Cereals, Pulses Rice, Channa &amp; Wheat Aata &amp; RTE Savory &amp; Snack food</b>	Alpha HCH	SOP No. QP/DALPL/216	0.01 to 0. 200 mg/kg
		Beta HCH	Revision 06	
		Delta HCH	Issue Date 03/01/2018	
		Fenitrothion		
		2,4-DDD		
		4,4-DDD		
		2,4-DDE		
		4,4-DDE		
		2,4- DDT		
		4,4- DDT		
		Deltamethrin		
		Benomyl		
		Carbaryl		
		Carbendazim		

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		Carbofuron		
		Carboxin	SOP No. QP/DALPL/216	0.01 to 0. 200 mg/kg
		Imidacloprid	Revision 06	
		Indoxacarb	Issue Date 03/01/2018	
		Malathion		
		Metolachlor		
		Metribuzin		
		Simazine		
		Triadmifon		
7.	<b>Spices and Condiments Chili</b>	BHC Alpha	SOP No. QP/DALPL/550	0.01 to 0. 200 mg/kg
		BHC Beta	Revision 00	0.01 to 0. 200 mg/kg
		Propetamphos	Issue Date 04/05/2018	0.01 to 0. 200 mg/kg
		BHC Gamma-Lindane		0.01 to 0. 200 mg/kg
		BHC -Delta		0.01 to 0. 200 mg/kg
		Transfluthrin		0.01 to 0. 200 mg/kg
		Chlorpyrifos-Methyl		0.01 to 0. 200 mg/kg
		Parathion-Methyl		0.01 to 0. 200 mg/kg
		Heptachlor		0.01 to 0. 200 mg/kg
		Fenitrothion		0.01 to 0. 200 mg/kg
		Chlorpyrifos-Ethyl		0.01 to 0. 200 mg/kg
		Parathion Ethyl		0.01 to 0. 200 mg/kg
		Trans-Chlordane		0.01 to 0. 200 mg/kg
		DDE, p,p'		0.01 to 0. 200 mg/kg
		DDE, o,p'-		0.01 to 0. 200 mg/kg
		Endosulfan (alpha isomer)		0.01 to 0. 200 mg/kg
		cis-Chlordane		0.01 to 0. 200 mg/kg
	DDD, o,p'-		0.01 to 0. 200 mg/kg	
	DDD, p,p'-		0.01 to 0. 200 mg/kg	
	DDT- p,p		0.01 to 0. 200 mg/kg	
	Ethion		0.01 to 0. 200 mg/kg	
	Endosulfan- sulfate		0.01 to 0. 200 mg/kg	
	Propargite		0.01 to 0. 200 mg/kg	
	Phosalone		0.01 to 0. 200 mg/kg	

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		Fenpropathrin		0.01 to 0. 200 mg/kg
		Lamda_Cyhalothrin		0.01 to 0. 200 mg/kg
		Fenarimol		0.01 to 0. 200 mg/kg
		Cyfluthrin_1		0.01 to 0. 200 mg/kg
		Permethrin,cis-		0.01 to 0. 200 mg/kg
		Permethrin,Trans-		0.01 to 0. 200 mg/kg
		Cyfluthrin_2		0.01 to 0. 200 mg/kg
		Cypermethrin I		0.01 to 0. 200 mg/kg
		Cypermethrin II		0.01 to 0. 200 mg/kg
		Cypermethrin III		0.01 to 0. 200 mg/kg
		Cypermethrin IV		0.01 to 0. 200 mg/kg
		Esfenvalerate-I		0.01 to 0. 200 mg/kg
		Fenvalerate I		0.01 to 0. 200 mg/kg
		Esfenvalerate-II		0.01 to 0. 200 mg/kg
		Fenvalerate II		0.01 to 0. 200 mg/kg
		Deltamethrin		0.01 to 0. 200 mg/kg
		Flusilazole		0.01 to 0. 200 mg/kg
		Myclobutanil		0.01 to 0. 200 mg/kg
		Hexaconazole		0.01 to 0. 200 mg/kg
		Monocrotophos		0.01 to 0. 200 mg/kg
		Flufenacet		0.01 to 0. 200 mg/kg
		Fenarimol		0.01 to 0. 200 mg/kg
		Dimethoate		0.01 to 0. 200 mg/kg
		Alachlor		0.01 to 0. 200 mg/kg
		Atrazine		0.01 to 0. 200 mg/kg
		Bitertenol		0.01 to 0. 200 mg/kg
		Phorate		0.01 to 0. 200 mg/kg
		Pendimethanil		0.01 to 0. 200 mg/kg
		Phosalone		0.01 to 0. 200 mg/kg
		Carbaryl		0.01 to 0. 200 mg/kg
		Omethoate		0.01 to 0. 200 mg/kg
		Iprobenphose		0.01 to 0. 200 mg/kg
		Acephate		0.01 to 0. 200 mg/kg
		Trizophose		0.01 to 0. 200 mg/kg

