



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NATIONAL AGRO FOUNDATION- LABORATORY SERVICES DIVISION, RESEARCH & DEVELOPMENT CENTRE, ANNA UNIVERSITY TARAMANI CAMPUS, CSIR ROAD, TARAMANI, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8349 Page No. : 1 / 28

Validity 15/02/2019 to 14/02/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	CHEMICAL-FERTILIZERS	Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Cake Fertiliser	Chromium (as Cr)	The Fertilizer Control Order, Schedule IV- Part D: 1985	0.1 mg/kg to 2000 mg/kg
2	CHEMICAL-FERTILIZERS	Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Cake Fertiliser	Copper (as Cu)	The Fertilizer Control Order , Schedule IV- Part D: 1985	5 mg/kg to 5000 mg/kg
3	CHEMICAL-FERTILIZERS	Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Cake Fertiliser	Lead (as Pb)	The Fertilizer (Control) Order , Schedule IV- Part D: 1985	5 mg/kg to 2000 mg/kg



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4	CHEMICAL-FERTILIZERS	Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Cake Fertiliser	Nickel (as Ni)	The Fertilizer (Control) Order , Schedule IV- Part D: 1985	1 mg/kg to 2000 mg/kg
5	CHEMICAL-FERTILIZERS	Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Cake Fertiliser	Particle Size	The Fertilizer Control Order, Schedule IV- Part D: 1985	0.1 % to 100 %
6	CHEMICAL-FERTILIZERS	Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Cake Fertiliser	Zinc (as Zn)	The Fertilizer (Control) Order , Schedule IV- Part D: 1985	1 mg/kg to 2000 mg/kg



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7	CHEMICAL-FERTILIZERS	Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Cake Fertiliser,	Bulk Density	The Fertilizer (Control) Order , Schedule IV- Part D: 1985	0.1 g/cc to 2 g/cc
8	CHEMICAL-FERTILIZERS	Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Cake Fertiliser, Panchakavya, Vermiwash	Cadmium (as Cd)	The Fertilizer Control Order , Schedule IV- Part D: 1985	0.1 mg/kg to 2000 mg/kg
9	CHEMICAL-FERTILIZERS	Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Cake Fertiliser, Panchakavya, Vermiwash	Moisture	The Fertilizer Control Order , Schedule IV- Part D: 1985	1 % to 95 %



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
10	CHEMICAL-FERTILIZERS	Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Cake Fertiliser, Vermiwash, Pachakavya	Total Potash as K ₂ O	The Fertilizer Control Order , Schedule IV- Part D: 1985	0.001 % to 25 %
11	CHEMICAL-FERTILIZERS	Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Cake Fertiliser, Vermiwash, Panchakavya	Electrical Conductivity	The Fertilizer Control Order , Schedule IV- Part D: 1985	0.1 μ S/m to 200 μ S/m
12	CHEMICAL-FERTILIZERS	Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Cake Fertiliser, Vermiwash, Panchakavya	pH	The Fertilizer Control Order , Schedule IV- Part D: 1985	2 to 12



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13	CHEMICAL-FERTILIZERS	Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Cake Fertiliser, Vermiwash, Panchakavya	Total Organic Carbon	The Fertilizer (Control Order), Schedule IV-Part D: 1985	0.1 % to 50 %
14	CHEMICAL-FERTILIZERS	Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Cake Fertiliser, Vermiwash, Panchakavya	Total Phosphates (as P2O5)	The Fertilizer Control Order, Schedule IV-Part D: 1985	0.001 % to 25 %
15	CHEMICAL-FERTILIZERS	Organic Fertiliser, Organic Manure, Deoiled Neem Cake, City Compost, Vermicompost, Compost, Vermiwash, Panchakavya	Total Nitrogen	The Fertilizer Control Order, Schedule II-Part B-3 (v): 1985	0.1 % to 20 %
16	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bakery Products	Acid Insoluble ash	Sr.No:7.0 ; IS: 12711: 1989	0.01 % to 5 %



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17	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bakery Products	Alcoholic Acidity	Sr.No:14.0 ; IS: 12711: 1989	0.1 % to 5 %
18	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bakery Products	Carbohydrate	NAF/LM/FTL/TP/035;Is sue on :02 ;Issued on 10.01: 2019	Qualitative(By difference)
19	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bakery Products	Crude Fibre	Sr.No:13.0 ; IS: 12711: 1989	0.1 % to 10 %
20	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bakery Products	Energy Value	NAF/LM/FTL/TP/036;Is sue on :02 ;Issued on 10.01: 2019	Qualitative(By calculation)
21	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bakery Products	Fat	Sr.No:10.0 ; IS: 12711: 1989	0.1 % to 60 %
22	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bakery Products	Moisture	Sr.No:5.0 ; IS: 12711: 1989	0.1 % to 50 %
23	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bakery Products	Protein	FSSAI Manual of Methods of Analysis of Foods – S.No.8.7 Cereal and Cereal Products, 2016 /IS 4684: 1975	0.1 % to 30 %
24	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bakery Products	Total Ash	Sr.No:6.0 ; IS: 12711: 1989	0.1 to 10
25	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bakery Products	Total Solids	Sr.No:8.0 ; IS: 12711: 1989	0.1 to 95



