



**National Accreditation Board for
Testing and Calibration Laboratories**

CERTIFICATE OF ACCREDITATION

**SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL
SCIENCES & TECHNOLOGY, BIOMEDICAL TECHNOLOGY
WING**

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

SATELMOND PALACE CAMPUS, THIRUVANANTHAPURAM, KERALA, INDIA

in the field of

CALIBRATION

Certificate Number: CC-2574

Issue Date: 14/02/2020

Valid Until:

13/02/2022

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL



**N. Venkateswaran
Chief Executive Officer**



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES & TECHNOLOGY,
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Accreditation Standard ISO/IEC 17025:2017

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Validity 14/02/2020 to 13/02/2022 Last Amended on -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrument	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)	Calibration or Measurement Method or procedure
Permanent Facility					
1	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage (50 Hz)	100 V to 600 V	584mV to 624mV	Using Multiproduct Calibrator by Direct Method
2	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage (50Hz)	0.330 V to 4 V	1.2mV to 11.2mV	Using Multiproduct Calibrator by Direct Method
3	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage (50Hz)	4 V to 100 V	11.2mV to 584mV	Using Multiproduct Calibrator by Direct Method
4	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	10 mA to 16 mA	0.58mA	Using Digital Multimeter by Direct Method
5	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	1 V to 10 V	5.8mV to 6.8mV	Using Documenting Process calibrator Model Fluke 743 B by Direct Method
6	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	100 mV to 1 V	0.90mV to 5.8mV	Using Process calibrator Fluke 743 B by Direct Method



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7	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	20 mV to 100 mV	0.058mV to 0.90mV	Using Process calibrator Fluke 743 B by Direct Method
8	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	1 A to 10 A	0.9mA to 11mA	using Multiproduct Calibrator by Direct Method
9	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	10 mA to 500 mA	0.58mA to 0.7mA	Using Multiproduct Calibrator by Direct method.
10	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	500 mA to 1 A	0.7mA to 0.9mA	Using Multiproduct Calibrator by Direct Method
11	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	1 kohm to 100 kohm	0.702ohm to 0.08kohm	Using Multiproduct Calibrator by Direct Method
12	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	1 Mohm to 40 Mohm	0.8kohm to 30kohm	Using Multiproduct Calibrator by Direct Method
13	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	10 ohm to 400 ohm	0.058ohm to 0.578ohm	Using Multiproduct Calibrator by Direct Method
14	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	100 kohm to 1 Mohm	0.08kohm to 0.8kohm	Using Multiproduct Calibrator by Direct Method
15	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	400 ohm to 1 kohm	0.578ohm to 0.702ohm	Using Multiproduct Calibrator by Direct Method



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16	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	20 mV to 400 mV	0.6mV	Using Multiproduct Calibrator, by Direct Method
17	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	4 V to 40 V	1mV to 8mV	Using Multi-Product calibrator by Direct Method
18	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	40 V to 400 V	8mV to 80mV	Using multiproduct Calibrator, by Direct Method
19	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	400 mV to 4 V	0.6mV to 1mV	Using Multiproduct Calibrator by Direct Method
20	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	1 kHz to 50 kHz	5.80Hz to 58Hz	Using Process calibrator Fluke 743 B by Direct Method
21	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	100 Hz to 1 kHz	0.58Hz to 5.80Hz	Using Process calibrator Fluke 743 B by Direct Method
22	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	50 Hz to 100 Hz	0.58Hz	Using Process calibrator Fluke 743 B by Direct Method
23	ELECTRO-TECHNICAL- TIME & FREQUENCY (Source)	Frequency	5 kHz to 50 kHz	2Hz to 24.5Hz	Using Multiproduct Calibraor by Direct Method



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24	ELECTRO-TECHNICAL- TIME & FREQUENCY (Source)	Frequency	50 Hz to 5 kHz	0.06Hz to 2Hz	Using Multiproduct Calibrator by Direct Method
25	ELECTRO-TECHNICAL- TIME & FREQUENCY (Source)	Frequency	50 kHz to 100 kHz	24.5Hz to 80Hz	Using Multiproduct Calibrator by Direct Method
26	MECHANICAL-VOLUME	Micropipettes	>1 ml to 5 ml	2.04µl	Using weighing balance of readability: 0.01 mg and distilled water. Gravimetric method based on ISO 8655
27	MECHANICAL-VOLUME	Micropipettes	>200 µl to 1000 µl	0.5µl	Using weighing balance of readability: 0.01 mg and distilled water. Gravimetric method based on ISO 8655
28	MECHANICAL-VOLUME	Micropipettes	10 µl to 100 µl	0.22µl	Using weighing balance of readability: 0.01 mg and distilled water. Gravimetric method based on ISO 8655



