



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	STATE DAIRY LABORATORY, DIRECTORATE OF DAIRY DEVELOPMENT DEPARTMENT,PATTOM, THIRUVANANTHAPURAM, KERALA, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-7168	<b>Page No</b>	1 of 8
<b>Validity</b>	14/08/2020 to 13/08/2022	<b>Last Amended on</b>	24/08/2020

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	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Cream, Butter, Butter Milk Infant Milk & Milk Substitutes and Other Related Products, Milk Powder, Skim, Partly Skimmed, Condensed Milk, Yoghurt, Dahi, Chakka, Shrikhand, Cheese & Cheese Products, Ice-Cream, other Frozen Desserts, Paneer, Khoa, peda	Total Plate Count	USFDA BAM Edition 8: 1998 (Chapter 3) RA
2	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Cream, Butter, Butter Milk Infant Milk & Milk Substitutes and Other Related Products, Milk Powder, Skim, Partly Skimmed, Condensed Milk, Yoghurt, Dahi, Chakka, Shrikhand, Cheese & Cheese Products, Ice-Cream, other Frozen Desserts, Paneer, Khoa, peda	Yeast and Mould count	IS 5403 : 1999 RA
3	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Cream, Butter, Butter Milk Infant Milk & Milk Substitutes and Other Related Products, Milk Powder, Skim, Partly Skimmed, Condensed Milk, Yoghurt, Dahi, Chakka, Shrikhand, Cheese & Cheese Products, Ice-Cream, other Frozen Desserts, Paneer, Khoa, peda	Coliform count	IS 5401 (Part 1) :2002 RA
4	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Cream, Butter, Butter Milk Infant Milk & Milk Substitutes and Other Related Products, Milk Powder, Skim, Partly Skimmed, Condensed Milk, Yoghurt, Dahi, Chakka, Shrikhand, Cheese & Cheese Products, Ice-Cream, other Frozen Desserts, Paneer, Khoa, peda	E.coli	IS 5887 (Part 1) :1976 RA
5	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Cream, Butter, Butter Milk Infant Milk & Milk Substitutes and Other Related Products, Milk Powder, Skim, Partly Skimmed, Condensed Milk, Yoghurt, Dahi, Chakka, Shrikhand, Cheese & Cheese Products, Ice-Cream, other Frozen Desserts, Paneer, Khoa, peda	Listeria monocytogenes	USFDA BAM Edition 8 : 2001 (Chapter 10) RA
6	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Cream, Butter, Butter Milk Infant Milk & Milk Substitutes and Other Related Products, Milk Powder, Skim, Partly Skimmed, Condensed Milk, Yoghurt, Dahi, Chakka, Shrikhand, Cheese & Cheese Products, Ice-Cream, other Frozen Desserts, Paneer, Khoa, peda	Salmonella	USFDA BAM Edition 8:1999 (Chapter 5) RA
7	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Cream, Butter, Butter Milk Infant Milk & Milk Substitutes and Other Related Products, Milk Powder, Skim, Partly Skimmed, Condensed Milk, Yoghurt, Dahi, Chakka, Shrikhand, Cheese & Cheese Products, Ice-Cream, other Frozen Desserts, Paneer, Khoa, peda	Staphylococcus aureus	IS 5887 (Part 8) / section 2:2002
8	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Milk & Dairy Products	Coliform Count	IS 5401 (Part 1) : 2002 RA
9	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Milk & Dairy Products	E.coli	IS 5887 (Part 1) : 1976 RA