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26	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Cereal and Millet Mixes, Sweets and Savouries, Spice based Products and Mixes	Energy Value	NAF/LM/FTL/TP/036;Is sue no :01 ;Issued on April: 2013	Qualitative(By Calculation)
27	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Cereal and Millet Mixes, Sweets and Savouries, Spice based Products and Mixes	Moisture	FSSAI Manual of Methods of analysis of Foods - S.No 2.0 ;S.No 14.3 Cereal and cereal products 2016 / S.No 3.0 Spices and Condiments 2016 / S.No A.2 Sugar and Sugar Products : 2015	0.1 % to 90 %
28	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Cereal and Millet Mixes,Sweets and Savories, Spice based Products and Mixes	Carbohydrate	NAF/LM/FTL/TP/035;Is sue on :02 ;Issued on 10.01: 2019	Qualitative(By calculation)
29	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Cereal and Millet Mixes,Sweets and Savories, Spice based Products and Mixes	Crude Fibre	IS:10226 Part I-: 2015	0.1 % to 30 %
30	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Cereal and Millet Mixes,Sweets and Savories, Spice based Products and Mixes	Extracted Fat	IS: 4684: 1975	0.1 % to 60 %
31	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Cereal and Millet Mixes,Sweets and Savories, Spice based Products and Mixes	Protein	FSSAI Manual of Methods of Analysis of Foods – S.No.8.7 Cereal and Cereal Products 2016 / IS 4684: 1975	0.1 % to 80 %



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32	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Cereal and Millet Mixes, Sweets and Savories, Spice based Products and Mixes	Total Ash	IS: 1155: 1968	0.1 % to 20 %
33	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Cereal and Millet Mixes, Sweets and Savories, Spice based Products and Mixes	Total Fat	AOAC, Ch-32, 922-06, 19th Edition: 2010	0.1 % to 60 %
34	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible oils	Acid Value	FSSAI Manual of Methods of analysis of Foods S.No. 11.0 Oil and Fats: 2016	0.05 % to 40.0 %
35	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible oils	Iodine Value	FSSAI Manual of Methods of analysis of Foods S.No. 12.0 Oil and Fats: 2016	1 to 200
36	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible oils	Moisture	FSSAI Manual of Methods of analysis of Foods S.No. 3.0 Oil and Fats: 2016	0.01 % to 10 %
37	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible oils	Saponification Value	FSSAI Manual of Methods of analysis of Foods S.No. 9.0 Oil and Fats: 2016	5 to 300
38	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible Oils	Unsaponifiable Matter	FSSAI Manual of Methods of analysis of Foods S.No. 10.0 Oil and Fats: 2016	0.1 % to 10 %



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39	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Food Grains, Cereals, Pulses and (Whole and ground)	Acid Insoluble Ash	FSSAI Manual of Methods of Analysis of Foods - S.No:8.3 Cereal & Cereal Products: 2016	0.05 % to 5 %
40	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Food Grains, Cereals, Pulses and (Whole and ground)	Crude Fibre	IS:10226 Part I: 2015	1 % to 20 %
41	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Food Grains, Cereals, Pulses and (Whole and ground)	Fat	AOAC, Ch-32, 922-06 19th Edition 2012: 2012	1 % to 10 %
42	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Food Grains, Cereals, Pulses and (Whole and ground)	Moisture	FSSAI Manual of Methods of Analysis of Foods - S.No:2.0 Cereal & Cereal Products: 2016	0.5 % to 20 %
43	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Food Grains, Cereals, Pulses and (Whole and ground)	Protein	FSSAI Manual of Methods of Analysis of Foods - S.No:8.7 Cereal & Cereal Products. 2016 IS 4684: 1975	0.1 % to 50 %
44	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Food Grains, Cereals, Pulses and (Whole and ground)	Total Ash	FSSAI Manual of Methods of Analysis of Foods - S.No:8.2 Cereal & Cereal Products: 2016	0.1 % to 10 %



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45	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Honey	Acidity as Formic Acid	FSSAI Manual of Methods of analysis of Foods S.No. 6.8 Beverages Sugar and Sugar Products and Confectionary Products: 2015	0.01 % to 5 %
46	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Honey	Aldose	FSSAI Manual of Methods of analysis of Foods S.No. 6.4 Beverages Sugar and Sugar Products and Confectionary Products: 2015	0.5 % to 60 %
47	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Honey	F/G Ratio	FSSAI Manual of Methods of analysis of Foods S.No. 6.6.1 Beverages Sugar and Sugar Products and Confectionary Products: 2015	Qualitative(By Calculation)
48	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Honey	Fiehe's Test	FSSAI Manual of Methods of analysis of Foods S.No. 6.6.1 Beverages Sugar and Sugar Products and Confectionary Products: 2015	Qualitative(Positive/Negative)



