



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

EMC LAB, F53, TELECOM TEST LABS, ITI LIMITED, DOORAVANINAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9797

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Validity

27/08/2023 to 26/08/2025

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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	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic equipment used in Residential environment.	Harmonic Current emission Up to 40th Harmonic Single Phase:16A Frequency 50Hz/60Hz	IEC 61000-6-3
2	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic equipment used in Industrial environments	Electrostatic discharge immunity test	IEC 61000-6-2
3	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic equipment used in Industrial environments	Power Frequency Magnetic field Immunity test	IEC 61000-6-2
4	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic equipment used in Industrial environments	Surge Immunity	IEC 61000-6-2
5	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic equipment used in Industrial environments	Voltage dips, Voltage interruptions	IEC 61000-6-2
6	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic equipment used in Industrial environments	Conducted Susceptibility Test	IEC 61000-4-6
7	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic equipment used in Industrial environments	Radio-frequency electromagnetic field	IEC 61000-6-2
8	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic equipment used in Industrial environments.	Conducted Emission	IEC 61000-6-4
9	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic equipment used in Industrial environments.	Fast transient	IEC 61000-6-2
10	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic equipment used in Industrial environments.	Radio-frequency common mode	IEC 61000-6-2
11	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic equipment used in Industrial environments.	Radiated Emission	IEC 61000-6-4
12	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic equipment used in Residential environment.	Conducted Emission - Current limitation: 16 A for Single Phase	IEC 61000-6-3
13	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic equipment used in Residential environment.	Radiated Emission	IEC 61000-6-3
14	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic equipment used in Residential environment.	voltage fluctuations and flicker	IEC 61000-6-3
15	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic equipment used in Residential, Commercial and Light Industrial environment	Electrostatic discharge	IEC 61000-6-1
16	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic equipment used in Residential, Commercial and Light Industrial environment	Fast transients	IEC 61000-6-1
17	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic equipment used in Residential, Commercial and Light Industrial environment	Power-frequency magnetic field	IEC 61000-6-1



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18	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic equipment used in Residential, Commercial and Light Industrial environment	Radio-frequency common mode	IEC 61000-6-1
19	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic equipment used in Residential, Commercial and Light Industrial environment	Radio-frequency electromagnetic field	IEC 61000-6-1
20	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic equipment used in Residential, Commercial and Light Industrial environment	Surge Immunity	IEC 61000-6-1
21	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical and Electronic equipment used in Residential, Commercial and Light Industrial environment	Voltage dips and short interruptions	IEC 61000-6-1
22	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical equipment for measurement ,control and laboratory use	Electrical Fast Transient (EFT)/ Burst Immunity Test	IEC 61326-1
23	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted Emission	IEC 61326-1
24	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrostatic discharge immunity test	IEC 61326-1
25	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Immunity to conducted disturbance	IEC-61326-1
26	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated Emission	IEC 61326-1
27	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Rated power frequency Magnetic field	IEC-61326-1
28	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	RF Electromagnetic field immunity test	IEC 61326-1
29	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Surge immunity	IEC 61326-1
30	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage dips, short interruptions	IEC-61326-1
31	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical Lighting and Similar Equipment	Conducted Emission	CISPR 15
32	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical Lighting and Similar Equipment	Radiated Disturbance Measurement	CISPR 15
33	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical/ Electronic Equipment System/Subsystem/ Vehicle Mounted Systems	Conducted Emission CE101,Power leads	MIL 461 D,E ,F & G
34	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical/ Electronic Equipment System/Subsystem/ Vehicle Mounted Systems	Conducted Emission CE102 Power leads	MIL 461 D,E ,F & G
35	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical/ Electronic Equipment System/Subsystem/ Vehicle Mounted Systems	Conducted susceptibility - CS109-Structure Current	MIL 461 D,E ,F & G
36	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical/ Electronic Equipment System/Subsystem/ Vehicle Mounted Systems	Conducted susceptibility CS101-Power Leads	MIL 461 D,E ,F & G



