National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES & TECHNOLOGY, BIOMEDICAL TECHNOLOGY WING, SATELMOND PALACE CAMPUS, THIRUVANANTHAPURAM, KERALA, 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) (Source)	AC Current at 50 Hz	Using Multiproduct Calibrator by Direct method	1 A to 5 A	0.0015 A to 0.02 A
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current at 50 Hz	Using Multiproduct Calibrator by Direct method	100 mA to 1 A	0.2 mA to 0.0015 A
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current at 50Hz	Using Multiproduct Calibrator by Direct method	33 mA to 100 mA	0.04 mA to 0.2 mA
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage at 50 Hz	Using Multiproduct Calibrator by Direct method	100 V to 600 V	0.09 V to 0.43 V
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage at 50 Hz	Using Multiproduct Calibrator by Direct method	330 mV to 4 V	0.21 mV to 0.007 V

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6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage at 50 Hz	Using Multiproduct Calibrator by Direct method	4 V to 100 V	0.007 V to 0.09 V
7	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter by Direct method	1 A to 5 A	1.5 mA to 12.9 mA
8	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter by Direct method	10 mA to 100 mA	13.6 µA to 113.2 µA
9	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter by Direct method	100 mA to 1 A	0.12 mA to 1.5 mA
10	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using Digital Multimeter by Direct method	1 kohm to 100 kohm	0.51 Ohm to 50.6 Ohm
11	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using Digital Multimeter by Direct method	10 Ohm to 100 Ohm	0.025 Ohm to 0.05 Ohm

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12	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using Digital Multimeter by Direct method	100 kohm to 1 Mohm	50.6 Ohm to 0.69 kohm
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using Digital Multimeter by Direct method	100 Ohm to 400 Ohm	0.05 Ohm to 0.44 Ohm
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using Digital Multimeter by Direct method	400 Ohm to 1 kohm	0.44 Ohm to 0.51 Ohm
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter by Direct method	20 mV to 400 mV	0.013 mV to 0.16 mV
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter by Direct method	4 V to 40 V	1.7 mV to 15 mV
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter by Direct method	40 V to 400 V	15 mV to 105 mV

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18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter by Direct method	400 mV to 4 V	0.16 mV to 1.7 mV
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	1 A to 10 A	0.001 A to 0.01 A
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	10 mA to 100 mA	0.002 mA to 0.031 mA
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	100 mA to 1 A	0.031 mA to 0.001 A
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Multiproduct Calibrator by Direct method	1 kohm to 100 kohm	0.13 Ohm to 13 Ohm
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Multiproduct Calibrator by Direct method	10 Ohm to 400 Ohm	0.013 Ohm to 0.07 Ohm

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24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Multiproduct Calibrator by Direct method	100 kohm to 1 Mohm	13 Ohm to 190 Ohm
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Multiproduct Calibrator by Direct method	400 Ohm to 1 kohm	0.07 Ohm to 0.13 Ohm
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	20 mV to 400 mV	0.007 mV to 0.04 mV
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	4 V to 40 V	0.26 mV to 3.3 mV
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	40 V to 400 V	3.3 mV to 25 mV
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	400 mV to 4 V	0.04 mV to 0.26 mV

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30	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Digital Multimeter by Direct method	1 kHz to 5 kHz	0.22 Hz to 1.5 Hz
31	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Digital Multimeter by Direct method	5 kHz to 50 kHz	1.5 Hz to 14 Hz
32	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Digital Multimeter by Direct method	50 Hz to 1 kHz	0.32 Hz to 0.22 Hz
33	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct method	5 kHz to 50 kHz	0.1 Hz to 5.9 Hz
34	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct method	50 Hz to 5 kHz	0.013 Hz to 0.1 Hz
35	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct method	50 kHz to 100 kHz	5.9 Hz to 58.6 Hz

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36	MECHANICAL-VOLUME	Micropipettes	Using weighing balance of readability: 0.01 mg and distilled water by Gravimetric method based on ISO 8655	>1 ml to 5 ml	2µl
37	MECHANICAL-VOLUME	Micropipettes	Using weighing balance of readability: 0.01 mg and distilled water by Gravimetric method based on ISO 8655	>100 µl to 200 µl	0.22µl
38	MECHANICAL-VOLUME	Micropipettes	Using weighing balance of readability: 0.01 mg and distilled water by Gravimetric method based on ISO 8655	>200 µl to 1000 µl	1.44µl
39	MECHANICAL-VOLUME	Micropipettes	Using weighing balance of readability: 0.01 mg and distilled water by Gravimetric method based on ISO 8655	10 µl to 100 µl	0.22µl

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40	MECHANICAL-VOLUME	Volume Glassware, Burette, Pipettes, Measuring Cylinder, Standard Flasks	Using weighing balance of readability: 0.1 mg and distilled water	>100 ml to 500 ml	0.20ml
41	MECHANICAL-VOLUME	Volume Glassware, Burette, Pipettes, Measuring Cylinder, Standard Flasks, venous blood, hypodermic syringes (for non medical purpose)	Using weighing balance of readability: 0.1 mg and distilled water	>10 ml to 20 ml	15µl
42	MECHANICAL-VOLUME	Volume Glassware, Burette, Pipettes, Measuring Cylinder, Standard Flasks, venous blood, hypodermic syringes (for non medical purpose)	Using weighing balance of readability: 0.1 mg and distilled water.	>20 ml to 100 ml	21µl
43	MECHANICAL-VOLUME	Volume Glassware, Burette, Pipettes, Measuring Cylinder, Standard Flasks, venous blood, hypodermic syringes (for non medical purpose)	Using weighing balance of readability: 0.1 mg and distilled water	1 ml to 10 ml	5µl

