

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Regional Food Research and Analysis Centre

Udyan Bhawan Campus, 2- Sapru Marg,
Lucknow-226001, Uttar Pradesh, India

has been assessed and accredited in accordance with the Standard
ISO/IEC 17025:2017

“General Requirements for the Competence of Testing and Calibration Laboratories”
In the field of
Testing

This certificate remains valid for the Scope of Accreditation as specified
in the annexure subject to continued compliance to the above standard &
any other requirements specified by QAI.



QAI/CIA/TL/2026/0163

Valid from: 20 March 2026

Valid until: 19 March 2028

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA



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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
1.	Drinking Water/borewell water/Tap water/ water head tank/ supply water	Salmonella sp.	IS: 15187: 2016 RA 2020
2.		Coliform	IS 15185:2002 RA 2021
3.		E. coli	IS 15185:2002 RA 2021
4.		Coliform	IS 5401 (P-1) 2012 RA 2022
5.		Yeast and Mould	IS 5403:1999 RA 2013
6.		Total Plate Count	IS 5402:2012
7.	Irrigation Water	Coliform	IS 5401 (P-2) 2012 RA 2022
8.	Irrigation Water	Coliform	IS 15185:2002 RA 2021
9.	Irrigation Water	E. coli	IS 15185:2002 RA 2021
10.	Irrigation Water	Yeast and Mould	IS 5403: 1999 RA 2013
11.	Mineral Water	Total Plate Count	IS 5402: 2012
12.	Mineral Water	Coliform	IS 15185:2002 RA 2021
13.	Mineral Water	E. coli	IS 15185:2002 RA 2021
14.	Packaged Drinking Water	Salmonella sp.	IS 15187: 2016 RA 2020
15.	Packaged Drinking Water	Coliform	IS 15185:2002 RA 2021
16.	Packaged Drinking Water	Coliform	IS 5401 (P-2) 2012 RA 2022

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	Water		
17.	Packaged Drinking Water	E. coli	IS 15185:2002 RA 2021
18.	Packaged Drinking Water	Yeast and Mould	IS: 5403: 1999 RA 2013
19.	Packaged Drinking Water	Total Plate Count	IS: 5402: 2012
20.	Packaged Drinking Water	Staphylococcus aureus	IS: 5887 (P-2) 1976
21.	Packaged Natural Mineral Water	Coliform	IS 15185:2002 RA 2021
22.		Coliform	IS:5401part2 :2012 RA 2021
23.		E. coli	IS 15185:2002 RA 2021
24.		Yeast and Mould	IS 5403: 1999 RA 2013
25.		Total Plate Count	IS 5402: 2012
26.		Salmonella	IS 15187:2016 RA 2020
27.		Salmonella sp.	IS 15187: 2016 RA 2020
28.	Water for Processed food industry/ Pond water/	Staphylococcus aureus	IS 5887 (P-2) 1976
29.	Swimming pool water/River water/ Lake water/	Coliform	IS 15185:2002 RA 2021
30.		Yeast & Mould	IS: 5403: 1999 RA 2013

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Food and Agricultural Products			
1.	Bakery and Confectionary Products (Biscuits, Rusks, Pastry, Cake, Bread, Muffins, Chips, Wafers, Brownie, Muffin, Bread, Cookies, Bun, Rusk, Dry Cake, Canned Product, Other Bakery Products)	E. coli	IS:5887(P-1) 1976 RA 2013
2.		Listeria monocytogenes	IS:14988 (P-1) 2020
3.		Coliform	IS:5401(P-1) 2012
4.		Salmonella	IS 5887 (Part 3) 1999 RA 2020
5.		Enterobacteriaceae	ISO 21528 P-1 2017
6.		Total Plate Count	IS: 5402: 2012
7.		Coliform	IS:5401(P-1) 2012 RA 2022
8.		Yeast and Mould	IS: 5403: 1999 RA 2018
9.	Sugar Boiled Confectionary, Chocolate, Ice lollies or Edible ices, Ice Candy	E. coli	IS:5887(P-1) 1976 RA 2013
10.		Listeria monocytogenes	IS 14988 (P-1) 2020
11.		Staphylococcus aureus	IS 5887 PART-2 1976 RA 2022
12.		Staphylococcus aureus	IS 5887 PART-2 1976 RA 2022
13.		Total Plate Count	IS 5402:2012
14.		Yeast and Mould	IS: 5403: 1999 RA 2018
15.		Coliform	IS:5401(P-1) 2012 RA 2022

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	Food and Agricultural Products			
16.		Salmonella spp	IS 5887 (Part 3) RA 2020	
17.		E. coli	IS:5887(P-1) 1976 RA 2013	
18.		Staphylococcus aureus	IS 5887 PART-2 1976 RA 2022	
19.		Total Plate Count	IS 5402:2012	
20.	Beverages (Alcoholic/ Non-Alcoholic) Soft Drinks Beverages, Carbonated & Non-carbonated Beverages	Faecal streptococci	IS 15186 2002:RA 2018	
21.		Salmonella	IS 15187:2016 RA 2020	
22.		Enterobacteriaceae	ISO 21528 Part 1 2017	
23.		Listeria monocytogenes	IS 14988 P-1 2020	
24.		Coliform	IS 5401 (part-1)2012 RA 2022	
25.		Yeast and Mould count	IS 5403 :1999 RA 2013	
26.		Canned Corned Beef, Canned Luncheon Meat, Canned, Cooked Ham, Canned Chopped Meat, Canned Chicken, Canned Mutton and Goat Meat, Frozen Mutton, Chicken, Goat and Buffalo, Raw Chicken, Goat	E. Coli	IS 5887(P-1) 1976 RA 2013
27.			Listeria monocytogenes	IS 14988 (P-1) 2020
28.	Staphylococcus aureus		IS 5887(P-2):1976	
29.	Total Plate Count		IS 5402:2012	
30.	Coliform		IS 5401(P-1) 2012 RA 2022	
31.	Enterobacteriaceae		ISO 21528 P-1 2017	

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	Food and Agricultural Products		
32.		Bacillus cereus	IS 5887 (Part 6) 2012 RA 2018
33.		E. coli	IS 5887(P-1):1976 RA 2013
34.	Cooked Food, Cooked Rice, Cooked Vegetable, Cooked Dal, Cooked Bread, Thermally Processed Foods and Other Cooked Food	Listeria monocytogenes	IS 14988(P-1) 2020
35.		Yeast and Mould	IS 5403:1999 RA 2018
36.		Staphylococcus aureus	IS 5887 (P-2) 1976
37.		Frozen Shrimps& Prawns, Frozen Lobster Frozen Squid, Frozen Fish, Fillets or Minced Fish, Flesh or Mixture Dried Shark Fins Salted Fish, Dried Salted Fish, Canned Fin fish	Listeria sp.
38.	Canned Shrimps Canned Sardines or Sardines Type Products, Canned Salmon, Crab, Canned Tuna and Bonito	Yeast and Mould count	IS 5403:1999 RA 2018
39.		E. coli	IS 5887(P-1):1976 RA 2013
40.		Total Plate Count	IS 5402:2012
41.		Salmonella	IS 5887 (Part 3)1999 RA 2020
42.	Thermally Processed Curried Vegetables/Ready-to- eat Vegetables (Canned/Bottled/ Flexible packaged /Ascetically packed) soups, Juices, Nectar, Tamarind Concentrated	E. coli	IS 5887(P-1) 1976 RA 2013
43.		Yeast and Mould count	IS 5403 :1999 RA 2013
44.		Total Plate Count	IS 5402 :2012

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	Food and Agricultural Products		
45.	Vegetable Juice Pulp Puree, Tomato Puree and Paste, Vegetable Juice/Pulp/Puree with Preservatives For Industrial Use only Vegetable Flakes, Soup Powders, Ginger Cocktail (Ginger Beer or Ginger Ale), Synthetic Syrup or Sharbat, Murabba, Tomato Ketchup, and Sauce, Culinary pastes Vegetables Sauces other than Tomato and Soya sauce, Dehydrated Vegetables,	Listeria sp.	IS 14988(P-1) 2020
46.	Frozen Curried Vegetables/ready-to-eat Vegetables, Beans, Vegetables/Ready-to-eat Vegetables, Dehydrated Fruits, Frozen Fruits/fruit products, Fruit Based Beverages, Mix/Powdered Fruit Based Beverage, Fruits and vegetable Chutney Mango chutney, Pickles, Table Olives, Grated Desiccated Coconut, Vinegar Canned	Salmonella	IS 5887 (Part 3) RA 2020
47.	Cereals, Pulses & Cereal Products,	Yeast and Mould	IS:5403 1999 RA 2013

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food and Agricultural Products		
48.	Whole & Powdered, Raw & Processed & Finished Products, Food Grains	S. aureus	IS 5887 (Part 2): 1976 : 2022
49.	(Rice, Wheat, Maize, Chana), Wheat Flour, Soya Flour, Corn Flour, Besan,	Salmonella	IS 5887 (Part 3):1999 RA: 2022
50.	Soya Dal Analogue, Cornflakes, Sattu,	Total Plate Count	IS 5402
51.	Suji, Dalia, Fortified Rice, Atta, Fortified Atta, Fortified Maida,	E.coli	IS 5887(Part 1):1976 RA 2013
52.	Protein Rich, Paushtik Maida, Sago, Sprouted Grains, Sweet Corn Cob Or	Bacillus cereus	IS 5887 (Part 6):2012 RA 2018
53.	Packed Wet Grains For Direct Consumption, Batters and Doughs	Listeria monocytogenes	IS 14988 (Part-1)
54.	(Ready To Cook), Fermented Products Other Than Batters And Doughs	Coliform	IS 5401(P-1):2012 RA 2022
55.	(Ready To Cook) Including Bread, Cakes And Doughnuts, Other Ready To Eat Grain Products, Malted Milk Food, Instant Noodles, and Pasta Products, Multi Grain Millets Products Raw, Processed & Finished Product	Coliform	IS 5401(P-1)2012 RA 2022
56.	Pulses	Coliform	IS 5401(P-1) 2012 RA 2022
57.	Soy Milk	Salmonella	IS 5887 (Part 3) RA 2020
58.	Soya Flour	Listeria monocytogenes	IS 14988 (Part-1) 2020

