



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, POOJAPPURA, THIRUVANANTHAPURAM, KERALA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2574

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Validity 14/02/2025 to 13/02/2029

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	MECHANICAL-VOLUME	Burette, Pipette, Measuring Cylinder, Standard Flask	Using Weighing Balance of Readability: 0.1 mg and Distilled Water as per ISO 4787 : 2021	> 10 ml to 20 ml	15 µl
2	MECHANICAL-VOLUME	Burette, Pipette, Measuring Cylinder, Standard Flask	Using Weighing Balance of Readability: 0.1 mg and Distilled Water as per ISO 4787 : 2021	> 20 ml to 100 ml	21 µl
3	MECHANICAL-VOLUME	Burette, Pipette, Measuring Cylinder, Standard Flask	Using Weighing Balance of Readability: 0.1 mg and Distilled Water as per ISO 4787 : 2021	1 ml to 10 ml	5.78 µl
4	MECHANICAL-VOLUME	Burette, Pipettes, Measuring Cylinder, Standard Flask	Using Weighing Balance of Readability: 0.1 mg and Distilled Water as per ISO 4787 : 2021	> 100 ml to 500 ml	0.2 ml
5	MECHANICAL-VOLUME	Micropipette	Using Weighing Balance of Readability: 0.01 mg and Distilled Water by Gravimetric Method based on ISO 8655 : 2022	> 1 ml to 5 ml	2.89 µl



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6	MECHANICAL-VOLUME	Micropipette	Using Weighing Balance of Readability: 0.01 mg and Distilled Water by Gravimetric Method based on ISO 8655 : 2022	> 100 µl to 200 µl	0.27 µl
7	MECHANICAL-VOLUME	Micropipette	Using Weighing Balance of Readability: 0.01 mg and Distilled Water by Gravimetric Method based on ISO 8655 : 2022	> 200 µl to 1000 µl	1.44 µl
8	MECHANICAL-VOLUME	Micropipette	Using Weighing Balance of Readability: 0.01 mg and Distilled Water by Gravimetric Method based on ISO 8655 : 2022	20 µl to 100 µl	0.23 µl
9	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using E2 Class Standard Weights and Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111 - 1	1 g	0.07 mg



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10	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using E2 Class Standard Weights and Weighing Balance (Readability: 0.01 g) by Substitution Method (ABA Cycle) as per OIML R 111 - 1	1 kg	13.5 mg
11	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using E2 Class Standard Weights and Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111 - 1	1 mg	0.06 mg
12	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using E2 Class Standard Weights and Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111 - 1	10 g	0.07 mg
13	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using E2 Class Standard Weights and Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111 - 1	10 mg	0.06 mg



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14	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using E2 Class Standard Weights and Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111 - 1	100 g	0.09 mg
15	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using E2 Class Standard Weights and Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111 - 1	100 mg	0.06 mg
16	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using E2 Class Standard Weights and Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111 - 1	2 g	0.07 mg
17	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using E2 Class Standard Weights and Weighing Balance (Readability: 0.01 g) by Substitution Method (ABA Cycle) as per OIML R 111 - 1	2 kg	14.5 mg



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18	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using E2 Class Standard Weights and Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111 - 1	2 mg	0.06 mg
19	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using E2 Class Standard Weights and Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111 - 1	20 g	0.07 mg
20	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using E2 Class Standard Weights and Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111 - 1	20 mg	0.06 mg
21	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using E2 Class Standard Weights and Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111 - 1	200 g	0.29 mg



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22	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using E2 Class Standard Weights and Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111 - 1	200 mg	0.06 mg
23	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using E2 Class Standard Weights and Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111 - 1	5 g	0.07 mg
24	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using E2 Class Standard Weights and Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111 - 1	5 mg	0.06 mg
25	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using E2 Class Standard Weights and Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111 - 1	50 g	0.12 mg



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26	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using E2 Class Standard Weights and Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111 - 1	50 mg	0.06 mg
27	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using E2 Class Standard Weights and Weighing Balance (Readability: 0.1 mg) by Substitution Method (ABA Cycle) as per OIML R 111 - 1	500 g	8 mg
28	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using E2 Class Standard Weights and Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111 - 1	500 mg	0.06 mg
29	THERMAL-SPECIFIC HEAT & HUMIDITY	RH Meter, Thermo Hygrometer	Using Thermo Hygrometer and Salt Bath by Comparison Method	45 % rh @ 25 °C	2 % rh
30	THERMAL-SPECIFIC HEAT & HUMIDITY	RH Meter, Thermo Hygrometer	Using Thermo Hygrometer and Salt Bath by Comparison Method	53 % rh @ 25 °C	2 % rh



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31	THERMAL-SPECIFIC HEAT & HUMIDITY	RH Meter, Thermo Hygrometer	Using Thermo Hygrometer and Salt Bath by Comparison Method	75 % rh @ 25 °C	2 % rh
32	THERMAL-SPECIFIC HEAT & HUMIDITY	RH Meter, Thermo Hygrometer	Using Thermo Hygrometer and Salt Bath by Comparison Method	83 % rh @ 25 °C	2 % rh
33	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using Secondary Precision Resistance Thermometer with Indicator and Liquid Bath by Comparison Method	(-) 20 °C to 200 °C	0.58 °C
34	THERMAL-TEMPERATURE	Thermocouple / RTD with Indicator, Thermistor with Indicator, Temperature Gauge	Using SPRT with Indicator and Liquid Bath by Comparison Method	(-) 20 °C to 200 °C	0.3 °C



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Site Facility					
1	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Accuracy Class - I, Readability 0.01 mg & Coarser	Using E1 Class Standard Weights by Comparison Method as per OIML R 76 - 1	1 mg to 100 g	0.15 mg
2	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Accuracy Class - I, Readability 0.1 mg & Coarser	Using E1 Class Standard Weights by Comparison Method as per OIML R 76 - 1	1 mg to 500 g	1.5 mg
3	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Accuracy Class - II, Readability 1 mg & Coarser	Using E2 Class Standard Weights by Comparison Method as per OIML R 76 - 1	1 g to 2000 g	25 mg
4	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using Secondary Precision Resistance Thermometer with Indicator and Liquid Bath by Comparison Method	(-) 20 °C to 200 °C	0.58 °C
5	THERMAL-TEMPERATURE	Oven, Bath - Multi Position Calibration	Using Data Acquisition System with RTD Sensor (minimum 9 sensors) by Comparison Method	(-) 20 °C to 200 °C	2 °C
6	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Oven, Bath - Single Position Calibration	Using RTD Sensor with Data Acquisition system by Comparison Method	(-) 20 °C to 200 °C	2 °C
7	THERMAL-TEMPERATURE	Thermocouple / RTD with Indicator, Thermistor with Indicator, Temperature Gauge	Using SPRT with Indicator and Liquid Bath by Comparison Method	(-) 20 °C to 200 °C	0.3 °C



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

