National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	RANJITA ANALYTICAL & RESEARCH LABORATORY, BIDYANAGAR, MAHURA, JANLA, BHUBANESWAR, KHORDHA, ODISHA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Atta, Maida, Suji, Rawa, Corn Flour, Custard Powder	Acid Insoluble Ash	IS 1009
2	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Atta, Maida, Suji, Rawa, Corn Flour, Custard Powder	Acid Insoluble Ash	IS 1155
3	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Atta, Maida, Suji, Rawa, Corn Flour, Custard Powder	Alcoholic Acidity	IS 1009
4	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Atta, Maida, Suji, Rawa, Corn Flour, Custard Powder	Carbohydrates	AOAC 20th Edition 986.25
5	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Atta, Maida, Suji, Rawa, Corn Flour, Custard Powder	Crude Fiber	IS 10226 (Part 1)
6	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Atta, Maida, Suji, Rawa, Corn Flour, Custard Powder	Crude Fiber	IS 1155
7	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Atta, Maida, Suji, Rawa, Corn Flour, Custard Powder	Dry Gluten	IS 1009
8	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Atta, Maida, Suji, Rawa, Corn Flour, Custard Powder	Dry Gluten	IS 1155
9	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Atta, Maida, Suji, Rawa, Corn Flour, Custard Powder	Energy	IS 9487
10	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Atta, Maida, Suji, Rawa, Corn Flour, Custard Powder	Moisture	IS 1009
11	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Atta, Maida, Suji, Rawa, Corn Flour, Custard Powder	Moisture	IS 1155
12	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Atta, Maida, Suji, Rawa, Corn Flour, Custard Powder	Protein	IS 7219
13	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Atta, Maida, Suji, Rawa, Corn Flour, Custard Powder	Total Ash	IS 1009

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14	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Atta, Maida, Suji, Rawa, Corn Flour, Custard Powder	Total Ash	IS 1155
15	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Atta, Maida, Suji, Rawa, Corn Flour, Custard Powder	Total Fat	AOAC 20th Edition 922.06
16	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Biscuits, Cakes, Chips, Wafers, Pastry, Brownie, Muffin	Acid Insoluble Ash	IS 1011
17	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Biscuits, Cakes, Chips, Wafers, Pastry, Brownie, Muffin	Acidity of Extracted Fat (as Oleic acid)	IS 1011
18	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Biscuits, Cakes, Chips, Wafers, Pastry, Brownie, Muffin	Alcoholic Acidity	IS 12711
19	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Biscuits, Cakes, Chips, Wafers, Pastry, Brownie, Muffin	Carbohydrates	AOAC 20th Edition 986.25
20	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Biscuits, Cakes, Chips, Wafers, Pastry, Brownie, Muffin	Energy	IS 9487
21	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Biscuits, Cakes, Chips, Wafers, Pastry, Brownie, Muffin	Moisture	IS 1011
22	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Biscuits, Cakes, Chips, Wafers, Pastry, Brownie, Muffin	Protein	IS 7219
23	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Biscuits, Cakes, Chips, Wafers, Pastry, Brownie, Muffin	Reducing Sugars	IS 6287
24	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Biscuits, Cakes, Chips, Wafers, Pastry, Brownie, Muffin	Sucrose	IS 6287
25	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Biscuits, Cakes, Chips, Wafers, Pastry, Brownie, Muffin	Sulfated Ash	IS 6287
26	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Biscuits, Cakes, Chips, Wafers, Pastry, Brownie, Muffin	Total Ash	IS 6287
27	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Biscuits, Cakes, Chips, Wafers, Pastry, Brownie, Muffin	Total Fat	IS 6287

