



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

THE SOUTH INDIA TEXTILE RESEARCH ASSOCIATION (SITRA) CALIBRATION LABORATORY, 13/37, AVINASHI ROAD, AERODROME POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2678

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	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-TEMPERATURE SIMULATION (Measure)	Temperature/ RTD	Using Multi Function Calibrator by Direct Method	(-)-100 °C to 200 °C	0.32°C
2	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature/RTD	Using Multi Function Calibrator by Direct Method	> 200 °C to 650 °C	0.36°C
3	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature/Thermocouple B -Type	Using Multi Function Calibrator by Direct Method	600 °C to 1800 °C	1.24°C
4	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature/Thermocouple E -Type	Using Multi Function Calibrator by Direct Method	(-)-200 °C to 1000 °C	0.65°C
5	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature/Thermocouple J -Type	Using Multi Function Calibrator by Direct Method	(-)-200 °C to 1200 °C	0.53°C



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6	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature/Thermocouple K -Type	Using Multi Function Calibrator by Direct Method	(-)200 °C to 1350 °C	0.63°C
7	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature/Thermocouple N-Type	Using Multi Function Calibrator by Direct Method	(-)200 °C to 1300 °C	0.74°C
8	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature/Thermocouple R-Type	Using Multi Function Calibrator by Direct Method	0 °C to 1750 °C	1.14°C
9	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature/Thermocouple S-Type	Using Multi Function Calibrator by Direct Method	0 °C to 1750 °C	1.38°C
10	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature/Thermocouple T-Type	Using Multi Function Calibrator by Direct Method	(-)200 °C to 400 °C	0.72°C
11	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature/RTD	Using Multi Function Calibrator by Direct Method	(-)100 °C to 200 °C	0.19°C



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12	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature/RTD	Using Multi Function Calibrator by Direct Method	> 200 °C to 650 °C	0.26°C
13	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature/Thermocouple B -Type	Using Multi Function Calibrator by Direct Method	600 °C to 1800 °C	1.06°C
14	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature/Thermocouple E -Type	Using Multi Function Calibrator by Direct Method	(-)200 °C to 1000 °C	0.67°C
15	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature/Thermocouple J -Type	Using Multi Function Calibrator by Direct Method	(-)200 °C to 1200 °C	0.40°C
16	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature/Thermocouple K -Type	Using Multi Function Calibrator by Direct Method	(-)200 °C to 1350 °C	0.84°C
17	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature/Thermocouple N-Type	Using Multi Function Calibrator by Direct Method	(-)200 °C to 1300 °C	0.61°C



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18	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature/Thermocouple R -Type	Using Multi Function Calibrator by Direct Method	0 °C to 1750 °C	1.07°C
19	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature/Thermocouple S -Type	Using Multi Function Calibrator by Direct Method	0 °C to 1750 °C	1.22°C
20	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature/Thermocouple T -Type	Using Multi Function Calibrator by Direct Method	(-)-200 °C to 400 °C	0.87°C
21	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval (Digital timer, Stop watch & Analog timer)	Timer calibrator by Comparison Method	1 s to 60 s	0.06 s to 0.11 s
22	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval (Digital timer, Stop watch & Analog timer)	Timer calibrator by Comparison Method	3600 s to 86400 s	2.2 s to 50.11 s
23	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval (Digital timer, Stop watch & Analog timer)	Timer calibrator by Comparison Method	60 s to 3600 s	0.11 s to 2.2 s



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24	MECHANICAL-ACCELERATION AND SPEED	Rotary speed /Tachometer Contact type Tachometer	Using Digital Tachometer	50 rpm to 7000 rpm	1.1%
25	MECHANICAL-ACCELERATION AND SPEED	Rotary speed/Tachometer Centrifuges Non contact tachometer	Using digital tachometer	50 rpm to 5000 rpm	1.0%
26	MECHANICAL-ACCELERATION AND SPEED	Rotary speed/Tachometer Non-Contact type Tachometer	Using Digital Tachometer	100 rpm to 90,000 rpm	1.0%
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore gauge(Transmission error only)L.C 1µm	Electronic Dial Calibration Tester	1.2 mm	3.64 µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper(Vernier/Dial/ Digital) L.C 10µm	Using Caliper Checker & External Micrometer	0 to 600 mm	13.0 µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating thickness foil	Using Electronic Probe	10 µm to 1000 µm	2.1 µm



