



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SOCIETY FOR APPLIED MICROWAVE ELECTRONICS ENGINEERING AND RESEARCH (SAMEER)-EMC DIVISION, SECTOR 7, RAIN TREE MARG CBD BELAPUR, NAVI MUMBAI, MUMBAI, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Combination Wave Surge Test Systems: Current Amplitude	Direct Method Using Digital Storage Oscilloscope & Current Transformer	±0.25 kA to ±3 kA	12.75%
2	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Combination Wave Surge Test Systems: Voltage Amplitude	Direct Method using Digital storage Oscilloscope & HV Differential Probe	±0.5 kV to ±4 kV	12.27%
3	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Combination Wave Surge Test Systems: Voltage Front Time	Direct Method using Digital Storage Oscilloscope & HV Differential Probe	0.84 μs to 1.56 μs	14.22%
4	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Combination Wave Surge Test Systems: Voltage Pulse Width	Direct Method using Digital storage Oscilloscope & HV Differential Probe	40 μs to 60 μs	12.22%
5	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Conducted RF Test System: AM Depth (10 Hz to 13.6 GHz)	Direct Method using Spectrum Analyzer	0 % to 100 %	3.51%
6	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Conducted RF Test System: Error of Monitor Input (9 kHz to 400 MHz)	Direct Method using Signal Generator & Power Meter	-40 dBm to +13 dBm	0.6dB
7	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Conducted RF Test System: Frequency Accuracy	Direct Method using Frequency Counter	9 kHz to 400 MHz	5.9%



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8	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Conducted RF Test System: Gain (10 Hz to 400 MHz)	Direct Method using Spectrum Analyzer	null to 50 dB	0.4dB
9	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Conducted RF Test System: Harmonics Level (up to Third Harmonics) [10 Hz to 400 MHz]	Direct Method using Spectrum Analyzer	null to -90 dBc	0.2dB
10	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Conducted RF Test System: Level Accuracy (9 kHz to 400 MHz)	Direct Method using Spectrum Analyzer & Power Meter	-30 dBm to +10 dBm	0.1dB
11	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Damped Oscillatory Wave Generator: Oscillation Frequency	Direct Method using Digital Storage Oscilloscope & HV Differential Probe	90 kHz to 110 kHz	12.22%
12	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Damped Oscillatory Wave Generator: Voltage Amplitude	Direct Method using Digital Storage Oscilloscope & HV Differential Probe	±0.25 kV to ±4 kV	12.74%
13	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Damped Oscillatory Wave Generator: Voltage Decay (Ratio of Pk10 to Pk1)	Direct Method using Digital Storage Oscilloscope & HV Differential Probe	null to 0.5	12.9%
14	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Damped Oscillatory Wave Generator: Voltage Decay (Ratio of Pk5 to Pk1)	Direct Method using Digital Storage Oscilloscope & HV Differential Probe	0.5 to null	12.9%



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15	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Damped Oscillatory Wave Generator: Voltage Rise Time	Direct Method using Digital Storage Oscilloscope & HV Differential Probe	60 ns to 90 ns	12.24%
16	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Electrostatic Discharge Generator : Current at 180 ns (Contact Discharge Mode) [RC Module: 150 pF/2000 ohm]	Direct Method using Target-Attenuator-Cable Chain & Digital Storage Oscilloscope	0.55 A to 5.55 A	9.3%
17	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Electrostatic Discharge Generator : Current at 360 ns (Contact Discharge Mode) [RC Module: 150 pF/2000 ohm]	Direct Method using Target-Attenuator-Cable Chain & Digital Storage Oscilloscope	0.3 A to 3 A	9.2%
18	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Electrostatic Discharge Generator : Current at 360 ns (Contact Discharge Mode) [RC Module: 330 pF/2000 ohm]	Direct Method using Target-Attenuator-Cable Chain & Digital Storage Oscilloscope	0.3 A to 3 A	9.2%
19	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Electrostatic Discharge Generator : Current at 65 ns (Contact Discharge Mode) [RC Module: 330 pF/330 ohm]	Direct Method using Target-Attenuator-Cable Chain & Digital Storage Oscilloscope	4 A to 40 A	9.1%



