

Laboratory **Annoor Envirochem and Food Analytical Laboratory, K.V.S.R. Siddhardha College of Pharmaceutical Sciences, SPIIC Block, IIIrd Floor, Pinnamaneni Polyclinic Road, Siddhardha Nagar, Vijayawada, Andhra Pradesh**

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

Certificate Number **TC-8097**

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Validity **19.11.2018 to 18.11.2020**

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Sl.	Product / Material	Specific Test Performed	Test Method Specification	Range of Testing /
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BIOLOGICAL TESTING

I. FOOD & AGRICULTURAL PRODUCTS				
1.	Milk and Dairy Products (Raw Milk, Standardized Milk, Toned Milk, Skimmed Milk, Pasteurized Milk, Boiled Milk, Evaporated Milk, Butter Milk, Curd, Panner, Chesse, Yoghurt, Milk Powder, Peanut Butter & Other Processed Milk Products, Milk Sweets)	Total Bacterial Count/ Total Plate Count/ Aerobic Plate Count	IS 5402	≥ 1 cfu/ml; ≥10 cfu/g
		Total Coliforms	IS 5401 (Part 2)	Absent/Present/ g or ml
		Total Coliforms	IS 5401 (Part 1)	≥ 1 cfu/ml; ≥10 cfu/g
		Total Coliforms	IS 5401 (Part 2)	0.3 to 110MPN/g or ml
		E.coli	IS 5887 (Part 1)	Absent/Present/g or ml
		E.coli	ISO 16649 (Part 2)	≥ 1 cfu/ml; ≥10 cfu/g
		E.coli	IS 5887 (Part 1)	0.3 to 110MPN/g or ml
		Staphylococcus aureus	IS 5887 (Part 2)	Absent/Present/g or ml
		Staphylococcus aureus	IS 5887 (Part 8/Sec 1)	≥ 1 cfu/ml; ≥10 cfu/g
		Enterobacteriaceae	IS/ISO 7402	≥ 1 cfu/ml; ≥10 cfu/g ≥
		Enterobacteriaceae	IS/ISO 7402	0.3 to 110MPN/g or ml
		Listeria monocytogenes	IS 14988 (Part 1)	Absent/Present/25g or ml
		Salmonella	IS 5887 (Part 3)	Absent/Present/25g or ml
		Shigella	IS 5887 (Part 7)	Absent/Present/25g or ml
		Bacillus cereus	IS 5887 (Part 6)	≥ 1 cfu/ml; ≥10 cfu/g
		Clostridium perfringens	IS 5887 (Part 4)	Absent/Present/g or ml
		Clostridium perfringens	IS 5887 (Part 4)	≥ 1 cfu/ml; ≥10 cfu/g
Vibrio cholerae	IS 5887 (Part 5)	Absent/Present/25g or ml		
Vibrio parahaemolyticus	IS 5887 (Part 5)	Absent/Present/ 25g or ml		
Faecal streptococci	IS 5887 (Part 2)	1 cfu/ml; ≥10 cfu/g		
Faecal streptococci	IS 5887 (Part 2)	0.3 to 110MPN/g or ml		
Yeast & Moulds	IS 5403	≥ 1 cfu/ml; ≥10 cfu/g		

Amit Kumar
Convenor

Anuja Anand
Program Manager

Laboratory Annoor Envirochem and Food Analytical Laboratory, K.V.S.R. Siddhardha College of Pharmaceutical Sciences, SPIIC Block, IIIrd Floor, Pinnamaneni Polyclinic Road, Siddhardha Nagar, Vijayawada, Andhra Pradesh

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Sl.	Product / Material	Specific Test Performed	Test Method Specification	Range of Testing /
		Lactic acid bacteria	IS 16068	≥ 1 cfu/ml; ≥10 cfu/g
2.	Spices & Condiments (Cardamom, Chilies and Capsicum, Cinnamon, Cloves, Coriander, Cumin, Fennel, Fenugreek, Ginger, Mace, Mustard, Nutmeg, Black Pepper, Poppy, Saffron, Turmeric, Pepper, Curry Powder, Mix Masala, Dried Masala, Garlic & Onion Paste, Asafoetida)	Total Bacterial Count/ Total Plate Count/ Aerobic Plate Count	IS 5402	≥ 1 cfu/ml; ≥10 cfu/g
Total Coliforms		IS 5401 (Part 2)	Absent/Present/g or ml	
Total Coliforms		IS 5401 (Part 1)	≥ 1 cfu/ml; ≥10 cfu/g	
Total Coliforms		IS 5401 (Part 2)	0.3 to 110MPN/g or ml	
E.coli		IS 5887 (Part 1)	Absent/Present/g or ml	
E.coli		ISO 16649 (Part 2)	≥ 1 cfu/ml; ≥10 cfu/g	
E.coli		IS 5887 (Part 1)	0.3 to 110MPN/g or ml	
Staphylococcus aureus		IS 5887 (Part 2)	Absent/Present/g or ml	
Staphylococcus aureus		IS 5887 (Part 8/Sec 1)	≥ 1 cfu/ml; ≥10 cfu/g	
Enterobacteriaceae		IS/ISO 7402	≥ 1 cfu/ml; ≥10 cfu/g	
Enterobacteriaceae		IS/ISO 7402	0.3 to 110MPN/g or ml	
Listeria monocytogenes		IS 14988 (Part 1)	Absent/Present/25g or ml	
Salmonella		IS 5887 (Part 3)	Absent/Present/25g or ml	
Shigella		IS 5887 (Part 7)	Absent/Present/25g or ml	
Clostridium perfringens		IS 5887 (Part 4)	Absent/Present/g or ml	
Vibrio cholerae		IS 5887 (Part 5)	Absent/Present/25g or ml	
Vibrio parahaemolyticus		IS 5887 (Part 5)	Absent/Present/ 25g or ml	
		Faecal streptococci	IS 5887 (Part 2)	0.3 to 110MPN/g or ml
		Faecal streptococci	IS 5403	≥ 1 cfu/ml; ≥10 cfu/g
		Yeast & Moulds		
3.	Snacks, Instant Mixes & Ready to Eat Foods (Veg Cutlet, Sandwich,	Total Bacterial Count/ Total Plate Count/ Aerobic Plate Count	IS 5402	≥ 1 cfu/ml; ≥10 cfu/g
Total Coliforms		IS 5401 (Part 2)	Absent/Present/ g or ml	
Total Coliforms		IS 5401 (Part 1)	≥ 1 cfu/ml; ≥10 cfu/g	