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		Quinalphose		0.01 to 0. 200 mg/kg
		Phosphomidone		0.01 to 0. 200 mg/kg
		Thiophenate methyl		0.01 to 0. 200 mg/kg
<b>II.</b>	<b>COSMETICS &amp; ESSENTIAL OILS</b>			
<b>1.</b>	<b>Cosmetics, Herbal Cosmetics &amp; related products, intermediates, raw materials, chemicals</b>	Nonvolatile alcohol soluble matter	IS 7884 : 2004, RA 2014	1.0 & 80 %
		Total fatty substances	IS 6608:2004, RA 2014	1.0 to 90
		Heavy Metals as lead	IS 6608:2004, RA 2014	Qualitative
		Arsenic	IS 6608 :2004, RA 2014	Qualitative
		Cadmium	SOP NO QP/DALPL/457	0.25 to 10 mg /l
		Mercury	Revision No: 03	0.25 to 10 mg /l
		Copper	Issue Date: 01/01/2018	0.25 to 10 mg /l
		Tin	Ref. By AOAC 20 <sup>th</sup> Edition 2016	0.25 to 10 mg /l
		Zinc	985.01/ 999.1	0.25 to 10 mg /l
		Iron		0.25 to 10 mg /l
		Arsenic		0.25 to 10 mg /l
		Calcium		0.25 to 10 mg /l
		Chromium		0.25 to 10 mg /l
		Nickel		0.25 to 10 mg /l
		Lead		0.25 to 10 mg /l
<b>III.</b>	<b>WATER</b>			
<b>1.</b>	<b>Water for Processed food industry and Swimming Pool Water</b>	Colour	IS 3025 (Part 4) – 1983 RA 2012 /APHA 23 <sup>rd</sup> Edition-2017, Method 2120 B	1 to 50 Unit
		Odour	IS 3025 (Part 5) – 1983 RA 2012 / APHA 23 <sup>rd</sup> Edition-2017, Method 2150 B	Agreeable/ Disagreeable
		Taste	IS 3025 (Part 8)-1984 RA2017 APHA 23 <sup>rd</sup> Edition-2017, Method 2160 C	Agreeable/ Disagreeable

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		Turbidity	IS 3025 (Part 10)-1984 RA 2017 / APHA 23 <sup>rd</sup> Edition-2017, Method 2130 B	1 to 100 NTU
		pH @ 25°C	IS 3025 (Part 11)-1983 RA 2012 / APHA 23 <sup>rd</sup> Edition-2017, Method 4500 H	2 to 12
		Total alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23)-1986 RA 2014 / APHA 23 <sup>rd</sup> Edition-2017, Method 2320 B	1 to 500 mg / l
		Total Solids	IS 3025 (Part 15) 1984 RA 2012 / APHA 23 <sup>rd</sup> Edn-2017 - Method 2540B	1 to 1000 mg/l
		Total dissolved solids	IS 3025 (Part 16) 1984 RA 2017 / APHA 23 <sup>rd</sup> Edn-2017- Method 2540B	1 to 1000 mg/l
		Total Hardness as CaCO <sub>3</sub>	IS 3025 (Part 21)-2009 RA 2014 / APHA 23 <sup>rd</sup> Edn-2017, Method 2340 C	1 to 500 mg/l
		Sulphates as So <sub>4</sub>	IS 3025 (Part 24)-1986 RA 2014 / APHA 23 <sup>rd</sup> Edition-2017, Method 4500-SO <sub>4</sub> -E	5 to 200 mg/l
		Fluoride as F	IS 3025 Part 60 – 2008 RA 2013 / APHA 23 <sup>rd</sup> Edn-2017,- Method 4500F	0.5 to 2.5 mg/l
		Chloride as Cl	IS 3025 (Part 32) 1998 RA 2014 APHA 23 <sup>rd</sup> Edn-2017 Method 4500-B	1 to 500 mg/l
		Phenolic Substances	IS 3025 (Part 43) 1992 RA 2014	0.001 to 5 mg/l
		Total Residual Chlorine	IS 3025 (Part 26) 1986 RA 2014	0.1 to 5 mg/l