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37	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical/ Electronic Equipment System/Subsystem/ Vehicle Mounted Systems	Conducted susceptibility CS115 - Bulk cable injection, impulse excitation	MIL 461 D,E ,F & G
38	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical/ Electronic Equipment System/Subsystem/ Vehicle Mounted Systems	Conducted susceptibility CS116-Damped sinusoidal Transients, Cables & power Leads	MIL 461 D,E ,F & G
39	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical/ Electronic Equipment System/Subsystem/ Vehicle Mounted Systems	Conducted susceptibility CS114-Bulk cable injection	MIL 461 D,E ,F & G
40	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical/ Electronic Equipment System/Subsystem/ Vehicle Mounted Systems	Radiated Emission RE101, Magnetic Field	MIL 461 D,E ,F & G
41	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical/ Electronic Equipment System/Subsystem/ Vehicle Mounted Systems	Radiated Susceptibility RS101 Magnetic Field	MIL 461 D,E ,F & G
42	ELECTRICAL- EMI / EMC TEST FACILITY	Electrical/ Electronic Equipment System/Subsystem/ Vehicle Mounted Systems	RE102 - Radiated Emission Electric field	MIL 461 D,E ,F & G
43	ELECTRICAL- EMI / EMC TEST FACILITY	Equipment for general lighting purposes	Electrostatic discharge immunity test	IEC-61547
44	ELECTRICAL- EMI / EMC TEST FACILITY	Equipment for general lighting purposes	Fast transients	IEC-61547
45	ELECTRICAL- EMI / EMC TEST FACILITY	Equipment for general lighting purposes	Power Frequency Magnetic Field Immunity test	IEC-61547
46	ELECTRICAL- EMI / EMC TEST FACILITY	Equipment for general lighting purposes	Radio-frequency common mode	IEC-61547
47	ELECTRICAL- EMI / EMC TEST FACILITY	Equipment for general lighting purposes	Radio-frequency electromagnetic fields	IEC-61547
48	ELECTRICAL- EMI / EMC TEST FACILITY	Equipment for general lighting purposes	Surge immunity	IEC-61547
49	ELECTRICAL- EMI / EMC TEST FACILITY	Equipment for general lighting purposes	Voltage dips and short interruptions	IEC-61547
50	ELECTRICAL- EMI / EMC TEST FACILITY	Flicker IT Products /Domestic /Industrial Automation / Scientific /Optronics /Medical /Automotive / Telecom /Consumer /Household /Machinery / Test and Measurement Equipment /Laboratory Equipment / Locomotive /RF Products / Wireless Products	Harmonic Current emission Up to 40th Harmonic Single Phase:16A Frequency 50Hz/60Hz	IEC 61000-3-2
51	ELECTRICAL- EMI / EMC TEST FACILITY	Flicker IT Products /Domestic /Industrial Automation / Scientific /Optronics /Medical /Automotive / Telecom /Consumer /Household /Machinery / Test and Measurement Equipment /Laboratory Equipment / Locomotive /RF Products / Wireless Products	Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests	IEC 61000-4-29



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52	ELECTRICAL- EMI / EMC TEST FACILITY	Flicker IT Products /Domestic /Industrial Automation / Scientific /Optronics /Medical /Automotive / Telecom /Consumer /Household /Machinery / Test and Measurement Equipment /Laboratory Equipment / Locomotive /RF Products / Wireless Products	Voltage fluctuations and flicker	IEC 61000-3-3
53	ELECTRICAL- EMI / EMC TEST FACILITY	Household appliances, Electric tools and Similar apparatus	Radiated Emission	CISPR 14-1
54	ELECTRICAL- EMI / EMC TEST FACILITY	Household appliances, Electric tools and Similar apparatus	Conducted Emission	CISPR 14-1
55	ELECTRICAL- EMI / EMC TEST FACILITY	Household appliances, Electric tools and similar apparatus	Electrostatic discharge immunity test	CISPR 14-2
56	ELECTRICAL- EMI / EMC TEST FACILITY	Household appliances, Electric tools and similar apparatus	Fast transients	CISPR 14-2
57	ELECTRICAL- EMI / EMC TEST FACILITY	Household appliances, Electric tools and similar apparatus	Injected currents	CISPR 14-2
58	ELECTRICAL- EMI / EMC TEST FACILITY	Household appliances, Electric tools and similar apparatus	Radio frequency electromagnetic fields	CISPR 14-2
59	ELECTRICAL- EMI / EMC TEST FACILITY	Household appliances, Electric tools and similar apparatus	Surge immunity	CISPR 14-2
60	ELECTRICAL- EMI / EMC TEST FACILITY	Household appliances, Electric tools and similar apparatus	Voltage dips	CISPR 14-2
61	ELECTRICAL- EMI / EMC TEST FACILITY	Industrial, Commercial and Medical Equipment	High Energy/ Telecom Surge Immunity Test	IEC 61000-4-5
62	ELECTRICAL- EMI / EMC TEST FACILITY	Industrial, Commercial and Medical Equipment	Radio Interference Measurement	CISPR 11
63	ELECTRICAL- EMI / EMC TEST FACILITY	Industrial, Commercial and Medical Equipment	Voltage Dips, Short Interruptions and Voltage Variations Immunity Test	IEC 61000-4-11
64	ELECTRICAL- EMI / EMC TEST FACILITY	Industrial, Scientific and Medical, Commercial Equipment	Electrical Fast Transient (EFT)/ Burst Immunity Test	IEC 61000-4-4
65	ELECTRICAL- EMI / EMC TEST FACILITY	Industrial, Scientific and Medical Equipment	Conducted Emission	CISPR 11
66	ELECTRICAL- EMI / EMC TEST FACILITY	Industrial, Scientific and Medical, Commercial Equipment	Electrostatic Discharge Immunity Test	IEC 61000-4-2
67	ELECTRICAL- EMI / EMC TEST FACILITY	Industrial, Scientific and Medical, Commercial Equipment	Power Frequency Magnetic Field Immunity Test	IEC 61000-4-8
68	ELECTRICAL- EMI / EMC TEST FACILITY	Industrial, Scientific and Medical, Commercial Equipment	RF Electromagnetic Field Immunity Test	IEC 61000-4-3