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49	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Honey	Moisture	FSSAI Manual of Methods of analysis of Foods S.No. 6.2.2 Beverages Sugar and Sugar Products and Confectionary Products: 2015	0.1 % to 50 %
50	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Honey	Reducing Sugars	FSSAI Manual of Methods of analysis of Foods S.No. 6.4 Beverages Sugar and Sugar Products and Confectionary Products: 2015	0.5 % to 95 %
51	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Honey	Sucrose	FSSAI Manual of Methods of analysis of Foods S.No. 6.4 Beverages Sugar and Sugar Products and Confectionary Products: 2015	Qualitative(By Calculation)
52	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Honey	Total Ash	FSSAI Manual of Methods of analysis of Foods S.No. 6.7 Beverages Sugar and Sugar Products and Confectionary Products: 2015	0.02 % to 10 %



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53	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Honey	Total Reducing Sugars	FSSAI Manual of Methods of analysis of Foods S.No. 6.4 Beverages Sugar and Sugar Products and Confectionary Products: 2015	0.5 % to 95 %
54	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Jaggery	Acid Insoluble Ash	FSSAI Manual of Methods of analysis of Foods S.No. 9.4 Beverages Sugar and Sugar Products and Confectionary Products: 2015	0.01 % to 5 %
55	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Jaggery	Extraneous matter and water insoluble matter	FSSAI Manual of Methods of analysis of Foods S.No. 9.2 Beverages Sugar and Sugar Products and Confectionary Products: 2015	0.1 % to 10 %
56	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Jaggery	Moisture	FSSAI Manual of Methods of analysis of Foods S.No. 9.1 Beverages Sugar and Sugar Products and Confectionary Products: 2015	0.1 % to 25 %



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57	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Jaggery	Reducing Sugar	FSSAI Manual of Methods of analysis of Foods S.No. 6.4 Beverages Sugar and Sugar Products and Confectionary Products: 2015	0.5 % to 30 %
58	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Jaggery	Sucrose	FSSAI Manual of Methods of analysis of Foods S.No. 6.4 Beverages Sugar and Sugar Products and Confectionary Products: 2015	50 % to 90 %
59	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Jaggery	Sulphated Ash	FSSAI Manual of Methods of analysis of Foods S.No. 10.0 Beverages Sugar and Sugar Products and Confectionary Products: 2015	0.1 % to 20 %
60	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Jaggery	Total Sugars	FSSAI Manual of Methods of analysis of Foods S.No. 6.4 Beverages Sugar and Sugar Products and Confectionary Products: 2015	0.5 % to 95 %
61	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Maida	Acid Insoluble Ash	IS: 1009: 1979	0.01 % to 5 %



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62	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Maida	Alcoholic Acidity	IS: 1009: 1979	0.1 % to 5 %
63	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Maida	Carbohydrate	NAF/LM/FTL/TP/035;Is sue on :02 ;Issued on 10.01: 2019	Qualitative(By difference)
64	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Maida	Crude Fibre	IS: 1155 : 1968	0.1 % to 12 %
65	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Maida	Energy Value	NAF/LM/FTL/TP/036;Is sue on :02 ;Issued on 10.01: 2019	Qualitative(By calculation)
66	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Maida	Moisture	IS: 1009: 1979	0.5 % to 15 %
67	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Maida	Protein	FSSAI Manual of Methods of Analysis of Foods - S.No.8.7 Cereal and Cereal Products 2016 / IS 4684: 1975	0.1 % to 20 %
68	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Maida	Total Ash	IS: 1009: 1979	0.01 % to 5 %
69	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk	Fat	FSSAI Manual of Methods of Analysis of Foods - S.No.1.3.4.2 Milk and Milk Products: 2016	0.1 % to 15 %



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70	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk	Solid Not Fat	FSSAI Manual of Methods of Analysis of Foods - S.No.1.3.3 Milk and Milk Products: 2016	0.1 % to 15 %
71	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk	Total Solids	FSSAI Manual of Methods of Analysis of Foods – S.No.1.3.3 Milk and Milk Products: 2016	0.1 % to 20 %
72	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to cook	Energy Value	NAF/LM/FTL/TP/036;Issued on :02 ;Issued on 10.01: 2019	Qualitative(By calculation)
73	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to cook Foods	Carbohydrate	NAF/LM/FTL/TP/035;Issued on :02 ;Issued on 10.01: 2019	Qualitative(By difference)
74	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to cook Foods	Moisture	FSSAI Manual of Methods of Analysis of Foods-S.No:2.0 Cereal and Cereal Products 2016 / S.No:14.3 Cereal and Cereal Products 2016 / S.No:3.0 Spices and Condiments 2016 S.No:A.2 Sugar and sugar Products: 2015	0.1 % to 90 %



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Laboratory Name NATIONAL AGRO FOUNDATION- LABORATORY SERVICES DIVISION, RESEARCH & DEVELOPMENT CENTRE, ANNA UNIVERSITY TARAMANI CAMPUS, CSIR ROAD, TARAMANI, CHENNAI, TAMIL NADU, INDIA

