National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : DES FERGUSSON TESTING LABORATORY, KURRAKALVA (V), PAPANAIDUPETA (POST), RENIGUNTA, CHITTOOR, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 30/08/2021 to 29/08/2023 **Last Amended on** 06/09/2021

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	Bakery products (Biscuits, Bread, Cakes, Cookies, Puffs, Pastries, Sweets) Ready to eat and cooked food (Chat, Chips, Noodles, Condiments) Pulses and Cereal products (Rice, Wheat, Soybean, Bajra, Jowar, Groundnuts, peanuts, Oats, Dry fruits)	Acid insoluble ash	IS 7874 (Part 1)
2	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bakery products (Biscuits, Bread, Cakes, Cookies, Puffs, Pastries, Sweets) Ready to eat and cooked food (Chat, Chips, Noodles, Condiments) Pulses and Cereal products (Rice, Wheat, Soybean, Bajra, Jowar, Groundnuts, peanuts, Oats, Dry fruits)	Ash	IS 7874 (Part 1)
3	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bakery products (Biscuits, Bread, Cakes, Cookies, Puffs, Pastries, Sweets) Ready to eat and cooked food (Chat, Chips, Noodles, Condiments) Pulses and Cereal products (Rice, Wheat, Soybean, Bajra, Jowar, Groundnuts, peanuts, Oats, Dry fruits)	Crude fiber	IS 7874 (Part 1)
4	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bakery products (Biscuits, Bread, Cakes, Cookies, Puffs, Pastries, Sweets) Ready to eat and cooked food (Chat, Chips, Noodles, Condiments) Pulses and Cereal products (Rice, Wheat, Soybean, Bajra, Jowar, Groundnuts, peanuts, Oats, Dry fruits)	Moisture	IS 1155 Appendix-A
5	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bakery products (Biscuits, Bread, Cakes, Cookies, Puffs, Pastries, Sweets) Ready to eat and cooked food (Chat, Chips, Noodles, Condiments) Pulses and Cereal products (Rice, Wheat, Soybean, Bajra, Jowar, Groundnuts, peanuts, Oats, Dry fruits)	Carbohydrates	IS 1656 (Annex- C)
6	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bakery products (Biscuits, Bread, Cakes, Cookies, Puffs, Pastries, Sweets) Ready to eat and cooked food (Chat, Chips, Noodles, Condiments) Pulses and Cereal products (Rice, Wheat, Soybean, Bajra, Jowar, Groundnuts, peanuts, Oats, Dry fruits)	Energy	SOP No. 45 Issue No. 01 September 2018
7	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bakery products (Biscuits, Bread, Cakes, Cookies, Puffs, Pastries, Sweets) Ready to eat and cooked food (Chat, Chips, Noodles, Condiments) Pulses and Cereal products (Rice, Wheat, Soybean, Bajra, Jowar, Groundnuts, peanuts, Oats, Dry fruits)	Fats	IS 7874 (Part 1)
8	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bakery products (Biscuits, Bread, Cakes, Cookies, Puffs, Pastries, Sweets) Ready to eat and cooked food (Chat, Chips, Noodles, Condiments) Pulses and Cereal products (Rice, Wheat, Soybean, Bajra, Jowar, Groundnuts, peanuts, Oats, Dry fruits)	Proteins	IS 7219
9	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Mangoes, Tomatoes, Grapes, banana, Oranges, Guava, Papaya, All fruit juices, jams, jellies	Acidity	IS 13844