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food and Agricultural Products		
59.	Chocolate	Salmonella	IS 5887 (Part 3)
60.	Chocolate	Enterobacteriaceae	ISO 21528 (P-1) 2017
61.	Chocolate	S. aureus	IS 5887 (P-2) 1976
62.	Chocolate	Salmonella	IS 5887 (Part 3) RA 2020
63.	Roasted coffee	Enterobacteriaceae	ISO 21528 P-1 2017
64.	Roasted coffee and ground coffee, Soluble Coffee Powder	E. coli	IS 5887(P-1) 1976 RA 2013
65.	Oil, Fats and Related Products: Edible oils and Fats	Bacillus cereus	IS 5887 (Part 6) 2012 RA 2018
66.		Enterobacteriaceae	ISO 21528 P-1 2017
67.		S. aureus	IS 5887 (Part 2) 1976
68.		Salmonella spp.	IS 5887 (Part 3) 1999 RA 2020
69.		Coliform	IS 5401(P-1) 2012 RA 2022
70.		Total Plate Count	IS:5402 :2012
71.		E. coli	IS:5887(P-1) 1976 RA 2013
72.	Fruit & Fruit Products, Thermally Processed Fruits(Canned/Bottled/ Flexible packaged/ Ascetically	Coliform	IS:5401(P-1) 2012 RA 2022
73.		S.aureus	IS 5887 Part 2 1976

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	Food and Agricultural Products		
74.	packed), Curried Vegetables/Ready-to-eat Vegetables, Dehydrated	Total Plate Count	IS:5402 :2012
75.	Fruits, Frozen Fruits/fruit products, Fruit Based Beverages, Mix/Powdered Fruit Based Beverage, Fruits and vegetable Chutney Mango chutney, Pickles, Table Olives, Grated Desiccated Coconut, Vinegar Canned Fruit Juices (Canned/Bottled, Nectar ,Mango Pulp Puree and Sweetened Mango Pulp/Puree, Fruit Pulp Puree and sweetened Fruit Pulp /Puree other than mango, Concentrated Fruit Juice/Pulp/Puree with Preservatives For Industrial Use only Tamarind Pulp/Puree, Concentrate Fruit bar/Toffee, Squashes, Crushes, Fruit Syrups/Fruit Sharbats and Barley Water, Ginger Cocktail (Ginger Beer or Ginger Ale), Synthetic Syrup or Sharbat for use in Dispensers for Carbonated Water, Murabba, Candied, Crystallized and Glazed Fruit / Vegetable/Rhizome/Fruit	Yeast and Mould	IS:5403 :1999 RA 2013

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food and Agricultural Products		
	peel, Culinary pastes/Fruit sauce, Carbonated Fruit		
76.	Juices	Total Plate Count	IS:5402 :2012
77.	Juices	E. Coli	IS:5887 (P-1) 1976 RA 2013
78.	Garam Masala	Total Count Plate	IS 5402:2012
79.	Garam Masala, Herbs, Spices & Condiments Whole & Powder - Caraway, Cardamom, Chilies and Capsicum, Cinnamon, Cassia Cloves, Coriander, Cumin, Fennel, Fenugreek, Ginger, Mace, Mustard, Nutmeg, Black Pepper, Pinhead, Poppy, Saffron, Turmeric, Anis, Ajwain, Pepper, Celery, Curry Powder, Mix Masala, Dried Masala, Garlic & Onion, Slices, Powder, Dehydrated Onion, Asafoetida Dried or Dehydrated, Ground or Powdered, Extracted, Wet ground (Paste)/ preserved or pickled	Yeast and Mould	IS:5403 :1999 RA 2013
80.	Garam Masala	E. coli	IS:5887(P-1) 1976 RA 2013
81.	Herbs, Spices & Condiments Whole &	Listeria monocytogenes	IS:14988(P-1) 2020

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	Food and Agricultural Products		
82.	Powder -Caraway, Cardamom, Chilies and Capsicum, Cinnamon, Cassia	Yeast and Mould count	IS:5403 :1999 RA 2013
83.	Cloves, Coriander, Cumin, Fennel, Fenugreek, Ginger, Mace, Mustard,	Coliform	IS:5401(P-1) 2012 RA 2022
84.	Nutmeg, Black Pepper, Pinhead, Poppy, Saffron, Turmeric, Anis,	Salmonella	IS 5887 (Part 3) 1999 RA 2020
85.	Ajwain, Pepper, Celery, Curry Powder, Mix Masala, Dried Masala, Garlic & Onion, Slices, Powder, Dehydrated Onion, Asafoetida Dried or Dehydrated, Ground or Powdered, Extracted, Wet ground (Paste)/ preserved or pickled	E.Coli	IS:5887(P-1) 1976 RA 2013
86.	Honey & Honey Products	Yeast and Mould count	IS:5403 :1999 RA 2013
87.	Honey & Honey Products	Coliform	IS:5401(P-1) 2012 RA 2022
88.	Honey & Honey Products	Bacillus cereus	IS 5887 (Part 6):2012 RA 2018
89.	Honey & Honey Products	Enterobacteriaceae	ISO 21528 P-1 2017
90.	Honey & Honey Products	Staphylococcus aureus	IS:5887(P-2) 1976
91.	Honey & Honey Products	Salmonella sp.	IS 5887 (Part 3) 1999 RA 2020
92.	Weaning Food	E. coli	IS:5887 (P-1) 1976 RA 2013

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	Food and Agricultural Products		
93.	Weaning Food	Total Plate Count	IS: 5402: 2012
94.	Weaning Food	Yeast and Mould count	IS: 5403: 1999 RA 2018
95.	Weaning Food	Bacillus cereus	IS 5887 (Part 6) 2012 RA 2018
96.	Weaning Food	Coliform	IS:5401(P-1) 2012 RA 2022
97.	Weaning Food	Salmonella	IS 5887 (Part 3) 1999 RA 2020
98.	Weaning Food	E. coli	IS 5887(Part 1) 1976 RA 2013
99.	Jams, Juices, Sauces & concentrates [Fruit Juices (Canned/Bottled Nectar, Mango Pulp Puree and Sweetened	Yeast and Mould count	IS:5403 :1999 RA 2013
100.	Mango Pulp/ Puree, Fruit Pulp Puree and sweetened Fruit Pulp/Puree	E. coli	IS:5887(P-1) 1976 RA 2013
101.	other than mango, Concentrated Fruit Juice/Pulp/ Puree with	Coliform	IS:5401(P-1):2012 RA 2022
102.	Preservatives For Industrial Use only Tamarind Pulp/Puree, Concentrate	Listeria monocytogenes	IS:14988(P-1):2020
103.	Fruit bar/Toffee, Squashes, Crushes, Fruit Syrups/Fruit Sharbats and	S. aureus	IS 5887 (Part 2): 1976
104.	Barley Water, Ginger Cocktail (Ginger Beer or Ginger Ale), Synthetic Syrup or Sharbat for use in Dispensers for	Salmonella	IS 5887 (Part 3):1999 RA: 2022

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	Food and Agricultural Products		
105.	Carbonated Water, Murabba, Candied, Crystallized and Glazed Fruit / Vegetable/Rhizome/Fruit peel, Culinary pastes/Fruit sauce	Listeria monocytogenes	IS:14988(P-1):2020
106.	Milk & Dairy Products Cream	Salmonella	IS 5887 (Part 3)1999 RA 2020
107.	including, sterilized cream, Cream Powder, Malai, Dahi or Curd, Chena or Paneer, Processed Cheese,	E. coli	IS:5887(P-1):1976 RA 2013
108.	Processed Cheese Spread, Cheddar	Yeast and Mould	IS:5403 :1999 RA 2013
109.	Processed Cheese Spread, Cheddar	Bacillus cereus	IS 5887 (Part 6):2012 RA 2018
110.	Cheese, mozzarella cheese, Condensed milk, dairy whitener,	S. aureus	IS 5887 Part 2:1976
111.	SMP, Sweets, Casein, Lactose	Total Plate Count	IS: 5402: 2012
112.	powder, Milk powder, Ice cream,	Coliform	IS:5401(P-1)2012 RA 2022
113.	khoya and khoya based product, lassi	Coliform	IS:5401(P-1)2012 RA 2022
114.	Paneer	Total Plate Count	IS: 5402: 2012
115.	Paneer	Yeast and Mould	IS: 5403: 1999 RA 2018
116.	Paneer	Coliform	IS:5401(P-1) 2012 RA 2022
117.	Groundnut Kernel, Raisins, Pistachio Nuts, Dates Dry Fruits and Nuts, Catechu	S. aureus	IS 5887 (Part 2) 1976
118.	Ice Candy	E. coli	IS 5887 (Part 1): 1976 RA 2013