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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
75	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to cook Foods	Protein	FSSAI Manual of Methods of Analysis of Foods - S.No:8.7 Cereal and cereal Products 2016 / IS 4684: 1975	0.1 % to 80 %
76	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to cook Foods	Total Ash	IS: 1155: 1968	0.1 % to 20 %
77	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to cook Foods	Total Fat	AOAC, Ch-32, 922-06, 19th Edition 2012 / IS 4684: 2010	0.1 % to 60 %
78	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Spices & condiments	Total Ash	Sr.No:6.0 ; IS: 1797: 1985	0.1 % to 10 %
79	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Spices and condiments	Acid Insoluble Ash	Sr.No:8.0 ; IS: 1797: 1985	0.01 % to 10 %
80	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Spices and condiments	Crude Fiber	Sr.No:13.0 ; IS: 1797: 1985	0.1 % to 30 %
81	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Spices and Condiments	Moisture	Sr.No:9.0 ; IS: 1797: 1985	0.1 % to 20 %
82	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Tea	Acid Insoluble Ash	FSSAI; Manual of methods of analysis of Foods – S.No 1.5 Beverages, Sugar and sugar Products & Confectionery Products: 2015	0.05 % to 5 %



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
83	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Tea	Alkalinity of Water Soluble Ash	FSSAI ; Manual of methods of analysis of Foods - S.No 5.7 Beverages, Sugar and sugar Products & Confectionery Products: 2015	0.1 % to 5 %
84	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Tea	Crude Fiber	FSSAI ; Manual of methods of analysis of Foods - S.No 5.8 Beverages, Sugar and sugar Products & Confectionery Products: 2015	0.1 % to 20 %
85	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Tea	Moisture	FSSAI; Manual of methods of analysis of Foods -S.No 1.1 Beverages, Sugar and sugar Products & Confectionery Products: 2015	0.1 % to 10 %
86	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Tea	Total Ash	FSSAI; Manual of methods of analysis of Foods -S.No 1.3 Beverages, Sugar and sugar Products & Confectionery Products: 2015	0.1 % to 10 %



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
87	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Tea	Water Soluble Ash of total ash	FSSAI;Manual of methods of analysis of Foods – S.No 1.4 Beverages, Sugar and sugar Products & Confectionery Products: 2015	0.5 % to 95 %
88	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat Atta	Acid Insoluble Ash	IS 1155: 1968	0.01 % to 5 %
89	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat Atta	Alcoholic Acidity	IS: 1155: 1968	0.01 % to 5 %
90	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat Atta	Carbohydrate	NAF/LM/FTL/TP/035;Is sue on :02 ;Issued on 10.01: 2019	Qualitative(By difference)
91	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat Atta	Crude Fibre	IS: 1155: 1968	0.1 % to 12 %
92	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat Atta	Energy value	NAF/LM/FTL/TP/036;Is sue on :02 ;Issued on 10.01: 2019	20 kcal/100g to 900 kcal/100g
93	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat Atta	Moisture	IS: 1155: 1968	0.5 % to 15 %
94	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat Atta	Protein	FSSAI Manual of Methods of Analysis of Foods - S.No.8.7 Cereal and Cereal Products 2016 / IS 4684: 1975	0.1 % to 20 %



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
95	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Wheat Atta	Total Ash	IS: 1155: 1968	0.01 % to 10 %
96	CHEMICAL- POLLUTION & ENVIRONMENT	Soil (Agriculture/ polluted/ Non polluted)	Available Boron	FAO UN : 2008	0.1 mg/kg to 500 mg/kg
97	CHEMICAL- POLLUTION & ENVIRONMENT	Soil (Agriculture/ polluted/ Non polluted)	Available Copper	FAO : 2008	0.5 mg/kg to 500 mg/kg
98	CHEMICAL- POLLUTION & ENVIRONMENT	Soil (Agriculture/ polluted/ Non polluted)	Available Iron	FAO: 2008	0.5 mg/kg to 500 mg/kg
99	CHEMICAL- POLLUTION & ENVIRONMENT	Soil (Agriculture/ polluted/ Non polluted)	Available Manganese	FAO: 2008	0.5 mg/kg to 500 mg/kg
100	CHEMICAL- POLLUTION & ENVIRONMENT	Soil (Agriculture/ polluted/ Non polluted)	Available Phosphorous	FAO UN - Olsen's Method: 2008	0.1 mg/kg to 600 mg/kg
101	CHEMICAL- POLLUTION & ENVIRONMENT	Soil (Agriculture/ polluted/ Non polluted)	Available Phosphorus	FAO UN - Bray's Method: 2008	0.1 mg/kg to 600 mg/kg
102	CHEMICAL- POLLUTION & ENVIRONMENT	Soil (Agriculture/ polluted/ Non polluted)	Available Sulphur as Sulphate	NAF/LM/STL/TP/001 ;Issue no :02 ;Issued on : 10.01: 2019	0.1 mg/kg to 500 mg/kg
103	CHEMICAL- POLLUTION & ENVIRONMENT	Soil (Agriculture/ polluted/ Non polluted)	Available Zinc	FCO: 2008	0.5 mg/kg to 500 mg/kg
104	CHEMICAL- POLLUTION & ENVIRONMENT	Soil (Agriculture/ polluted/ Non polluted)	Electrical Conductivity	FDCO,: 2009	0.001 mS/cm to 20 mS/cm



