National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CSIR-CEERI, JAIPUR CAMPUS, CFC-1, MALVIYA INDUSTRIAL AREA, JAIPUR, RAJASTHAN, INDIA

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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-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz	Using 7½ Digit Multimeter by Direct Method	100 µA to 3 A	0.26 % to 0.15 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz	Using 7½ Digit Multimeter by Direct Method	3 A to 10 A	0.15 % to 0.13 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 7½ Digit Multimeter by Direct Method	100 µA to 3 A	0.26 % to 0.15 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 7½ Digit Multimeter by Direct Method	3 A to 10 A	0.15 % to 0.09 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 7½ Digit Multimeter by Direct Method	1 mV to 100 V	0.76 % to 0.03 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 7½ Digit Multimeter by Direct Method	100 V to 750 V	0.03 % to 0.04 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 7½ Digit Multimeter by Direct Method	1 mV to 100 v	0.76 % to 0.03 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 7½ Digit Multimeter by Direct Method	100 V to 750 V	0.03 % to 0.04 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1 Phase, 2 Wire AC Active Power @ 50 Hz (40 V to 600 V ,0.0125 A to 20 A , 0.5 PF Lead)	Using Multi-Product Calibrator by Direct Method	0.25 W to 6000 W	0.311 % to 0.304 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1 Phase, 2 Wire AC Active Power @ 50 Hz (40 V to 600 V, 0.0125 A to 20 A , 0.5 Lag PF)	Using Multi-Product Calibrator by Direct Method	0.250 W to 6000 W	0.311 % to 0.304 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1 Phase, 2 Wire AC Active Power @ 50 Hz (40 V to 600 V, 0.0125 A to 20 A, UPF)	Using Multi-Product Calibrator by Direct Method	0.5 W to 12000 W	0.12 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Capacitance @ 1 kHz	Using Multi-Product Calibrator by Direct Method	100 nF to 100 µF	0.41 % to 0.6 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Capacitance @ 1 kHz	Using Multi-Product Calibrator by Direct Method	500 pF to 100 nF	0.5 % to 0.41 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz	Using Multi-Product Calibrator by Direct Method	10 A to 20 A	0.13 % to 0.23 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz	Using Multi-Product Calibrator by Direct Method	3 A to 10 A	0.15 % to 0.13 %

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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz	Using Multi-Product Calibrator by Direct Method	50 µA to 3 A	0.39 % to 0.15 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz	Using Multi-Product Calibrator by Direct Method	10 A to 20 A	0.1 % to 0.2 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz	Using Multi-Product Calibrator by Direct Method	3 A to 10 A	0.15 % to 0.1 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz	Using Multi-Product Calibrator by Direct Method	50 µA to 3 A	0.42 % to 0.15 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 5 kHz	Using Multi-Product Calibrator by Direct Method	10 A to 20 A	0.33 % to 0.32 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 5 kHz	Using Multi-Product Calibrator by Direct Method	3 A to 10 A	0.2 % to 0.33 %

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22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 5 kHz	Using Multi-Product Calibrator by Direct Method	50 µA to 3 A	0.70 % to 0.20 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi-Product Calibrator by Direct Method	10 A to 20 A	0.09 % to 0.17 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi-Product Calibrator by Direct Method	3 A to 10 A	0.15 % to 0.1 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi-Product Calibrator by Direct Method	50 µA to 3 A	0.39 % to 0.15 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz (0.2 A to 10 A, 50 Turn)	Using Multi-Product Calibrator and Current Coil by Direct Method	10 A to 500 A	0.5 % to 0.99 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz (10 A to 20 A, 50 Turn)	Using Multi-Product Calibrator and Current Coil by Direct Method	500 A to 1000 A	0.99 % to 0.91 %

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28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz	Using Multi-Product Calibrator by Direct Method	1 mV to 500 V	0.94 % to 0.04 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz	Using Multi-Product Calibrator by Direct Method	500 V to 1000 V	0.04 % to 0.04 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz	Using Multi-Product Calibrator by Direct Method	1 mV to 30 V	0.85 % to 0.05 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 kHz	Using Multi-Product Calibrator by Direct Method	1 mV to 500 V	0.94 % to 0.04 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 kHz	Using Multi-Product Calibrator by Direct Method	500 V to 1000 V	0.04 % to 0.04 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 100 kHz	Using Multi-Product Calibrator by Direct Method	300 mV to 200 V	0.11 % to 0.24 %

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34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 200 kHz	Using Multi-Product Calibrator by Direct Method	1 mV to 300 mV	1.14 % to 0.26 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 200 kHz	Using Multi-Product Calibrator by Direct Method	300 mV to 3 V	0.26 % to 0.22 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multi-Product Calibrator by Direct Method	1 mV to 500 V	0.75 % to 0.04 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multi-Product Calibrator by Direct Method	500 V to 1000 V	0.04 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @100 kHz	Using Multi-Product Calibrator by Direct Method	1 mV to 300 mV	1.1 % to 0.11 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 7½ Digit Multimeter by Direct Method	1 µA to 100 mA	0.26 % to 0.01 %