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		Oxygen absorbed in 4 hrs @27°C	IS 3025 (Part 63) :2007	1 to 100 mg/l
		Aluminum as Al	IS 3025 (Part 2): 2004	0.01 to 10 mg /l
		Selenium as Se	RA 2014	0.01 to 10 mg/l
		Iron as Fe		0.01 to 10 mg/l
		Magnesium as Mg		0.5 to 10 mg/l
		Manganese as Mn		0.01 to 10 mg /l
		Copper as Cu		0.01 to 10mg/ l
		Lead as Pb		0.01 to 10 mg /l
		Chromium as Cr		0.01 to 10 mg /l
		Zinc as Zn		0.5 to 10 mg /l
		Arsenic as As		0.01 to 10 mg/l
		Nitrate as Nitrogen	IS 3025 (Part 34)-1988 RA 2014 APHA 23 <sup>rd</sup> Edition-2017, Method 4500-NO <sub>3</sub> -B	1 to 100 mg /l
		Cadmium as Cd	IS 3025 (Part 2)-2004 RA 2014	0.003 to 10 mg /l
		Mercury as Hg	SOP/QP/DALPL/459, Rev 02 Issue: 01/06/2017	0.001 to 1.0 mg/l
2.	<b>Drinking Water and Packaged Drinking Water, Packaged Natural Mineral Water</b>	Colour	IS 3025 (Part 4) - 1983 RA 2017 APHA 23 <sup>rd</sup> Edition-2017, Method 2120 B	1 to 50 Unit
		Odour	IS 3025 (Part 5) – 1983 RA 2018 / APHA 23 <sup>rd</sup> Edition-2017, Method 2150 B	Agreeable/Disagreeable
		Taste	IS 3025 (Part 8)- 1984RA2017 APHA 23 <sup>rd</sup> Edition-2017, Method 2160 C	Agreeable/Disagreeable

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		Turbidity	IS 3025 (Part 10)-1984 RA 2017 / APHA 23 <sup>rd</sup> Edition-2017, Method 2130 B	1 to 100 NTU
		pH @ 25 <sup>o</sup> C	IS 3025 (Part 11)-1983 RA 2017 /APHA 23 <sup>rd</sup> Edition-2017, Method 4500H	2 to 12
		Total Hardness as CaCo3	IS 3025 (Part 21)-2009 RA 2014 / APHA 23 <sup>rd</sup> Edition-2017, Method 2340 C	1 to 500 mg / l
		Alkalinity as CaCo3	IS 3025 (Part 23)-1986 RA 2014 /APHA 23 <sup>rd</sup> Edition-2017, Method 2320 B	1 to 500 mg / l
		Iron as Fe	IS 3025 (Part 2): 2004 RA 2014	0.01 to 10 mg / l
		Chloride as Cl	IS 3025 (Part 32) 1998 RA 2014 / APHA 23 <sup>rd</sup> Edition-2017, Method 4500-Cl <sup>-</sup> B	1 to 500 mg / l
		Residual free chlorine	IS 3025 (Part 26) 1986 RA 2014	0.1 to 5 mg / l
		Total dissolved solids	IS 3025 (Part 16) 1984 RA 2017 / APHA 23 <sup>rd</sup> Edition-2017, Method 2540 B	1 to 1000 mg / l
		Calcium as Ca	IS 3025 (Part 2): 2004 RA 2014	0.5 to 200 mg / l
		Copper as Cu		0.01 to 10 mg / l
		Manganese as Mn		0.01 to 10 mg / l
		Sulphate as SO4	IS 3025 (Part 24)-1986 RA 2014 / APHA 23 <sup>rd</sup> Edition-2017, Method 4500-SO <sub>4</sub> -E	5 to 200 mg / l