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69	ELECTRICAL- EMI / EMC TEST FACILITY	Medical electrical Equipment	Rated Power Frequency magnetic fields	IEC 60601-1-2
70	ELECTRICAL- EMI / EMC TEST FACILITY	Medical electrical Equipment	Electrical Fast Transient (EFT) / Burst Immunity Test	IEC 60601-1-2
71	ELECTRICAL- EMI / EMC TEST FACILITY	Medical electrical Equipment	Conducted disturbances induced by RF Fields	60601-1-2
72	ELECTRICAL- EMI / EMC TEST FACILITY	Medical electrical Equipment	Electrostatic discharge immunity test	IEC 60601-1-2
73	ELECTRICAL- EMI / EMC TEST FACILITY	Medical electrical Equipment	Surge Immunity Test	60601-1-2
74	ELECTRICAL- EMI / EMC TEST FACILITY	Medical electrical Equipment	Electromagnetic field immunity test	60601-1-2
75	ELECTRICAL- EMI / EMC TEST FACILITY	Medical electrical Equipment	Radiation Emission	60601-1-2
76	ELECTRICAL- EMI / EMC TEST FACILITY	Medical electrical Equipment	Voltage dips and interruptions	IEC 60601-1-2
77	ELECTRICAL- EMI / EMC TEST FACILITY	Medical electrical equipment	Conducted Emission	IEC 60601-1-2
78	ELECTRICAL- EMI / EMC TEST FACILITY	Medical electrical equipment	Harmonic Current emission Up to 40th Harmonic Single Phase:16A Frequency 50Hz/60Hz	IEC 60601-1-2
79	ELECTRICAL- EMI / EMC TEST FACILITY	Medical electrical equipment	Voltage fluctuations and flicker	IEC 60601-1-2
80	ELECTRICAL- EMI / EMC TEST FACILITY	Multimedia Equipment	Conducted Emission	CISPR 32
81	ELECTRICAL- EMI / EMC TEST FACILITY	Multimedia Equipment	Radio Interference Measurement	CISPR 32
82	ELECTRICAL- EMI / EMC TEST FACILITY	Radio Frequency Device	Conducted Emission - Power Leads	FCC Part 18
83	ELECTRICAL- EMI / EMC TEST FACILITY	Radio Frequency Device	Conducted Emission - Power Leads	FCC Part 15B & 15A
84	ELECTRICAL- EMI / EMC TEST FACILITY	Radio Frequency Device	Radiated Emission	FCC Part 15B & 15A
85	ELECTRICAL- EMI / EMC TEST FACILITY	Railway applications - Signaling and Telecommunications apparatus	Conducted Radio-frequency common mode	IEC 62236
86	ELECTRICAL- EMI / EMC TEST FACILITY	Railway applications - Signaling and Telecommunications apparatus	Electrical Fast Transient (EFT)/ Burst Immunity Test	IEC 62236-4