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29	MECHANICAL-VOLUME	Micropipettes	100 µl to 200 µl	0.22µl	Using weighing balance of readability: 0.01 mg and distilled water. Gravimetric method based on ISO 8655
30	MECHANICAL-VOLUME	Volume Glassware, Burette, Pipettes, Measuring Cylinder, Standard Flasks	>10 ml to 20 ml	25µl	Using weighing balance of readability: 0.1 mg and distilled water.
31	MECHANICAL-VOLUME	Volume Glassware, Burette, Pipettes, Measuring Cylinder, Standard Flasks	>20 ml to 100 ml	50µl	Using weighing balance of readability: 0.1 mg and distilled water.
32	MECHANICAL-VOLUME	Volume Glassware, Burette, Pipettes, Measuring Cylinder, Standard Flasks	1 ml to 10 ml	5µl	Using weighing balance of readability: 0.01 mg and distilled water.
33	MECHANICAL-VOLUME	Volume Glassware, Burette, Pipettes, Measuring Cylinder, Standard Flasks.	>100 ml to 500 ml	0.31ml	Using weighing balance of readability: 0.1 mg and distilled water.
34	MECHANICAL-WEIGHTS	Mass Weights (F2 Class weights and coarser)	1 g	0.07mg	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111



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35	MECHANICAL-WEIGHTS	Mass Weights (F2 Class weights and coarser)	1 mg	0.06mg	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111
36	MECHANICAL-WEIGHTS	Mass Weights (F2 Class weights and coarser)	10 g	0.07mg	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111
37	MECHANICAL-WEIGHTS	Mass Weights (F2 Class weights and coarser)	10 mg	0.06mg	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111
38	MECHANICAL-WEIGHTS	Mass Weights (F2 Class weights and coarser)	100 g	0.09mg	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111



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39	MECHANICAL-WEIGHTS	Mass Weights (F2 Class weights and coarser)	100 mg	0.07mg	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111
40	MECHANICAL-WEIGHTS	Mass Weights (F2 Class weights and coarser)	2 g	0.07mg	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111
41	MECHANICAL-WEIGHTS	Mass Weights (F2 Class weights and coarser)	2 mg	0.06mg	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111
42	MECHANICAL-WEIGHTS	Mass Weights (F2 Class weights and coarser)	20 g	0.07mg	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111



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43	MECHANICAL-WEIGHTS	Mass Weights (F2 Class weights and coarser)	20 mg	0.06mg	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111
44	MECHANICAL-WEIGHTS	Mass Weights (F2 Class weights and coarser)	200 g	0.12mg	Using E2 class standard weights and weighing Balance of readability: 0.1 mg by ABA method as per OIML R-111
45	MECHANICAL-WEIGHTS	Mass Weights (F2 Class weights and coarser)	200 mg	0.07mg	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111
46	MECHANICAL-WEIGHTS	Mass Weights (F2 Class weights and coarser)	5 g	0.07mg	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111



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47	MECHANICAL-WEIGHTS	Mass Weights (F2 Class weights and coarser)	5 mg	0.06mg	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111
48	MECHANICAL-WEIGHTS	Mass Weights (F2 Class weights and coarser)	50 g	0.08mg	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111
49	MECHANICAL-WEIGHTS	Mass Weights (F2 Class weights and coarser)	50 mg	0.06mg	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111
50	MECHANICAL-WEIGHTS	Mass Weights (F2 Class weights and coarser)	500 mg	0.07mg	Using E2 class standard weights and weighing Balance of readability: 0.01 mg by ABA method as per OIML R-111