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	Food and Agricultural Products		
119.	Proprietary food	Listeria monocytogenes	IS:14988(P-1) 2020
120.	Proprietary food	S. aureus	IS 5887 (Part 2): 1976
121.	Proprietary food	Salmonella sp.	IS 5887 (Part 3) 1999 RA 2020
122.	Proprietary food	Total Plate Count	IS 5402:2012
123.	Snacks & Namkeen, Ready to eat product and other snacks	E. coli	IS 5887 (Part 1) 1976 RA 2013
124.	Snacks & Namkeen, Ready to eat product and other snacks	Yeast and Mould	IS:5403 :1999 RA 2013
125.	Snacks & Namkeen, Ready to eat product and other snacks	Coliform	IS:5401(P-1) 2012 RA 2022
126.	Snacks & Namkeen, Ready to eat product and other snacks	Bacillus cereus	IS 5887 (Part 6):
127.	Snacks & Namkeen, Ready to eat product and other snacks	Listeria monocytogenes	IS:14988(P-1) 2020
128.	Snacks & Namkeen, Ready to eat product and other snacks	S. aureus	IS 5887 (Part 2): 1976
129.	Snacks & Namkeen, Ready to eat product and other snacks	Salmonella sp.	IS 5887 (Part 3):1999 RA: 2022
130.	Corn Flour	Salmonella	IS 5887 (Part 3):1999 RA: 2022

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	Food and Agricultural Products		
131.	Maize	E. coli	IS 5887 (Part 1): 1976 RA 2013
132.	Powdered, Raw & processed & finished products, food grains (rice, wheat, maize, chana), wheat flour, soya flour, corn flour, besan, soyadal analogue, cornflakes, sattu, suji, dalia, fortified rice, Atta, Fortified Atta, Fortified Maida, Protein rich, Paushtik Maida, Sago	Salmonella	IS 5887 (Part 3):1999 RA: 2022
133.	Rice	Salmonella	IS 5887 (Part 3):1999 RA: 2022
134.	Sattu	S. aureus	IS 5887(Part 2):1976
135.	Starch & Starch Products	Salmonella	IS 5887 (Part 3):1999 RA: 2022
136.	Starch & Starch Products	Salmonella Sp.	IS 5887 (Part 3):1999 RA: 2022
137.	Confectionery Products-Sugar Boiled Confectionary, Chocolate, Ice lollies or Edible ices, Ice Candy, Raw & processed & finished products	E.coli	IS 5887 (Part 1): 1976 RA 2013
138.	Ice lollies or Edible ices, Ice Candy, maple syrup, corn syrup	Yeast and Mould	IS: 5403: 1999 RA 2018
139.		Coliform	IS:5401(P-1):2012 RA 2022
140.		Total Plate Count	IS: 5402: 2012

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food and Agricultural Products		
141.		Listeria monocytogenes	IS:14988(P-1):2020
142.		S. aureus	IS 5887 (Part 2): 1976
143.		Salmonella spp	IS 5887 (Part 3):1999 RA: 2022
144.		S. aureus	IS 5887 (Part 2): 1976
145.	Sugar & Sugar Products, sugar coated groundnuts, balushahi, sugar coated shankarpali, preparations are dipped in concentrated sugar solution.	Salmonella	IS 5887 (Part 3):1999 RA: 2022
146.	crystals are formed which coat the surface of the products, and other sugar product	E. coli	IS 5887 (Part 1): 1976 RA 2013
147.	Kangra Tea, Green Tea, Soluble Tea, Herbal Tea, Tea Bag	Total Plate Count	IS: 5402: 2012
148.	Kangra Tea, Green Tea, Soluble Tea, Herbal Tea, Tea Bag	Coliform	IS:5401(P-1):2012 RA 2022
149.	Kangra Tea, Green Tea, Soluble Tea, Herbal Tea, Tea Bag	Salmonella	IS 5887 (Part 3):1999 RA: 2022
150.	Kangra Tea, Green Tea, Soluble Tea, Herbal Tea, Tea Bag	Coliform	IS:5401(P-1):2012 RA 2022
151.	Sauce	Coliform	IS:5401 (P-2):2012 RA 2022

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food and Agricultural Products		
152.	Sauce	E.Coli	IS 5887 (Part 1): 1976 RA 2013
153.	Veg salad	Listeria sp.	IS 14988 (Part 1): 2020
154.	Vegetables and Vegetable Products Thermally Processed Curried	TPC	IS: 5402: 2012
155.	Vegetables/Ready-to-eat Vegetables (Canned/Bottled/ Flexible packaged	Coliform	IS:5401(P-1):2012 RA 2022
156.	/Aseptically packed) soups ,Juices, Nectar , Tamarind Concentrated	Yeast and Mould count	IS: 5403: 1999 RA 2018
157.	Vegetable Juice Pulp Puree , Tomato Puree and Paste, Vegetable	Salmonella sp.	IS 5887 (Part 3)
158.	Juice/Pulp/Puree with Preservatives	Coliform	IS:5401(P-1)
159.	For Industrial Use only Vegetable Flakes, Soup Powders, Ginger	E.Coli	IS:5887(P-1):1976 RA 2013
160.	Cocktail (Ginger Beer or Ginger Ale), Synthetic Syrup or Sharbat,	S.aureus	IS 5887 (Part 2): 1976
161.	Murabba, Tomato Ketchup, and Sauce, Culinary pastes Vegetables	Total Plate Count	IS:5402 :2012
	Sauces other than Tomato and Soya sauce, Dehydrated Vegetables, Frozen Curried		
162.	Cereal Based Complimentary food,	Coliform	IS:5401(P-1):2012 RA 2022

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Food and Agricultural Products			
163.	Food for infants based on traditional food ingredients] Health	E. coli	IS:5887 (P-1)
164.	Supplements, Nutraceuticals, Food for Special Dietary Use, Food for Special Medical Purpose, functional food and Novel Food for direct consumption	Yeast and Mould	IS:5403
165.		Listeria monocytogenes	IS:14988(P-1):2020
166.	Meat & Meat Products (Canned corned beef, Canned luncheon Meat, Canned cooked ham, Canned chopped Meat, Canned chicken, Canned mutton and Goat meat, Frozen mutton, Chicken, Goat and Buffalo, Raw chicken, Goat, Fish and Fishery products)	E. coli	IS:5887(P-1):1976 RA 2013
167.		Yeast and Mould	IS: 5403: 1999 RA 2018
168.		Total Plate Count	IS: 5402: 2012
169.		Coliform	IS: 5401(P-1):2012 RA 2022
170.		Salmonella	IS 5887 (Part 3)
171.		S. aureus	IS 5887 (P-2):1976
172.		Coliform	IS: 5401(P-1):2012 RA 2022
173.		Egg & Egg products, Cooked/ready-to-eat egg products mayonnaises,	Total Plate Count
174.	Frozen /dried egg products, Pasteurized Liquid egg products	Yeast and Mould	IS: 5403: 1999 RA 2018
175.	(whole, yolk or albumin liquid), Table	E. coli	IS:5887(P-1) 1976 RA 2013

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Biological Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food and Agricultural Products		
176.	egg	Listeria monocytogenes	IS:14988(P-1) 2020
177.		Bacillus cereus	IS 5887 (Part 6) 2012 RA 2018
178.		Salmonella	IS 5887 (Part 3) 1999 RA 2020
179.		Enterobacteriaceae	ISO 21528 (P-1):2017



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Animal Food & Feeds		
1.	Animal Feed/ Cattle Feed/ Pet Food	Acid insoluble Ash	IS:7874: (P-1): 1975
2.	Animal Feed/ Cattle Feed/ Pet Food	Moisture	IS:7874: (P-1): 1975
3.	Animal Feed/ Cattle Feed/ Pet Food	Protein (N x 6.25)	IS: 7874: (P-1): 1975
4.	Animal Feed/ Cattle Feed/ Pet Food	Total ash (dry wt. basis)	IS 7874 (Part 1): 1975
5.	Animal Feed/ Cattle Feed/ Pet Food	Total Fat	IS:7874: (P-1): 1975
6.	Animal Feed/ Cattle Feed/ Pet Food	Salt as sodium chloride	IS 7874 (Part 2): 1975
7.	Animal Feed/ Cattle Feed/ Pet Food	Total ash	IS 7874 (Part 1): 1975
8.	Animal Feed/ Cattle Feed/ Pet Food	Calcium	RFRAC/INST/SOP-94: 2024
9.	Animal Feed/ Cattle Feed/ Pet Food	Phosphorus	IS 7874 (Part 2): 1975
10.	Animal Feed/ Cattle Feed/ Pet Food	Chlorine as Sodium Chloride	IS 7874 (part 2): 1975
11.	Animal Feed/ Cattle Feed/ Pet Food	Energy	RFRAC/CHEM/SOP-28: 2024

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Animal Food & Feeds		
12.	Animal Feed/ Cattle Feed/ Pet Food	Non-Protein Nitrogen	IS:7874 (P-1): 1975
13.	Animal Feed/ Cattle Feed/ Pet Food	Crude Fibre	IS 7874 (Part 1): 1975
14.	Animal Feed/ Cattle Feed/ Pet Food	Urea	IS 14832: 2000
15.	Animal Feed/ Cattle Feed/ Pet Food	Carbohydrate	IS 1656: 2022
16.	Animal Feed/ Cattle Feed/ Pet Food	Iron	RFRAC/INST/SOP-94: 2024
17.	Animal Feed/ Cattle Feed/ Pet Food	Zinc	RFRAC/INST/SOP-94: 2024
18.	Animal Feed/ Cattle Feed/ Pet Food	Magnesium	RFRAC/INST/SOP-94: 2024
19.	Animal Feed/ Cattle Feed/ Pet Food	Potassium	RFRAC/INST/SOP-94: 2024
20.	Animal Feed/ Cattle Feed/ Pet Food	Sodium	RFRAC/INST/SOP-94: 2024