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
105	CHEMICAL- POLLUTION & ENVIRONMENT	Soil (Agriculture/ polluted/ Non polluted)	Exchangeable Calcium	FDCO : 2009	1 mg/kg to 10000 mg/kg
106	CHEMICAL- POLLUTION & ENVIRONMENT	Soil (Agriculture/ polluted/ Non polluted)	Exchangeable Magnesium	FDCO : 2009	1 mg/kg to 1000 mg/kg
107	CHEMICAL- POLLUTION & ENVIRONMENT	Soil (Agriculture/ polluted/ Non polluted)	Exchangeable Potassium	FDCO : 2009	1 mg/kg to 1000 mg/kg
108	CHEMICAL- POLLUTION & ENVIRONMENT	Soil (Agriculture/ polluted/ Non polluted)	Nitrate Nitrogen	FAO UN : 2008	0.1 mg/kg to 1000 mg/kg
109	CHEMICAL- POLLUTION & ENVIRONMENT	Soil (Agriculture/ polluted/ Non polluted)	Organic Carbon	FDCO: 2009	0.025 % to 25 %
110	CHEMICAL- POLLUTION & ENVIRONMENT	Soil (Agriculture/ polluted/ Non polluted)	Organic Matter	FDCO: 2009	0.05 % to 50 %
111	CHEMICAL- POLLUTION & ENVIRONMENT	Soil (Agriculture/ polluted/ Non polluted)	pH	FDCO: 2009	2 to 12
112	CHEMICAL- WATER	Bore well water/ Raw water	Copper as Cu	APHA 23rd Edition; 3111 B: 2017	0.01 mg/L to 100 mg/L
113	CHEMICAL- WATER	Bore well water/ Raw Water	Nickel as Ni	APHA 23rd Edition; 3111 B: 2017	0.1 mg/L to 50 mg/L
114	CHEMICAL- WATER	Bore well water/ Raw water	Nitrate as NO3	4500-NO3 B, APHA 23rd Edition : 2012	0.1 mg/L to 100 mg/L
115	CHEMICAL- WATER	Borewell water / Raw Water	Cadmium as Cd	APHA 23rd Edition; 3111 B: 2017	0.1 mg/L to 50.0 mg/L



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
116	CHEMICAL- WATER	Drinking Water / Potable Water/ Water for Food Processing Industry	Bicarbonate as CaCO ₃	IS 3025 (Part 51) : 2001 / IS 3025 (Part-23) : 1986	1 to 1000
117	CHEMICAL- WATER	Drinking Water / Potable Water/ Water for Food Processing Industry	Calcium as Ca	IS 3025 (Part-40 / Sec 6): 1991 / APHA 23rd Edition ; 3111 B : 2017	1 mg/L to 1000 mg/L
118	CHEMICAL- WATER	Drinking Water / Potable Water/ Water for Food Processing Industry	Carbonate as CaCO ₃	IS 3025 (Part 51): 2001 / IS:3025 (Part-23) : 1986	1 mg/L to 100 mg/L
119	CHEMICAL- WATER	Drinking Water / Potable Water/ Water for Food Processing Industry	Chloride as Cl	IS 3025 (Part-32 / Sec 2): 1988 / APHA 23rd Edition;4500-Cl- B: 2017	1 mg/L to 10,000 mg/L
120	CHEMICAL- WATER	Drinking Water / Potable Water/ Water for Food Processing Industry	Copper as Cu	APHA 23rd Edition; 3111 B: 2017	0.01 mg/L to 100 mg/L
121	CHEMICAL- WATER	Drinking Water / Potable Water/ Water for Food Processing Industry	Magnesium as Mg	IS 3025 (Part-46/ Sec 7): 1994 / APHA 23rd Edition; 3111 B : 2017	1 mg/L to 1000 mg/L
122	CHEMICAL- WATER	Drinking Water / Potable Water/ Water for Food Processing Industry	Manganese as Mn	APHA 23rd Edition; 3111 B: 2017	0.01 mg/L to 100 mg/L