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28	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Confectionary, Cocoa Products, Sugar & Its By Product, Chewing Gum	Sucrose	IS 15279
29	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Carbohydrates	IS 1656
30	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Detection of added Urea	FSSAI Lab Manual, Method No. 1.2.4
31	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Detection of Ammonium Compounds	FSSAI Lab Manual, Method No. 1.2.5
32	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Detection of Cane Sugar	FSSAI Lab Manual, Method No. 1.2.1
33	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Detection of Formalin	FSSAI Lab Manual, Method No. 1.2.17
34	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Detection of Neutralizers	FSSAI Lab Manual, Method No. 1.2.11
35	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Detection of Nitrates	FSSAI Lab Manual, Method No. 1.2.10
36	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Detection of Sodium Chloride	FSSAI Lab Manual, Method No. 1.2.8

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37	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Detection of Starch	FSSAI Lab Manual, Method No. 1.2.2
38	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Flavour and Taste	IS 13334 (Part 1)
39	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Milk Fat	IS 11721
40	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Protein	IS 7219
41	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Solid not Fat	IS 1479 (Part 2)
42	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Test for presence of Hydrogen peroxide	FSSAI Lab Manual, Method No. 1.2.18.3
43	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Test for presence of Sulphates	FSSAI Lab Manual, Method No. 1.2.6
44	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Titrable Acidity	IS 11766
45	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Total Ash	IS 14433

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46	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Total Solids	AOAC-900.21
47	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Total Solids	IS 11622
48	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Vitamin-C(Ascorbic Acid)	IS 5838
49	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk Powder & Similar Products	Moisture	IS 16072
50	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Paddy, Rice, Rice Powder	Broken, damaged, slightly damaged and Immature kernels	IS 4333 (Part 1)
51	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Paddy, Rice, Rice Powder	Foreign Matter	IS 4333 (Part 1)
52	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Paddy, Rice, Rice Powder	Moisture	IS 4333 (Part 2)
53	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Paddy, Rice, Rice Powder	Other Edible Grain	IS 4333 (Part 1)
54	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Paddy, Rice, Rice Powder	Starch	IS 4706 (Part II)
55	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Paddy, Rice, Rice Powder	Weevilled Grains	IS 4333 (Part 1)
56	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat, Daliya, Wheat Powder	Damaged Kernels	IS 4333 (Part 1)
57	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat, Daliya, Wheat Powder	Foreign Matter	IS 4333 (Part 1)

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58	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat, Daliya, Wheat Powder	Insect damaged grains	IS 4333 (Part 1)
59	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat, Daliya, Wheat Powder	Moisture	IS 4333 (Part 2)
60	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat, Daliya, Wheat Powder	Other Edible Grains	IS 4333 (Part 1)
61	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat, Daliya, Wheat Powder	Shrivelled & Broken Grains	IS 4333 (Part 1)
62	CHEMICAL- SOIL AND ROCK	Soil	Bulk Density	IS 2720 (Part 28)
63	CHEMICAL- SOIL AND ROCK	Soil	Conductivity @ 25°C	IS 14767
64	CHEMICAL- SOIL AND ROCK	Soil	Moisture	IS 2720 (Part 2)
65	CHEMICAL- SOIL AND ROCK	Soil	Organic Matter	IS 2720 (Part 22)
66	CHEMICAL- SOIL AND ROCK	Soil	pH @ 25°C	IS 2720 (Part 26)
67	CHEMICAL- SOIL AND ROCK	Soil	Phosphorus (as P)	EPA 7580
68	CHEMICAL- SOIL AND ROCK	Soil	Potassium (as K)	EPA 3050 B, APHA 23rd ed.3500 K
69	CHEMICAL- SOIL AND ROCK	Soil	Sodium (as Na)	EPA 3050 B/ APHA 23rd ed.3500 Na
70	CHEMICAL- SOIL AND ROCK	Soil	Total Kjeldahl Nitrogen as N	IS 14684
71	CHEMICAL- WATER	Construction water	pH @ 25°C	IS 2720 (Part 26)
72	CHEMICAL- WATER	Drinking Water	Ammonia (as NH3)	IS:3025 (Part 34)
73	CHEMICAL- WATER	Drinking Water	Calcium (as Ca)	IS:3025 (Part 40)
74	CHEMICAL- WATER	Drinking Water	Chloride (as Cl)	IS:3025 (Part 32)
75	CHEMICAL- WATER	Drinking Water	Colour	IS 3025 (Part 4)
76	CHEMICAL- WATER	Drinking Water	Fluoride(F)	IS:3025 (Part 60)
77	CHEMICAL- WATER	Drinking Water	Iron (as Fe)	IS:3025 (Part 53)