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		Nitrate Nitrogen as NO <sub>3</sub>	IS 3025 (Part 34)-1988 RA 2014 APHA 23 <sup>rd</sup> Edition-2017, Method 4500-NO <sub>3</sub> -B	1 to 100 mg / l
		Fluoride as F	IS 3025 Part 60 – 2008 RA 2013 APHA 23 <sup>rd</sup> Edition-2017, Method 4500F	0.5 to 2.5 mg / l
		Mercury as Hg	SOP/QP/DALPL/459, Rev 02 Issue: 01/06/2017	0.001 to 1 mg / l
		Cadmium as Cd	IS:3025 (Part 2): 2004	0.003 to 10 mg / l
		Selenium as Se	RA 2014	0.01 to 10 mg / l
		Arsenic as AS		0.01 to 10 mg / l
		Lead as Pb		0.01 to 10 mg / l
		Zinc as Zn		0.5 to 10 mg / l
		Antimony as Sb		0.005 to 10 mg / l
		Chromium as Cr		0.01 to 10 mg / l
		Aluminum as Al		0.01 to 10 mg / l
		Boron as B		0.5 to 10 mg / l
		Barium as Ba		0.5 to 100 mg / l
		Nitrite Nitrogen as NO <sub>2</sub>	IS 3025 (Part 34)-1988 RA 2014 APHA 23 <sup>rd</sup> Edition-2017, Method 4500-NO <sub>2</sub> -B	0.02 to 0.25 mg / l
		Silver as Ag	IS 3025 (Part 2): 2004	0.01 to 10mg / l
		Magnesium as Mg	RA 2014	0.5 to 100 mg / l
		Sodium as Na		0.1 to 10 mg / l
		Nickel		0.01 to 10mg / l
		Molybdenum		0.05 to 10 mg / l
		Sulphides	IS 3025 (Part 29): 1986 RA 2014	0.01 to 10mg / l



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		Anionic detergents/Anionic surface active agents	IS 13428:2005 RA 2014 Annexure K/ APHA 23 <sup>rd</sup> Edition-2017 5540 C	0.01 to 2 mg / l
		Mineral oil	IS 3025 (Part 39): 1991 RA 2014, Method :Cl 6	0.1 to 10 mg/l
		Phenolic compounds	IS 3025 (Part 43): 1993 RA 2014	0.001 to 5 mg/l
		Ammonia	IS 3025 (Part 34)-1988 RA 2014 APHA 23 <sup>rd</sup> Edn 2017	0.5 to 10 mg/l
		Chloramines	IS 3025 (Part 26) 1987 RA 2014	0.1 to 5 mg/l
		Cyanide	IS 3025 (Part 27): 1986 RA 2014	0.02 to 1 mg/l
<b>IV.</b>	<b>RESIDUE IN WATER</b>			
<b>1.</b>	<b>Drinking Water and Packaged Drinking Water, Packaged Natural Mineral Water</b>	<b>Polychlorinated Biphenyls (PCB)s</b>		
		2,2',3,4,4',5,5'-Heptachlorobiphenyl	SOP No. QP/DALPL/461 Rev: 04 Rev Date: 09/05/2018	0.01 to 10 µg/l
		2,2',3,4,4',5'-Hexachlorobiphenyl		
		2,2',4,4',5,5'-Hexachlorobiphenyl		
		2,2',5,5'-Tetrachlorobiphenyl		
		2,4,4'-Trichlorobiphenyl		
		2,6-Dichlorobiphenyl		
		<b>Polynuclear aromatic Hydrocarbons (PAH)</b>		
		Acenaphthylene	SOP No. QP/DALPL/093 Revision No: 05 Revision Date: 09/05/2018	0.01 to 100 µg/l
		Acenaphthene		
	Anthracene			
	Benzo(a)anthracene			
	Benzo(a)pyrene			