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Sl.	Product / Material	Specific Test Performed	Test Method Specification	Range of Testing /
	Vegetable Based Snack, Cereal Based Snack, Other Traditional Snack, Biscuit,	Total Coliforms	IS 5401 (Part 2)	0.3 to 110MPN/g or ml
		E.coli	IS 5887 (Part 1)	Absent/Present/g or ml
		E.coli	ISO 16649 (Part 2)	≥ 1 cfu/ml; ≥10 cfu/g
		E.coli	IS 5887 (Part 1)	0.3 to 110MPN/g or ml
	Cereal Based Instant Mix, Vegetable Based Instant Mix, Proprietary Food, Crispy Rice Terets, Chips, Cooked Foods And Ready to Eat Food)	Staphylococcus aureus	IS 5887 (Part 2)	Absent/Present/g or ml
		Staphylococcus aureus	IS 5887 (Part 8/Sec 1)	≥ 1 cfu/ml; ≥10 cfu/g
		Enterobacteriaceae	IS/ISO 7402	≥ 1 cfu/ml; ≥10 cfu/g
		Enterobacteriaceae	IS/ISO 7402	0.3 to 110MPN/g or ml
		Listeria monocytogenes	IS 14988 (Part 1)	Absent/Present/25g or ml
		Salmonella	IS 5887 (Part 3)	Absent/Present/25g or ml
		Shigella	IS 5887 (Part 7)	Absent/Present/25g or ml
		Bacillus cereus	IS 5887 (Part 6)	≥ 1 cfu/ml; ≥10 cfu/g
		Clostridium perfringens	IS 5887 (Part 4)	Absent/Present/g or ml
		Vibrio cholerae	IS 5887 (Part 5)	Absent/Present/25g or ml
		Vibrio parahaemolyticus	IS 5887 (Part 5)	Absent/Present/ 25g or ml
		Faecal streptococci	IS 5887 (Part 2)	0.3 to 110MPN/g or ml
		Yeast & Moulds	IS 5403	≥ 1 cfu/ml; ≥10 cfu/g
4. Canned & Processed Foods (Tetra Pack Foods, Retort Pouch Foods, Canned Foods, Mayonnaise)	Total Bacterial Count/ Total Plate Count/ Aerobic Plate Count	IS 5402	≥ 1 cfu/ml; ≥10 cfu/g	
	Total Coliforms	IS 5401 (Part 2)	Absent/Present/ g or ml	
	Total Coliforms	IS 5401 (Part 1)	≥ 1 cfu/ml; ≥10 cfu/g	
	Total Coliforms	IS 5401 (Part 2)	0.3 to 110MPN/g or ml	
	E.coli	IS 5887 (Part 1)	Absent/Present/g or ml	
	E.coli	ISO 16649 (Part 2)	≥ 1 cfu/ml; ≥10 cfu/g	
	E.coli	IS 5887 (Part 1)	0.3 to 110MPN/g or m	
	Staphylococcus aureus	IS 5887 (Part 2)	Absent/Present/g or ml	
	Enterobacteriaceae	IS/ISO 7402	≥ 1 cfu/ml; ≥10 cfu/g	
	Enterobacteriaceae	IS/ISO 7402	0.3 to 110MPN/g or ml	

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Sl.	Product / Material	Specific Test Performed	Test Method Specification	Range of Testing /
		Listeria monocytogenes	IS 14988 (Part 1)	Absent/Present/25g or ml
		Salmonella	IS 5887 (Part 3)	Absent/Present/25g or ml
		Shigella	IS 5887 (Part 7)	Absent/Present/25g or ml
		Clostridium perfringens	IS 5887 (Part 4)	Absent/Present/g or ml
		Vibrio cholerae	IS 5887 (Part 5)	Absent/Present/25g or ml
		Vibrio parahaemolyticus	IS 5887 (Part 5)	Absent/Present/ 25g or ml
		Faecal streptococci	IS 5887 (Part 2)	0.3 to 110MPN/g or ml
		Yeast & Moulds	IS 5403	≥ 1 cfu/ml; ≥10 cfu/g
5.	Beverages (Alcoholic & Nonalcoholic) (Mango Juice, Beer, Soda Water, Apple Juice, Wine, Brandy, Rum, Whisky, Scotch, Vodka, Gin, Carbonated Drinks & Fermented fruit juice)	Total Bacterial Count/ Total Plate Count/ Aerobic Plate Count	IS 5402	≥ 1 cfu/ml; ≥10 cfu/g
		Total Coliforms	IS 5401 (Part 2)	Absent/Present/ g or ml
		Total Coliforms	IS 5401 (Part 1)	≥ 1 cfu/ml; ≥10 cfu/g
		Total Coliforms	IS 5401 (Part 2)	0.3 to 110MPN/g or ml
		E.coli	IS 5887 (Part 1)	Absent/Present/g or ml
		E.coli	ISO 16649 (Part 2)	≥ 1 cfu/ml; ≥10 cfu/g
		E.coli	IS 5887 (Part 1)	0.3 to 110MPN/g or ml
		Staphylococcus aureus	IS 5887 (Part 2)	Absent/Present/g or ml
		Enterobacteriaceae	IS/ISO 7402	≥ 1 cfu/ml; ≥10 cfu/g
		Enterobacteriaceae	IS/ISO 7402	0.3 to 110MPN/g or ml
		Salmonella	IS 5887 (Part 3)	Absent/Present/25g or ml
		Shigella	IS 5887 (Part 7)	Absent/Present/25g or ml
		Clostridium perfringens	IS 5887 (Part 4)	Absent/Present/g or ml
		Vibrio cholerae	IS 5887 (Part 5)	Absent/Present/25g or ml
		Vibrio parahaemolyticus	IS 5887 (Part 5)	Absent/Present/ 25g or ml
	Faecal streptococci	IS 5887 (Part 2)	0.3 to 110MPN/g or ml	
	Yeast & Moulds	IS 5403	≥ 1 cfu/ml; ≥10 cfu/g	
6.	Cereals, Pulses And Cereal Products	Total Bacterial Count/ Total Plate Count/ Aerobic Plate Count	IS 5402	≥ 1 cfu/ml; ≥10 cfu/g

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Sl.	Product / Material	Specific Test Performed	Test Method Specification	Range of Testing /
	(Rice, wheat, maize, chana, wheat flour, soya flour, corn flour, besan, soyadal analogue, cornflakes, suji, fortified rice, Atta, Fortified Atta, Fortified Maida, Protein rich, Paushtik Maida, Sago)	Total Coliforms	IS 5401 (Part 2)	Absent/Present/ g or ml
		Total Coliforms	IS 5401 (Part 1)	≥ 1 cfu/ml; ≥10 cfu/g
		Total Coliforms	IS 5401 (Part 2)	0.3 to 110MPN/g or ml
		E.coli	IS 5887 (Part 1)	Absent/Present/g or ml
		E.coli	ISO 16649 (Part 2)	≥ 1 cfu/ml; ≥10 cfu/g
		E.coli	IS 5887 (Part 1)	0.3 to 110MPN/g or ml
		Staphylococcus aureus	IS 5887 (Part 2)	Absent/Present/g or ml
		Staphylococcus aureus	IS 5887 (Part 8/Sec 1)	≥ 1 cfu/ml; ≥10 cfu/g
		Enterobacteriaceae	IS/ISO 7402	≥ 1 cfu/ml; ≥10 cfu/g
		Enterobacteriaceae	IS/ISO 7402	0.3 to 110MPN/g or ml
		Listeria monocytogenes	IS 14988 (Part 1)	Absent/Present/25g or ml
		Salmonella	IS 5887 (Part 3)	Absent/Present/25g or ml
		Shigella	IS 5887 (Part 7)	Absent/Present/25g or ml
		Bacillus cereus	IS 5887 (Part 6)	≥ 1 cfu/ml; ≥10 cfu/g
7.	Bakery & Confectionary (Bread, Cookies, Cake, Pastries, Pizza, Rusk, Biscuits, Sugar Boiled Confectionary, Chocolate, Ice	Total Bacterial Count/ Total Plate Count/ Aerobic Plate Count	IS 5402	≥ 1 cfu/ml; ≥10 cfu/g
		Total Coliforms	IS 5401 (Part 2)	Absent/Present/ g or ml
		Total Coliforms	IS 5401 (Part 1)	≥ 1 cfu/ml; ≥10 cfu/g
		Total Coliforms	IS 5401 (Part 2)	0.3 to 110MPN/g or ml
		E.coli	IS 5887 (Part 1)	Absent/Present/g or ml
		E.coli	ISO 16649 (Part 2)	≥ 1 cfu/ml; ≥10 cfu/g
		E.coli	IS 5887 (Part 1)	0.3 to 110MPN/g or ml
		Staphylococcus aureus	IS 5887 (Part 2)	Absent/Present/g or ml