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20	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Electrostatic Discharge Generator : DC Voltage (Air Discharge Mode)	Direct Method using HV Volt Meter	±2 kV to ±30 kV	2.5%
21	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Electrostatic Discharge Generator : First Peak Current (Contact Discharge Mode) [RC Module: 150 pF/2000 ohm]	Direct Method using Target-Attenuator-Cable Chain & Digital Storage Oscilloscope	7.5 A to 75 A	9%
22	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Electrostatic Discharge Generator : First Peak Current (Contact Discharge Mode) [RC Module: 150 pF/330 ohm]	Direct Method using Target-Attenuator-Cable Chain & Digital Storage Oscilloscope	7.5 A to 75 A	9%
23	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Electrostatic Discharge Generator : First Peak Current (Contact Discharge Mode) [RC Module: 330 pF/330 ohm]	Direct Method using Target-Attenuator-Cable Chain & Digital Storage Oscilloscope	7.5 A to 75 A	9%
24	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Electrostatic Discharge Generator : Rise Time (Contact Discharge Mode) [RC Module: 330 pF/2000 ohm]	Direct Method using Target-Attenuator-Cable Chain & Digital Storage Oscilloscope	0.6 ns to 1 ns	10.6%



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25	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Electrostatic Discharge Generator : Rise Time (Contact Discharge Mode) [RC Module: 330 pF/330 ohm]	Direct Method using Target-Attenuator-Cable Chain & Digital Storage Oscilloscope	0.6 ns to 1 ns	10.6%
26	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Electrostatic Discharge Generator :Current at 180 ns (Contact Discharge Mode) [RC Module: 330 pF/2000 ohm]	Direct Method using Target-Attenuator-Cable Chain & Digital Storage Oscilloscope	0.55 A to 5.55 A	9.3%
27	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Electrostatic Discharge Generator: Current at 130 ns (Contact Discharge Mode) [RC Module: 330 pF/330 ohm]	Direct Method using Target-Attenuator-Cable Chain & Digital Storage Oscilloscope	2 A to 20 A	9.2%
28	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Electrostatic Discharge Generator: Current at 30 ns (Contact Discharge Mode)	Direct Method using Target-Attenuator-Cable Chain & Digital Storage Oscilloscope	4 A to 30 A	6.8%
29	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Electrostatic Discharge Generator: Current at 30 ns (Contact Discharge Mode) [RC Module: 150 pF/330 ohm]	Direct Method using Target-Attenuator-Cable Chain & Digital Storage Oscilloscope	4 A to 40 A	9.1%



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30	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Electrostatic Discharge Generator: Current at 60 ns (Contact Discharge Mode)	Direct Method using Target-Attenuator-Cable Chain & Digital Storage Oscilloscope	2 A to 15 A	6.8%
31	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Electrostatic Discharge Generator: Current at 60 ns (Contact Discharge Mode) [RC Module: 150 pF/330 ohm]	Direct Method using Target-Attenuator-Cable Chain & Digital Storage Oscilloscope	2 A to 20 A	9.4%
32	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Electrostatic Discharge Generator: DC Voltage (Air Discharge Mode)	Direct Method using HV Volt Meter	±2 kV to ±30 kV	2.5%
33	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Electrostatic Discharge Generator: First Peak Current (Contact Discharge Mode)	Direct Method using Target-Attenuator-Cable Chain & Digital Storage Oscilloscope	±7.5 A to 56.25 A	6.8%
34	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Electrostatic Discharge Generator: First Peak Current (Contact Discharge Mode) [RC Module: 330 pF/2000 ohm]	Direct Method using Target-Attenuator-Cable Chain & Digital Storage Oscilloscope	7.5 A to 75 A	9%



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35	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Electrostatic Discharge Generator: Rise Time (Contact Discharge Mode)	Direct Method using Target-Attenuator-Cable Chain & Digital Storage Oscilloscope	0.68 ns to 0.92 ns	10.4%
36	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Electrostatic Discharge Generator: Rise Time (Contact Discharge Mode) [RC Module: 150 pF/2000 ohm]	Direct Method using Target-Attenuator-Cable Chain & Digital Storage Oscilloscope	0.6 ns to 1 ns	10.6%
37	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Electrostatic Discharge Generator: Rise Time (Contact Discharge Mode) [RC Module: 150 pF/330 ohm]	Direct Method using Target-Attenuator-Cable Chain & Digital Storage Oscilloscope	0.68 ns to 0.92 ns	10.7%
38	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	RF Amplifiers (Power Amplifier): Gain (10 Hz to 3 GHz; up to 1000 W)	Direct Method using Spectrum Analyzer & Signal Generator	null to 90 dB	1.7dB
39	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	RF Amplifiers (Power Amplifier): Harmonics Distortion (10 Hz to 13.6 GHz; up to 1000 W)	Direct Method using Spectrum Analyzer & Signal Generator	null to -90 dBc	0.6dB



