National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MITCON CONSULTANCY & ENGINEERING SERVICES LTD(ENVIRONMENTAL LABORATORY), SURVEY NO 143, AGRICULTURE COLLEGE CAMPUS, NEXT TO DIC OFFICE, PUNE, MAHARASHTRA, 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	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Bakery & Confectionery Products	E. coli.	IS 5887 (Part 1)
2	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Bakery & Confectionery Products	Salmonella	IS 5887 (Part 3)
3	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Bakery & confectionery Products	Total Plate count	IS 5402
4	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Bakery & confectionery Products	Yeast & Mould	IS 5403
5	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Cereals,Pulses & Cereal Products	Total Plate count	IS 5402
6	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Cereals,Pulses & Cereal Products	E coli	IS 5887 (Part 1)
7	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Cereals,Pulses & Cereal Products	Salmonella	IS 5887 (Part 3)
8	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Cereals,Pulses & Cereal Products	Yeast & Mould	IS 5403
9	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	cooked food	E coli	IS 5887 (Part 1)
10	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	cooked food	Salmonella	IS 5887 (Part 3)
11	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	cooked food	Total Plate count	IS 5402
12	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	cooked food	Yeast & Mould	IS 5403
13	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Herbs,spices & condiments	E coli	IS 5887 (Part 1)

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14	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Herbs,Spices & condiments	Salmonella	IS 5887 (Part 3)
15	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Herbs,Spices & condiments	Total Plate count	IS 5402
16	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Herbs,spices & condiments	Yeast & Mould	IS 5403
17	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Milk & Dairy Products	E coli	IS 5887 (Part I)
18	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Milk & Dairy Products	Salmonella	IS 5887 (Part 3)
19	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Milk & Dairy Products	Total Plate count	IS 5402
20	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Milk & Dairy Products	Yeast & Mould	IS 5403
21	BIOLOGICAL- WATER	Drinking Water	Total coliform	IS 15185
22	BIOLOGICAL- WATER	Drinking water,ground water ,surface water	E coli	IS 15185
23	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air quality monitoring	Lead	IS 5182 (Part 22)
24	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Quality Monitoring	Nickel	IS 5182 (Part 26)
25	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Quality Monitoring	NO2	IS 5182 (Part 6)
26	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Quality Monitoring	Particulate Matter 10	IS 5182 (Part 23)
27	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Quality Monitoring	Particulate Matter 2.5	IS 5182 (Part 24)
28	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Quality Monitoring	SO2	IS 5182 (Part 2)
29	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Atta, Maida, Suji, Rawa, corn flour, custard powder	Ash	FSSAI Manual of Methods of Analysis of Foods

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30	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Atta, Maida, Suji, Rawa, corn flour, custard powder	Crude Fibre	FSSAI Manual of Methods of Analysis of Foods: 2016
31	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Atta, Maida, Suji, Rawa, corn flour, custard powder	Moisture	FSSAI Manual of Methods of Analysis of Foods
32	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Atta, Maida, Suji, Rawa, corn flour, custard powder	Protein	IS 7219
33	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Biscuits, cakes, chips, wafers, pastry, brownie, muffin	Ash	IS 12711
34	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Biscuits, cakes, chips, wafers, pastry, brownie, muffin	Crude Fibre	IS 12711
35	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Biscuits, cakes, chips, wafers, pastry, brownie, muffin	Fat	IS 12711
36	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Biscuits, cakes, chips, wafers, pastry, brownie, muffin	Moisture	IS 12711
37	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Biscuits, cakes, chips, wafers, pastry, brownie, muffin	Protein	IS 7219
38	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Adultrant (Anionic detergent)	FSSAI Menual for analysis of milk and milk product
39	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Adultrant(Hydrogen Peroxide)	FSSAI Manual for analysis of milk and milk products
40	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Adultrant(Neutralizer)	FSSAI MAnual for analysis of milk and milk products