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30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating thickness gauge. Least count 0.1 mm	Coating thickness foil	10 µm to 1000 µm	2 µm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical measuring pin	Using Gauge Block Set & Electronic Probe	1 mm to 20 mm	2.1 µm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer(Analog/Digital) LC 0.01mm	Using Gauge Block & Long Gauge Block	0 to 150 mm	6.1 µm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C 10µm	Using Gauge Block Set	0 to 10 mm	4.3 µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic probe with digital indicator LC 0.0001mm	Using Gauge Block Set	0 to 10 mm	1.2 µm



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35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer(Analog/Digital) L.C 10µm	Using Gauge Block Set:& Long Gauge Block	100 mm to 300 mm	7.0 µm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer(Analog/Digital) L.C. 1µm	Using Gauge Block Set	0 to 100 mm	2.0µm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Electronic Probe	0.03 mm to 1.0 mm	2.0 µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge(Vernier/Dial/Digital) L.C 10µm	Using Gauge Block & Long Gauge Block	0 to 600 mm	12.0 µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside micrometer/Stick micrometer Least count 0.01 mm	Using Gauge Block,Long Gauge Block & Electronic probe	50 mm to 300 mm	5.5µm



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40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever type dial gauge LC 0.01mm	Using Electronic Dial Calibration Tester	0 to 1 mm	4.6 µm
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale. Least count 1 mm	Using Scale & Tape Calibrator	0 to 1000 mm	232 µm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape	Using Scale & Tape Calibrator	0 to 30000 mm	386 *Sqrt(L) where L in m
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer setting rod	Using Gauge block , Long gauge block and Electronic probe	0 to 275 mm	4.4µm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Gauge Block & Electronic Probe	1 mm to 100 mm	2.7µm



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45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge L.C 1µm	Using Electronic Dial Calibration Tester	0 to 1 mm	3.9µm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge L.C 10µm	Using Electronic Dial Calibration Tester	0 to 10 mm	4.9µm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap gauge(Fixed/Adjustable/Gap gauge)	Using Gauge Block & Long Gauge Block	7 mm to 150 mm	2µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier depth gauge(Vernier/Dial/Digital) L.C 10µm	Using Gauge Block & Long Gauge Block	0 to 300 mm	9.0µm
49	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure / Dial and Digital Pressure Indicators, Pressure Transmitters and Pressure transducers	Using Digital Pressure Calibrator 0 - 700 bar and Hydraulic Pump	0 to 700 bar	0.23% Reading



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50	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure/Dial and Digital pressure indicators, Pressure Transmitters and Pressure transducers	Using Digital Pressure Calibrator 0 -200 bar and Hydraulic Pump	1 bar to 200 bar	0.21% Reading
51	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure /Dial and Digital Pressure indicators, Pressure Transmitters and Pressure transducers	Using Digital Pneumatic Calibrator -1 to 10 bar and Pneumatic Pump	1 bar to 10 bar	0.33% Reading
52	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure /Dial and Digital Pressure indicators, Pressure Transmitters and Pressure transducers	Using Digital Pneumatic Calibrator -1 to 40 bar and Pneumatic Pump	10 Bar to 20 Bar	0.45 % Reading
53	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum /Dial and Digital Vacuum Gauges, and Transmitters	Using Digital Vacuum Calibrator -1 to 10 Bar and twin mode Pneumatic Pump	-0.80 bar to 0 bar	0.81% Reading