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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 7½ Digit Multimeter by Direct Method	100 mA to 10 A	0.01 % to 0.034 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 7½ Digit Multimeter by Direct Method	100 mV to 100 V	0.004 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 7½ Digit Multimeter by Direct Method	100 kohm to 100 Mohm	0.005 % to 0.07 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 7½ Digit Multimeter by Direct Method	100 Mohm to 1000 Mohm	0.07 % to 0.5 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 7½ Digit Multimeter by Direct Method	1 ohm to 10 kohm	0.13 % to 0.005 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 7½ Digit Multimeter by Direct Method	10 kohm to 100 kohm	0.005 %

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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	1 µA to 100 mA	0.65 % to 0.012 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	10 A to 20 A	0.013 % to 0.12 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	100 mA to 10 A	0.012 % to 0.013 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current (10 A to 20 A , 50 Turn)	Using Multi-Product Calibrator and Current Coil by Direct Method	500 A to 1000 A	0.99 % to 0.91 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current(0.2 A to 10 A, 50 Turn)	Using Multi-Product Calibrator and Current Coil by Direct Method	10 A to 500 A	0.5 % to 0.99 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (1.5 V to 1000 V, 0.1 A to 20 A)	Using Multi-Product Calibration by Direct Method	150 mW to 20000 W	0.5 % to 0.2 %

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52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi-Product Calibrator by Direct Method	1 mV to 100 V	0.21 % to 0.004 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi-Product Calibrator by Direct Method	100 V to 1000 V	0.21 % to 0.002 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Multi-Product Calibrator by Direct Method	100 kohm to 100 Mohm	0.007 % to 0.07 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Multi-Product Calibrator by Direct Method	100 Mohm to 1000 Mohm	0.07 % to 0.6 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Multi-Product Calibrator by Direct Method	1 ohm to 100 kohm	0.13 % to 0.007 %
57	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope / CRO (DC Signal @ Impedance 1 Mohm)	Using Multi-Product Calibrator by Direct Method	1 mV to 5 V	0.79 % to 0.21 %

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58	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope / CRO (DC Signal @ Impedance 1 Mohm)	Using Multi-Product Calibrator by Direct Method	5 V to 50 V	0.21 % to 0.12 %
59	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope / CRO (DC Signal @ Impedance 50 ohm)	Using Multi-Product Calibrator by Direct Method	1 mV to 5 V	0.66 % to 0.27 %
60	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope / CRO (Square Signal @ 50 Hz, Impedance 1 Mohm)	Using Multi-Product Calibrator by Direct Method	2 mVp-p to 80 Vp-p	0.55 % to 0.14 %
61	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope / CRO (Square Signal @ 50 Hz, Impedance 50 ohm)	Using Multi-Product Calibrator by Direct Method	2 mVp-p to 5 Vp-p	0.57 % to 0.19 %
62	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope / CRO (Time Marker)	Using Multiproduct Calibrator by Direct Method	10 ns to 1 sec	0.86 % to 0.58 %
63	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope / CRO (Wave Generator @ 1 kHz, Sine Waveform, Impedance 1 MOhm)	Using Multi-Product Calibrator by Direct Method	2 mVp-p to 50 V	0.57 % to 0.24 %

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64	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope / CRO (Wave Generator @ 1 kHz, square wave, Impedance 1 Mohm)	Using Multi-Product Calibrator by Direct Method	2 mVp-p to 50 Vp-p	0.70 % to 0.19 %
65	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope / CRO (Wave Generator @ 1 kHz, Triangular Wave-form, Impedance 1 Mohm)	Using Multi-Product Calibrator by Direct Method	2 mVp-p to 50 Vp-p	0.61 % to 0.24 %
66	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope / CRO @ 50 kHz (Z- 50 ohm)	Using Multi-Product Calibrator by Direct Method	50 kHz to 500 MHz	1.2 dB
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT-100)	Using 7½ Digit Multimeter by Direct Method	(-)200 °C to 800 °C	0.27 °C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - E Type	Using 7½ Digit Multimeter by Direct Method	0 °C to 1000 °C	0.72 °C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - J Type	Using 7½ Digit Multimeter by Direct Method	(-)200 °C to 1200 °C	0.48 °C

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70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - K Type	Using 7½ Digit Multimeter by Direct Method	(-)200 °C to 1200 °C	0.57 °C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - N Type	Using 7½ Digit Multimeter by Direct Method	(-)200 °C to 1300 °C	0.48 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - R Type	Using 7½ Digit Multimeter by Direct Method	2 °C to 1750 °C	0.77 °C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - T Type	Using 7½ Digit Multimeter by Direct Method	(-)200 °C to 400 °C	0.59 °C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100)	Using Multi-Product Calibrator by Direct Method	(-)200 °C to 800 °C	0.45 °C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E Type	Using Multi-Product Calibrator by Direct Method	(-)250 °C to 1000 °C	0.58 °C

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76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Multi-Product Calibrator by Direct Method	(-)200 °C to 1200 °C	0.33 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Multi-Product Calibrator by Direct Method	(-)200 °C to 1370 °C	0.48 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - N Type	Using Multi-Product Calibrator by Direct Method	(-)200 °C to 1300 °C	0.27 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Multi-Product Calibrator by Direct Method	0 °C to 1750 °C	0.67 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Multi-Product Calibrator by Direct Method	0 °C to 1750 °C	0.79 °C
81	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency @ 3 V	Using 7½ Digit Multimeter by Direct Method	10 Hz to 300 kHz	0.06 % to 0.02 %

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82	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency @ 3 V	Using Multi-Product Calibrator by Direct Method	10 Hz to 300 kHz	0.06 % to 0.02 %

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