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10	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Mangoes, Tomatoes, Grapes, banana, Oranges, Guava, Papaya, All fruit juices, jams, jellies	Water Insoluble Solids	IS 13845
11	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk & Milk products, curd & curd products like butter milk, condensed milk, milk shakes, Cheese, paneer, Cream. Juices, mango pulp, Sauces, ketchups, pickles, Gulab jamun, Rasagullas, Frozen fruits	Acidity	IS 2860
12	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk & Milk products, curd & curd products like butter milk, condensed milk, milk shakes, Cheese, paneer, Cream. Juices, mango pulp, Sauces, ketchups, pickles, Gulab jamun, Rasagullas, Frozen fruits	Drained weight	IS 2860
13	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk & Milk products, curd & curd products like butter milk, condensed milk, milk shakes, Cheese, paneer, Cream. Juices, mango pulp, Sauces, ketchups, pickles, Gulab jamun, Rasagullas, Frozen fruits	Headspace	IS 2860
14	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk & Milk products, curd & curd products like butter milk, condensed milk, milk shakes, Cheese, paneer, Cream. Juices, mango pulp, Sauces, ketchups, pickles, Gulab jamun, Rasagullas, Frozen fruits	pH of cut out syrup	IS 2860
15	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Milk & Milk products, curd & curd products like butter milk, condensed milk, milk shakes, Cheese, paneer, Cream. Juices, mango pulp, Sauces, ketchups, pickles, Gulab jamun, Rasagullas, Frozen fruits	Specific gravity	IS 2860
16	CHEMICAL- WATER	Construction Water	Chlorides (as Cl)	IS 3025 (Part 32)
17	CHEMICAL- WATER	Construction Water	m-Alkalinity (as CaCO3) Indicator method	IS 3025 (Part 23)
18	CHEMICAL- WATER	Construction Water	m-Alkalinity (as CaCO3) Potentiometric method	IS 3025 (Part 23)
19	CHEMICAL- WATER	Construction Water	p-Alkalinity (as CaCO3) Potentiometric method	IS 3025 (Part 23)
20	CHEMICAL- WATER	Construction Water	p-Alkalinity (as CaCO3) Indicator method	IS 3025 (Part 23)
21	CHEMICAL- WATER	Construction Water	pH	IS 3025 (Part 11)
22	CHEMICAL- WATER	Construction Water	Sulphates (as SO4)	IS 3025 (Part 24)
23	CHEMICAL- WATER	Construction Water	Sulphates (as SO4)	IS 3025 (Part 24)
24	CHEMICAL- WATER	Construction Water	Total solids	IS 3025 (Part 16)
25	CHEMICAL- WATER	Construction Water	Total Dissolved Solids	IS 3025 (Part 16)
26	CHEMICAL- WATER	Construction Water	Total Suspended solids	IS 3025 (Part 17)
27	CHEMICAL- WATER	Drinking water, Packaged water	Calcium (as Ca)	IS 3025 (Part 40)

