SCOPE OF ACCREDITATION

Laboratory Name : SCHOOL OF ELECTRICAL ENGINEERING CALIBRATION LABORATORY, VELLORE INSTITUTE OF TECHNOLOGY, VELLORE CAMPUS TECHNOLOGY TOWER BUILDING, FOURTH FLOOR, ROOM NO. 401, KATPADI, THIRUVALAM ROAD, VELLORE, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 05/12/2024 to 04/12/2028 **Last Amended on** -

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 @ 45 Hz & 1 kHz	Using 6½ Digital Multimeter by direct method	329 µA to 329 mA	0.95 % to 0.65 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz & 1 kHz	Using 6½ Digital Multimeter by direct method	30 µA to 329 µA	3 % to 0.95 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz & 1 kHz	Using 6½ Digital Multimeter by direct method	329 mA to 10 A	0.65 % to 0.1 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz & 1 kHz	Using 6½ Digital Multimeter by direct method	1 mV to 300 mV	2.69 % to 2.60 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz & 1 kHz	Using 6½ Digital Multimeter by direct method	300 mV to 1000 V	2.60 % to 0.07 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz & 1 kHz	Using Multiproduct calibrator by direct method	30 µA to 329 µA	3 % to 0.95 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz & 1 kHz	Using Multiproduct calibrator by direct method	329 µA to 329 mA	0.95 % to 0.65 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz & 1kHz	Using Multiproduct calibrator by direct method	329 mA to 20 A	0.65 % to 0.21 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz & 1 kHz	Using Multiproduct calibrator by direct method	1 mV to 300 mV	6.28 % to 6.96 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz & 1 kHz	Using Multiproduct calibrator by direct method	300 mV to 1000 V	6.96 % to 0.08 %
11	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by direct method	1 mA to 329 mA	0.35 % to 0.14 %
12	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by direct method	1.09 A to 10 A	0.07 % to 0.002 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by direct method	10 µA to 329 µA	2.4 % to 0.45 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by direct method	1 V to 1000 V	0.39 % to 0.008 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by direct method	100 mV to 329 mV	0.01 % to 0.02 %

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16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 wire	Using 6½ Digital Multimeter by direct method	10 ohm to 300 ohm	0.01 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 wire	Using 6½ Digital Multimeter by direct method	300 kohm to 1000 Mohm	0.015 % to 2.27 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 wire	Using 6½ Digital Multimeter by direct method	300 ohm to 300 kohm	0.01 % to 0.015 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Multiproduct calibrator by direct method	1 mA to 329 mA	0.35 % to 1.90 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Multiproduct calibrator by direct method	1.09 A to 20 A	0.05 % to 0.12 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Multiproduct calibrator by direct method	10 µA to 329 µA	2.4 % to 1.92 %

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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct calibrator by direct method	1 mV to 329 mV	5.78 % to 0.18 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct calibrator by direct method	1 V to 1000 V	0.06 % to 0.06 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 wire	Using Multiproduct calibrator by direct method	1 ohm to 300 ohm	5.25 % to 0.19 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 wire	Multiproduct calibrator by direct method	300 kohm to 1090 Mohm	0.02 % to 1.72 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 wire	Using Multiproduct calibrator by direct method	300 ohm to 300 kohm	0.19 % to 0.02 %
27	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency @ 3 V	Using 6½ Digital Multimeter by direct method	1 kHz to 100 kHz	0.73 % to 0.33 %

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28	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency @ 3 V	Using 6½ Digital Multimeter by direct method	10 Hz to 120 Hz	0.06 % to 0.73 %
29	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency @ 3 V	Multiproduct calibrator by direct method	1 Hz to 120 Hz	3.1 % to 0.73 %
30	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency @ 3 V	Multiproduct calibrator by direct method	120 Hz to 100 kHz	0.73 % to 0.33 %
31	THERMAL-TEMPERATURE	RTD / Thermocouple with or without indicator / Recorder / Controller. Digital Thermometer, Temperature Gauge, Switch, Transducer Transmitter with sensor.	Using Precision RTD Temperature Probe with Indicator, 6½ Digital Multimeter, Dry block calibrator by Comparison method	(-)25 ° C to 150 ° C	0.28 ° C

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