National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : FOOD SAFETY & QUALITY CONTROL LABORATORY WESTERN REGION, THE AKSHAYA PATRA FOUNDATION, HARE KRISHNA MANDIR CAMPUS, VILLAGE-SANTEJ, TALUKA-KALOL, GANDHINAGAR, GUJARAT, INDIA

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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, Besan including fortified atta	Acid insoluble Ash in dilute HCL	IS 1155, Appendix C
2	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Whole & Ground Spices and Mix Masalas	Crude Fibre	IS 1797: Cl-13
3	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	All the items (Raw material, Semi-finished prodcuts, Finish products)	Protein (Kjeldahl method)	IS 7219
4	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Atta, Maida, Suji, Besan including fortified atta	Alcoholic acidity expressed as H2SO4	IS 1155, Appendix F
5	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Atta, Maida, Suji, Besan including fortified atta	Crude Fibre	IS 1155, Appendix E
6	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Atta, Maida, Suji, Besan including fortified atta	Gluten	IS 1155, Appendix D
7	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Atta, Maida, Suji, Besan including fortified atta	Moisture	IS 1155, Appendix A
8	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Atta, Maida, Suji, Besan including fortified atta	Total Ash	IS 1155, Appendix B
9	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bura Sugar, Gur, Crystalline Sugar	Invert Sugar	FSSAI Manual on Fruits & Vegetables
10	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bura, Gur, Crystalling Sugar, Refine Sugar	Sucrose	FSSAI Manual - Fruits & Vegetable
11	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Curry Powder, Mixed Masala powder	Salt as NaCl	IS 1797 Cl-16
12	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Double Fortified Salt	Iodine	IS 16232 ANNX B
13	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Double Fortified Salt	Iron	Annex A of IS 16232

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14	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible Oils (Coconut oil, Cotton Seed Oil, Groundnut Oil, Linseed Oil, Mahua Oil, Rape seed/Mustard/Sarson Oil, Poppy seed oil, Safflower oil, Til oil, Soyabean oil, Corn oil, Refined veg oil etc) & Blended oils	Acid Value	IS 548 (Part I/Sec 2), Cl-8
15	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible Oils (Coconut oil, Cotton Seed Oil, Groundnut Oil, Linseed Oil, Mahua Oil, Rape seed/Mustard/Sarson Oil, Poppy seed oil, Safflower oil, Til oil, Soyabean oil, Corn oil, Refined veg oil etc) & Blended oils	Butyro-refractometer reading at 40 Deg C	FSQCL/SOP/36
16	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible Oils (Coconut oil, Cotton Seed Oil, Groundnut Oil, Linseed Oil, Mahua Oil, Rape seed/Mustard/Sarson Oil, Poppy seed oil, Safflower oil, Til oil, Soyabean oil, Corn oil, Refined veg oil etc) & Blended oils	Refractive index at 40 Deg C	FSQCL/SOP/29
17	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible Oils (Coconut oil, Cotton Seed Oil, Groundnut Oil, Linseed Oil, Mahua Oil, Rape seed/Mustard/Sarson Oil, Poppy seed oil, Safflower oil, Til oil, Soyabean oil, Corn oil, Refined veg oil etc) & Blended oils	Free Fatty Acid (FFA) as Oleic acid	IS 548 (Part I/Sec 2), Cl-8
18	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible Oils (Coconut oil, Cotton Seed Oil, Groundnut Oil, Linseed Oil, Mahua Oil, Rape seed/Mustard/Sarson Oil, Poppy seed oil, Safflower oil, Til oil, Soyabean oil, Corn oil, Refined veg oil etc) & Blended oils	Iodine Value (Wij's method)	S 548 (Part I/Sec 2), Cl-15
19	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible Oils (Coconut oil, Cotton Seed Oil, Groundnut Oil, Linseed Oil, Mahua Oil, Rape seed/Mustard/Sarson Oil, Poppy seed oil, Safflower oil, Til oil, Soyabean oil, Corn oil, Refined veg oil etc) & Blended oils	Moisture	IS 548 (PART-1/SEC-2) Cl-6.1 Air Oven Method
20	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible Oils (Coconut oil, Cotton Seed Oil, Groundnut Oil, Linseed Oil, Mahua Oil, Rape seed/Mustard/Sarson Oil, Poppy seed oil, Safflower oil, Til oil, Soyabean oil, Corn oil, Refined veg oil etc) & Blended oils	Peroxide Value	IS 548 (Part 1/Sec 2), Cl-21
21	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible Oils (Coconut oil, Cotton Seed Oil, Groundnut Oil, Linseed Oil, Mahua Oil, Rape seed/Mustard/Sarson Oil, Poppy seed oil, Safflower oil, Til oil, Soyabean oil, Corn oil, Refined veg oil etc) & Blended oils	Saponification Value	S 548 (Part I/Sec 2), Cl-16
22	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible Oils (Coconut oil, Cotton Seed Oil, Groundnut Oil, Linseed Oil, Mahua Oil, Rape seed/Mustard/Sarson Oil, Poppy seed oil, Safflower oil, Til oil, Soyabean oil, Corn oil, Refined veg oil etc) & Blended oils	Test For Rancidity	FSSAI Manual on Oils & Fats, Method 38
23	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Edible Oils (Coconut oil, Cotton Seed Oil, Groundnut Oil, Linseed Oil, Mahua Oil, Rape seed/Mustard/Sarson Oil, Poppy seed oil, Safflower oil, Til oil, Soyabean oil, Corn oil, Refined veg oil etc) & Blended oils	Unsaponifiable Matter	S 548 (Part I/Sec 2), Cl-9
24	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Food Grains & Pulses (whole or split such as Wheat, Maize, Jawar, Bajra, Rice, Masur,Urad, Moong, Chana)	Damaged/Broken Grains	FSSAI Manual of Methods of Analysis for Foods, Cereals & Cereals Products, Method 1.4