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	lollies or Edible ices, Ice Candy)	Staphylococcus aureus	IS 5887 (Part 8/Sec 1)	≥ 1 cfu/ml; ≥10 cfu/g	
		Enterobacteriaceae	IS/ISO 7402	≥ 1 cfu/ml; ≥10 cfu/g	
		Enterobacteriaceae	IS/ISO 7402	0.3 to 110MPN/g or ml	
		Listeria monocytogenes	IS 14988 (Part 1)	Absent/Present/25g or ml	
		Salmonella	IS 5887 (Part 3)	Absent/Present/25g or ml	
		Shigella	IS 5887 (Part 7)	Absent/Present/25g or ml	
		Bacillus cereus	IS 5887 (Part 6)	≥ 1 cfu/ml; ≥10 cfu/g	
		Clostridium perfringens	IS 5887 (Part 4)	Absent/Present/g or ml	
		Vibrio cholerae	IS 5887 (Part 5)	Absent/Present/25g or ml	
		Vibrio parahaemolyticus	IS 5887 (Part 5)	Absent/Present/ 25g or ml	
		Faecal streptococci	IS 5887 (Part 2)	0.3 to 110MPN/g or ml	
		Yeast & Moulds	IS 5403	≥ 1 cfu/ml; ≥10 cfu/g	
8.		Food Additives (Food Colour, Vinegar, Artificial Sweeteners, Bakery Yeast)	Total Bacterial Count/ Total Plate Count/ Aerobic Plate Count	IS 5402	≥ 1 cfu/ml; ≥10 cfu/g
			Total Coliforms	IS 5401 (Part 2)	Absent/Present/ g or ml
	Total Coliforms		IS 5401 (Part 1)	≥ 1 cfu/ml; ≥10 cfu/g	
	Total Coliforms		IS 5401 (Part 2)	0.3 to 110MPN/g or ml	
	E.coli		IS 5887 (Part 1)	Absent/Present/g or ml	
	E.coli		ISO 16649 (Part 2)	≥ 1 cfu/ml; ≥10 cfu/g	
	E.coli		IS 5887 (Part 1)	0.3 to 110MPN/g or ml	
	Staphylococcus aureus		IS 5887 (Part 2)	Absent/Present/g or ml	
	Enterobacteriaceae Method		IS/ISO 7402	≥ 1 cfu/ml; ≥10 cfu/g	
	Enterobacteriaceae		IS/ISO 7402	0.3 to 110MPN/g or ml	
	Listeria monocytogenes		IS 14988 (Part 1)	Absent/Present/25g or ml	
	Salmonella		IS 5887 (Part 3)	Absent/Present/25g or ml	
	Shigella		IS 5887 (Part 7)	Absent/Present/25g or ml	
	Clostridium perfringens		IS 5887 (Part 4)	Absent/Present/g or ml	

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		Vibrio cholerae	IS 5887 (Part 5)	Absent/Present/25g or ml
		Vibrio parahaemolyticus	IS 5887 (Part 5)	Absent/Present/ 25g or ml
		Faecal streptococci	IS 5887 (Part 2)	0.3 to 110MPN/g or ml
		Yeast & Moulds	IS 5403	≥ 1 cfu/ml; ≥10 cfu/g
II.	ANIMAL FOOD & FEEDS			
1.	Animal Food & Feeds	Total Bacterial Count/ Total Plate Count/ Aerobic Plate Count	IS 5402	≥ 1 cfu/ml; ≥10 cfu/g
		Total Coliforms	IS 5401 (Part 2)	Absent/Present/ g or ml
		Total Coliforms	IS 5401 (Part 1)	≥ 1 cfu/ml; ≥10 cfu/g
		Total Coliforms	IS 5401 (Part 2)	0.3 to 110MPN/g or ml
		E.coli	IS 5887 (Part 1)	Absent/Present/g or ml
		E.coli	ISO 16649 (Part 2)	≥ 1 cfu/ml; ≥10 cfu/g
		E.coli	IS 5887 (Part 1)	0.3 to 110MPN/g or ml
		Staphylococcus aureus	IS 5887 (Part 2)	Absent/Present/g or ml
		Enterobacteriaceae	IS/ISO 7402	≥ 1 cfu/ml; ≥10 cfu/g
		Enterobacteriaceae	IS/ISO 7402	0.3 to 110MPN/g or ml
		Listeria monocytogenes	IS 14988 (Part 1)	Absent/Present/25g or ml
		Salmonella	IS 5887 (Part 3)	Absent/Present/25g or ml
		Shigella	IS 5887 (Part 7)	Absent/Present/25g or ml
		Clostridium perfringens	IS 5887 (Part 4)	Absent/Present/g or ml
		Vibrio cholerae	IS 5887 (Part 5)	Absent/Present/25g or ml
		Vibrio parahaemolyticus	IS 5887 (Part 5)	Absent/Present/ 25g or ml
		Faecal streptococci	IS 5887 (Part 2)	0.3 to 110MPN/g or ml
		Yeast & Moulds	IS 5403	≥ 1 cfu/ml; ≥10 cfu/g
III.	WATER			

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Sl.	Product / Material	Specific Test Performed	Test Method Specification	Range of Testing /
1.	Drinking Water, Ground Water/ Surface Water, RO Water, Recreational water	Total Bacterial Count/ Total Plate Count/ Aerobic Plate Count	IS 1622	≥ 1 cfu/ml
		Total Coliforms MF Method	IS 1622	Present-Absent per 100 ml
		Total Coliforms	IS 1622	<2 to1600 MPN/100ml
		Faecal Coliforms MF Method	IS 1622	Present-Absent per 100 ml
		Faecal Coliforms	IS 1622	1 to1600 MPN/100ml
		E.coli MF Method	IS 1622	Present-Absent per 100 ml
		E.coli	IS 1622	<2 to1600 MPN/100ml
2.	Water for Swimming Pools	Standard Plate Count	IS 3328	≥ 1 cfu/ml
		Total Coliforms	IS 1622	<2 to1600 MPN/100ml
		E.coli	IS 1622	<2 to1600 MPN/100ml
3.	Water for Processed Food Industry	Total Bacterial Count/ Total Plate Count/ Aerobic Plate Count	IS 1622	≥ 1 cfu/ml
		Total Coliforms	IS 1622	<2 to161 MPN/100ml
		Proteolytic Bacteria count	IS 4251	≥1 cfu /ml
		Lipolytic Bacteria Count	IS 4251	≥1 cfu /ml
		Thermophilic bacteria Count	IS 4251	≥1 cfu /ml
4.	Packaged Drinking Water /	Total viable colony count at 37°C for 24 hrs	IS 5402	≥1 cfu /ml