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
123	CHEMICAL- WATER	Drinking Water / Potable Water/ Water for Food Processing Industry	Nickel as Ni	APHA 23rd Edition; 3111 B: 2017	0.1 mg/L to 50.0 mg/L
124	CHEMICAL- WATER	Drinking Water / Potable Water/ Water for Food Processing Industry	Nitrate as NO ₃	APHA 23rd Edition;4500-NO3 B: 2017	0.1 to 100
125	CHEMICAL- WATER	Drinking Water / Potable Water/ Water for Food Processing Industry	P-Alkalinity as CaCO ₃	IS 3025 (Part 23):1986 /APHA 23rd Edition; 2320 B: 2017	1 mg/ L to 50 mg/L
126	CHEMICAL- WATER	Drinking Water / Potable Water/ Water for Food Processing Industry	pH	IS 3025 (Part-11): 983 / APHA 23rd Edition;4500-H+ B: 2017	2 to 12
127	CHEMICAL- WATER	Drinking Water / Potable Water/ Water for Food Processing Industry	Potassium as K	APHA 23rd Edition; 3111 B: 2017	1 mg/L to 1000 mg/L
128	CHEMICAL- WATER	Drinking Water / Potable Water/ Water for Food Processing Industry	Sodium as Na	APHA 23rd Edition; 3111 B: 2017	1 mg/L to 400 mg/L
129	CHEMICAL- WATER	Drinking Water / Potable Water/ Water for Food Processing Industry	Sulphate as SO ₄	IS 3025 (Part-24 / Sec 4) 1986 / APHA 23rd Edition; 4500-SO ₄ : 2017	1 mg/L to 1000 mg/L



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
130	CHEMICAL- WATER	Drinking Water / Potable Water/ Water for Food Processing Industry	Total Alkalinity as CaCO ₃	IS 3025 (Part-23):1986 / APHA 23rd Edition; 2320 B: 2017	1 mg/L to 1000 mg/L
131	CHEMICAL- WATER	Drinking Water / Potable Water/ Water for Food Processing Industry	Total Dissolved Solids at 105 degree C	IS 3025 (Part-16) : 1984	10 mg/L to 20,000 mg/L
132	CHEMICAL- WATER	Drinking Water / Potable Water/ Water for Food Processing Industry	Zinc as Zn	APHA 23rd Edition; 3111 B: 2017	0.1 mg/L to 100 mg/L
133	CHEMICAL- WATER	Drinking Water/ Potable Water/ Water for Food Processing Industry	Electrical Conductivity at 25 degree C	IS 3025 (Part-14):1984 / APHA 23rd Edition; 2510 B: 2017	0.01 ms/cm to 20 ms/cm
134	CHEMICAL- WATER	Drinking Water/Potable Water/Raw Water/ Borewell Water	Iron	APHA 23rd Edition;3111 B: 2017	0.1 mg/l to 100 mg/l
135	CHEMICAL- WATER	Drinking Water/Potable Water/Raw Water/ Borewell Water	Lead	APHA 23rd Edition ; 3111 B: 2017	0.1 mg/l to 100 mg/l
136	CHEMICAL- WATER	Irrigation Water	Bicarbonate as CaCO ₃	IS 3025 (Part 51) : 2001 / IS 3025 (Part-23) : 1986	1 mg/L to 1000 mg/L
137	CHEMICAL- WATER	Irrigation water	Cadmium as Cd	APHA 23rd Edition; 3111 B: 2017	0.1 mg/L to 50.0 mg/L
138	CHEMICAL- WATER	Irrigation Water	Calcium as Ca	IS 3025 (Part-40 / Sec 6): 1991 / APHA 23rd Edition; 3111 B : 2017	1 mg/L to 1000 mg/L



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
139	CHEMICAL- WATER	Irrigation Water	Carbonate as CaCO ₃	IS 3025 (Part 51) : 2001 / IS 3025 (Part-23) : 1986	0.01 mg/L to 1000 mg/L
140	CHEMICAL- WATER	Irrigation Water	Chloride as Cl	IS 3025 (Part-32 / Sec 2): 1988 / APHA 23rd Edition;4500-Cl- B: 2017	1 mg/L to 10,000
141	CHEMICAL- WATER	Irrigation Water	Copper as Cu	IS 3025 (Part-42 / Sec 6) : 1992 / APHA 23rd Edition; 3111 B : 2017	0.01 mg/L to 100 mg/L
142	CHEMICAL- WATER	Irrigation Water	Electrical Conductivity at 25 degree C	IS 3025 (Part-14):1984 / APHA 23rd Edition; 2510 B : 2017	0.01 ms/cm to 20 ms/cm
143	CHEMICAL- WATER	Irrigation Water	Iron as Fe	APHA 23rd Edition;3111 B : 2017	0.1 mg/L to 100 mg/L
144	CHEMICAL- WATER	Irrigation water	Lead	APHA 23rd Edition; 3111 B: 2017	0.1 mg/l to 100 mg/l
145	CHEMICAL- WATER	Irrigation Water	Magnesium as Mg	IS 3025 (Part-46/ Sec 7): 1994 / APHA 23rd Edition; 3111 B: 2017	1 mg/L to 1000 mg/L
146	CHEMICAL- WATER	Irrigation water	Manganese as Mn	APHA 23rd Edition; 3111 B: 2017	0.01 mg/L to 100 mg/L
147	CHEMICAL- WATER	Irrigation water	Nickel as Ni	APHA 23rd Edition; 3111 B: 2017	1 mg/L to 4000 mg/L
148	CHEMICAL- WATER	Irrigation water	Nitrate	APHA 23rd Edition; 4500-NO ₃ B: 2017	0.1 mg/l to 100 mg/l
149	CHEMICAL- WATER	Irrigation Water	pH at 25 degree C	IS 3025 (Part-11):1983 /APHA 23rd Edition;4500-H+ B: 2017	2 to 12