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54	MECHANICAL-VOLUME	VOLUME Volumetric flask & Measuring cylinder.	Using Electronic Weighing Balance with Readability of 1 mg & 10 mg. Procedure as per ISO 4787 standards.	500 ml to 5000 ml	17.8ml
55	MECHANICAL-VOLUME	VOLUME Pipettes, Burettes, Volumetric flask & Measuring cylinder.	Using Electronic Weighing Balance with Readability of 0.01 mg. Procedure as per ISO 4787 standards.	1 ml to 10 ml	0.06ml
56	MECHANICAL-VOLUME	VOLUME Pipettes, Burettes, Volumetric flask & Measuring cylinder.	Using Electronic Weighing Balance with Readability of 0.01 mg & 0.1mg. Procedure as per ISO 4787 standards.	10 ml to 100 ml	0.16ml
57	MECHANICAL-VOLUME	VOLUME Volumetric flask & Measuring cylinder.	Using Electronic Weighing Balance with Readability of 1 mg. Procedure as per ISO 4787 standards.	100 ml to 500 ml	2.5ml



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58	MECHANICAL-WEIGHTS	MASS Weights (F1 class & coarser)	Using E2 accuracy class standard weights and electronic weighing balance with readability of 0.01 mg. Procedure as per OIML R-111-1 guidelines.	1 g	0.02mg
59	MECHANICAL-WEIGHTS	MASS Weights (F1 class & coarser)	Using E2 accuracy class standard weights and electronic weighing balance with readability of 1 mg. Procedure as per OIML R-111-1 guidelines.	1 kg	1mg
60	MECHANICAL-WEIGHTS	MASS Weights (F1 class & coarser)	Using E2 accuracy class standard weights and electronic weighing balance with readability of 0.01 mg. Procedure as per OIML R-111-1 guidelines.	1 mg	0.01mg



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61	MECHANICAL-WEIGHTS	MASS Weights (F1 class & coarser)	Using E2 accuracy class standard weights and electronic weighing balance with readability of 0.01 mg. Procedure as per OIML R-111-1 guidelines.	10 g	0.06mg
62	MECHANICAL-WEIGHTS	MASS Weights (F1 class & coarser)	Using E2 accuracy class standard weights and electronic weighing balance with readability of 10 mg. Procedure as per OIML R-111-1 guidelines.	10 kg	11mg
63	MECHANICAL-WEIGHTS	MASS Weights (F1 class & coarser)	Using E2 accuracy class standard weights and electronic weighing balance with readability of 0.01 mg. Procedure as per OIML R-111-1 guidelines.	10 mg	0.01mg



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64	MECHANICAL-WEIGHTS	MASS Weights (F1 class & coarser)	Using E2 accuracy class standard weights and electronic weighing balance with readability of 0.1 mg. Procedure as per OIML R-111-1 guidelines.	100 g	0.16mg
65	MECHANICAL-WEIGHTS	MASS Weights (F1 class & coarser)	Using E2 accuracy class standard weights and electronic weighing balance with readability of 0.01 mg. Procedure as per OIML R-111-1 guidelines.	100 mg	0.01mg
66	MECHANICAL-WEIGHTS	MASS Weights (F1 class & coarser)	Using E2 accuracy class standard weights and electronic weighing balance with readability of 0.01 mg. Procedure as per OIML R-111-1 guidelines.	2 g	0.02mg



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67	MECHANICAL-WEIGHTS	MASS Weights (F1 class & coarser)	Using E2 accuracy class standard weights and electronic weighing balance with readability of 0.01 mg. Procedure as per OIML R-111-1 guidelines.	2 mg	0.01mg
68	MECHANICAL-WEIGHTS	MASS Weights (F1 class & coarser)	Using E2 accuracy class standard weights and electronic weighing balance with readability of 0.01 mg. Procedure as per OIML R-111-1 guidelines.	20 g	0.03mg
69	MECHANICAL-WEIGHTS	MASS Weights (F1 class & coarser)	Using E2 accuracy class standard weights and electronic weighing balance with readability of 0.01 mg. Procedure as per OIML R-111-1 guidelines.	20 mg	0.01mg