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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)(±)
44	MECHANICAL-WEIGHTS	Weights:M1 Class weights and coarser	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111	1 g	0.07mg
45	MECHANICAL-WEIGHTS	Weights:M1 Class weights and coarser	Using E2 class standard weights and weighing Balance of readability: 0.01g by ABA method as per OIML R-111	1 kg	13.5mg
46	MECHANICAL-WEIGHTS	Weights:M1 Class weights and coarser	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111	1 mg	0.06mg
47	MECHANICAL-WEIGHTS	Weights:M1 Class weights and coarser	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111	10 g	0.07mg

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48	MECHANICAL-WEIGHTS	Weights:M1 Class weights and coarser	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111	10 mg	0.06mg
49	MECHANICAL-WEIGHTS	Weights:M1 Class weights and coarser	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111	100 g	0.09mg
50	MECHANICAL-WEIGHTS	Weights:M1 Class weights and coarser	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111	100 mg	0.06mg
51	MECHANICAL-WEIGHTS	Weights:M1 Class weights and coarser	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111	2 g	0.07mg

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52	MECHANICAL-WEIGHTS	Weights:M1 Class weights and coarser	Using E2 class standard weights and weighing Balance of readability: 0.01g by ABA method as per OIML R-111	2 kg	14.5mg
53	MECHANICAL-WEIGHTS	Weights:M1 Class weights and coarser	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111	2 mg	0.06mg
54	MECHANICAL-WEIGHTS	Weights:M1 Class weights and coarser	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111	20 g	0.07mg
55	MECHANICAL-WEIGHTS	Weights:M1 Class weights and coarser	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111	20 mg	0.06mg

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56	MECHANICAL-WEIGHTS	Weights:M1 Class weights and coarser	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111	200 g	0.12mg
57	MECHANICAL-WEIGHTS	Weights:M1 Class weights and coarser	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111	200 mg	0.06mg
58	MECHANICAL-WEIGHTS	Weights:M1 Class weights and coarser	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111	5 g	0.07mg
59	MECHANICAL-WEIGHTS	Weights:M1 Class weights and coarser	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111	5 mg	0.06mg

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60	MECHANICAL-WEIGHTS	Weights:M1 Class weights and coarser	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111	50 g	0.08mg
61	MECHANICAL-WEIGHTS	Weights:M1 Class weights and coarser	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111	50 mg	0.06mg
62	MECHANICAL-WEIGHTS	Weights:M1 Class weights and coarser	Using E2 class standard weights and weighing Balance of readability: 0.01g by ABA method as per OIML R-111	500 g	13.5mg
63	MECHANICAL-WEIGHTS	Weights:M1 Class weights and coarser	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111	500 mg	0.06mg

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64	THERMAL-SPECIFIC HEAT & HUMIDITY	RH meters and Thermo hygrometer	Using Thermo hygrometer and salt bath as per ASTM E104 by Comparison method	53 %rh	2%rh
65	THERMAL-SPECIFIC HEAT & HUMIDITY	RH meters and Thermo hygrometers	Using Thermo-hygrometer and salt bath as per ASTM E104 by Comparison method	45 %rh	2%rh
66	THERMAL-SPECIFIC HEAT & HUMIDITY	RH meters and Thermo hygrometers	Using Thermo hygrometer and salt bath as per ASTM E104 by Comparison method	75 %rh	2%rh
67	THERMAL-SPECIFIC HEAT & HUMIDITY	RH meters and Thermo hygrometers	Using Thermo-hygrometer and salt bath as per ASTM E104 by Comparison method	83 %rh	2%rh
68	THERMAL-TEMPERATURE	Liquid in Glass Thermometers	Using liquid bath and Secondary Precision Resistance Thermometers with Indicator by Comparison method	-20 °C to 200 °C	0.3°C

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69	THERMAL-TEMPERATURE	Thermocouple, RTD, Thermistors With Indicator, Temperature Gauges	Using liquid bath, dry block Calibrator and Secondary Precision Resistance Thermometers with Indicator by Comparison method	-20 °C to 200 °C	0.3°C

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Site Facility					
1	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance Class I & Coarser Readability 0.01 mg	Using E2 Class Standard Weights by Comparison method as per OIML R 76-1	1 mg to 1 g	0.06mg
2	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance Class I & Coarser Readability 0.1 mg	Using E2 Class Standard Weights by Comparison method as per OIML R 76-1	10 mg to 500 g	1.07mg
3	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance Class II & Coarser Readability 1 mg	Using E2 Class Standard Weights by Comparison method as per OIML R 76-1	200 mg to 500 g	1.07mg
4	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance Class II & Coarser Readability: 10 mg	Using E2 Class Standard Weights by Comparison method as per OIML R 76-1	100 g to 2 kg	0.65g
5	THERMAL-TEMPERATURE	Liquid in Glass Thermometers	Using liquid bath and Secondary Precision Resistance Thermometers with Indicator by Comparison method	-20 °C to 200 °C	0.3°C
6	THERMAL-TEMPERATURE	Ovens,Baths	Using RTD with Data Acquisition system as per ASTM E 145 by Comparison method	-20 °C to 200 °C	2.0°C

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7	THERMAL-TEMPERATURE	Thermocouple, RTD, Thermistors With Indicator, Temperature Gauges	Using liquid bath, dry block Calibrator and Secondary Precision Resistance Thermometers with Indicator by Comparison method	-20 °C to 200 °C	0.3°C

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