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51	MECHANICAL-WEIGHTS	Mass Weights (M1 Class weights and coarser)	1 kg	13.5mg	Using E2 class standard weights and weighing Balance of readability: 10 mg by ABA method as per OIML R-111
52	MECHANICAL-WEIGHTS	Mass Weights (M1 Class weights and coarser)	2 kg	13.5mg	Using E2 class standard weights and weighing Balance of readability: 10 mg by ABA method as per OIML R-111
53	MECHANICAL-WEIGHTS	Mass Weights (M1 Class weights and coarser)	500 g	13.5mg	Using E2 class standard weights and weighing Balance of readability: 10 mg ABA method as per OIML R-111
54	THERMAL- SPECIFIC HEAT & HUMIDITY	RH meters and Thermohygrometers	45% RH	2.4%RH	Using Thermo-hygrometer and salt bath as per ASTM E104 by comparison method.
55	THERMAL- SPECIFIC HEAT & HUMIDITY	RH meters and Thermohygrometers	53% RH	2%RH	Using Thermo-hygrometer and salt bath as per ASTM E104 by comparison method.



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56	THERMAL- SPECIFIC HEAT & HUMIDITY	RH meters and Thermohygrometers	75% RH	2% RH	Using Thermohygrometer and standard salt bath as per ASTM E104 by comparison method.
57	THERMAL- SPECIFIC HEAT & HUMIDITY	RH meters and Thermohygrometers	83% RH	2%RH	Using Thermo-hygrometer and salt bath as per ASTM E104 by comparison method.
58	THERMAL- TEMPERATURE	Thermal & Temperature, Liquid in Glass Thermometers, Sensors (TC, RTD, Thermistors) With Indicator, Temperature Gauges	>120 °C to 200 °C	0.37°C	Using Secondary PRT'S with readout (Fluke 1523, Hart Scientific - 1529, Calibration liquid Baths, Dry Bath)
59	THERMAL- TEMPERATURE	Thermal & Temperature, Liquid in Glass Thermometers, Sensors (TC, RTD, Thermistors) With Indicator, Temperature Gauges and hygrometer.	-20 °C to 120 °C	0.3°C	Using Secondary PRT'S with readout (Fluke 1523, Hart Scientific - 1529, Calibration liquid Baths, Dry Bath)and thermal chamber by comparison method.



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Site Facility					
1	MECHANICAL-ACCELERATION AND SPEED	Speed - RPM, centrifuge	200 rpm to 20000 rpm	2.8rpm	Using Reference Stroboscope of resolution: 0.01/0.1 rpm. Comparison method (Non-contact mode)
2	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Readability: 0.01 mg	1 mg to 500 mg	0.04mg	Using E2 Class Standard Weights by Comparison method as per OIML R 76 - 1
3	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Readability: 0.1 mg/ 0.5 mg/ 1 mg/ 5 mg	>200 g to 500 g	1.92mg	Using E2 Class Standard Weights by Comparison method as per OIML R 76 - 1
4	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass Electronic Weighing Balance Readability: 0.01 mg/0.1 mg/ 0.5 mg/ 1 mg/ 5 mg	>500 mg to 10 g	0.05mg	Using E2 Class Standard Weights by Comparison method as per OIML R 76 - 1
5	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass Electronic Weighing Balance Readability: 0.1 mg/ 0.5 mg/ 1 mg/ 5 mg	>10 g to 50 g	0.1mg	Using E2 Class Standard Weights by Comparison method as per OIML R 76 - 1
6	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass Electronic Weighing Balance Readability: 0.1 mg/ 0.5 mg/ 1 mg/ 5 mg	>50 g to 200 g	0.2mg	Using E2 Class Standard Weights by Comparison method as per OIML R 76 - 1



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Site Facility					
7	THERMAL-TEMPERATURE	Ovens/Baths, non Medical Devices like Basinet, Incubator	-5 °C to 200 °C	2.17°C	Using RTD with data acquisition system as per ASTM E 145 by spacial mapping method.
8	THERMAL-TEMPERATURE	Thermal & Temperature, Liquid in Glass Thermometers, Sensors (TC, RTD, Thermistors) With Indicator, Temperature Gauges	>120 °C to 200 °C	0.37°C	Using Secondary PRT'S with readout (Fluke 1523, Hart Scientific - 1529, Calibration liquid Baths, Dry Bath)
9	THERMAL-TEMPERATURE	Thermal & Temperature, Liquid in Glass Thermometers, Sensors (TC, RTD, Thermistors) With Indicator, Temperature Gauges and hygrometer.	-20 °C to 120 °C	0.3°C	Using Secondary PRT'S with readout (Fluke 1523, Hart Scientific - 1529, Calibration liquid Baths, Dry Bath)and thermal chamber by comparison method.

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