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41	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Adultrant(Starch)	FSSAI Manual for method for analysis of milk and milk product
42	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed	Adultrants (Added Urea)	FSSAI manual for analysis of milk and milk product
43	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Whole Milk Powder	Ash	IS 1165
44	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Whole Milk Powder	Fat	IS 1224 (Part II)
45	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Whole Milk Powder	Moisture	FSSAI manual for analysis of milk and milk products
46	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water	Magnessium	APHA 3500 Mg B 3-86 23rd Ed.
47	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water	Total Hardness	APHA 2340 C,2-48 to 2-50 23rd Ed.
48	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent/sewage	Boron	APHA 4500 B 4-25 to 4-26 23rd Ed.
49	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	Ammonical Nitrogen as NH3	APHA 4500 NH3 F, 4-115 to 4-119 to 4-120, 23rd Ed.
50	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	Biochemical Oxygen Demand (BOD) 3 days at 27 degree C	IS 3025 (Part 44), Rev 1
51	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	Cadmium as Cd	APHA 3111 B, 3-18 to 3-21, 23rd Ed. (AAS)
52	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	Chemical Oxygen Demand (COD)	APHA 5220 C,5-20 to 5-21 23rd Ed.
53	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	Chloride as Cl	APHA 4500 Cl-, B, 4-75 to 4-76, 23rd Ed.
54	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	Chromium Hexavalent as cr6+	APHA 3500 Cr B 3-71 , 23rd Ed.
55	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	Copper as Cu	APHA 3111 B, 3-18 to 3-21, 23rd Ed. (AAS)

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56	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	Dissolved Oxygen	IS 3025 (Part 38)
57	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	Fluoride as F	APHA 4500-F- D, 4-90 to 4-91, 23rd Ed.
58	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	Iron as Fe	APHA 3111 B, 3-18 to 3-21, 23rd Ed. (AAS)
59	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	Lead as Pb	APHA 3111 B, 3-18 to 3-21, 23rd Ed. (AAS)
60	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	Manganese as Mn	APHA 3111 B, 3-18 to 3-21, 23rd Ed. (AAS)
61	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	Nickel as Ni	APHA 3111 B, 3-18 to 3-21, 23rd Ed. (AAS)
62	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	Nitrate as NO3	APHA 4500 NO3 –B , 4-127, 23rd Ed.
63	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	Nitrite as NO2	IS 3025 (Part 34)
64	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	Oil & Grease	APHA 5520 B ,5-42 to 5-43 23rd Ed.
65	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	pH	APHA 4500 H+, A, 4-95, 23rd Ed.
66	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	Phosphate as PO4	APHA 4500 P-C ,4-162 , 23rd Ed.
67	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	Potassium as K	APHA 3111 B, 3-18 to 3-21, 23rd Ed. (AAS)
68	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	Sodium as Na	APHA 3111 B, 3-18 to 3-21, 23rd Ed. (AAS)
69	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	Sulphate as SO4	APHA 4500-SO4-- E, 4-199 to 4-200, 23rd Ed.
70	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	Total Chromium as Cr	APHA 3111 B, 3-18 to 3-21, 23rd Ed. (AAS)
71	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	Total Dissolved Solids	APHA 2540 C, 2-69 to 2-70 , 23rd Ed.
72	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	Total Solids	APHA 2540 B, 2-64, 23rd Ed.
73	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	Total suspended Solids	APHA 2540 D ,2-70 to 2-71 23rd Ed.
74	CHEMICAL- POLLUTION & ENVIRONMENT	Liquid Effluent, Waste water, Sewage water	Zinc as Zn	APHA 3111 B, 3-18 to 3-21, 23rd Ed. (AAS)