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
150	CHEMICAL- WATER	Irrigation Water	Potassium as K	APHA 23rd Edition; 3111 B: 2017	1 mg/L to 1000 mg/L
151	CHEMICAL- WATER	Irrigation Water	Residual Sodium Carbonate	IS 11624 : 1986	Qualitative(not applicable)
152	CHEMICAL- WATER	Irrigation Water	Sodium Adsorption Ratio	IS 11624: 1986	Qualitative(not applicable)
153	CHEMICAL- WATER	Irrigation water	Sodium as Na	APHA 23rd Edition; 3111 B: 2017	1 mg/L to 400 mg/L
154	CHEMICAL- WATER	Irrigation Water	Sulphate as SO ₄	IS 3025 (Part-24 / Sec 4): 1986 / APHA 23rd Edition;4500-SO ₄ : 2017	1 mg/L to 1000 mg/L
155	CHEMICAL- WATER	Irrigation Water	Total Alkalinity as CaCO ₃	IS 3025 (Part-23):1986 / APHA 23rd Edition; 2320 B: 2017	1 mg/L to 1000 mg/L
156	CHEMICAL- WATER	Irrigation Water	Total Dissolved Solids at 105 degree C	IS 3025 (Part-16) : 1984	10 mg/L to 20,000 mg/L
157	CHEMICAL- WATER	Irrigation Water	Zinc as Zn	APHA 23rd Edition;3111 B: 2017	0.1 mg/L to 100 mg/L
158	CHEMICAL- WATER	Raw water / Bore well water	Zinc as Zn	APHA 23rd Edition; 3111 B: 2017	0.1 mg/L to 100 mg/L
159	CHEMICAL- WATER	Raw water / Borewell water	pH at 25 degree C	IS 3025 (Part-11): 1983 / APHA 23rd Edition; 4500-H+ B: 2017	2 to 12
160	CHEMICAL- WATER	Raw water /Bore well Water	Cadmium as Cd	APHA 23rd Edition; 3111 B: 2017	0.1 mg/L to 50.0 mg/L
161	CHEMICAL- WATER	Raw Water/ Bore well Water	Bicarbonate as CaCO ₃	IS 3025 (Part 51) : 2001 / IS 3025 (Part-23) : 1986	0.1 mg/L to 1000 mg/L



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
162	CHEMICAL- WATER	Raw water/ Bore well water	Calcium as Ca	IS 3025 (Part-40 / Sec 6): 1991 / APHA 23rd Edition; 3111 B: 2017	1 mg/L to 1000 mg/L
163	CHEMICAL- WATER	Raw Water/ Bore well water	Carbonate as CaCO ₃	IS 3025 (Part 51) : 2001 / IS 3025 (Part-23) : 1986	1 mg/L to 100 mg/L
164	CHEMICAL- WATER	Raw water/ Bore well water	Chloride as Cl	IS 3025 (Part-32 / Sec 2): 1988 / APHA 23rd Edition ;4500-Cl- B: 2017	1 mg/L to 10,000 mg/L
165	CHEMICAL- WATER	Raw Water/ Bore well water	Electrical Conductivity at 25 degree C	IS 3025 (Part-14) : 1984 / APHA 23rd Edition; 2510 B: 2017	1 mS/cm to 20 mS/cm
166	CHEMICAL- WATER	Raw water/ Bore well water	Iron as Fe	APHA 23rd Edition; 3111 B: 2017	0.1 mg/L to 100 mg/L
167	CHEMICAL- WATER	Raw Water/ Bore Well Water	Lead	APHA 23rd Edition; 3111 B : 2017	0.1 mg/l to 100 mg/l
168	CHEMICAL- WATER	Raw water/ Bore well water	Magnesium as Mg	IS 3025 (Part-46/ Sec 7): 1994 / APHA 23rd Edition; 3111 B: 2017	1 mg/L to 1000 mg/L
169	CHEMICAL- WATER	Raw water/ Bore well water	Manganese as Mn	APHA 23rd Edition; 3111 B: 2017	0.01 mg/L to 100 mg/L
170	CHEMICAL- WATER	Raw water/ Bore well water	Potassium as K	APHA 23rd Edition; 3111 B: 2017	1 mg/L to 1000 mg/L
171	CHEMICAL- WATER	Raw Water/ Bore well Water	Sodium as Na	APHA 23rd Edition; 3111 B: 2017	1 mg/L to 400 mg/L
172	CHEMICAL- WATER	Raw water/ Bore well water	Total Alkalinity as CaCO ₃	IS 3025 (Part-23) 1986 / APHA 23rd Edition; 2320 B: 2017	1 mg/L to 1000 mg/L