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Sl.	Product / Material	Specific Test Performed	Test Method Specification	Range of Testing /
	Packaged Natural Mineral Water	Total viable colony count at 20-22°C for 72 hrs	IS 5402	≥1 cfu /ml
		Yeast & Moulds	IS 5403	(Absent/Present)/250 ml
		Coliforms	IS 15185	(Absent/Present)/250 ml
		E.coli	IS 15185	(Absent/Present)/250 ml
		Faecal streptococci	IS 15186	(Absent/Present)/250 ml
		Salmonella	IS 15187	(Absent/Present)/250 ml
		Shigella	IS 5887 (Part 7)	(Absent/Present)/250 ml
		Pseudomonas aeruginosa	IS 13428 (Annexure D)	(Absent/Present)/250 ml
		Staphylococcus aureus	IS 5887 (Part 2)	(Absent/Present)/250 ml
		Sulphite reducing anaerobes	IS 13428 (Annexure C)	(Absent/Present)/50 ml
		Vibrio cholerae	IS 5887 (Part 5)	(Absent/Present)/250 ml
	Vibrio parahaemolyticus	IS 5887 (Part 5)	(Absent/Present)/250 ml	
IV.	ENVIRONMENT AND POLLUTION			
1.	Air Monitoring (Settle Plate Method)	Aerobic Plate Count /Total Microbial Count	APHA 5 th Edition, Chapter 3/AEFAL/SOP/MIC/018	≥1cfu /Plate
		Yeast & Moulds	APHA 5 th Edition, Chapter 3/AEFAL/SOP/MIC/018	≥1cfu /Plate
2.	Surface Monitoring (Swab Method) Equipment Swabs, Floor Swabs, Wall Swabs, Hand Swab	Aerobic Plate Count /Total Microbial Count	APHA 5 th Edition, Chapter 3/ AEFAL/SOP/MIC/018	≥10 cfu /Swab or ml of rinse or per cm ²
		Yeast & Moulds	APHA 5 th Edition, Chapter 3/AEFAL/SOP/MIC/018	≥10 cfu /Swab or ml of rinse or per cm ²

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3.	Pollution Water Waste water/ Treated water	Heterotrophic Plate Count/ Total Bacterial Count	APHA 23rd Edn. 9215 B	≥1 cfu /ml
		Total Coliforms	APHA 23rd Edn. 9221 B	1.8 to 1600 MPN /100 ml
		Faecal Coliforms	APHA 23rd Edn. 9221 E	1.8 to 1600 MPN /100 ml
		E.coli	APHA 23rd Edn. 9221 F	1.8 to 1600 MPN /100 ml
		Enterococci / Faecal Streptococci	APHA 23rd Edn. 9230 B	1.8 to 1600 MPN /100 ml

CHEMICAL TESTING

I.	FOOD & AGRICULTURAL PRODUCTS			
A.	Milk and Dairy Products			
1.	Dry Milk Powder Includes Skimmed Milk Powder	Moisture	IS 16072/AOAC 20th Edition 927.05/FSSAI Manual 2016 Milk and Milk Products	1 % to 10 %

**Amit Kumar
Convenor**

**Anuja Anand
Program Manager**

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		Milk fat	IS 1165/IS 11721/AOAC 20th Edition 932.06/FSSAI Manual 2016 Milk and Milk Products	0.5 % to 20 %
		Total ash	AOAC 20th Edition 930.30/IS 14433/IS 1165/FSSAI Manual 2016 Milk and Milk Products	0.1 % to 10 %
		Ash insoluble in Dil HCl	IS 1656/IS 14433/FSSAI Manual 2016 Milk and Milk Products	0.01 % to 10 %
		Total milk protein	AOAC 20th Edition 930.29/ IS 7219/FSSAI Manual 2016 Milk and Milk Products	5 % to 50 %
2.	Butter Pasteurized, Cheese, Khova and Paneer	Moisture	AOAC 20 th Edition 926.08/920.116/FSSAI Manual 2016 Milk and Milk Products	1 % to 80 %
		Ash	AOAC 20 th Edition 935.42/FSSAI Manual 2016 Milk and Milk Products	0.1 % to 6 %
		Fat	AOAC 20 th Edition 933.05/FSSAI Manual 2016 Milk and Milk Products	10 % to 85 %
		Protein	AOAC 20 th Edition 2001.14/IS 7219/FSSAI Manual 2016 Milk and Milk Products	0.1 % to 50 %
3.	Ghee	R.M Value	FSSAI Manual, 2016 Milk and Milk Products	5 to 50

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		Polenske Value	FSSAI Manual, 2016 Milk and Milk Products	0.1 to 25
		Moisture	FSSAI Manual, 2016 Milk and Milk Products	0.1 % to 65 %
		Peroxide Value	FSSAI Manual, 2016 Milk and Milk Products	0.5meq/kg to 25 meq/kg
		Free Faty Acid (Oleic Acid)	FSSAI Manual, 2016 Milk and Milk Products	0.1 % to 1 %
		B.R Reading at 40° C	FSSAI Manual, 2016 Milk and Milk Products	35 to 50
4.	Ice Cream	Total Solids	FSSAI Manual, 2016 Milk and Milk Products	10 % to 50 %
		Milk Fat	FSSAI Manual, 2016 Milk and Milk Products	1 % to 20 %
		Protein	FSSAI Manual, 2016 Milk and Milk Products	1 % to 15 %
5.	Milk	Fat	FSSAI Manual, 2016 Milk and Milk Products	0.5 % to 12 %
		Total Solids	FSSAI Manual, 2016 Milk and Milk Products	5 % to 25 %
B.	Bakery Products			
1.	Biscuits, Cakes, Cookies and Rusk	Total Solid	IS 12711	10 % to 98 %
		Alcoholic Acidity	IS 12711	0.01 % to 5 %
		Moisture	IS 12711	0.1 % to 20 %
		Protein	IS 7219, AOAC 20 th Edition 920.176	0.1 % to 40 %

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		Total Ash	IS 12711	0.1 % to 20 %
		Acid Insoluble Ash	IS 12711	0.01 % to 2 %
		Acidity of Extracted Fat	IS 12711	0.01 % to 2 %
		Sucrose	IS 6287	0.1 % to 85 %
		Fat	IS 12711	0.1 % to 40 %
		Crude Fiber	IS 12711	0.1 % to 5 %
		pH	IS 12711	2 to 12
		Fruits in fruit bread/cake	IS 12711	0.1 % to 40 %
C.	Confectionery Products in Bread			
1.	Hard Boiled Confectionery, Sugar Boiled Confectionery Chocolate, Bubble Gum	Milk Solid	IS 1163	10 % to 98 %
		Moisture	IS 6287	0.1 % to 20 %
			IS 6747	
		Protein	IS 7219	0.1 % to 40 %
		Total Ash	IS 6287	0.1 % to 20 %
		Acid Insoluble Ash	IS 6287	0.01 % to 2 %
			IS 6747	
			IS 1163	
		Sucrose	IS 6287	0.1 % to 85 %
			IS 6747	
			IS 1163	
C.	Spices and Condiments			
1.	Chilli Powder/ Dhaniya Powder/ Jeera Powder/ Pepper Powder/ Turmeric Powder/ Bay Leaf, Mustard, Yellow Mustard Powder, Dehydrated	Moisture	IS 1797	1 % to 10 %
		Total Ash	IS 1797	0.5 % to 10 %
		Acid insoluble ash	IS 1797	0.1 % to 1.0 %
		Crude Fibre	IS 1797	0.5 % to 30 %
		Water Insoluble Ash	IS 1797	0.01 % to 25 %
		Alcohol Soluble extract	IS 1797	0.1 % to 25 %
		Cold water Soluble extract	IS 1797	0.1 % to 50 %
		Nonvolatile Ether Extract	IS 1797	0.1 % to 50 %
		Volatile oil	IS 1797	0.1 % to 25 %