SCOPE OF ACCREDITATION

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28	CHEMICAL- WATER	Drinking water, Packaged water	Chlorides (as Cl)	IS 3025 (Part 32)
29	CHEMICAL- WATER	Drinking water, Packaged water	Colour	IS 3025 (Part 4)
30	CHEMICAL- WATER	Drinking water, Packaged water	Conductivity	IS 3025 (Part 14)
31	CHEMICAL- WATER	Drinking water, Packaged water	Fluorides	IS 3025 (Part 60)
32	CHEMICAL- WATER	Drinking water, Packaged water	Magnesium (as Mg)	IS 3025 (Part 46)
33	CHEMICAL- WATER	Drinking water, Packaged water	m-Alkalinity (as CaCO3) Indicator method	IS 3025 (Part 23)
34	CHEMICAL- WATER	Drinking water, Packaged water	m-Alkalinity (as CaCO3) Potentiometric method	IS 3025 (Part 23)
35	CHEMICAL- WATER	Drinking water, Packaged water	Nitrates (as NO3-N)	IS 3025 (Part 34)
36	CHEMICAL- WATER	Drinking water, Packaged water	Odour	IS 3025 (Part 5)
37	CHEMICAL- WATER	Drinking water, Packaged water	p-Alkalinity (as CaCO3) Potentiometric method	IS 3025 (Part 23)
38	CHEMICAL- WATER	Drinking water, Packaged water	p-Alkalinity (as CaCO3) Indicator method	IS 3025 (Part 23)
39	CHEMICAL- WATER	Drinking water, Packaged water	pH	IS 3025 (Part 11)
40	CHEMICAL- WATER	Drinking water, Packaged water	Sulphates as (SO4)	IS 3025 (Part 24)
41	CHEMICAL- WATER	Drinking water, Packaged water	Suspended solids	IS 3025 (Part 17)
42	CHEMICAL- WATER	Drinking water, Packaged water	Total solids	IS 3025 (Part 16)
43	CHEMICAL- WATER	Drinking water, Packaged water	Total Dissolved solids	IS 3025 (Part 16)
44	CHEMICAL- WATER	Drinking water, Packaged water	Total Hardness (as CaCO3)	IS 3025 (Part 21)
45	CHEMICAL- WATER	Drinking water, Packaged water	Turbidity	IS 3025 (Part 10)
46	CHEMICAL- WATER	Surface Water, Ground Water, Irrigation Water	BOD @ 27°C, 3 days	IS 3025 (Part 44)
47	CHEMICAL- WATER	Surface Water, Ground Water, Irrigation Water	Calcium (as Ca)	IS 3025 (Part 40)
48	CHEMICAL- WATER	Surface Water, Ground Water, Irrigation Water	Chlorides (as Cl)	IS 3025 (Part 32)
49	CHEMICAL- WATER	Surface Water, Ground Water, Irrigation Water	COD	IS 3025 (Part 58)
50	CHEMICAL- WATER	Surface Water, Ground Water, Irrigation Water	COD	IS 3025 (Part 58)
51	CHEMICAL- WATER	Surface Water, Ground Water, Irrigation Water	Conductivity	IS 3025 (Part 14)
52	CHEMICAL- WATER	Surface Water, Ground Water, Irrigation Water	Fluorides	IS 3025 (Part 60)
53	CHEMICAL- WATER	Surface Water, Ground Water, Irrigation Water	Magnesium (as Mg)	IS 3025 (Part 46)
54	CHEMICAL- WATER	Surface Water, Ground Water, Irrigation Water	m-Alkalinity (as CaCO3) Indicator Method	IS 3025 (Part 23)

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55	CHEMICAL- WATER	Surface Water, Ground Water, Irrigation Water	m-Alkalinity (as CaCO3) Potentiometric Method	IS 3025 (Part 23)
56	CHEMICAL- WATER	Surface Water, Ground Water, Irrigation Water	Nitrates (as NO3-N)	IS 3025 (Part 34)
57	CHEMICAL- WATER	Surface Water, Ground Water, Irrigation Water	Odour	IS 3025 (Part 5)
58	CHEMICAL- WATER	Surface Water, Ground Water, Irrigation Water	p-Alkalinity (as CaCO3) Potentiometric Method	IS 3025 (Part 23)
59	CHEMICAL- WATER	Surface Water, Ground Water, Irrigation Water	p-Alkalinity(as CaCO3) Indicator Method	IS 3025 (Part 23)
60	CHEMICAL- WATER	Surface Water, Ground Water, Irrigation Water	pH	IS 3025 (Part 11)
61	CHEMICAL- WATER	Surface Water, Ground Water, Irrigation Water	Sulphates (as SO4)	IS 3025 (Part 24)
62	CHEMICAL- WATER	Surface Water, Ground Water, Irrigation Water	Sulphates (as SO4)	IS 3025 (Part 24)
63	CHEMICAL- WATER	Surface Water, Ground Water, Irrigation Water	Total Dissolved Solids	IS 3025 (Part 16)
64	CHEMICAL- WATER	Surface Water, Ground Water, Irrigation Water	Total Hardness(as CaCO3)	IS 3025 (Part 21)
65	CHEMICAL- WATER	Surface Water, Ground Water, Irrigation Water	Total Solids	IS 3025 (Part 16)
66	CHEMICAL- WATER	Surface Water, Ground Water, Irrigation Water	Total Suspended Solids	IS 3025 (Part 17)
67	CHEMICAL- WATER	Surface Water, Ground Water, Irrigation Water	Turbidity	IS 3025 (Part 10)
68	CHEMICAL- WATER	Surface Water,Ground water,Irrigation Water	Colour	IS 3025 (Part 4)
69	CHEMICAL- WATER	Swimming Pool Water	Chlorides (as Cl)	IS 3025 (Part 32)
70	CHEMICAL- WATER	Swimming Pool Water	Colour	IS 3025 (PART 4)
71	CHEMICAL- WATER	Swimming Pool Water	m-Alkalinity (as CaCO3) Indicator method	IS 3025 (Part 23)
72	CHEMICAL- WATER	Swimming Pool Water	m-Alkalinity (as CaCO3) Potentiometric method	IS 3025 (Part 23)
73	CHEMICAL- WATER	Swimming Pool Water	Odour	IS 3025 (Part 5)
74	CHEMICAL- WATER	Swimming Pool Water	p-Alkalinity (as CaCO3) Indicator method	IS 3025 (Part 23)
75	CHEMICAL- WATER	Swimming Pool Water	p-Alkalinity (as CaCO3) Potentiometric method	IS 3025 (Part 23)
76	CHEMICAL- WATER	Swimming Pool Water	pH	IS 3025 (Part 11)
77	CHEMICAL- WATER	Swimming Pool Water	Suspended solids	IS 3025 (Part 17)
78	CHEMICAL- WATER	Swimming Pool Water	Total solids	IS 3025 (Part 16)
79	CHEMICAL- WATER	Swimming Pool Water	Total Dissolved solids	IS 3025 (Part 16)
80	CHEMICAL- WATER	Swimming Pool Water	Turbidity	IS 3025 (Part 10)