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173	CHEMICAL- WATER	Raw water/ Bore well Water	Total Dissolved Solids	IS 3025 (Part-16) : 1984 / APHA 23rd Edition; 2540 C: 2017	10 mg/L to 20,000 mg/L
174	CHEMICAL- WATER	Raw water/ Borewell water	Sulphate as SO ₄	IS 3025 (Part-24 / Sec 4): 1986 / APHA 23rd Edition; 4500-SO ₄ : 2017	1 mg/L to 1000 mg/L
175	CHEMICAL- WATER	Swimming Pool Water	Bicarbonate as CaCO ₃	IS 3025 (Part 51) : 2001 / IS 3025 (Part-23) : 1986	1 mg/L to 1000 mg/L
176	CHEMICAL- WATER	Swimming Pool Water	Cadmium as Cd	APHA 23rd Edition; 3111 B: 2017	0.1 mg/L to 50.0 mg/L
177	CHEMICAL- WATER	Swimming Pool Water	Calcium as Ca	IS 3025 (Part-40 / Sec 6): 1991 / APHA 23rd Edition; 3111 B: 2017	1 mg/L to 1000 mg/L
178	CHEMICAL- WATER	Swimming Pool Water	Carbonate as CaCO ₃	IS 3025 (Part 51) : 2001 / IS 3025 (Part-23) : 1986	1 mg/L to 100 mg/L
179	CHEMICAL- WATER	Swimming Pool Water	Chloride as Cl	IS 3025 (Part-32 / Sec 2): 1988 / APHA 23rd Edition; 4500-Cl- B: 2017	1 mg/L to 10,000 mg/L
180	CHEMICAL- WATER	Swimming Pool Water	Copper as Cu	3111B, APHA 22nd Edition: 2012	0.01 mg/L to 100 mg/L
181	CHEMICAL- WATER	Swimming Pool Water	Electrical Conductivity at 25 degree C	IS 3025 (Part-14):1984 / APHA 23rd Edition; 2510 B: 2017	1 ms/cm to 20 ms/cm
182	CHEMICAL- WATER	Swimming Pool Water	Iron as Fe	3111 B APHA 22nd Edition: 2012	0.1 mg/L to 100 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NATIONAL AGRO FOUNDATION- LABORATORY SERVICES DIVISION, RESEARCH & DEVELOPMENT CENTRE, ANNA UNIVERSITY TARAMANI CAMPUS, CSIR ROAD, TARAMANI, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 15/02/2019 to 14/02/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
183	CHEMICAL- WATER	Swimming Pool Water	Lead	APHA 23rd Edition; 3111 B: 2017	0.1 mg/l to 100 mg/l
184	CHEMICAL- WATER	Swimming Pool Water	Manganese as Mn	APHA 23rd Edition; 3111 B: 2017	0.01 mg/L to 100 mg/L
185	CHEMICAL- WATER	Swimming Pool Water	Nickel as Ni	APHA 23rd Edition; 3111 B: 2017	0.1 mg/L to 50.0 mg/L
186	CHEMICAL- WATER	Swimming Pool Water	Nitrate as NO ₃	APHA 23rd Edition ;4500-NO ₃ B: 2017	0.1 mg/l to 100 mg/l
187	CHEMICAL- WATER	Swimming Pool water	pH at 25 degree C	IS 3025 (Part-11):1983 /APHA 23rd Edition; 4500-H+ B: 2017	2 to 12
188	CHEMICAL- WATER	Swimming Pool Water	Potassium as K	APHA 23rd Edition; 3111 B: 2017	1 mg/L to 100 mg/L
189	CHEMICAL- WATER	Swimming Pool Water	Sodium as Na	APHA 23rd Edition; 3111 B: 2017	1 mg/L to 400 mg/L
190	CHEMICAL- WATER	Swimming Pool Water	Sulphate as SO ₄	IS 3025 (Part-24 / Sec 4):1986 / APHA 23rd Edition; 4500-SO ₄ : 2017	1 mg/L to 1000 mg/L
191	CHEMICAL- WATER	Swimming Pool Water	Total Alkalinity as CaCO ₃	IS 3025 (Part 23):1986 / APHA 23rd Edition; 2320 B: 2017	1 mg/L to 1000 mg/L
192	CHEMICAL- WATER	Swimming Pool Water	Total Dissolved Solids at 105 degree C	IS 3025 (Part-16): 1984	10 mg/L to 20,000 mg/L
193	CHEMICAL- WATER	Swimming Pool Water	Zinc as Zn	APHA 23rd Edition; 3111 B: 2017	0.1 mg/L to 100 mg/L
194	CHEMICAL- WATER	Swimming Pool Water	Nitrate as NO ₃	APHA 23rd Edition;4500-NO ₃ B: 2017	0.1 mg/l to 100 mg/l