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Siddhardha College of Pharmaceutical Sciences, SPIIC Block, IIIrd
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Andhra Pradesh

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	Tarragon Leaves, Onion Flakes, Cumin Seeds, Dill Seeds, Celery Seeds, Chopped Garlic	Starch	IS 4706	10 % to 80 %
D.	Cereals, Pulses and Byproducts			
1.	Wheat Flour, Rice Flour, Toor dal	Moisture	IS 1155 Appendix A/FSSAI Manual, 2016 Cereals and cereals products	0.01 % to 25 %
		Total ash	IS 1155 Appendix B/FSSAI Manual, 2016 Cereals and cereals products	0.01 % to 25 %
		Crude fiber	IS 1155 Appendix E/FSSAI Manual, 2016 Cereals and cereals products	0.05 % to 50 %
		Protein	IS 7219	0.1 % to 50 %
		Acid insoluble ash	IS 1155 Appendix C/FSSAI Manual, 2016 Cereals and cereals products	0.01 % to 50 %
		Alcoholic Acidity	IS 1155 Appendix F/FSSAI Manual, 2016 Cereals and cereals products	0.05 % to 25 %
E.	Honey and Honey Products			
1.	Honey	Ash	IS 4941	0.01 % to 25 %
		Acidity	IS 4941	0.1 % to 10 %
		Specific gravity at 27°C	IS 4941 Annexure A	1.000 to 1.5000
		Moisture	IS 4941 Annexure B	10 % to 30 %
		Total reducing sugar	IS 4941 Annexure C	10 % to 90 %
		Sucrose	IS 4941 Annexure C	0.1 % to 30 %

Amit Kumar
Convenor

Anuja Anand
Program Manager

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		Fructose-Glucose ratio	IS 4941 Annexure C	0.5 to 30
		Fehes Test	IS 4941 Annexure F	Qualitative
		Hydroxyl Methyl Furfural test	IS 4941 Annexure F	1 mg/kg to 80 mg/kg
		Ash in soluble in dil.HCl	IS 4941	0.05 % to 0.5%
		Carbohydrates	AEFAL/SOP/CHE/025 Issue No. 01& Issue Date:11.06.2018	50 % to 90%
		Energy	AEFAL/SOP/CHE/027 Issue No. 01& Issue Date:11.06.2018	350 kcal/100 g to 600 kcal/100 g
		Freedom from foreign matter	IS 4941	Qualitative
		Total Solids	IS 4941	70 % to 95 %
F.	Oil, Fats and Related Products			
1.	Sunflower Oil, Ground Nut Oil, Coconut Oil, Castor Oil, Crude Palm Oil	Acid Value	IS 548 (Part 1)	0.1 to 25
		Iodine Value	IS 548 (Part 1)	7.5 to 200
		Saponification Value	IS 548 (Part 1)	100 to 300
		Unsaponifiable matter	IS 548 (Part 1)	0.1 to 30
		Peroxide Value	IS 548 (Part 1)	0.5 meq/kg to 250 meq/kg
		Refractive index at 40 °C	IS 548 (Part 1)	1.3 to 1.7
		Moisture	IS 548 (Part 1)	0.001 % to 10 %
		Polanske Value	IS 548 (Part 1)	5 to 25
		RM value	IS 548 (Part 1)	0.1 to 45
		Specific gravity @ 30°C	IS 548 (Part 1)	0.5 to 1.9
		Free Fatty acids	IS 548 (Part 1)	0.01 % to 25 %
G.	Meat and Meat Products			
1.	Meat and Meat Products	Moisture	AOAC 950.46 20th edition	10 % to 50 %
		Ash	AOAC 920.15 20th edition	0.1 % to 5 %

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		pH	FSSAI manual for Meat and Meat products	3 to 9
		Total Fat	FSSAI manual for Meat and Meat products	0.1% to 35 %
		Protein	IS 7219/FSSAI manual, for Meat and Meat products	0.1 % to 40 %
		Carbohydrates	AEFAL/SOP/CHE/025 Issue No. 01& Date:11.06.2018	5 % to 90 %
		Energy	AEFAL/SOP/CHE/027 Issue No. 01& Date:11.06.2018	50 kcal/100 g to 450 kcal/100 g
H.	Nuts, Rasins & Dry Fruits			
1.	Nuts, Raisins & Dry Fruits	Moisture	AOAC 920.40 20th edition	0.1 % to 15 %
		Ash	IS 4684	0.1 % to 10 %
		Total fat	AOAC 948.22 20th edition	10 % to 90 %
		Total protein	IS 7219	0.1 % to 60 %
		Carbohydrates	AEFAL/SOP/CHE/025 Issue No. 01& Date:11.06.2018	5.0 % to 85 %
		Energy	AEFAL/SOP/CHE/027 Issue No. 01& Date:01.08.2018	10 kcal/100 g to 900 kcal/100 g
		Extraneous Veg Matter	AEFAL/SOP/CHE/030 Issue No. 01& Date:01.08.2018	0.1 % to 10.0 %
		Insect Fragments	AEFAL/SOP/CHE/030 Issue No. 01& Date:01.08.2018	0.1% to 5 %

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		Damaged kernel including slightly damaged kernel	AEFAL/SOP/CHE/030 Issue No. 01& Date:01.08.2018	0.1 % to 5 %
		Extraneous matter	AEFAL/SOP/CHE/030 Issue No. 01& Date:01.08.2018	Upto 1%
		Blemished/damaged units	AEFAL/SOP/CHE/030 Issue No. 01& Date:01.08.2018	0.1 % to 2 %
		Damaged/Discolored units	AEFAL/SOP/CHE/030 Issue No. 01& Date:01.08.2018	0.1 % to 2 %
		Damaged Raisins	AEFAL/SOP/CHE/030 Issue No. 01& Date:01.08.2018	0.1 % to 2 %
		Sugared Raisins	AEFAL/SOP/CHE/030 Issue No. 01& Date:01.08.2018	0.1 % to 15 %
		Unopened shells	AEFAL/SOP/CHE/030 Issue No. 01& Date:01.08.2018	0.1 % to 2 %
		Empty shells	AEFAL/SOP/CHE/030 Issue No. 01& Date:01.08.2018	0.1 % to 1 %
		Mouldy Shells	AEFAL/SOP/CHE/030 Issue No. 01& Date:01.08.2018	0.1 % to 2 %
I.	Fruits & Fruit products			
1.	Fruit & Fruit Products, Jams,	Total Soluble Solids	FSSAI manual for fruits and Vegetables/ Refractometer Method	1 % to 90 %