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75	CHEMICAL- POLLUTION & ENVIRONMENT	soil	Available Boron	Laboratory Methods for Analysis of Soils Irrigation Water and Plants, Page No. 145-149
76	CHEMICAL- POLLUTION & ENVIRONMENT	soil	available phosphorous	Laboratory Methods for Analysis of Soils Irrigation Water and Plants, Page No. 87-89
77	CHEMICAL- POLLUTION & ENVIRONMENT	soil	Electrical Conductivity	IS 14767
78	CHEMICAL- POLLUTION & ENVIRONMENT	soil	Moisture	IS 2720 (Part 2)
79	CHEMICAL- POLLUTION & ENVIRONMENT	soil	Organic Matter	IS 2720 (Part 22)
80	CHEMICAL- POLLUTION & ENVIRONMENT	soil	pH	IS 2720 (Part 26)
81	CHEMICAL- POLLUTION & ENVIRONMENT	waste water	calcium	APHA 3500 Ca B,3-69 to 3-70 23rd Ed.
82	CHEMICAL- POLLUTION & ENVIRONMENT	Waste water	Chemical Oxygen Demand	IS 3025 (Part 58)
83	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water(Effluent/Sewage)	Arsenic	APHA 3114 C,3-38 to 3-39 23rd Ed.
84	CHEMICAL- RESIDUES IN WATER	Drinking water ,Ground Water,Surface Water	Copper as Cu	APHA 3111 B, 3-18 to 3-21, 23rd Ed. (AAS)
85	CHEMICAL- RESIDUES IN WATER	Drinking Water, Ground water, Surface Water	Iron as Fe	APHA 3111 B, 3-18 to 3-21, 23rd Ed. (AAS)
86	CHEMICAL- RESIDUES IN WATER	Drinking Water, Ground Water,Surface Water	Zinc as Zn	APHA 3111 B, 3-18 to 3-21, 23rd Ed. (AAS)
87	CHEMICAL- RESIDUES IN WATER	Drinking water,Ground water,surface water	Cadmium as Cd	APHA 3111 B, 3-18 to 3-21, 23rd Ed. (AAS)
88	CHEMICAL- RESIDUES IN WATER	Drinking Water,Ground Water,Surface Water	Lead as Pb	APHA 3111 B, 3-18 to 3-21, 23rd Ed. (AAS)
89	CHEMICAL- RESIDUES IN WATER	Drinking Water,Ground Water,Surface Water	Manganese as Mn	APHA 3111 B, 3-18 to 3-21, 23rd Ed. (AAS)
90	CHEMICAL- RESIDUES IN WATER	Drinking Water,Ground Water,Surface Water	Nickel as Ni	APHA 3111 B, 3-18 to 3-21, 23rd Ed. (AAS)
91	CHEMICAL- RESIDUES IN WATER	Drinking Water,Ground Water,Surface Water	Potassium as K	APHA 3111 B, 3-18 to 3-21, 23rd Ed. (AAS)