SCOPE OF ACCREDITATION

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81	CHEMICAL- WATER	Water from Purifier	p-Alkalinity (as CaCO3) Potentiometric method	IS 3025 (Part 23)
82	CHEMICAL- WATER	Water from Purifier	m-Alkalinity (as CaCO3) Potentiometric method	IS 3025 (Part 23)
83	CHEMICAL- WATER	Water from Purifier	Nitrates(as NO3-N)	IS 3025 (Part 34)
84	CHEMICAL- WATER	Water from Purifiers	Calcium (as Ca)	IS 3025 (Part 40)
85	CHEMICAL- WATER	Water from Purifiers	Chlorides (as Cl)	IS 3025 (Part 32)
86	CHEMICAL- WATER	Water from Purifiers	Colour	IS 3025 (Part 4)
87	CHEMICAL- WATER	Water from Purifiers	Conductivity	IS 3025 (Part 14)
88	CHEMICAL- WATER	Water from Purifiers	Fluorides	IS 3025 (Part 60)
89	CHEMICAL- WATER	Water from Purifiers	Magnesium (as Mg)	IS 3025 (Part 46)
90	CHEMICAL- WATER	Water from Purifiers	m-Alkalinity (as CaCO3) Indicator method	IS 3025 (Part 23)
91	CHEMICAL- WATER	Water from Purifiers	Odour	IS 3025 (Part 5)
92	CHEMICAL- WATER	Water from Purifiers	p-Alkalinity (as CaCO3) Indicator method	IS 3025 (Part 23)
93	CHEMICAL- WATER	Water from Purifiers	pH	IS 3025 (Part 11)
94	CHEMICAL- WATER	Water from Purifiers	Sulphates as (SO4)	IS 3025 (Part 24)
95	CHEMICAL- WATER	Water from Purifiers	Suspended solids	IS 3025 (Part 17)
96	CHEMICAL- WATER	Water from Purifiers	Total solids	IS 3025 (Part 16)
97	CHEMICAL- WATER	Water from Purifiers	Total Dissolved solids	IS 3025 (Part 16)
98	CHEMICAL- WATER	Water from Purifiers	Total Hardness (as CaCO3)	IS 3025 (Part 21)
99	CHEMICAL- WATER	Water from Purifiers	Turbidity	IS 3025 (Part 10)