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25	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Food Grains & Pulses (whole or split such as Wheat, Maize, Jawar, Bajra, Rice, Masur,Urad, Moong, Chana)	Foreign Matter/Extraneous matter	FSSAI Manual of Methods of Analysis for Foods, Cereals & Cereals Products
26	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Food Grains & Pulses (whole or split such as Wheat, Maize, Jawar, Bajra, Rice, Masur,Urad, Moong, Chana)	Live/Dead Insects	FSSAI Manual of Methods of Analysis for Foods, Cereals & Cereals Products
27	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Food Grains & Pulses (whole or split such as Wheat, Maize, Jawar, Bajra, Rice, Masur,Urad, Moong, Chana)	Moisture	FSSAI Manual of Methods of Analysis for Foods, Cereals & Cereals Products
28	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Food Grains & Pulses (whole or split such as Wheat, Maize, Jawar, Bajra, Rice, Masur,Urad, Moong, Chana)	Other Edible Grains/Seeds	FSSAI Manual of Methods of Analysis for Foods, Cereals & Cereals Products
29	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Food Grains & Pulses (whole or split such as Wheat, Maize, Jawar, Bajra, Rice, Masur,Urad, Moong, Chana)	Seeds with serious defects	FSSAI Manual of methods of analysis for foods, cereals & cereal productsMethod-1.4, P-3
30	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Food Grains & Pulses (whole or split such as Wheat, Maize, Jawar, Bajra, Rice, Masur,Urad, Moong, Chana)	Seeds with Slight Defects	FSSAI Manual of methods of analysis for foods, cereals & cereal productsMethod-1.4, P-3
31	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Food Grains & Pulses (whole or split such as Wheat, Maize, Jawar, Bajra, Rice, Masur,Urad, Moong, Chana)	Weevilled Grains	FSSAI Manual of Methods of Analysis for Foods, Cereals & Cereals Products
32	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Iodized Salt / Edible Common Salt	Moisture	IS 7224: Annex A
33	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Iodized Salt / Edible Common Salt	Chloride content as NaCl on dry weight basis	IS 7224: Annex D
34	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Iodized Salt / Edible Common Salt	Iodine Content mg/kg	IS 7224: Annex H Method B
35	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Iodized Salt / Edible Common Salt	Matter insoluble in water on dry weight basis	IS 7224: Annex C
36	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Iodized Salt / Edible Common Salt	Matter soluble in water other than NaCl dry weight basis	IS 7224: Annex E
37	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Iron Fortified Iodized Salt (Double Fortified Salt)	Chloride content as NaCl on dry weight basis	IS 253 A-5
38	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Iron Fortified Iodized Salt (Double Fortified Salt)	Matter insoluble in dilute HCl dry weight basis	IS 16232: Annex G