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92	CHEMICAL- RESIDUES IN WATER	Drinking Water,Ground Water,Surface Water	Sodium as Na	APHA 3111 B, 3-18 to 3-21, 23rd Ed. (AAS)
93	CHEMICAL- RESIDUES IN WATER	Drinking Water,Ground Water,Surface Water	Total Chromium as Cr	APHA 3111 B, 3-18 to 3-21, 23rd Ed. (AAS)
94	CHEMICAL- WATER	Drinking Water	Colour	APHA 2120 B,2-6 to 2-7, 23rd Ed.
95	CHEMICAL- WATER	Drinking Water	odour	IS 3025 Part 5(Rev 1)
96	CHEMICAL- WATER	Drinking Water	pH	APHA 4500 H+ A 4-95 23rd Ed.
97	CHEMICAL- WATER	Drinking Water	sulfide	APHA 4500 S2,F,4-178, 23rd Ed.
98	CHEMICAL- WATER	Drinking Water	Taste	IS 3025 (Part 7) Rev 1
99	CHEMICAL- WATER	Drinking Water	Temperature	APHA 2550 B 2-74 23rd Ed.
100	CHEMICAL- WATER	Drinking Water	Total suspended solids	APHA 2540 D,2-70 to 2-71 23rd Ed.
101	CHEMICAL- WATER	Drinking Water /Ground Water/Surface Water	Boron	APHA 4500 B,4-25 to 4-26 , 23rd Ed.
102	CHEMICAL- WATER	Drinking Water /Ground Water/Surface Water	Oil and Grease	APHA 5520 B,5-42 to 5-43 23rd Ed.
103	CHEMICAL- WATER	Drinking water, Ground water, Surface water	Acidity as CaCO3	IS 3025 (Part 22) Rev.1
104	CHEMICAL- WATER	Drinking water, Ground water, Surface water	Ammonical Nitrogen as NH3	APHA 4500 NH3 F, 4-119 to 4-120, 23rd Ed.
105	CHEMICAL- WATER	Drinking water, Ground water, Surface water	Biochemical Oxygen Demand (BOD) 3 days at 27 degree C	IS 3025 (Part 44) Rev.1
106	CHEMICAL- WATER	Drinking water, Ground water, Surface water	Calcium as Ca	APHA 3500 Ca B, 3-69 to 3-70, 23rd Ed.
107	CHEMICAL- WATER	Drinking water, Ground water, Surface water	Chemical Oxygen Demand (COD)	APHA 5220 C ,5-20 to 5-21 23rd Ed.
108	CHEMICAL- WATER	Drinking water, Ground water, Surface water	Chloride as Cl	APHA 4500 Cl-, B, 4-75 to 4-76, 23rd Ed.
109	CHEMICAL- WATER	Drinking water, Ground water, Surface water	Chromium Hexavalent as Cr6+	APHA 3500 Cr B, 3-71, 23rd Ed.
110	CHEMICAL- WATER	Drinking water, Ground water, Surface water	Dissolved Oxygen	IS 3025 (Part 38)
111	CHEMICAL- WATER	Drinking water, Ground water, Surface water	Electrical Conductivity	APHA 2510 B, 2-56 to 2-58, 23rd Ed.
112	CHEMICAL- WATER	Drinking water, Ground water, Surface water	Fluoride as F	APHA 4500-F- D, 4-90 to 4-91, 23rd Ed.

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113	CHEMICAL- WATER	Drinking water, Ground water, Surface water	Magnesium as Mg	APHA 3500 Mg B, 3-86, 23rd Ed.
114	CHEMICAL- WATER	Drinking water, Ground water, Surface water	Nitrate as NO3	APHA 4500 NO3 B ,4-127 23rd Ed.
115	CHEMICAL- WATER	Drinking water, Ground water, Surface water	Nitrite as NO2	IS 3025 (Part 34) Cl. 3, Rev.1
116	CHEMICAL- WATER	Drinking water, Ground water, Surface water	Phosphate as PO4	APHA 4500 P-C ,4-162 23rd Ed.
117	CHEMICAL- WATER	Drinking water, Ground water, Surface water	Silica as Si	APHA 4500 SiO2 C, 4-175 to 4-177, 23rd Ed.
118	CHEMICAL- WATER	Drinking water, Ground water, Surface water	Sulphate as SO4	APHA 4500-SO4-- E, 4-199 to 4-200, 23rd Ed.
119	CHEMICAL- WATER	Drinking water, Ground water, Surface water	Total Dissolved Solids	APHA 2540 C, 2-69 to 2-70, 23rd Ed.
120	CHEMICAL- WATER	Drinking water, Ground water, Surface water	Total Hardness as CaCO3	APHA 2340 C, 2-48 to 2-50, 23rd Ed.
121	CHEMICAL- WATER	Drinking water, Ground water, Surface water	Total Solids	APHA 2540 B, 2-68 to 2-69, 23rd Ed.
122	CHEMICAL- WATER	Drinking water, Ground water, Surface water	Turbidity	IS 3025 (Part 10) Cl. 1
123	CHEMICAL- WATER	Drinking Water,Ground Water,Surface Water	Total Alkalinity as CaCO3	APHA 2320 B, 2-37 to 2-39, 23rd Ed.
124	CHEMICAL- WATER	Drinking Water/Ground water/surface water	Arsenic	APHA 3114 C 3-38 to 3-39, 23rd Ed.
125	CHEMICAL- WATER	Drinking water/ground water/surface water	Total suspended solids	IS 3025 (Part 17)