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78	CHEMICAL- WATER	Drinking Water	Magnesium (as Mg)	IS:3025 (Part 46)
79	CHEMICAL- WATER	Drinking Water	Nitrate (as NO3)	APHA 23 Ed. 4500 NO3 B
80	CHEMICAL- WATER	Drinking Water	Nitrite (as NO2)	IS:3025 (Part 34)
81	CHEMICAL- WATER	Drinking Water	Odour	IS 3025 (Part 05)
82	CHEMICAL- WATER	Drinking Water	pH Value	IS 3025 (Part 11)
83	CHEMICAL- WATER	Drinking Water	Specific Conductance	IS 3025(Part 14)
84	CHEMICAL- WATER	Drinking Water	Sulphate (as SO4)	IS:3025 (Part 24) Sec.1
85	CHEMICAL- WATER	Drinking Water	Taste	IS 3025 (Part 7)
86	CHEMICAL- WATER	Drinking Water	Total Alkalinity (as CaCO3)	IS 3025 (Part 23)
87	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS 3025 (Part 16)
88	CHEMICAL- WATER	Drinking Water	Total Hardness (as CaCO3)	IS 3025 (Part 21)
89	CHEMICAL- WATER	Drinking water	Turbidity	IS 3025 (Part 10)
90	CHEMICAL- WATER	Ground Water	Ammonia (as NH3)	IS:3025 (Part 34)
91	CHEMICAL- WATER	Ground water	Calcium (as Ca)	IS:3025 (Part 40)
92	CHEMICAL- WATER	Ground water	Chloride (as Cl)	IS:3025 (Part 32)
93	CHEMICAL- WATER	Ground water	Colour	IS 3025 (Part 4)
94	CHEMICAL- WATER	Ground water	Fluoride(F)	IS:3025 (Part 60)
95	CHEMICAL- WATER	Ground Water	Iron (as Fe)	IS:3025 (Part 53)
96	CHEMICAL- WATER	Ground water	Magnesium (as Mg)	IS:3025 (Part 46)
97	CHEMICAL- WATER	Ground water	Nitrate (as NO3)	APHA 23 Ed. 4500 NO3 B
98	CHEMICAL- WATER	Ground water	Nitrate (as NO3)	APHA 24 Ed. 4500 NO3 B
99	CHEMICAL- WATER	Ground water	Nitrite (as NO2)	IS:3025 (Part 34)
100	CHEMICAL- WATER	Ground water	Nitrite (as NO2)	IS:3025 (Part 34)
101	CHEMICAL- WATER	Ground Water	Sulphate (as SO4)	IS:3025 (Part24/ Sec.1)
102	CHEMICAL- WATER	Ground water	Total Hardness	IS:3025 (Part 21)
103	CHEMICAL- WATER	Natural Mineral Water	Ammonia (as NH3)	IS:3025 (Part34)
104	CHEMICAL- WATER	Natural Mineral Water	Calcium (as Ca)	IS:3025 (Part 40)
105	CHEMICAL- WATER	Natural Mineral Water	Chloride (as Cl)	IS:3025 (Part 32)
106	CHEMICAL- WATER	Natural Mineral Water	Colour	IS 3025 (Part 4)
107	CHEMICAL- WATER	Natural Mineral Water	Fluoride (F)	IS:3025 (Part 60)

