National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : EREC INDIA RESEARCH LABORATORY, EREC LAB, MPG COMPLEX, R-2, RUPNAGAR, GUWAHATI, KAMRUP METRO, ASSAM, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-4109 **Page No** 1 of 5

Validity 09/05/2023 to 08/05/2025 **Last Amended on** -

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	Coliform	USFDA-BAM 8th Edition Chapter 4
2	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Bakery & Confectionery	Total bacterial Count	USFDA-BAM 8th Edition Chapter 3
3	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Fruit & Fruit Product	Coliform	USFDA-BAM 8th Edition Chapter 4
4	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Fruit & Fruit Products	Total Bacterial Count	USFDA-BAM 8th Edition Chapter 3
5	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Meat & meat Product	Coliform	USFDA-BAM 8th Edition Chapter 4
6	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Meat & meat Product	Total Bacterial Count	USFDA-BAM 8th Edition Chapter 3
7	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Milk & Dairy Product	Fats	IS 1479-1
8	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Milk & Dairy Product	SNF	IS 1479-1
9	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Milk & Dairy Product	Total Bacterial Count	USFDA-BAM 8th Edition Chapter 3
10	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Milk & Diary Product	Coliform	USFDA-BAM 8th Edition Chapter 4
11	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Non Alcoholic Beverages	Coliform	USFDA-BAM 8th Edition Chapter 4
12	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Non Alcoholic Beverages	Total Bacterial Count	USFDA-BAM 8th Edition Chapter 3
13	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Rice	Coliform	USFDA-BAM 8th Edition Chapter 4

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14	BIOLOGICAL- FOOD AND AGRICULTURAL PRODUCTS	Rice	Total Bacterial Count	USFDA-BAM 8th Edition Chapter 3
15	BIOLOGICAL- WATER	Water	Aerobic Microbial Count (at 22 degree centigrade)	IS 5402
16	BIOLOGICAL- WATER	Water	Aerobic Microbial Count (at 37 degree centigrade)	IS 5402
17	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bakery & Confectionery	Moisture Content	IS 12711
18	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bakery & Confectionery Product	Acid Insoluble Ash	IS 12711
19	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bakery & Confectionery Product	Carbohydrate Content	IS 1656
20	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bakery & Confectionery Product	Crude Fiber Content	IS 12711
21	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bakery & Confectionery Product	Protein Content	IS 7219
22	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bakery & Confectionery Product	Total Fat Content	IS 12711
23	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Bakery & Confectionery Products	Total Ash Content	IS 12711
24	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	COD	IS 3025 Part-58
25	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Magnesium (Mg)	IS 3025 Part-46
26	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	pH	IS 3025 Part-11
27	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Alkalinity	IS 3025 Part-23
28	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	TSS	APHA 2540D
29	CHEMICAL- SOIL AND ROCK	Soil	Organic Matter	IS 2720 Part-22