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70	MECHANICAL-WEIGHTS	MASS Weights (F1 Class & coarser)	Using E2 accuracy class standard weights and electronic weighing balance with readability of 0.1 mg. Procedure as per OIML R-111-1 guidelines.	200 g	0.3mg
71	MECHANICAL-WEIGHTS	MASS Weights (F1 class & coarser)	Using E2 accuracy class standard weights and electronic weighing balance with readability of 0.01 mg. Procedure as per OIML R-111-1 guidelines.	200 mg	0.01mg
72	MECHANICAL-WEIGHTS	MASS Weights (F1 class & coarser)	Using E2 accuracy class standard weights and electronic weighing balance with readability of 0.01 mg. Procedure as per OIML R-111-1 guidelines.	5 g	0.03mg



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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrum	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
73	MECHANICAL-WEIGHTS	MASS Weights (F1 class & coarser)	Using E2 accuracy class standard weights and electronic weighing balance with readability of 0.01 mg. Procedure as per OIML R-111-1 guidelines.	5 mg	0.01mg
74	MECHANICAL-WEIGHTS	MASS Weights (F1 class & coarser)	Using E2 accuracy class standard weights and electronic weighing balance with readability of 0.1 mg. Procedure as per OIML R-111-1 guidelines.	50 g	0.10mg
75	MECHANICAL-WEIGHTS	MASS Weights (F1 class & coarser)	Using E2 accuracy class standard weights and electronic weighing balance with readability of 0.01 mg. Procedure as per OIML R-111-1 guidelines.	50 mg	0.01mg



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76	MECHANICAL-WEIGHTS	MASS Weights (F1 class & coarser)	Using E2 accuracy class standard weights and electronic weighing balance with readability of 1 mg. Procedure as per OIML R-111-1 guidelines.	500 g	1mg
77	MECHANICAL-WEIGHTS	MASS Weights (F1 class & coarser)	Using E2 accuracy class standard weights and electronic weighing balance with readability of 0.01 mg. Procedure as per OIML R-111-1 guidelines.	500 mg	0.02mg
78	MECHANICAL-WEIGHTS	MASS Weights (F2 class & coarser)	Using E2 accuracy class standard weights and electronic weighing balance with readability of 10 mg. Procedure as per OIML R-111-1 guidelines.	2 kg	10mg



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79	MECHANICAL-WEIGHTS	MASS Weights (F2 class & coarser)	Using E2 accuracy class standard weights and electronic weighing balance with readability of 0.1 g. Procedure as per OIML R-111-1 guidelines.	20 kg	99.8mg
80	MECHANICAL-WEIGHTS	MASS Weights (F2 class & coarser)	Using E2 accuracy class standard weights and electronic weighing balance with readability of 10 mg. Procedure as per OIML R-111-1 guidelines.	5 kg	11mg
81	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature of Humidity/Analog/Digital thermo hygrometers, Data loggers at 50% RH	Using Temperature & Humidity Generator and Temperature & Humidity meter with Sensor by Comparison Method	10 °C to 50 °C	0.41°C



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82	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity/Analog/Digital thermo hygrometers, Humidity sensors, Data loggers	Using Temperature & Humidity Generator and Temperature & Humidity meter with Sensor by Comparison Method at 25°C	20 %RH to 95 %RH	3.3% RH
83	THERMAL-TEMPERATURE	Glass thermometer	Using Liquid bath and SSPRT with multifunction calibrator by comparison method	(-)50 °C to 50 °C	0.30 °C
84	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using Liquid bath and SSPRT with multifunction calibrator by comparison method	>50 °C to 250 °C	0.6°C
85	THERMAL-TEMPERATURE	RTD Sensor with or without indicator/controller, Thermocouple with or without indicator/Controller and Temperature gauge	Using Liquid bath, SSPRT with multifunction calibrator by comparison method	(-)60 °C to 50 °C	0.16°C
86	THERMAL-TEMPERATURE	Temperature indicator of Deep freezer/ Liquid bath	Using SSPRT with multifunction calibrator by comparison method	(-)80 °C to 50 °C	0.6°C