Amit Kumar
Convenor

Anuja Anand
Program Manager

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	Juices, Sauces & Concentrates	Total Sugars	FSSAI manual for fruits and Vegetables	0.4 % to 95 %
		Reducing Sugar	FSSAI manual for fruits and Vegetables	0.4 % to 95 %
		Added Sugar	FSSAI manual for fruits and Vegetables	0.4 % to 95 %
		pH	FSSAI manual for fruits and Vegetables	1 to 13
		Acidity (Acetic Acid/Citric Acid)	FSSAI manual for fruits and Vegetables	0.01 % to 10 %
		Sodium	AEFAL/SOP/CHE/031 Issue No. 01& Date:01.08.2018 IS 9497	10 mg/kg to 1000 mg/kg
		Potassium	AEFAL/SOP/CHE/031 Issue No. 01& Date:01.08.2018 IS 9497	25 mg/kg to 1000 mg/kg
J.	Animal Food & Feeds			
1.	Pet Foods, Groundnut meal	Moisture	IS 7874 (part 1)	1 % to 15 %
		Ash	IS 7874 (part 1)	0.5 % to 20 %
		Acid Insoluble Ash	IS 7874 (part 1)	0.01 % to 5 %
		Crude Protein	IS 7219	5 % to 90 %
		Crude Fat	IS 7874 (part 1)	1 % to 20 %
		Carbohydrates	AEFAL/SOP/CHE/025 Issue No. 01& Date:11.06.2018	1 % to 70 %
		Crude Fiber	IS 7874 (part 1)	0.1 % to 30 %
		Acidity of Extracted Fat	IS 7874 (part 1)	0.1 % to 15 %
		Sodium	AEFAL/SOP/CHE/031	1 mg/kg to 50000 mg/kg

Amit Kumar
Convenor

Anuja Anand
Program Manager

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			Issue No. 01& Date:01.08.2018 IS 9497:1980 (RA2015)	
		Potassium	AEFAL/SOP/CHE/031 Issue No. 01& Date:01.08.2018 IS 9497	1 mg/kg to 50000 mg/kg
II.	WATER			
1.	Drinking Water/ Packaged Drinking Water	Taste	IS 3025 (Part 8), APHA (23nd Edition) 2160 C	Qualitative (Agreeable/ Not agreeable)
		Colour	IS 3025 (Part 4), APHA (23nd Edition) 2120 B& C	2 Hazen to 100 Hazen Visual comparison method
		Odour	IS 3025 (Part 5), APHA (23nd Edition) 2150 C	Qualitative(Agreeable/ Not agreeable)
		Turbidity	IS 3025 (Part 10), APHA (23nd Edition) 2130 B	0.01 NTU to 500 NTU
		Total Dissolved Solids	IS 3025 (Part 16), APHA (23nd Edition) 2540 C	1 mg/L to 500 mg/L
		pH value	IS 3025 (Part 11), APHA (23nd Edition) 4500 H+ B	1 to 14
		Nitrates as NO3	IS 3025 (Part 34), APHA (23nd Edition) 4500 NO3 B&E C	0.1 mg/L to 100 mg/L

**Amit Kumar
Convenor**

**Anuja Anand
Program Manager**

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		Nitrites as NO ₂	IS 3025 (Part 34), APHA (23nd Edition) 4500 NO ₂ B C	0.01 mg/L to 10 mg/L
		Chloride as Cl	IS 3025 (Part 32), APHA (23nd Edition) 4500 Cl B	1 mg/L to 200 mg/L
		Sulphates as SO ₄	IS 3025 (Part 24), APHA (23nd Edition) 4500 SO ₄ E	0.2 mg/L to 200 mg/L
		Alkalinity as CaCO ₃	IS 3025 (Part 23), APHA (23nd Edition) 2320 B	1 mg/L to 500 mg/L
		Calcium as Ca	IS 3025 (Part 40), APHA (23nd Edition) 3500 Ca B	1 mg/L to 100 mg/L
		Magnesium as Mg	IS 3025 (Part 46), APHA (23nd Edition) 3500 Mg B	1 mg/L to 100 mg/L
		Fluoride as F	IS 3025 (Part 60), APHA (23nd Edition) 4500 F D	0.01 mg/L to 10 mg/L
		Sodium as Na	IS 3025 (Part 45), APHA (23nd Edition) 3500 Na B	0.1 mg/L to 100 mg/L
		Residual free chlorine	IS 3025 (Part 26), APHA (23nd Edition) 4500 Cl ₂ B	0.5 mg/L to 10 mg/L
		Cyanide	IS 3025 (Part 27), APHA (23nd Edition) 4500 Cn E	0.01 mg/L to 10 mg/L
		Chromium	IS 13428 Annexure J/APHA (23nd Edition) 3500 Cr A & B	0.01 mg/L to 10 mg/L
		Phenolic compounds	IS 3025 (Part 43), APHA (23nd Edition) 5530 C	0.01 mg/L to 1 mg/L
		Mineral oil	IS 3025 (Part 39): a & b, APHA (23nd Edition) 5520 C	0.05 mg/L to 1 mg/L

Amit Kumar
Convenor

Anuja Anand
Program Manager

Laboratory

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		Sulphide as H ₂ S	IS 3025 (Part 29), APHA (23nd Edition) 4500 S F	0.01 mg/L to 10 mg/L
		Borates	IS 13428 Annexure H	0.1 mg/L to 10 mg/L
2.	Domestic Water, Irrigation, Industrial Cooling Purposes, Steam Raising, Saline Water, Drinking Water/Potable Water/Water For Ice Manufacture/ Water For Food Process Industry/ Bore well Water/ Raw Water/ R.O. Water/ Softener Water	Colour	IS 3025 (Part 4), APHA (23nd Edition) 2120 B & C	2 Hazen to 100 Hazen Visual comparison method
		Odour	IS 3025 (Part 5), APHA (23nd Edition) 2150 C	Qualitative (Agreeable/ Not Agreeable)
		Turbidity	IS 3025 (Part 10), APHA (23nd Edition) 2130 B	0.01 NTU to 500 NTU
		pH	IS 3025 (Part 11), APHA (23nd Edition) 4500 H+ B	1 to 14
		Conductivity	IS 3025 (Part 14), APHA (23nd Edition) 2510 A	10 µS/cm to 10000 µS/cm
		Taste	IS 3025 (Part 8), APHA (23nd Edition) 2160 C	Qualitative(Acceptable/ Not acceptable)
		Total Dissolved Solids	IS 3025 (Part 16), APHA (23nd Edition) 2540 C	1 mg/L to 5000 mg/L
		Acidity as CaCO ₃	IS 3025 (Part 22) & APHA (23nd Edition) 2310 B	2 mg/L to 500 mg/L
		Total Suspended Solids	IS 3025 (Part 17) & APHA (23nd Edition) 2540 D	1 mg/L to 1000 mg/L
		Total solids	IS 3025 (Part 15) & APHA (23nd Edition) 2540 B	1 mg/L to 5000 mg/L
	Boron as B	IS 3025 (Part 57) a & b APHA (23nd Edition) 4500 B B	0.01 mg/L to 10 mg/L	