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	AYUSH Products		
1.	Ayurvedic Roots/ stems/ leaves/ barks/fruits/seeds and extracts) & Ayurvedic Formulations	Foreign Matter	API VOL IX (Part-1) 2016
2.		Moisture content (Loss on Drying)	API VOL IX (Part-1) Section 2.1.4 2016
3.		Total Ash	API VOL IX (Part-1) 2016
4.		Water-soluble Ash	API VOL IX Section 2.1.9 2016
5.		Acid-insoluble Ash	API VOL IX (Part-1) 2016
6.		Alcohol-soluble Extractive	API VOL IX (Part-1) Section 2.1.8 2016
7.		Water-soluble Extractive	API VOL IX (Part-1) 2016
8.		pH	API VOL IX (Part-1) 2016
9.		Reducing Sugar	API VOL IX (Part-1) Section 2.1.4 2016
10.		Total Sugar	API VOL IX (Part-1) Section 2.1.4 2016
11.		Total-soluble Solids	API VOL IX (Part-1) 2016
12.		Sodium	RFRAC/INST/SOP-74 2025
13.		Potassium	RFRAC/INST/SOP-74 2025
14.		Calcium	RFRAC/INST/SOP-74 2025
15.		Iron	RFRAC/INST/SOP-95 2025
16.		Lead	RFRAC/INST/SOP-95 2025
17.		Cadmium	RFRAC/INST/SOP-95 2025

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Fertilizers		
1.	Bio Fertilizer/Organic Compost	Total Nitrogen	FCO 1985
2.	Bio Fertilizer/Organic Compost	Total Phosphate	FCO 1985
3.	Bio Fertilizer/Organic Compost	Moisture	FCO 1985
4.	Bio Fertilizer/Organic Compost	C:N Ratio	RFRAC/INS/SOP-31 2023
5.	Bio Fertilizer/Organic Compost	pH	FCO 1985
6.	Bio Fertilizer/Organic Compost	Bulk Density	FCO 1985
7.	Bio Fertilizer/Organic Compost	Total Organic Carbon	FCO 1985
8.	Bio Fertilizer/Organic Compost	Conductivity	FCO 1985
9.	Bio Fertilizer/Organic Compost	Water soluble Potash	FCO 1985
10.	Bio Fertilizer/Organic Compost	Particle Size	FCO 1985

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural products		
1.	Biscuits, Cakes, Chips, Wafers, Pastry, Brownie, Muffin, Bread, Cookies, Bun, Rusk, Dry Cake, Canned Product, Other Bakery Products	Acid insoluble Ash	IS: 12711:1986
2.		Annatto	FSSAI lab manual -food additives 2016
3.		Caramel	FSSAI lab manual -food additives 2016
4.		Carbohydrates	IS 1656:2022
5.		Curcumin	FSSAI lab manual for food additives 2016
6.		Lactose	IS 1479 (Part 2) 1961
7.		pH	AOAC:943.02 1943
8.		Protein	IS: 7219: 1973
9.		Reducing sugar	IS 15279 :2003
10.		Sucrose	IS 15279 :2003
11.		Total Sugar	IS 15279: 2003
12.		Total fat	IS:12711: 1989
13.		Total Solids	IS 1483:1988
14.		Volume Mass Ratio	IS 12711:1989
15.		Biscuits, Cakes, Chips, Wafers,	Moisture

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Chemical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	Food & Agricultural products			
16.	Pastry, Brownie, Muffin, Bread, Cookies, Bun, Rusk, Dry Cake, Canned Product, Other Bakery Products	Total Ash on dry wt. basis	IS 12711:1989	
17.		Appearance	IS 12711:1989	
18.		Energy	RFRAC/CHEM/SOP-28:2024	
19.		Flavour	IS 12711:1989	
20.		Foreign Matter	IS 12711:1989	
21.		Moulds, Living & Dead insects, Insect fragments, Rodent, contamination (Hair & Excreta), Larvae, Dirt	IS 12711:1989	
22.		Odour	IS 12711:1989	
23.		Taste	IS 12711:1989	
24.		Texture	IS 12711:1989	
25.		Alcoholic Acidity	IS 12711:1989	
26.		Calcium, mg/Kg	RFRAC/INST/SOP-23:2024	
27.		Potassium, mg/kg	RFRAC/INST/SOP-23:2024	
28.		Biscuits, Cakes, Chips, Wafers, Pastry, Brownie, Muffin, Bread,	Sodium, mg/kg	RFRAC/INST/SOP-23:2024

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Chemical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
Food & Agricultural products				
29.	Cookies, Bun, Rusk, Dry Cake, Canned Product, Other Bakery Products	Acidity of extracted fat (as Oleic acid)	IS 12711:1989	
30.	Namkeen, Ready to Eat Food, Snacks, Sweets	Moisture	IS: 15271: 2003	
31.		Total Fat	IS: 15271: 2003	
32.		Total Ash	IS: 15271: 2003	
33.		Acid Insoluble Ash	IS: 15271: 2003	
34.		Acidity of extracted fat (as Oleic acid)	IS: 15271: 2003	
35.		Peroxide Value	IS: 15271: 2003	
36.		Free Fatty Acid	IS: 15271: 2003	
37.		Extraneous matter	IS: 15271: 2003	
38.		Odour	IS: 15271: 2003	
39.		Taste	IS: 15271: 2003	
40.		Texture	IS: 15271:2003	
41.		Namkeen, Ready to Eat Food, Snacks, Sweets	Flavour	IS:15271: 2003
42.			Appearance	IS: 15271: 2003

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Food & Agricultural products			
43.		Sodium	RFRAC/INST/SOP-23;2024
44.		Potassium	RFRAC/INST/SOP-23:2024
45.		Calcium	RFRAC/INST/SOP-23:2024
46.	Alcoholic (Cordials, Wine, Grape Spirit, Brandy, Rum, Vodka, Gin, Beer, Whisky, Spirit Distillate, Ena, Tequila, extra neutral alcohol)	Added Colour	IS 4450: 2005
47.		Caramel	FSSAI manual for food additives 2016
48.		Ethyl alcohol content	FSSAI Manual of Alcoholic beverages 2021
49.		Methanol content	IS 3865: 2001
50.		pH	IS 3865: 2001
51.	Fruit beverages, Fruit drinks, Fruit pulp/puree, Soup powder, Fruit Concentrate squashes/herbs, Juices, RTS, Nectar	Caramel	FSSAI lab manual food additives 2016
52.		Chlorophyll	FSSAI lab manual food additives 2016
53.		Cyclamate	FSSAI lab manual food ,2016
54.	Fruit beverages, Fruit drinks, Fruit pulp/puree, Soup powder, Fruit Concentrate squashes/herbs, Juices, RTS, Nectar	Dulcin	FSSAI lab manual food additives 2016
55.		Reducing sugar	IS 2860:1964
56.		Sucrose	IS 6287:1985

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	Food & Agricultural products			
57.	Fruit beverages, Fruit drinks, Fruit pulp/puree, Soup powder, Fruit Concentrate squashes/herbs, Juices, RTS, Nectar	Sulphur dioxide	FSSAI Lab Manual-Fruit & Vegetable products 2016	
58.		Total soluble solids (brix)	IS 13815:2009	
59.		Total sugar as sucrose	FSSAI Lab Manual-Fruit & Vegetable products,2016	
60.		pH	IS3865:2001	
61.		Titratable Acidity	FSSAI Lab Manual-Fruit & Vegetable products,2016	
62.		Sodium	RFRAC/INST/SOP-15-2024	
63.		Potassium	RFRAC/INST/SOP-15-2024	
64.		Calcium	RFRAC/INST/SOP-15-2024	
65.		Magnesium	RFRAC/INST/SOP-61-2024	
66.		Iron	RFRAC/INST/SOP-61-2024	
67.		Zinc	RFRAC/INST/SOP-61-2024	
68.			Vitamin C	IS 5838:2020

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Food & Agricultural products			
69.	Fruit beverages, fruit drinks, Mango pulp/puree soup powder, Tamarind concentrate squashes/herbs	Annatto	FSSAI lab manual food additives 2016
70.	Fruit beverages, Fruit drinks, Fruit pulp/puree, Soup powder, Fruit Concentrate squashes/herbs, Juices, RTS, Nectar	Energy, Kcal/ 100 gm	RFRAC/CHEM/SOP-28-2024
71.	Non-alcoholic, Carbonated water, Caffeinated Beverage	Carbohydrate	IS: 1656: 2002
72.		pH	IS3865:2001
73.		Titrateable Acidity	FSSAI Lab Manual-Fruit & Vegetable products: 2016
74.		Total Sugar	IS 2346 :1992
75.		Vitamin C	IS: 5838: 1970
76.		Energy	RFRAC/CHEM/SOP-28-2024
77.		Cereal , Food Grains, Pulses ,Cereal Products, and Cereal based dessert, Semollina, Vermicelli, Papad, Maida, Blends,	Carbohydrates
78.		Acid insoluble Ash	FSSAI Manual Cereal and Cereal Products :2002