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ISO/IEC 17025:2017

**Certificate Number**

TC-7168

**Page No**

2 of 8

**Validity**

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**Last Amended on**

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10	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Milk & dairy Products	Listeria monocytogenes	USFDA BAM Edition 8 : 2001(Chapter 10) RA
11	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Milk & Dairy Products	Salmonella Species	USFDA BAM Edition 8 : 1999 (Chapter 5) RA
12	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Milk & Dairy Products	Staphylococcus aureus	IS 5887 (Part 8) :2002 RA
13	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Milk & Dairy Products	Total Plate Count	USFDA BAM Edition 8 :1998 (Chapter 3) RA
14	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Milk & Dairy Products	Yeast & Mould Count	IS 5403 : 1999 RA
15	BIOLOGICAL- WATER	Bore well, Well Water, Open Well and Treated Water	Aerobic Plate Count	IS 1622 :1981 RA
16	BIOLOGICAL- WATER	Bore well, Well Water, Open Well and Treated Water	Coliform	IS 15185
17	BIOLOGICAL- WATER	Bore well, Well Water, Open Well and Treated Water	Coliform	IS 15185
18	BIOLOGICAL- WATER	Bore well, Well Water, Open Well and Treated Water	E.coli	IS 15185
19	BIOLOGICAL- WATER	Bore well, Well Water, Open Well and Treated Water	E.coli	IS 15185
20	BIOLOGICAL- WATER	Bore well, Well Water, Open Well and Treated Water	Faecal Streptococci	IS 1622 :1981 RA
21	BIOLOGICAL- WATER	Bore well, Well Water, Open Well and Treated Water	Faecal Streptococci	IS 15186
22	BIOLOGICAL- WATER	Bore well, Well Water, Open Well and Treated Water	Salmonella	IS 15187 :
23	BIOLOGICAL- WATER	Bore well, Well Water, Open Well and Treated Water	Thermotolerant coliform	IS 1622 : 1981 RA
24	BIOLOGICAL- WATER	Bore well, Well Water, Open Well and Treated Water	Yeast & Mould count	IS 5403 : 1999 RA
25	BIOLOGICAL- WATER	Packaged Drinking Water	Aerobic microbial count	IS 5402
26	BIOLOGICAL- WATER	Packaged Drinking Water	Coliform	IS 15185 :
27	BIOLOGICAL- WATER	Packaged Drinking Water	E coli	IS 15185 :
28	BIOLOGICAL- WATER	Packaged Drinking Water	Faecal Streptococci	IS 15186
29	BIOLOGICAL- WATER	Packaged drinking Water	Pseudomonas aeruginosa	IS 13428 (Annex D)
30	BIOLOGICAL- WATER	Packaged Drinking Water	Salmonella	IS 15187 : 2002 RA
31	BIOLOGICAL- WATER	Packaged Drinking Water	Staphylococcus aureus	IS 5887 (Part 2) sec 8 RA
32	BIOLOGICAL- WATER	Packaged drinking Water	Sulphite reducing anaerobes	IS 13428 (Annex C)
33	BIOLOGICAL- WATER	Packaged Drinking Water	Yeast & Mould	IS 5403 : 1999 RA



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<b>Certificate Number</b>	TC-7168	<b>Page No</b>	3 of 8
<b>Validity</b>	14/08/2020 to 13/08/2022	<b>Last Amended on</b>	24/08/2020

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34	CHEMICAL- ANIMAL FOOD & FEEDS	Compounded Feed and Feed Ingredients	Aflatoxin B1	AOAC 21st edition, 2003.02 RA
35	CHEMICAL- ANIMAL FOOD & FEEDS	Compounded Feed and Feed Ingredients	Salt as NaCl	IS 7874 (Part 2) :1975 RA
36	CHEMICAL- ANIMAL FOOD & FEEDS	Compounded Feed and Feed Ingredients	Acid Insoluble Ash	IS 7874 (Part 1) :1975 RA
37	CHEMICAL- ANIMAL FOOD & FEEDS	Compounded Feed and Feed Ingredients	Calcium	IS 7874 (Part 2) :1975 RA
38	CHEMICAL- ANIMAL FOOD & FEEDS	Compounded Feed and Feed Ingredients	Crude Fat	AOAC 21st edition , 2003.06
39	CHEMICAL- ANIMAL FOOD & FEEDS	Compounded Feed and Feed Ingredients	Crude Fiber	AOAC 21st edition, 978.10 RA
40	CHEMICAL- ANIMAL FOOD & FEEDS	Compounded Feed and Feed Ingredients	Crude Protein	AOAC 21st edition, 2001.11 RA
41	CHEMICAL- ANIMAL FOOD & FEEDS	Compounded Feed and Feed Ingredients	Moisture	IS 7874 (Part 1) :1975 RA
42	CHEMICAL- ANIMAL FOOD & FEEDS	Compounded Feed and Feed Ingredients	Total Phosphorous	IS 7874 (Part 2) :1975 RA
43	CHEMICAL- ANIMAL FOOD & FEEDS	Compounded Feed and Feed Ingredients	Urea	AOAC 21st edition, 967.07 RA
44	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	CHEESE	Moisture	IS 2785 : 1979 RA
45	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	CHEESE	Total Solids	IS 2785 : 1979 RA
46	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	BUTTER	Curd Content	IS 3507 :1966 RA
47	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	BUTTER	Milk Fat	IS 3507 : 1966 RA
48	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	BUTTER	Moisture	IS 3507 : 1966 RA
49	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	BUTTER	Salt Content	IS 3507 : 1966 RA