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40	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	RF Amplifiers (Pre-amplifier): Gain (10 Hz to 6 GHz)	Direct Method using Spectrum Analyzer & Signal Generator	null to 90 dB	1.7dB
41	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	RF Amplifiers (Pre-amplifier): Harmonics Distortion (10 Hz to 13.6 GHz)	Direct Method using Spectrum Analyzer & Signal Generator	null to -90 dBc	0.8dB
42	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	RF Signal Generator: Amplitude Modulation (AM) Depth Mod rate: 10 Hz to 6 GHz, CF : 1kHz	Direct Method using Spectrum Analyzer	1 % to 100 %	6.71%
43	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	RF Signal Generator: Frequency Accuracy	Direct Method using Frequency Counter	9 kHz to 6 GHz	5.90%
44	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	RF Signal Generator: Harmonic Level (up to Third Harmonic) [10 Hz to 12 GHz]	Direct Method using Spectrum Analyzer	null to -90 dBc	0.3dB
45	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	RF Signal Generator: Level Accuracy (9 kHz to 6 GHz)	Direct Method using Spectrum Analyzer & Power Meter	-60 dBm to +19 dBm	0.4dB
46	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Ring Wave Generator: Decay in Voltage (Ratio of Pk2 to Pk1)	Direct Method using Digital Storage Oscilloscope & HV Differential Probe	0.4 to 1.1	12.73%



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47	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Ring Wave Generator: Decay in Voltage (Ratio of Pk3 to Pk2)	Direct Method using Digital Storage Oscilloscope & HV Differential Probe	0.4 to 0.8	12.73%
48	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Ring Wave Generator: Decay in Voltage (Ratio of Pk4 to Pk3)	Direct Method using Digital Storage Oscilloscope & HV Differential Probe	0.4 to 0.8	12.73%
49	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Ring Wave Generator: Open Circuit Voltage	Direct Method using Digital Storage Oscilloscope & HV Differential Probe	0.25 kV to 4 kV	12.74%
50	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Ring Wave Generator: Open Circuit Voltage Rise Time	Direct Method using Digital Storage Oscilloscope & HV Differential Probe	0.35 μ s to 0.65 μ s	12.30%
51	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Ring Wave Generator: Voltage Oscillation Frequency	Direct Method using Digital Storage Oscilloscope & HV Differential Probe	90 kHz to 110 kHz	12.22%
52	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Target-Attenuator-Cable Chain: DC Resistance	Direct Method using Digital Multi-meter	2.1 ohm to null	0.6%
53	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Target-Attenuator-Cable Chain: Low Frequency Transfer Impedance	Direct Method using Digital Multi-meter	0.060 ohm to 0.20 ohm	0.24%



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54	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Telecommunication Surge Test Systems: Current Amplitude	Direct Method using Digital Storage Oscilloscope & Current Transformer	±12.5 A to ±100 A	12.74%
55	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Telecommunication Surge Test Systems: Current Duration	Direct Method using Digital Storage Oscilloscope & Current Transformer	256 μs to 384 μs	12.20%
56	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Telecommunication Surge Test Systems: Current Front Time	Direct Method using Digital Storage Oscilloscope & Current Transformer	4 μs to 6 μs	12.29%
57	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Telecommunication Surge Test Systems: Voltage Amplitude	Direct Method using Digital Storage Oscilloscope & HV Differential Probe	±0.5 kV to ±4 kV	12.76%
58	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Telecommunication Surge Test Systems: Voltage Duration	Direct Method using Digital Storage Oscilloscope & HV Differential Probe	560 μs to 840 μs	12.2%
59	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Telecommunication Surge Test Systems: Voltage Front Time	Direct Method using Digital Storage Oscilloscope & HV Differential Probe	7 μs to 13 μs	14.53%
60	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Voltage Dips & Interruption: Dips/Interruption Time	Direct Method using Digital Storage Oscilloscope & HV Differential Probe	10 ms to 5 s	12.21%



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61	ELECTRO-TECHNICAL-EMI/ EMC (Measure)	Voltage Dips & Interruption: Output Voltage at No Load (Nominal Line Voltage)	Direct Method using Digital Storage Oscilloscope & HV Differential Probe	0 % to 100 %	12.76%

* CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of k = 2.