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Food & Agricultural products			
79.	Chana Sattu, Arrowroot, Sago, Wheat Flour, Corn flour, Soya flour, Besan , soya chunk, Daliya,	Annatto	FSSAI lab manual food additives 2016
80.	Daliya premix, Rice, Rice Flour, Fortified Rice, Fortified Rice	Caramel	FSSAI lab manual for food additives 2016
81.	Kernals, Fortified Cereal Products, Fortified Cereal based Products, Millets, Millets Flour, Buckwheat Flour, Infant Food, Custard	Curcumin	FSSAI lab manual food additives 2016
82.	Powder, Paddy, Cereal based Complimentary Food, Noodle, Pasta	Free Acidity	IS 4706 (Part II):2020
83.		Alcoholic acidity	FSSAI Manual Cereal and Cereal Products 2023
84.		Moisture	FSSAI Manual Cereal and Cereal Products 2023
85.		Total ash	FSSAI Manual Cereal and Cereal Products 2023
86.		Total Fat	FSSAI Manual Cereal and Cereal Products 2023
87.		Gluten	FSSAI Manual Cereal and Cereal Products 2023
88.		Protein (N x 5.83)	IS: 7219: 1973
89.	Cereal , Food Grains, Pulses ,Cereal Products, and Cereal	Acidity of extracted fat (as oleic acid) %	FSSAI Manual Cereal and Cereal Products 2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Food & Agricultural products			
90.	based dessert, Semollina, Vermicelli, Papad, Maida, Blends, Chana Sattu, Arrowroot, Sago, Wheat Flour, Corn flour, Soya flour, Besan , soya chunk, Daliya, Daliya premix, Rice, Rice Flour,	Added Starch	FSSAI Manual Cereal and Cereal Products 2023
91.	flour, Fortified Rice, Fortified Rice Kernals, Fortified Cereal Products,	Energy	RFRAC/CHEM/SOP-28-2024
92.	Fortified Cereal based Products, Millets, Millets Flour, Buckwheat Flour, Infant Food, Custard Powder, Paddy, Cereal based Complimentary Food, Noodle, Pasta	Foreign Matter	IS 4333 (P-1):1996
93.		Admixture	IS 4333 (P-1)1996
94.		Chalky grains	IS 4333 (P-1):1996
95.		Discoloured grains	IS 4333 (P-1) :1996
96.		Folic acid (Vitamin B9)	RFRAC/INST/SOP_FCCP.022023
97.		Vitamin B12	RFRAC/INST/SOP_FCCP.03 2023
98.		Damaged grains	IS 4333 (P-1):1996
99.		Broken fortified kernels	IS 4333 (P-1):1996
100.	Cereal , Food Grains, Pulses, Cereal Products, and Cereal based dessert, Semollina, Vermicelli,	Uric acid	IS 4333 (P-5):1970
101.	Papad, Maida, Blends, Chana	Other foodgrains	IS 4333 (P-1):1996
102.		Damaged	IS 4333 (P-1):1996

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Food & Agricultural products			
103.	Sattu, Arrowroot, Sago, Wheat Flour, Corn flour, Soya flour,	Discoloured	IS 4333 (P-1):1996
104.	Besan , soya chunk, Daliya, Daliya premix, Rice, Rice Flour, Fortified	Weevilled grains	IS 4333 (P-1):1996
105.	Rice, Fortified Rice Kernals,	Insect damaged	IS 4333 (P-1):1996
106.	Fortified Cereal Products,	Fragments	IS 4333 (P-1):1996
107.	Fortified Cereal based Products, Millets, Millets Flour, Buckwheat	Red grains	IS 4333 (P-1):1996
108.	Flour, Infant Food, Custard Powder, Paddy, Cereal based	Kernels with husk	IS 4333 (P-1):1996
109.	Complimentary Food, Noodle, Pasta	Shrivelled or immature	IS 4333 (P-1):1996
110.		Energy	RFRAC/CHEM/SOP-28-2024
111.		Dietary Fibre	FSSAI Manual Cereal and Cereal Products 2023
112.		Pin-point damaged	IS 4333 (P-1):1996
113.		Zinc	RFRAC/INST/SOP-06-2023
114.	Cereal , Food Grains, Pulses, Cereal Products, and Cereal based	Iron	RFRAC/INST/SOP-06:2023
115.	dessert, Semollina, Vermicelli, Papad, Maida, Blends, Chana	Magnesium	RFRAC/INST/SOP-06:2023

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Food & Agricultural products			
116.	Sattu, Arrowroot, Sago, Wheat Flour, Corn flour, Soya flour,	Calcium	RFRAC/INST/SOP-23-2024
117.	Besan , soya chunk, Daliya, Daliya premix, Rice, Rice Flour, Fortified Rice, Fortified Rice Kernals,	Potassium	RFRAC/INST/SOP-23-2024
118.	Fortified Cereal Products, Fortified Cereal based Products, Millets, Millets Flour, Buckwheat Flour, Infant Food, Custard Powder, Paddy, Cereal based Complimentary Food, Noodle, Pasta	Sodium	RFRAC/INST/SOP-23-2024
119.	Coffee (roasted, unroasted, ground, Instant & Soluble Coffee Powder), Instant Coffee	Total fat	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory 2023
120.		Acid insoluble ash in dilute HCL	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory,2023
121.	Coffee (roasted, unroasted, ground, Instant & Soluble Coffee Powder), Instant Coffee	Total Sugar	IS 15279: 2003
122.		Protein content	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory,2023

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural products		
123.		Solubility in cold water	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory2023
124.		Solubility in boiling water	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory,2023
125.		Presence of Chicory	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory,2023
126.		Water extract	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory 2023
127.		Alkalinity of water-soluble ash	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory,2023
128.		Ash content	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory2023
129.		Coffee (roasted, unroasted, ground, Instant & Soluble Coffee Powder), Instant Coffee	Carbohydrate
130.	Caffein		FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea,

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural products		
			Coffee and Chicory,2023
131.		Energy	RFRAC/CHEM/SOP-28-2024
132.		Rancidity	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory,2023
133.	Oils, Sesame Oil, Rice Bran oil, Corn Oil, Sunflower Oil, Soybean Oil, Oil blends, Coconut oil, Olive Oil, Mustard oil, Mentha oil, Canola oil, Palm oil, Palmolein oil, Vanaspati, Margarine, Bakery Shortening, Fat spread, Ghee, Milk fat, Butter Oil, All type of Butter, Anhydrous Milk fat and Anhydrous Butter oil	Iodine value	FSSAI Lab Manual -Oils & Fats,2021
134.		Reichert-Meissl (RM) value	FSSAI Lab Manual -Oils & Fats,2021
135.		Acid value	FSSAI Lab Manual -Oils & Fats,2021
136.		Argemone oil	FSSAI Lab Manual -Oils & Fats,2021
137.		Hydrocyanic acid	FSSAI Lab Manual -Oils & Fats,2021
138.		Unsaponifiable matter	FSSAI Lab Manual -Oils & Fats,2021
139.		Peroxide Value	IS 548 (part1/Sec 2):2021
140.		Refractive index	FSSAI Lab Manual -Oils & Fats,2021
141.	Oils, Sesame Oil, Rice Bran oil, Corn Oil, Sunflower Oil, Soybean Oil, Oil blends, Coconut oil, Olive Oil, Mustard oil, Mentha oil,	Energy	RFRAC/CHEM/SOP-28-2024
142.		B.R. at 40°C	FSSAI Manual for Milk and Milk products 2022

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Food & Agricultural products			
143.	Canola oil, Palm oil, Palmolein oil, Vanaspati, Margarine, Bakery Shortening, Fat spread, Ghee, Milk fat, Butter Oil, All type of Butter, Anhydrous Milk fat and Anhydrous Butter oil	Specific gravity	FSSAI Lab Manual -Oils & Fats
144.	Herbs, Spices, Condiments, Chillies and Capsicum (Lal Mirchi),	Acid Insoluble Ash	FSSAI Manual Spices and Condiments 2021
145.	Chillies and Capsicum (Lal Mirchi) whole, Chillies and Capsicum (Lal Mirchi) Powder, Cassia (Taj)	Crude fibre	FSSAI Manual Spices and Condiments 2021
146.	Powder, Cassia (Taj) Whole, Cinnamon (Dalchini) whole,	Non-volatile ether extract	FSSAI Manual Spices and Condiments 2021
147.	Cinnamon (Dalchini) powder, Turmeric whole, Turmeric	Ash insoluble in dilute HCL	FSSAI Manual Spices and Condiments 2021
148.	powder, coriander powder, red chilly powder, garam masala, sabji	Alcohol Soluble Extract	FSSAI Manual Spices and Condiments 2021
149.	masala, Sunf, Jeera whole and powder, Saunth	Cold Water-Soluble Extract	FSSAI Manual Spices and Condiments 2021
150.	Herbs, Spices, Condiments, Chillies and Capsicum (Lal Mirchi),	Moisture	FSSAI Manual Spices and Condiments 2021
151.	Chillies and Capsicum (Lal Mirchi) whole, Chillies and Capsicum (Lal	Volatile oil	FSSAI Manual Spices and Condiments 2021