Amit Kumar
Convenor

Anuja Anand
Program Manager

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		Calcium as Ca	IS 3025 (Part 40), APHA (23nd Edition) 3500 Ca B	1 mg/L to 100 mg/L
		Magnesium as Mg	IS 3025 (Part 46), APHA (23nd Edition) 3500 Mg B	1 mg/L to 100 mg/L
		Calcium	IS 3025 (Part 40), APHA (23nd Edition) 3500 Ca B	1 mg/L to 1000 mg/L
		Chloramines as Cl ₂	IS 3025 (Part 26), APHA (23nd Edition) 4500 Cl G	0.01 mg/L to 100 mg/L
		Chloride as Cl	IS 3025 (Part 32), APHA (23nd Edition) 4500 Cl B	1 mg/L to 5000 mg/L
		Chromium	IS 13428 Annexure J/APHA (23nd Edition) 3500 Cr A & B	0.1 mg/L to 100 mg/L
		Cyanide	IS 3025 (Part 27), APHA (23nd Edition) 4500 Cn E	0.01 mg/L to 10 mg/L
		Sodium as Na	IS 3025 (Part 45), APHA (23nd Edition) 3500 Na B	0.1 mg/L to 100 mg/L
		Fluoride as F	IS 3025 (Part 60), APHA (23nd Edition) 4500 F D	0.01 mg/L to 10 mg/L
		Residual free chlorine	IS 3025 (Part 26), APHA (23nd Edition) 4500 Cl ₂ B	0.1 mg/L to 10 mg/L
		Nitrate as NO ₃	IS 3025 (Part 34), APHA (23nd Edition) 4500 NO ₃ B&E C	0.01 mg/L to 500 mg/L
		Nitrite as NO ₂	IS 3025 (Part 34), APHA (23nd Edition) 4500 NO ₂	0.01 mg/L to 5 mg/L
		Phenolic compounds	IS 3025 (Part 43), APHA (23nd Edition) 5530 C	0.01 mg/L to 10 mg/L

Amit Kumar
Convenor

Anuja Anand
Program Manager

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		Sulphate as SO ₄	IS 3025 (Part 24), APHA (23nd Edition) 4500 SO ₄ E	2 mg/L to 1000 mg/L
		Sulphide as H ₂ S	IS 3025 (Part 29), APHA (23nd Edition) 4500 S F	0.5 mg/L to 10 mg/L
		Total Alkalinity as CaCO ₃	IS 3025 (Part 23), APHA (23nd Edition) 2320 B	1 mg/L to 5000 mg/L
		Total hardness as CaCO ₃	IS 3025 (Part 21), APHA (23nd Edition) 2340 C	1 mg/L to 3000 mg/L
		Oil & grease	IS 3025 (Part 39) a & b , APHA (23nd Edition) 5520 C	1 mg/L to 100 mg/L
3.	Swimming Pool Water	pH	IS 3025 (Part 11), APHA (23nd Edition) 4500 H+ B	2 to 12
		Total alkalinity as CaCO ₃	IS 3025 (Part 23), APHA (23nd Edition) 2320 B	1 mg/L to 1000 mg/L
		Aluminium as Al	IS 3025 (Part 55) Method (b), APHA (23nd Edition) 3111D, 3500 Al B	0.01 mg/L to 10 mg/L
		Total residual chlorine at inlet	IS 3025 (Part 26), APHA (23nd Edition) 4500 Cl ₂ B	0.1 mg/L to 50 mg/L
		Total residual chlorine at outlet	IS 3025 (Part 26), APHA (23nd Edition) 4500 Cl ₂ B	0.5 mg/L to 50 mg/L
		Oxygen absorbed in 4 hrs at 27°C	IS 3025 (Part 63)	0.04 mg/L to 10 mg/L
		Total dissolved solids	IS 3025 (Part 16), APHA (23nd Edition) 2540 C	1 mg/L to 3000 mg/L
		Chlorides as Cl	IS 3025 (Part 32), APHA (23nd Edition) 4500 Cl B	1 mg/L to 1000 mg/L
		Turbidity	IS 3025 (Part 10), APHA (23nd Edition) 2130 B	0.1 NTU to 100 NTU
4.	Pond Water	Temperature	APHA (23nd Edition) 2550	1°C to 100 °C

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		Dissolved Oxygen	APHA (23nd Edition) 4500-O	1 mg/l to 9 mg/l
		Color	IS 3025 (Part 4), APHA (23nd Edition) 2120 B& C	1 Pt-Co to 50 Pt-Co Units
		Turbidity	IS 3025 (Part 10), APHA (23nd Edition) 2130 B	0.1 NTU to 500 NTU
		Conductivity	IS 3025 (Part 14), APHA (23nd Edition) 2510 A	0.01 µS to 10000 µS
		pH	IS 3025 (Part 11), APHA (23nd Edition) 4500 H+ B	1 to 13
		Total Hardness	IS 3025 (Part 21), APHA (23nd Edition) 2340 C	1 mg/l to 1000 mg/l
		Odour	IS 3025 (Part 5), APHA (23nd Edition) 2150 C	Qualitative
		Fluoride	IS 3025 (Part 60), APHA (23nd Edition) 4500 F D	0.1 mg/l to 19 mg/l
		Magnesium	IS 3025 (Part 46), APHA (23nd Edition) 3500 Mg B	1 mg/l to 1000 mg/l
		Calcium	IS 3025 (Part 40), APHA (23nd Edition) 3500 Ca B	1 mg/l to 1000 mg/l
		Nitrite	IS 3025 (Part 34), APHA (23nd Edition) 4500 NO ₂ B C	0.01 mg/L to 5 mg/L
		Nitrates	IS 3025 (Part 34), APHA (23nd Edition) 4500 NO ₃ B&E C	0.01 mg/L to 500 mg/L
		Total Solids	APHA (23nd Edition) 2540-B, IS 3025 (Part 15)	1 mg/L to 100000 mg/L

Amit Kumar
Convenor

Anuja Anand
Program Manager

Laboratory **Annoor Envirochem and Food Analytical Laboratory, K.V.S.R. Siddhardha College of Pharmaceutical Sciences, SPIIC Block, IIIrd Floor, Pinnamaneni Polyclinic Road, Siddhardha Nagar, Vijayawada, Andhra Pradesh**

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		Total dissolved Solids	IS 3025 (Part 16), APHA (23nd Edition) 2540 C	1 mg/L to 10000 mg/L
		Suspended Solids	IS 3025 (Part 17) & APHA (23nd Edition) 2540 D	1 mg/l to 200 mg/l
		Total Alkalinity	IS 3025 (Part 23), APHA (23nd Edition) 2320 B	10 mg/l to 1000 mg/l
		Sulphide as S	IS 3025 (Part 29), APHA (23nd Edition) 4500 S F	0.1 mg/l to 100 mg/l
		Chlorides	IS 3025 (Part 32), APHA (23nd Edition) 4500 Cl B	10 mg/l to 1000 mg/l
		Sulphates	IS 3025 (Part 24), APHA (23nd Edition) 4500 SO4 E	1 mg/l to 400 mg/l
		Boron	IS 3025 (Part 57) a & b APHA (23nd Edition) 4500 B B	0.005 mg/l to 5.0 mg/l
		Chromium	IS 13428 Annexure J/APHA (23nd Edition) 3500 Cr A & B	0.01 mg/L to 10 mg/L
		Cyanide	IS 3025 (Part 27), APHA (23nd Edition) 4500 Cn E	0.01 mg/L to 10 mg/L
		Phenolic Compounds	IS 3025 (Part 43), APHA (23nd Edition) 5530 C	0.01 mg/L to 100 mg/L
		Sodium	IS 3025 (Part 45) a & b, APHA (23nd Edition) 3500Na B	1 mg/l to 300 mg/l
		Potassium	IS 3025 (Part 45) a & b, APHA (23nd Edition) 3500 K	0.1 mg/l to 100 mg/l