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		Benzo(b)fluoranthene		
		Benzo(g,h,i)perylene		0.01 to 100 µg/l
		Benzo(a)pyrene		
		Chrysene		
		Dibenz(a,h)anthracene		
		Fluorene		
		Fluoranthene		
		Indeno(1,2,3,c,d)pyrene		
		Naphthalene		
		Phenanthrene		
		Pyrene		
		<b>Pesticide Residues</b>	SOP No. QP/DALPL/461	0.01 to 100 µg/l
		2,4-DDT	Revision No: 04	
		4,4-DDT	Revision Date: 09/05/2018	
		2,4-DDE		
		4,4-DDE		
		2,4-DDD		
		4,4-DDD		
		Gamma HCH (Lindane)		
		Alpha HCH		
		Delta HCH		
		Beta HCH		
		Endosulfan Sulphate		
		Alpha Endosulphan		
		Beta Endosulphan		
		Aldrin		
		Dieldrin		
		Chlorpyrifos		0.01 to 100 µg/l
		Ethion		
		2,4Dichlorophenoxyacetic acid		
		Monocrotophos		
		Isoproturon		
		Phorate		

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		Phorate Sulphone		
		Phorate Sulfoxide		
		Atrazine		
		Butachlor		
		Methyl Parathion		
		Methyl Paraaxon		
		Malathion		
		Malaaxon		
		Alachlor		
<b>IV.</b>	<b>DRUGS &amp; PHARMACEUTICALS</b>			
<b>1.</b>	<b>Drugs &amp; Pharmaceuticals Raw materials and Formulations</b>	Solubility	IP 2018 2.4.26 USP 41 Page 1477	Qualitative
		Identification by IR	IP 2018 2.4.6 A BP 2018 Appendix IIA	4000 to 600 cm <sup>-1</sup>
		Viscosity	IP 2018 2.4.28 BP 2018 Appendix V H USP 41 Chapter 911	10 to 10000 cps
		Water	IP 2018 2.3.43 BP 2018 Appendix IX C USP 41 Chapter 921	0.05 to 15 %
		Loss on ignition	IP 2018 2.4.20 USP 41 Chapter 733	0.5 to 10 %
		Residue on Ignition	USP 41 Chapter 281	0.5 to 10 %
		Total Ash	IP 2018 2.3.19 BP 2018 Appendix XI J	0.2 to 10 %
		Sulphated ash	IP 2018 2.3.18 BP 2018 Appendix IX A	0.2 to 10 %
		Content of ethanol/ alcohol by GC	IP 2018 2.3.45 BP 2018 Appendix VIII F USP 41 Chapter 611	0.1 to 50%



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		pH value (Acidity/Alkalinity)	IP 2018 2.4.24 BP 2018 Appendix V L USP 41 Chapter 631	1 to 14
	<b>Chewable Ascorbic Acid Tablets</b>	Assay (Titration)	BP 2018 vol.3 P.159	80 to150 % of label claim
	<b>Ibuprofen Tablets</b>	Identification By IR	BP 2018 vol.3 P.735	-
		Melting Point		-
		Assay by HPLC		80 to120 % of label claim
	<b>Paracetamol Tablets</b>	Identification By IR	BP 2018 vol.3 P.1038	-
		Melting Point		-
		Assay by UV		80 to 120 % of label claim
	<b>Soluble Prednisolone Tablets</b>	Dissolution By UV	BP 2018 vol.3 P.1112	80 to120 % of label claim
		Content Uniformity by HPLC		80 to120 % of Average Value

**\*NOTE:** The Laboratory has demonstrated competence for the stated scope for **WATER**. This however **does not fully cover** the specification requirements of **BIS for the Packaged Drinking Water as per IS:14543 and the Packaged Natural Mineral Water IS:13428**.