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Food & Agricultural products			
152.	Mirchi) Powder, Cassia (Taj) Powder, Cassia (Taj) Whole, Cinnamon (Dalchini) whole, Cinnamon (Dalchini) powder,	Total Ash (dry basis)	FSSAI Manual Spices and Condiments 2021
153.	Turmeric whole, Turmeric powder, coriander powder, red chilly powder, garam masala, sabji masala, Sunf, Jeera whole and powder, Saunth	Curcumin	FSSAI Manual Spices and Condiments 2021
154.		Insect damaged matter (Insect damaged matter, empty and malformed capsules, broken, damaged, immature and shriveled seeds, unripe, discoloured and marked fruits in all spices, Tendrils, mother cloves, khoker cloves and headless cloves, Light seeds in cardamom, Defective rhizomes in turmeric, Floral waste in saffron, Pinheads, broken berries, insect defiled berries, moldy berries in black pepper etc.)	FSSAI Manual Spices and Condiments 2021
155.	Herbs, Spices, Condiments, Chillies and Capsicum (Lal Mirchi),	Sodium	RFRAC/INST/SOP-24-2024
156.	Chillies and Capsicum (Lal Mirchi)	Potassium	RFRAC/INST/SOP-24-2024
157.	whole, Chillies and Capsicum (Lal	Calcium	RFRAC/INST/SOP-24-2024

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Food & Agricultural products			
158.	Mirchi) Powder, Cassia (Taj) Powder, Cassia (Taj) Whole,	Iron	RFRAC/INST/SOP-07-2023
159.	Cinnamon (Dalchini) whole,	Zinc	RFRAC/INST/SOP-07-2023
160.	Cinnamon (Dalchini) powder, Turmeric whole, Turmeric	Magnesium	RFRAC/INST/SOP-07-2023
161.	powder, coriander powder, red	Copper	RFRAC/INST/SOP-07-2023
162.	chili powder, garam masala, sabji	Lead	RFRAC/INST/SOP-07-2023
163.	masala, Sunf, Jeera whole and powder, Saunth	Cadmium	RFRAC/INST/SOP-07-2023
164.	Honey and its by products	Acidity	IS: 4941: 1994
165.	Honey and its by products	Carbohydrate	IS 1656:2022
166.	Honey and its by products	Chlorophyll	FSSAI Lab Manual-Food Additives 2016
167.	Honey and its by products	Extraneous matter	IS 4941 :1994
168.	Honey and its by products	Fiehe's test	IS 4941 :1994
169.	Honey and its by products	Glucose/ Fructose ratio	IS 4941 :1994
170.	Honey and its by products	HMF	IS 4941 :1994
171.	Honey and its by products	Moisture	IS 4941 :1994
172.	Honey and its by products	Pollens and plant element	IS 4941 :1994

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural products		
173.	Honey and its by products	Reducing sugars	IS 4941 :1994
174.	Honey and its by products	Refractive index	IS 4941 :1994
175.	Honey and its by products	Specific gravity	IS 4941 :1994
176.	Honey and its by products	Sucrose	IS 4941 :1994
177.	Honey and its by products	Total Ash (dry wt. basis)	IS 4941 :1994
178.	Honey and its by products	Carbohydrate	IS 1656:2022
179.	Honey and its by products	Acid Insoluble Ash	IS 4941 :1994
180.	Honey and its by products	Aniline Chloride test	FSSAI Lab Manual-Food Additives 2016
181.	Honey and its by products	Annatto	FSSAI Lab Manual-Food Additives 2016
182.	Honey and its by products	Ash	IS 4941:1994
183.	Honey and its by products	Caramel	FSSAI Lab Manual-Food Additives 2016
184.	Honey and its by products	Colour	IS 4941
185.	Honey and its by products	Curcumin	FSSAI Lab Manual-Food Additives 2016
186.	Honey and its by products	Energy	RFRAC/CHEM/SOP-28-2024

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural products		
187.	Honey and its by products	Fat	IS 6287:1985
188.	Honey and its by products	Flavour	IS 4941:1994
189.	Honey and its by products	Fragments of insects	IS 4941:1994
190.	Honey and its by products	Fructose	IS 4941:1994
191.	Honey and its by products	Glucose	IS 4941:1994
192.	Honey and its by products	Optical density at 660 nm	IS 4941:1994
193.	Honey and its by products	Protein	IS 7219:1973
194.	Honey and its by products	Taste	IS 4941:1994
195.	Honey and its by products	pH	RFRAC/INST/SOP-63-2024
196.	Vegetables and Vegetable Products Thermally Processed,	pH	RFRAC/INST/SOP-63-2024
197.	Unprocessed, Frozen , Fresh, Dehydrated, Ready to Eat, Fruits and Vegetable and its Products,	Vitamin C	FSSAI Manual for Fruit and Vegetable 2016
198.	Curried Vegetables Juices, cocktails, soups Nectars, Pulp,	T.S.S.	FSSAI Manual for Fruit and Vegetable 2016
199.	Puree, Paste, Fruit drink/Fruit beverages, Powders, Soup	Sodium	RFRAC/INST/SOP-15-2024
200.	Powders, Concentrates, Fruit bar, Toffee, Flakes, Crush, Squash,	Potassium	RFRAC/INST/SOP-15-2024

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Food & Agricultural products			
201.	Syrup, Sarbat, Barley water, Murabba, peel, Sauces, Tomato	Calcium, mg/kg	RFRAC/INST/SOP-15-2024
202.	Ketchup, Jam, Jelly, Fruit Cheese, Marmalades, Chutney, Pickles,	Iron, mg/Kg	RFRAC/INST/SOP-61-2024
203.	Beans, Table Olives, Candied/ Desiccated Grated	Zinc, mg/kg	RFRAC/INST/SOP-61-2024
204.	Coconut/Crystallise/Glazed Fruit and vegetable/Rhizom, Synthetic Syrup, Culinary Paste, Soya Sauce,	Magnesium	RFRAC/INST/SOP-61-2024
205.	Carbonated, Fruit Beverages and Drink, Beverage Mix/ Powder,	Carbohydrate	IS: 1656: 2002
206.	Canned Product, Tamarind, fermented, cookies, dessert,	Energy	RFRAC/CHEM/SOP-28-2024
207.	spread	Titrateable Acidity as citric acid	FSSAI Manual for Fruit and Vegetable 2016
208.	Baby Foods, Infant Milk food, Infant formula, Milk-cereal based complementary food, Processed cereal based complementary food/Weaning food/Supplementary food	Calcium	RFRAC/INST/SOP-23-2024
209.		Iron	RFRAC/INST/SOP-06-2023
210.		Sugar	IS 15279: 2003
211.		Vitamin C	IS 5838:1970
212.		Zinc	RFRAC/INST/SOP-06:2023

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural products		
213.		Acid insoluble Ash	IS: 14433: 2022
214.		Moisture	FSSAI Manual for Milk and Milk products,2022
215.		Protein (N x 6.35)	IS: 7219: 1973
216.		Total Ash (dry wt. basis)	IS: 14433: 2007
217.	Dairy and Dairy Products, Liquid Milk:	Moisture	FSSAI Manual Milk and Milk Products 2022
218.	Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/	Lactose	IS 1479 (Part 2) 1961
219.	Recombined/Condensed/Sweetened/Homogenized milk/Full cream/Skimmed/Evaporated/Sweetened Condensed, Skimmed	Cane Sugar	FSSAI Manual Milk and Milk Products 2022
220.	Milk Powder, partially skimmed,	Total Ash (dry basis)	FSSAI Manual Milk and Milk Products 2022
221.	Whole Milk Powder, Cheese, Paneer, Chakka, Khoa, Curd, Ice Cream, Flavoured Ice Cream, Ice Lolly, Popsicles	Milk Fat	FSSAI Manual Milk and Milk Products 2022
222.		SNF	FSSAI Manual Milk and Milk Products 2022
223.	Dairy and Dairy Products, Liquid Milk:	Starch	FSSAI Manual Milk and Milk Products 2022

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Food & Agricultural products			
224.	Raw/Sterilized/Pasteurized/Flavoured/Toned/Double	Titration Acidity as Lactic Acid	FSSAI Manual Milk and Milk Products 2022
225.	Toned/Standardized/Recombined/Condensed/Sweetened/Homogenized milk/Full	Total Solids	FSSAI Manual Milk and Milk Products 2022
226.	cream/Skimmed/Evaporated/Sweetened Condensed, Skimmed	Protein	FSSAI Manual Milk and Milk Products 2022
227.	Milk Powder, partially skimmed, Whole Milk Powder, Cheese,	Alkaline phosphates	FSSAI Manual Milk and Milk Products 2022
228.	Paneer, Chakka, Khoa, Curd, Ice Cream, Flavoured Ice Cream, Ice	Maltodextrin	FSSAI Manual Milk and Milk Products 2022
229.	Lolly, Popsicles	Detection of added urea in milk	FSSAI Manual Milk and Milk Products 2022
230.		Detection of ammonium compounds in milk	FSSAI Manual Milk and Milk Products 2022
231.	Dairy and Dairy Products, Liquid Milk: Raw/Sterilized/Pasteurized/	Detection of cellulose in milk	FSSAI Manual Milk and Milk Products 2022
232.	Flavoured/Toned/Double Toned/Standardized/	Detection of gelatine	FSSAI Manual Milk and Milk Products 2022
233.	Recombined/Condensed/Sweetened/Homogenized milk/Full	Detection of sodium chloride in milk	FSSAI Manual Milk and Milk Products 2022
234.	cream/Skimmed/Evaporated/Sweetened Condensed, Skimmed	Estimation of added glucose in milk	FSSAI Manual Milk and Milk Products 2022