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<b>Certificate Number</b>	TC-7168	<b>Page No</b>	4 of 8
<b>Validity</b>	14/08/2020 to 13/08/2022	<b>Last Amended on</b>	24/08/2020

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50	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Cheese	Fat	IS 2785 : 1979 RA
51	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Cheese	Protein	AOAC 21st edition,920.123 RA
52	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Chhena / Paneer	Fat	IS 10484 : 1983 (Appendix B) RA
53	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Curd / Dahi / Yoghurt	Acidity as % Lactic Acid	IS 1166 : 1986 RA
54	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Curd / Dahi / Yoghurt	Milk Fat	AOAC 21st edition, 989.05 RA
55	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Curd / Dahi / Yoghurt	Total Solids	IS 12333 : 1997 RA
56	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	GHEE	Butyro Refractometer Reading	IS 3508 : 1966 RA
57	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	GHEE	Free Fatty Acid Content	IS 3508 : 1966 RA
58	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	GHEE	Moisture	IS 3508 : 1966 RA
59	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	GHEE	Polenske Value	IS 3508 : 1966 RA
60	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	GHEE	Reichert Meissl value	IS 3508 : 1966 RA
61	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	GHEE	Sesame Oil in Ghee - Baudouin Test	IS 3508 : 1966 RA
62	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	ICE CREAM / FROZEN DESSERT	Acidity (Lactic Acid)	IS 2802 : 1964 RA
63	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	ICE CREAM / FROZEN DESSERT	Milk Fat	IS 2802 : 1964 RA



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<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-7168	<b>Page No</b>	5 of 8
<b>Validity</b>	14/08/2020 to 13/08/2022	<b>Last Amended on</b>	24/08/2020

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64	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	ICE CREAM / FROZEN DESSERT	Milk Protein	AOAC 21st edition, 991.20 RA
65	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	ICE CREAM / FROZEN DESSERT	Total Solids	IS 2802 : 1964 RA
66	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	ICE CREAM / FROZEN DESSERT	Weight / Volume of Ice Cream	IS 2802 : 1964 RA
67	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Khoa/Peda	Fat	IS 2785 : 1979 RA
68	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Khoa/Peda	Moisture	IS 10484 : 1983 RA
69	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Khoa/Peda	Total solids	IS 10484 : 1983 RA
70	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Aflatoxin M1 in milk	AOAC 21st edition, 2000.08 RA
71	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Boric Acid	IS 1479 (Part 3) : 1977 RA
72	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 (Sodium Hydroxide, Sodium carbonate, Sodium Bi Carbonate)	IS 1479 (Part 1) : 1960 RA
73	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Fat Estimation of milk	AOAC 21st edition, 989.05 RA
74	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Fat Estimation of Milk	IS 1224 (part 1) : 1977 RA



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**Certificate Number** TC-7168 **Page No** 6 of 8

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75	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Formaldehyde	IS 1479 (Part 1) : 1960 RA
76	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Glucose	DDD.SDL.SOP.134 : rev 01 rev date 01 01
77	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Hydrogen peroxide	IS 1479 (Part 1) : 1960 RA
78	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Maltodextrin	DDD.SDL.SOP.135 : rev 01 rev date 01 01
79	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Protein in milk	AOAC 21st edition,991.20 RA
80	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Starch	IS 1479 (Part 1) : 1960 RA
81	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Sugar	IS 1479 (Part 1) : 1960 RA
82	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Titrateable acidity of milk	IS 1479 (part 1) : 1960 RA
83	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 estimation in milk	IS 1479 (part 2) : 1961 RA