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39	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Iron Fortified Iodized Salt (Double Fortified Salt)	Matter soluble in water other than NaCl dry weight basis	IS 253 A-6
40	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Iron Fortified Iodized Salt (Double Fortified Salt)	Moisture	IS 7224: Annex A
41	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Iron Fortified Iodized Salt (Double Fortified Salt)	Water insoluble matter dry weight basis	IS 253 A-4
42	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Pepper Black & White – Powder and Whole	Broken Berries	IS 1798
43	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Pepper Black & White – Powder and Whole	Extraneous Matter	Cl 4 of IS 1797
44	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Pepper Black & White – Powder and Whole	Light Berries	Annex A of IS 1798
45	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Pepper Black & White – Powder and Whole	Moisture	Cl 9 of IS 1797
46	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Pepper Black & White – Powder and Whole	Pin Heads	IS 1798
47	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to eat	Energy or Calaries by calculation	Food Energy- Method of analysis and Conversion Factor- FAO Paper 77, Ch 3
48	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to eat	Total Carbohydrate by calculation	Food Energy- Method of analysis and Conversion Factor- FAO Paper 77 Ch 3
49	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Ready to eat	Total Fat (crude)	IS 15271: Annex D
50	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Sugar, Gur, Bura sugar, Refined Sugar	Reducing Sugar	FSSAI Manual for Fruit and Vegetable Prodcuts
51	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Whole & Ground Spices and Mix Masalas	Acid insoluble ash on dry weight basis	IS 1797, Cl-8
52	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Whole & Ground Spices and Mix Masalas	Bulk Density in Black Pepper mass/litre	IS 1797, Cl-3

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53	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Whole & Ground Spices and Mix Masalas	Extraneous / Foreign Matter	IS 1797, Cl-4
54	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Whole & Ground Spices and Mix Masalas	Light Berries in Black pepper	IS 1798, Annex A
55	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Whole & Ground Spices and Mix Masalas	Moisture (toluene distillation)	IS 1797, Cl-9
56	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Whole & Ground Spices and Mix Masalas	Non Volatile Ether Extract on dry weight basis	IS 1797, Cl-14
57	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Whole & Ground Spices and Mix Masalas	Pin Head or broken berries in Black Pepper	IS 1798
58	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Whole & Ground Spices and Mix Masalas	Total ash on dry weight basis	IS 1797, Cl-6
59	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Whole & Ground Spices and Mix Masalas	Volatile oil on dry weight basis	IS 1797, Cl-15
60	CHEMICAL- WATER	Drinking Water	Alkalinity (as CaCO3)	IS 3025 (Part 23)
61	CHEMICAL- WATER	Drinking Water	Calcium as Ca	IS 3025 (Part 40)
62	CHEMICAL- WATER	Drinking Water	Chloride	IS 3025 (Part-32) Argenometric method
63	CHEMICAL- WATER	Drinking Water	Colour - Hazen Unit	IS 3025 (Part-4), Cl 4
64	CHEMICAL- WATER	Drinking Water	Conductivity mS/m	IS 3025 (PART-14)
65	CHEMICAL- WATER	Drinking Water	Magnesium as Mg	IS 3025 (PART 46)
66	CHEMICAL- WATER	Drinking Water	Nitrate as NO3	IS 3025 (PART 34)
67	CHEMICAL- WATER	Drinking Water	Nitrite as NO2	IS 3025 (PART 34)
68	CHEMICAL- WATER	Drinking Water	pH	IS 3025 (Part 11)
69	CHEMICAL- WATER	Drinking Water	Sulfates	IS 3025 (Part 24) Turbidity Method
70	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids(filterable residues)	IS 3025 (Part 16)
71	CHEMICAL- WATER	Drinking Water	Total Hardness (as CaCO3)	IS 3025 (Part-21)
72	CHEMICAL- WATER	Drinking Water	Turbidity (NTU)	IS 3025 (PART 10)