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87	ELECTRICAL- EMI / EMC TEST FACILITY	Railway applications - Signaling and Telecommunications apparatus	Radiated Emission	IEC 62236-4
88	ELECTRICAL- EMI / EMC TEST FACILITY	Railway applications - Signalling and Telecommunications apparatus	Conducted Emission	EN 50121-4
89	ELECTRICAL- EMI / EMC TEST FACILITY	Railway applications - Signalling and Telecommunications apparatus	Conducted Emission	IEC 62236-4
90	ELECTRICAL- EMI / EMC TEST FACILITY	Railway applications - Signalling and Telecommunications apparatus	Conducted Radio-frequency common mode	EN 50121-4
91	ELECTRICAL- EMI / EMC TEST FACILITY	Railway applications - Signalling and Telecommunications apparatus	Electrostatic discharge immunity test	EN 50121-4
92	ELECTRICAL- EMI / EMC TEST FACILITY	Railway applications - Signalling and Telecommunications apparatus	Electrostatic discharge immunity test	IEC 62236
93	ELECTRICAL- EMI / EMC TEST FACILITY	Railway applications - Signalling and Telecommunications apparatus	Fast transients	EN 50121-4
94	ELECTRICAL- EMI / EMC TEST FACILITY	Railway applications - Signalling and Telecommunications apparatus	Power - frequency magnetic field	EN 50121-4
95	ELECTRICAL- EMI / EMC TEST FACILITY	Railway applications - Signalling and Telecommunications apparatus	Power - frequency magnetic field	IEC 62236-4
96	ELECTRICAL- EMI / EMC TEST FACILITY	Railway applications - Signalling and Telecommunications apparatus	Radiated Emission	EN 50121-4
97	ELECTRICAL- EMI / EMC TEST FACILITY	Railway applications - Signalling and Telecommunications apparatus	Radio-Frequency Electromagnetic field	EN 50121-4
98	ELECTRICAL- EMI / EMC TEST FACILITY	Railway applications - Signalling and Telecommunications apparatus	Radio-Frequency Electromagnetic field	IEC 62236
99	ELECTRICAL- EMI / EMC TEST FACILITY	Railway applications - Signalling and Telecommunications apparatus	Surge immunity	EN 50121-4
100	ELECTRICAL- EMI / EMC TEST FACILITY	Railway applications - Signalling and Telecommunications apparatus	Surge immunity	IEC 62236-4
101	ELECTRICAL- SAFETY TESTING FACILITY	Audio /video, information and communication technology equipment	Protective conductor current	IEC 62368-1
102	ELECTRICAL- SAFETY TESTING FACILITY	Audio/video, information and communication technology equipment	Mechanical Strength Test	IEC-62368-1
103	ELECTRICAL- SAFETY TESTING FACILITY	Audio/video, information and communication technology equipment	Ball Pressure Test	IEC-62368-1
104	ELECTRICAL- SAFETY TESTING FACILITY	Audio/video, information and communication technology equipment	Chord Anchorage Test	IEC-62368-1



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105	ELECTRICAL- SAFETY TESTING FACILITY	Audio/video, information and communication technology equipment	Circuit Intended for interconnection with building wiring Clause Annex Q	IEC-62368-1
106	ELECTRICAL- SAFETY TESTING FACILITY	Audio/video, information and communication technology equipment	Drop Test	IEC-62368-1
107	ELECTRICAL- SAFETY TESTING FACILITY	Audio/video, information and communication technology equipment	Electric Strength Test	IEC-62368-1
108	ELECTRICAL- SAFETY TESTING FACILITY	Audio/video, information and communication technology equipment	Enclosure Impact Test, Glass Impact Test	IEC-62368-1
109	ELECTRICAL- SAFETY TESTING FACILITY	Audio/video, information and communication technology equipment	Equipment for direct insertion into main socket outlet	IEC-62368-1
110	ELECTRICAL- SAFETY TESTING FACILITY	Audio/video, information and communication technology equipment	Equipment Mounted to a Wall or Ceiling	IEC-62368-1
111	ELECTRICAL- SAFETY TESTING FACILITY	Audio/video, information and communication technology equipment	Horizontal Force Test	IEC-62368-1
112	ELECTRICAL- SAFETY TESTING FACILITY	Audio/video, information and communication technology equipment	Humidity Conditioning	IEC-62368-1
113	ELECTRICAL- SAFETY TESTING FACILITY	Audio/video, information and communication technology equipment	Humidity Treatment	IEC-62368-1
114	ELECTRICAL- SAFETY TESTING FACILITY	Audio/video, information and communication technology equipment	Input Test	IEC-62368-1
115	ELECTRICAL- SAFETY TESTING FACILITY	Audio/video, information and communication technology equipment	IR Test	IEC-62368-1
116	ELECTRICAL- SAFETY TESTING FACILITY	Audio/video, information and communication technology equipment	Mandrel Test	IEC-62368-1
117	ELECTRICAL- SAFETY TESTING FACILITY	Audio/video, information and communication technology equipment	Prospective touch voltage	IEC 62368-1
118	ELECTRICAL- SAFETY TESTING FACILITY	Audio/video, information and communication technology equipment	Relocation Stability	IEC-62368-1
119	ELECTRICAL- SAFETY TESTING FACILITY	Audio/video, information and communication technology equipment	Static Stability	IEC-62368-1
120	ELECTRICAL- SAFETY TESTING FACILITY	Audio/video, information and communication technology equipment	Steady State Test(Electrical Strength Test)	IEC-62368-1
121	ELECTRICAL- SAFETY TESTING FACILITY	Audio/video, information and communication technology equipment	Stress Relief Test	IEC-62368-1
122	ELECTRICAL- SAFETY TESTING FACILITY	Audio/video, information and communication technology equipment	Thermoplastic Material Test	IEC-62368-1



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123	ELECTRICAL- SAFETY TESTING FACILITY	Audio/video, information and communication technology equipment	Touch current	IEC 62368-1
124	ELECTRICAL- SAFETY TESTING FACILITY	Audio/video, information and communication technology equipment.	Maximum Operating Temperature	IEC-62368-1