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30	CHEMICAL- SOIL AND ROCK	Soil	pH Determination	IS 2720 Part-26
31	CHEMICAL- SOLID FUELS	Coal	Ash	IS 1350 (Part-1)
32	CHEMICAL- SOLID FUELS	Coal	Caking Index	IS 1353 Part 3
33	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon	IS 1350 (Part 1)
34	CHEMICAL- SOLID FUELS	Coal	Moisture	IS 1350 (Part-1)
35	CHEMICAL- SOLID FUELS	Coal	Sulphur	IS 1350 (Part 3)
36	CHEMICAL- SOLID FUELS	Coal	Volatile Matter	IS 1350 (Part 1)
37	CHEMICAL- WATER	Water	Alkalinity	IS 3025 (Part 23)
38	CHEMICAL- WATER	Water	Cadmium	IS 3025 (Part 41)
39	CHEMICAL- WATER	Water	Calcium	IS 3025 (Part 40)
40	CHEMICAL- WATER	Water	Chloride	IS 3025 (Part 32)
41	CHEMICAL- WATER	Water	Chromium	IS 13428 Annex J
42	CHEMICAL- WATER	Water	Colour	IS 3025 (Part 4)
43	CHEMICAL- WATER	Water	Copper	IS 3025 (Part 42)
44	CHEMICAL- WATER	Water	Fluoride	APHA 23rd Edn 4500 F - D
45	CHEMICAL- WATER	Water	Magnesium	IS 3025 (Part 46)
46	CHEMICAL- WATER	Water	Nickel	IS 13428 Annex L
47	CHEMICAL- WATER	Water	Nitrate as NO3	IS 3025 (Part 34)
48	CHEMICAL- WATER	Water	Nitrite as NO2	IS 3025 (Part 34)
49	CHEMICAL- WATER	Water	Odour	IS 3025 (Part 5)
50	CHEMICAL- WATER	Water	pH	IS 3025 (Part 11)
51	CHEMICAL- WATER	Water	Residual Free Chlorine	IS 3025 (Part 26)
52	CHEMICAL- WATER	Water	Sulphate	IS 3025 (Part 24)
53	CHEMICAL- WATER	Water	Sulphide	IS 3025 (Part 29)
54	CHEMICAL- WATER	Water	Total Dissolved Solids	IS 3025 (Part 16)
55	CHEMICAL- WATER	Water	Total Hardness	IS 3025 (Part 21)
56	CHEMICAL- WATER	Water	Turbidity	IS 3025 (Part 10)
57	CHEMICAL- WATER	Water	Zinc	IS 3025 (Part 49)
58	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility test	IS: 1208

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59	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity	IS: 1206
60	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration testing	IS 1203
61	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS: 1205
62	MECHANICAL- BUILDINGS MATERIALS	Cement	Final setting Time	IS 4031 Part-5
63	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness – by Sieve method	IS: 4031 Part-2
64	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting time	IS 4031 Part-5
65	MECHANICAL- BUILDINGS MATERIALS	Cement	Le-Chatelier Test	IS: 4031 Part-3
66	MECHANICAL- BUILDINGS MATERIALS	Cement	Strength of cement	IS 4031 Part-6
67	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part-4)
68	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact value	IS 2386 (Part-4)
69	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part-3)
70	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Elongation index test	IS 2386 Part 1
71	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Flakiness index test	IS 2386 (Part- 1)
72	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Loss Angeles Abrasion value	IS 2386 (Part- 4)
73	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Sieve Analysis (75mm, 40mm, 25mm, 19mm, 12.5mm, 10mm, 6.5mm, 4.75mm, 2mm, 425 micron, 75 micron)	IS 2386 (Part-1)
74	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Water Absorption	IS 2386 (Part-3)
75	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Sieve Analysis (75mm, 40mm, 25mm, 19mm, 12.5mm, 10mm, 6.5mm, 4.75mm, 2mm, 425 micron, 75 micron)	IS 2386 (Part-1)

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76	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Specific Gravity	IS 2386 (Part-3)
77	MECHANICAL- BUILDINGS MATERIALS	Soil	Atterberg Limit test	IS 2720 Part-5
78	MECHANICAL- BUILDINGS MATERIALS	Soil	Atterberg Limit test	IS 2720 Part-5
79	MECHANICAL- BUILDINGS MATERIALS	Soil	CBR test	IS 516
80	MECHANICAL- BUILDINGS MATERIALS	Soil	Direct shear test	IS 2720 Part-13
81	MECHANICAL- BUILDINGS MATERIALS	Soil	Proctor density Test - MDD	IS 2720 Part-7
82	MECHANICAL- BUILDINGS MATERIALS	Soil	Proctor density Test- OMC	IS 2720 Part-7
83	MECHANICAL- BUILDINGS MATERIALS	Soil	Sieve Analysis Limit	IS 2720 (Part-4)
84	MECHANICAL- BUILDINGS MATERIALS	Steel bar	Bend Test	IS 4599
85	MECHANICAL- BUILDINGS MATERIALS	Steel bar	Elongation	IS 1608
86	MECHANICAL- BUILDINGS MATERIALS	Steel bar	Mass per Meter	IS 1786
87	MECHANICAL- BUILDINGS MATERIALS	Steel Bar	Tensile Strength	IS 1608
88	MECHANICAL- BUILDINGS MATERIALS	Steel bar	Yield/ Proof Stress	IS 1608