Amit Kumar
Convenor

Anuja Anand
Program Manager

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III.	POLLUTION & ENVIRONMENT			
1.	Waste Water/ Effluent Water/ STP Water/ Treated Waste Water	Colour	IS 3025 (Part 4), APHA (23nd Edition) 2120 B & C	2 Hazen to 500 Hazen Visual comparison method
		Turbidity	IS 3025 (Part 10), APHA (23nd Edition) 2130 B	0.01 NTU to 500 NTU
		pH value	IS 3025 (Part 11), APHA (23nd Edition) 4500 H+ B	1 to 14
		Conductivity	IS 3025 (Part 14), APHA (23nd Edition) 2510 A	10 µS/cm to 50000 µS/cm
		Total dissolved solids	IS 3025 (Part 16), APHA (23nd Edition) 2540 C	1 mg/L to 10000 mg/L
		Total suspended solids	IS 3025 (Part 17) & APHA (23nd Edition) 2540 D	1 mg/L to 10000 mg/L
		Acidity as CaCO ₃	IS 3025 (Part 22, APHA (23nd Edition) 2310 B	1 mg/L to 500 mg/L
		Alkalinity as CaCO ₃	IS 3025 (Part 23, APHA (23nd Edition) 2320 B	1 mg/L to 5000 mg/L
		Sulphate as SO ₄	IS 3025 (Part 24, APHA (23nd Edition) 4500 SO ₄ E	0.01 mg/L to 2000 mg/L
		Chloride as Cl	IS 3025 (Part 32), APHA (23nd Edition) 4500 Cl B	1 mg/L to 2000 mg/L
		Calcium as Ca	IS 3025 (Part 40), APHA (23nd Edition) 3500 Ca B	1 mg/L to 500 mg/L
	Magnesium as Mg	IS 3025 (Part 46), APHA (23nd Edition) 3500 Mg B	2 mg/L to 500 mg/L	
	Total solids	APHA (23nd Edition) 2540-B, IS 3025 (Part 15)	1 mg/L to 50000 mg/L	

**Amit Kumar
Convenor**

**Anuja Anand
Program Manager**

Laboratory **Annoor Envirochem and Food Analytical Laboratory, K.V.S.R. Siddhardha College of Pharmaceutical Sciences, SPIIC Block, IIIrd Floor, Pinnamaneni Polyclinic Road, Siddhardha Nagar, Vijayawada, Andhra Pradesh**

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		Cyanide	IS 3025 (Part 27), APHA (23nd Edition) 4500 Cn E	0.01 mg/L to 10 mg/L
		Volatile & fixed residue (organic & inorganic solids)	IS 3025 (Part 18), APHA (23nd Edition) 2540 E	1 mg/L to 5000 mg/L
		Settleable matter	IS 3025 (Part 19) Method 2 & 3, APHA (23nd Edition) 2540 F	2 mg/L to 100 mg/L
		Total Hardness	IS 3025 (Part 21), APHA (23nd Edition) 2340 C	1 mg/L to 5000 mg/L
		Silica	IS 3025 (Part 35), APHA (23nd Edition) 4500 SiO2 C	0.01 mg/L to 100 mg/L
		Oil & grease	IS 3025 (Part 39) a & b APHA (23nd Edition) 5520 C	1 mg/L to 1000 mg/L
		Biochemical oxygen demand	IS 3025 (Part 44) Clause No. 4	1 mg/L to 5000 mg/L
		Phenols	IS 3025 (Part 43), APHA (23nd Edition) 5530 C	0.01 mg/L to 100 mg/L
		Nitrates as NO ₃	IS 3025 (Part 34), APHA (23nd Edition) 4500 NO3 B&E C	0.01 mg/L to 100 mg/L
		Nitrites as NO ₂	IS 3025 (Part 34), APHA (23nd Edition) 4500 NO ₂	0.01 mg/L to 100 mg/L
		Fluorides as F	IS 3025 (Part 60), APHA (23nd Edition) 4500 F D	0.02 mg/L to 10 mg/L
		Iron	IS 3025 (Part 53), APHA (23nd Edition) 3500 Fe B	0.01 mg/L to 10 mg/L

Amit Kumar
Convenor

Anuja Anand
Program Manager

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		Aluminium	IS 3025 (Part 55) Method (b), APHA (23nd Edition) 3111D	0.01 mg/L to 10 mg/L
		Permanganate value	IS 3025 (Part 63) Clause No. 5	0.04 to 10 mg/L
		Chemical Oxygen Demand	IS 3025 (Part 58) Clause No. 8, APHA (22nd Edition) 5220 B	1 mg/L to 10000 mg/L
		Boron	IS 3025 (Part 57) a & b APHA (23nd Edition) 4500 B B	0.1 mg/L to 10 mg/L
		Sodium Absorption Ratio	IS 11624	1 meq/L to 100 meq/L
		Chromium	IS 13428 Annexure J/APHA (23nd Edition) 3500 Cr A & B	0.1 mg/L to 100 mg/L
		Residual Sodium carbonate	IS 11624	1 mg/L to 100 mg/L
		Residual Free chlorine	IS 3025 (Part 26), APHA (23nd Edition) 4500 Cl2 B	0.1 mg/L to 50 mg/L
		Temperature	IS 3025 (Part 9), APHA (23nd Edition) 2550 A & B	1°C to 100 °C
		Sulphites	IS 3025 (Part 28, APHA (23nd Edition) 4500 SO3 B	1 mg/L to 100 mg/L
		Phosphorus	IS 3025 (Part 31) Clause No. 4, APHA (23nd Edition) 4500 P D	0.01 mg/L to 10 mg/L
		Total Nitrogen & Organic Nitrogen	IS 3025 (Part 34) Clause No. 2,3,4, APHA (23nd Edition) 4500 NO3 B C	1 mg/L to 500 mg/L
		Dissolved Oxygen	IS 3025 (Part 38)	1 mg/L to 10 mg/L

Amit Kumar
Convenor

Anuja Anand
Program Manager

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Siddhardha College of Pharmaceutical Sciences, SPIIC Block, IIIrd
Floor, Pinnamaneni Polyclinic Road, Siddhardha Nagar, Vijayawada,
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		Sodium	IS 3025 (Part 45) a & b, APHA (22nd Edition) 3500Na B	0.1 mg/L to 500 mg/L
		Potassium	IS 3025 (Part 45) a & b, APHA (22nd Edition) 3500 K	0.1 mg/L to 100 mg/L

**Amit Kumar
Convenor**

**Anuja Anand
Program Manager**