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Food & Agricultural products			
235.	Milk Powder, partially skimmed, Whole Milk Powder, Cheese,	Foreign Fat in Milk	FSSAI Manual Milk and Milk Products 2022
236.	Paneer, Chakka, Khoa, Curd, Ice Cream, Flavoured Ice Cream, Ice Lolly, Popsicles	Hypochlorites and chloramines in milk	FSSAI Manual Milk and Milk Products 2022
237.		Neutralizers in milk	FSSAI Manual Milk and Milk Products 2022
238.		Nitrates in milk	FSSAI Manual Milk and Milk Products 2022
239.		Presence of anionic detergent	FSSAI Manual Milk and Milk Products 2022
240.		Presence of Boric acid and borates	FSSAI Manual Milk and Milk Products 2022
241.		Presence of formalin	FSSAI Manual Milk and Milk Products 2022
242.	Dairy and Dairy Products, Liquid Milk:	Presence of Hydrogen peroxide	FSSAI Manual Milk and Milk Products 2022
243.	Raw/Sterilized/Pasteurized/Flavoured/Toned/Double	Presence of salicylic acid	FSSAI Manual Milk and Milk Products 2022
244.	Toned/Standardized/Recombined/Condensed/Sweetened/Homogenized milk/Full cream/Skimmed/Evaporated/Swe	Presence of sulphates	FSSAI Manual Milk and Milk Products 2022
245.		Moisture	FSSAI Manual Milk and Milk Products 2022

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Food & Agricultural products			
246.	etened Condensed, Skimmed Milk Powder, partially skimmed, Whole Milk Powder, Cheese, Paneer, Chakka, Khoa, Curd, Ice Cream, Flavoured Ice Cream, Ice Lolly, Popsicles	Milk fat	FSSAI Manual Milk and Milk Products 2022
247.		Turbidity test	FSSAI Manual Milk and Milk Products 2022
248.		Insolubility Index	IS 12711:1989
249.		Carbohydrates	FSSAI Manual Milk and Milk Products 2022
250.		Energy	RFRAC/CHEM/SOP-28-2024
251.		Calcium	RFRACINST/SOP-26-2024
252.		Sodium	RFRACINST/SOP-26-2024
253.		SNF as Sodium	FSSAI Manual Milk and Milk Products 2022
254.		Potassium	RFRACINST/SOP-26 2024
255.		Edible Common Salt, Iodized Salt, Iron Fortified Common Salt, Potassium Iodate, Iron Fortified Iodized Salt	Lead
256.	Alkalinity		IS 253:1985
257.	Calcium		RFRAC/INST/SOP-25-2024
258.	Copper		RFRACINST/SOP-54-2024
259.	Ferrocyanide		IS 253:1985

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Scope of Accreditation

Regional Food Research and Analysis Centre

Udyan Bhawan Campus, 2- Sapru Marg,
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QAI/CIA/TL/2026/0163

Valid from: 20 March 2026

Valid until: 19 March 2028

Accreditation Standard: ISO/IEC17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Food & Agricultural products			
260.		Moisture	IS 7224:2006
261.		pH	IS 16232:2014
262.		Sodium chloride	IS 253:1985
263.		Sodium	RFRAC/INST/SOP-25:2024
264.		Potassium	RFRAC/INST/SOP-25:2024
265.		Iron	RFRAC/INST/SOP-25:2024
266.		Tea & tea products, Ice Tea, Brew Tea, Honey Flavoured Tea, Herbal Tea, White and Red Tea. Masala Tea, Organic Tea, Green Tea,	Iron filling
267.	Ready to drink Tea & Green Tea, Kangra tea	Water soluble ash	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory,2023
268.	Tea & tea products, Ice Tea, Brew Tea, Honey Flavoured Tea, Herbal Tea, White and Red Tea. Masala Tea, Organic Tea, Green Tea, Ready to drink Tea & Green Tea, Kangra tea	Alkalinity of water-soluble ash as KOH	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory,2023
269.		Acid insoluble ash	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory,2023
270.		Total ash	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea,

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural products		
			Coffee and Chicory,2023
271.		Crude fibre	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory,2023
272.		Moisture	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory,2023
273.		Water extract	FSSAI Manual of Methods of Analysis of Foods- Beverages: Tea, Coffee and Chicory 2023
274.		Carbohydrate	IS 1656:2022
275.		Energy	RFRAC/CHEM/SOP-28-2024
276.		Sodium	RFRAC/INST/SOP-82-2025
277.	Tea & tea products, Ice Tea, Brew Tea, Honey Flavoured Tea, Herbal Tea, White and Red Tea. Masala Tea, Organic Tea, Green Tea,	Potassium	RFRAC/INST/SOP-82-2025
278.	Ready to drink Tea & Green Tea, Kangra tea	Calcium	RFRAC/INST/SOP-82-2025
279.	Other food product and	Ash	IS: 2962: 1964
280.	ingredients (Pan Masala, Mouth	Acid insoluble Ash	IS: 2962: 1964

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Food & Agricultural products		
281.	Freshener, sweet supari, Catechu (Kattha)	Starch	IS: 2962: 1964
282.		Catechin	IS: 2962: 1964
283.		Cold Water Extractives	IS: 2962: 1964
284.		Matter Insoluble in Rectified Spirit	IS: 2962: 1964
285.		Alcohol insoluble residue in 90 per cent alcohol dried at 100°C	IS: 2962: 1964
286.		Dirt, Insect Infestation, Sand, earth	IS: 2962: 1964
287.		Loss on Drying/Drying Test	IS: 2962: 1964



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
1.	Drinking Water	Electrical Conductivity	IS:3025 (P-14) 2013
2.	Drinking Water	pH	IS: 3025: (P-11) 2022
3.	Drinking Water	Ammonia	IS:3025 (P- 34): SEC-1 2023
4.	Drinking Water	Chloramines	IS:3025 (P-26) 2021
5.	Drinking Water	Fluoride	RFRAC/CHEM/SOP-48 2024
6.	Drinking Water	Nitrate -Nitrogen	IS:3025 (P- 34): SEC-1 2023
7.	Drinking Water	Nitrite (as NO ₂)	IS:3025 (P- 34): SEC-1 2023
8.	Drinking Water	Odour	IS:3025(P-5) 2018
9.	Drinking Water	Colour	IS 3025: Part 4 2021
10.	Drinking Water	Sulphate	IS 3025 (Part 24/Sec-1) 2022
11.	Drinking Water	Sulphide (as H ₂ S)	IS:3025 (P-29) 2022
12.	Drinking Water	Calcium (as Ca), mg/l	IS 3025 (P- 40) 2024
13.	Drinking Water	Copper (as Cu), mg/l	IS 3025 (P- 42) 2024
14.	Drinking Water	Iron (as Fe), mg/l	IS 3025 (P- 53) 2024
15.	Drinking Water	Magnesium (as Mg), mg/l	IS 3025 (P- 46) 2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
16.	Drinking Water	Free Residual Chlorine	IS:3025: (P-26) 2021
17.	Drinking Water	Zinc (as Zn), mg/l	IS 3025 (P- 49) 2024
18.	Drinking Water	Cadmium (as Cd), mg/l	IS 3025 (P- 41) 2023
19.	Drinking Water	Lead (as Pb), mg/l	IS 3025 (P- 47) 2024
20.	Drinking Water	Total Phosphate, mg/l	IS 3025 (Part 31/Sec 1) 2022
21.	Drinking Water	Nickel (as Ni)	IS 3025 (P- 54) 2003
22.	Drinking Water	Total Hardness	IS:3025 (P-21) 2009
23.	Drinking Water	Total Chromium (as Cr)	IS 3025 (P- 52) 2003
24.	Drinking Water	Taste	IS:3025 (P-8) 2023
25.	Drinking Water	Turbidity	IS:3025 (P-10) 2023
26.	Drinking Water	Bio Chemical Oxygen Demand (BOD)	IS 3025 (Part 44) 2023
27.	Drinking Water	Chloride as Cl	IS:3025: (P-32) 1988
28.	Drinking Water	Chemical Oxygen Demand (COD)	IS 3025 (Part 58) 2023
29.	Drinking Water	Total Dissolved Solids	IS:3025:(P- 16) 2023

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
30.	Drinking Water	Silica	IS 3025 (Part 35) 2024
31.	Drinking Water	Total Alkalinity	IS 3025 (Part 23) 2023
32.	Borewell water	Total Alkalinity	IS: 3025 (P-23) 2023
33.	Borewell water	Colour	IS 3025: Part 4 2021
34.	Borewell water	Electrical Conductivity	IS:3025 (P-14) 2013
35.	Borewell water	pH	IS: 3025: (P-11) 2022
36.	Borewell water	Hardness	IS:3025 (P-21) 2009
37.	Borewell water	Ammonia	IS:3025 (P- 34): SEC-1 2023
38.	Borewell water	Biochemical Oxygen Demand	IS:3025 (P-44) 2023
39.	Borewell Water	Calcium Hardness as CaCO ₃	IS:3025 (P-21) 2009
40.	Borewell water	Chloramines	IS:3025 (P-26) 2021
41.	Borewell Water	Chloride as cl	IS:3025 (P-32) 1988
42.	Borewell water	Dissolved Oxygen	Is:3025 (P-38) 1989
43.	Borewell water	Nitrate Nitrogen	IS:3025 (P- 34): SEC-1 2023
44.	Borewell water	Cyanide (as Cn)	IS 3025: Part 27: Sec 2 2022