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108	CHEMICAL- WATER	Natural Mineral Water	Iron (as Fe)	IS:3025 (Part 53)
109	CHEMICAL- WATER	Natural Mineral Water	Magnesium (as Mg)	IS:3025 (Part 46)
110	CHEMICAL- WATER	Natural Mineral Water	Nitrate (as NO3)	APHA 23 Ed. 4500 NO3 B
111	CHEMICAL- WATER	Natural Mineral Water	Nitrite (as NO2)	IS:3025 (Part 34)
112	CHEMICAL- WATER	Natural Mineral Water	Sulphate (as SO4)	IS:3025 (Part24/ Sec.1)
113	CHEMICAL- WATER	Natural Mineral Water	Total Hardness	IS:3025 (Part 21)
114	CHEMICAL- WATER	Packaged Drinking Water	Ammonia (as NH3)	IS:3025 (Part 34)
115	CHEMICAL- WATER	Packaged Drinking Water	Calcium (as Ca)	IS:3025 (Part 40)
116	CHEMICAL- WATER	Packaged Drinking Water	Chloride (as Cl)	IS:3025 (Part 32)
117	CHEMICAL- WATER	Packaged Drinking Water	Colour	IS 3025 (Part 4)
118	CHEMICAL- WATER	Packaged Drinking Water	Fluoride(F)	IS:3025 (Part 60)
119	CHEMICAL- WATER	Packaged Drinking Water	Iron (as Fe)	IS:3025 (Part 53)
120	CHEMICAL- WATER	Packaged Drinking Water	Magnesium (as Mg)	IS:3025 (Part 46)
121	CHEMICAL- WATER	Packaged Drinking Water	Nitrate (as NO3)	APHA 23 Ed. 4500 NO3 B
122	CHEMICAL- WATER	Packaged Drinking Water	Nitrite (as NO2)	IS:3025 (Part 34)
123	CHEMICAL- WATER	Packaged Drinking Water	Sulphate (as SO4)	IS:3025 (Part24/ Sec.1)
124	CHEMICAL- WATER	Packaged Drinking Water	Total Hardness	IS:3025 (Part 21)
125	CHEMICAL- WATER	Water for construction purpose	Acidity	IS:3025 (Part22)
126	CHEMICAL- WATER	Water for construction purpose	Alkalinity	IS:3025 (Part23)
127	CHEMICAL- WATER	Water for construction purpose	Chlorides (as Cl)	IS:3025 (Part 32)
128	CHEMICAL- WATER	Water for construction purpose	Inorganic	IS 3025 (part 18)
129	CHEMICAL- WATER	Water for construction purpose	Organic	IS 3025 (part 18)
130	CHEMICAL- WATER	Water for construction purpose	Sulphates (as SO4)	IS:3025 (Part 24)
131	CHEMICAL- WATER	Water for construction purpose	Suspended matter	IS 3025 (Part 17)
132	CHEMICAL- WATER	Water for Processed food industry	Ammonia (as NH3)	IS:3025 (Part34)
133	CHEMICAL- WATER	Water for Processed food industry	Calcium (as Ca)	IS:3025 (Part 40)
134	CHEMICAL- WATER	Water for Processed food industry	Chloride (as Cl)	IS:3025 (Part 32)
135	CHEMICAL- WATER	Water for Processed food industry	Colour	IS 3025 (Part 4)
136	CHEMICAL- WATER	Water for Processed food industry	Fluoride (F)	IS:3025 (Part 60)
137	CHEMICAL- WATER	Water for Processed food industry	Iron (as Fe)	IS:3025 (Part 53)

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138	CHEMICAL- WATER	Water for Processed food industry	Magnesium (as Mg)	IS:3025(Part 46)
139	CHEMICAL- WATER	Water for Processed food industry	Nitrate (as NO3)	APHA 23 Ed. 4500 NO3 B
140	CHEMICAL- WATER	Water for Processed food industry	Nitrite (as NO2)	IS:3025 (Part 34)
141	CHEMICAL- WATER	Water for Processed food industry	Sulphate (as SO4)	IS:3025 (Part24/ Sec.1)
142	CHEMICAL- WATER	Water for Processed food industry	Total Hardness	IS:3025 (Part 21)

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