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<b>Certificate Number</b>	TC-7168	<b>Page No</b>	7 of 8
<b>Validity</b>	14/08/2020 to 13/08/2022	<b>Last Amended on</b>	24/08/2020

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84	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Urea	IS 1479 (Part 1) : 1960 RA
85	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	MILK POWDER (Skim Milk Powder, Partially skimmed milk powder, whole milk powder)	Milk Fat	IS 1224 (part 2) : 1977 RA
86	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk Powder (Skim milk powder/ partially skimmed milk powder/whole milk powder)	Acidity (Lactic Acid)	IS 1165 : 2002 RA
87	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk Powder (Skim milk powder/ partially skimmed milk powder/whole milk powder)	Aflatoxin M1	AOAC 21st edition, 2000.08 RA
88	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk Powder (Skim milk powder/ partially skimmed milk powder/whole milk powder)	Insolubility Index	IS 12759 : 1989 RA
89	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk Powder (Skim milk powder/ partially skimmed milk powder/whole milk powder)	Milk Protein	AOAC 21st edition, 991.20 RA
90	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk Powder (Skim milk powder/ partially skimmed milk powder/whole milk powder)	Moisture	AOAC 21st edition, 927.05 RA
91	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk Powder (Skim milk powder/ partially skimmed milk powder/whole milk powder)	Moisture	IS 16072
92	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk Powder (Skim milk powder/ partially skimmed milk powder/whole milk powder)	Total Ash	IS 1165 : 2002 RA
93	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	PANEER / CHANNA	Moisture	IS 10484 : 1983 (Appendix A) RA
94	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	PANEER / CHANNA	Protein	AOAC 21st edition, 991.20 RA33.2.11
95	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	PANEER / CHANNA	Total Solids	IS 10484 : 1983 (Appendix A) RA
96	CHEMICAL- WATER	Drinking water (Bore well water, Raw water)	Chloride (as Cl)	IS 3025 (Part 32) :1988 RA
97	CHEMICAL- WATER	Drinking water (Bore Well Water, Raw Water)	Colour	IS 3025 (Part 4) :1983 RA
98	CHEMICAL- WATER	Drinking Water (Bore well water, raw water)	Copper as Cu	IS 3025 (Part 42) :1992 RA



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<b>Certificate Number</b>	TC-7168	<b>Page No</b>	8 of 8
<b>Validity</b>	14/08/2020 to 13/08/2022	<b>Last Amended on</b>	24/08/2020

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99	CHEMICAL- WATER	Drinking water (Bore well water, raw water)	Fluoride as F	IS 3025 (Part 60) :2003 (clause 5.6.1) RA
100	CHEMICAL- WATER	Drinking water (Bore Well water, raw Water)	Iron as Fe	IS 3025 (Part 53) :2003 RA
101	CHEMICAL- WATER	Drinking Water (Bore Well Water, Raw Water)	Magnesium as Mg	IS 3025 (Part 46) :1994 RA
102	CHEMICAL- WATER	Drinking water (Bore well water, Raw Water)	Manganese as Mn	APHA 23rd edition, 3111B RA
103	CHEMICAL- WATER	Drinking Water (Bore Well Water, Raw Water)	Nitrate as NO <sub>3</sub>	APHA 23rd edition, 4500-NO <sub>3</sub> RA
104	CHEMICAL- WATER	Drinking Water (Bore Well Water, Raw Water)	Sulphate (SO <sub>4</sub> )	IS 3025 (Part 24) : 1986 RA
105	CHEMICAL- WATER	Drinking Water (Bore Well Water, Raw Water)	Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23) : 1986 RA
106	CHEMICAL- WATER	Drinking Water (Bore Well water, Raw Water)	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21) : 1984 RA
107	CHEMICAL- WATER	Drinking water (Bore Well Water, Raw Water)	Turbidity	IS 3025 (Part 10) : 1984 RA
108	CHEMICAL- WATER	Drinking Water (Bore Well, Raw Water)	pH	IS 3025 (Part 11) : 1984 RA
109	CHEMICAL- WATER	Drinking Water (Bore Well, Raw Water)	Total Dissolved Solids	IS 3025 (Part 16) : 1984 RA

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.