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
45.	Borewell water	Free Residual Chlorine	IS:3025: (P-26) 2021
46.	Borewell Water	Nitrite Nitrogen	IS:3025 (P- 34): SEC-1 2023
47.	Borewell water	Sulphate	IS 3025 (Part 24/Sec-1) 2022
48.	Borewell water	Chemical Oxygen Demand (COD)	IS 3025 (Part 58) 2023
49.	Borewell water	Turbidity	IS:3025 (P-10) 2023
50.	Borewell water	Bio Chemical Oxygen Demand (BOD)	IS 3025 (Part 44) 2023
51.	Borewell Water	Sulphide as H ₂ S	IS:3025(P-29) 2022
52.	Borewell water	Taste	IS:3025 (P-8) 2023
53.	Borewell water	Turbidity	IS:3025 (P-10) 2023
54.	Packaged Drinking water	Carbonate and bicarbonate	IS:3025 (P-51) 2023
55.	Packaged Drinking water	Ammonia	IS:3025 (P- 34): SEC-1 2023
56.	Packaged Drinking water	Free Residual Chlorine	IS:3025 (P-26) 2021
57.	Packaged Drinking water	Chloramine	IS:3025 (P-26) 2021
58.	Packaged Drinking water	Nitrate-Nitrogen	IS:3025 (P- 34): SEC-1 2023

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
59.	Packaged Drinking water	Electrical Conductivity	IS:3025 (P-14) 2013
60.	Packaged Drinking water	pH	IS: 30256 (P-11) 2022
61.	Packaged Drinking water	Nitrogen (NO ₂)	IS:3025 (P-34) 1988
62.	Packaged Drinking water	Taste	IS: 3025:(P-8) 2023
63.	Packaged Natural Mineral Water	Ammonia	IS 3025 P(34) 2023
64.	Packaged Natural Mineral Water	Odour	IS:3025 (P-5) 2018
65.	Packaged Natural Mineral Water	Phenolic compound	IS:3025 (P-43) 1992
66.	Packaged Natural Mineral Water	Colour	IS 3025: Part 4 2021
67.	Packaged Natural Mineral Water	Sulphate	IS 3025 (Part 24/Sec-1)2022
68.	Packaged Natural Mineral Water	Chemical Oxygen Demand (COD)	IS 3025 (Part 58) 2023
69.	Packaged Natural Mineral Water	Turbidity	IS:3025 (P-10) 2023
70.	Packaged Natural Mineral Water	Bio Chemical Oxygen Demand (BOD)	IS 3025 (Part 44) 2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
71.	Packaged Natural Mineral Water	Electrical Conductivity	IS:3025 (P-14) 2013
72.	Packaged Natural Mineral Water	Sulphide	IS:3025 (P-29) 2022
73.	Packaged Natural Mineral Water	Silica	IS:3025(P-35) 2024
74.	Packaged Natural Mineral Water	Chemical Oxygen Demand (COD)	IS 3025 (Part 58) 2023
75.	Pool water	Odour	IS:3025 (P-5) 2018
76.	Pool water	Oxygen Absorbed	IS 3025 (Part 63) 2007
77.	Pool water	Electrical Conductivity	IS: 3025 (P-14): 2013
78.	Pool water	pH	IS: 3025:1986 (P-11) 2022
79.	Pool water	Silica as SiO ₂	IS 3025 (Part 35) 2024
80.	Pool Water	Turbidity	IS:3025(P-10) 2023
81.	Pool Water	Free Residual Chlorine	IS:3025: (P-26) 2021
82.	Pool Water	Ammonia	IS:3025 (P- 34): SEC-1 2023
83.	RO water	Carbonate & Bicarbonate	IS:3025(P-51) 2023
84.	Ro water	Chloramine	IS:3025 (P-26) 2021
85.	Ro water	Nitrate -Nitrogen	IS:3025 (P- 34): SEC-1 2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
86.	Ro water	Colour	IS 3025: Part 4 2021
87.	Ro water	Nitrite (as NO ₂)	IS:3025 (P- 34): SEC-1 2023
88.	RO water	Sulphide (as H ₂ S)	IS:3025(P-29) 2022
89.	RO water	Bio Chemical Oxygen Demand (BOD)	IS 3025 (Part 44) 2023
90.	RO water	Free Residual Chlorine	IS:3025:(P-26) 2021
91.	RO water	Chemical Oxygen Demand (COD)	IS 3025 (Part 58) 2023
92.	Ro water	Taste	IS:3025(P-8) 2023
93.	Ro water	Electrical Conductivity	IS:3025 (P-14) 2013
94.	Ro water	pH	IS: 3025:(P-11) 2022

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution & Environment		
1.	Sewage water	Acidity	IS 3025 (Part 22) 2024
2.	Sewage water	Ammonia	IS 3025 (Part 34) 2023
3.	Sewage water	Ammonical Nitrogen	IS 3025 (Part 34) 2023
4.	Sewage water	Bio Chemical Oxygen Demand (BOD)	IS 3025 (Part 44) 2023
5.	Sewage water	Chemical Oxygen Demand (COD)	IS 3025 (Part 58) 2023
6.	Sewage water	Chloride	IS 3025 (Part 32) 1988
7.	Sewage water	Dissolved Oxygen	IS 3025 (Part 38): SEC 2 2025
8.	Sewage water	Electrical Conductivity	IS:3025 (P-14)2013
9.	Sewage water	Fixed Solids	IS 3025 (Part 18) 2022
10.	Sewage water	Nitrate (NO ₃)	IS:3025 (P- 34): SEC-1 2023
11.	Sewage water	Nitrite (NO ₂)	IS:3025 (P- 34): SEC-1 2023
12.	Sewage water	Odour	IS 3025 (Part 5) 2018
13.	Sewage Water	Phosphate	IS 3025 (Part 31): SEC 1 2023
14.	Sewage water	Sulphate	IS 3025 (Part 24/Sec-1) 2022
15.	Sewage water	Sulphide as H ₂ S	IS 3025 (Part 29) 2022
16.	Sewage water	Total alkalinity	IS 3025 (Part 23) 2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution & Environment		
17.	Sewage water	Total Hardness	IS 3025 (Part 21) 2009
18.	Sewage water	Total Kjeldahl Nitrogen	IS 3025 (Part 34) 2023
19.	Sewage water	Total solids	IS 3025 (Part 15) 2003
20.	Sewage water	Total Suspended Solids	IS 3025 (Part 17)2022
21.	Sewage water	Turbidity	IS 3025 (Part 10) 2023
22.	Sewage water	Volatile Solids	IS 3025 (Part 18) 2022
23.	Treated effluent	Alkalinity	IS 3025(Part 23) 2023
24.	Treated effluent	Ammonia	IS 3025 (Part 34) 2023
25.	Treated effluent	Ammonical Nitrogen	IS 3025 (Part 34) 2023
26.	Treated effluent	Bio Chemical Oxygen Demand (BOD)	IS 3025 (Part 44) 2023
27.	Treated effluent	Chemical Oxygen Demand (COD)	IS 3025 (Part 58) 2023
28.	Treated effluent	pH	IS 10158:1982
29.	Treated effluent	Dissolved Oxygen	IS 3025 (Part 38) 2025
30.	Treated effluent	Fixed Solids	IS 3025 (Part 18) 2022
31.	Treated effluent	Calcium (as Ca), mg/l	IS 3025 (P- 40) 2024
32.	Treated effluent	Magnesium (as Mg), mg/l	IS 3025 (P- 46) 2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution & Environment		
33.	Treated effluent	Nitrate (NO ₃)	IS 3025 (Part 34) 2023
34.	Treated effluent	Nitrite (NO ₂)	IS 3025 (Part 34) 2023
35.	Treated effluent	Odour	IS 3025 (Part 5) 2018
36.	Treated effluent	Phosphate	IS 3025 (Part 31) 2022
37.	Treated effluent	Total Hardness	IS 3025 (Part 21) 2009
38.	Treated effluent	Total Kjeldahl Nitrogen	IS:3025 (P- 34): SEC-1 2023
39.	Treated effluent	Total solids	IS 3025 (Part 15) 2023
40.	Treated effluent	Total Suspended Solids (TSS)	IS 3025 (Part 17) 2022
41.	Treated effluent	Turbidity	IS 3025 (Part 10) 2023
42.	Treated effluent	Volatile Solids	IS 3025 (Part 18) 2022
43.	Water	Total Dissolved Solids	IS:3025: (P-16) 2023
44.	Sludge	Kjeldahl Nitrogen	IS 10158: 1982
45.	Sludge	Non-Volatile Matter	IS 10158: 1982
46.	Sludge	pH	IS 10158: 1982
47.	Sludge	Volatile Matter	IS 10158:1982
48.	Soil	Calcium Carbonate	IS 2720 (Part 23) 1976
49.	Soil	Electrical Conductivity	RFRAC/INS/SOP-31 2023

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	Pollution & Environment		
50.	Soil	Moisture	RFRAC/INS/SOP-31 -2023
51.	Soil	Nitrogen	IS 14684: 1999
52.	Soil	pH	RFRAC/INS/SOP-31-2023
53.	Soil	Soil texture	RFRAC/INS/SOP-31-2023
54.	Soil	Organic Carbon	RFRAC/INS/SOP-31 -2023
55.	Soil	Available Nitrogen	RFRAC/INS/SOP-31-2023
56.	Soil	Available Phosphorus	RFRAC/INS/SOP-31-2023
57.	Soil	Available Potassium	RFRAC/INS/SOP-31-2023
58.	Soil	Available Zinc	RFRAC/INS/SOP-31-2023
59.	Soil	Available Copper	RFRAC/INS/SOP-31-2023
60.	Soil	Available Iron	RFRAC/INS/SOP-31-2023
61.	Soil	Available Manganese	RFRAC/INS/SOP-31-2023
62.	Soil	C:N Ratio	RFRAC/INS/SOP-31-2023

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