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87	THERMAL-TEMPERATURE	Temperature indicator of Dry block.	Using S-Type Thermocouple with multifunction calibrator by comparison method	> 250 °C to 1200 °C	3.5°C
88	THERMAL-TEMPERATURE	Temperature indicator of Liquid bath, Dry block	Using SSPRT,S-Type Thermocouple with multifunction calibrator by comparison method	50 °C to 250 °C	0.27°C
89	THERMAL-TEMPERATURE	Temperature/ RTD Sensor with or without indicator/controller, Thermocouple with or without indicator/Controller and Temperature gauge	Using Liquid bath, SSPRT with multifunction calibrator by comparison method	50 °C to 250 °C	0.27°C
90	THERMAL-TEMPERATURE	Temperature/ Thermocouple with or without indicator/Controller	Using Dry block calibrator, S-Type thermocouple with multifunction calibrator by comparison method	> 250 °C to 1200 °C	3.5°C
91	THERMAL-TEMPERATURE	Temperature/IR thermometer,Non-Contact thermometer	Using Black body source and Pyrometer by comparison method(Emissivity=0.950)	> 500 °C to 1200 °C	4.14°C



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92	THERMAL-TEMPERATURE	Temperature/IR thermometer, Non-Contact thermometer	Using Black body source and Pyrometer by comparison method(Emissivity=0.950)	50 °C to 500 °C	3.48°C



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Site Facility					
1	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature/ RTD	Using Multi Function Calibrator by Direct Method	(-)-100 °C to 200 °C	0.32°C
2	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature/RTD	Using Multi Function Calibrator by Direct Method	> 200 °C to 650 °C	0.36°C
3	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature/Thermocouple B -Type	Using Multi Function Calibrator by Direct Method	600 °C to 1800 °C	1.24°C
4	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature/Thermocouple E -Type	Using Multi Function Calibrator by Direct Method	(-)-200 °C to 1000 °C	0.65°C
5	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature/Thermocouple J -Type	Using Multi Function Calibrator by Direct Method	(-)-200 °C to 1200 °C	0.53°C



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6	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature/Thermocouple K -Type	Using Multi Function Calibrator by Direct Method	(-)200 °C to 1350 °C	0.63°C
7	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature/Thermocouple N-Type	Using Multi Function Calibrator by Direct Method	(-)200 °C to 1300 °C	0.74°C
8	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature/Thermocouple R-Type	Using Multi Function Calibrator by Direct Method	0 °C to 1750 °C	1.14°C
9	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature/Thermocouple S-Type	Using Multi Function Calibrator by Direct Method	0 °C to 1750 °C	1.38°C
10	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature/Thermocouple T-Type	Using Multi Function Calibrator by Direct Method	(-)200 °C to 400 °C	0.72°C
11	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature/RTD	Using Multi Function Calibrator by Direct Method	(-)100 °C to 200 °C	0.19°C



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12	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature/RTD	Using Multi Function Calibrator by Direct Method	> 200 °C to 650 °C	0.26°C
13	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature/Thermocouple B -Type	Using Multi Function Calibrator by Direct Method	600 °C to 1800 °C	1.06°C
14	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature/Thermocouple E -Type	Using Multi Function Calibrator by Direct Method	(-)200 °C to 1000 °C	0.67°C
15	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature/Thermocouple J -Type	Using Multi Function Calibrator by Direct Method	(-)200 °C to 1200 °C	0.40°C
16	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature/Thermocouple K -Type	Using Multi Function Calibrator by Direct Method	(-)200 °C to 1350 °C	0.84°C
17	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature/Thermocouple N-Type	Using Multi Function Calibrator by Direct Method	(-)200 °C to 1300 °C	0.61°C



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18	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature/Thermocouple R -Type	Using Multi Function Calibrator by Direct Method	0 °C to 1750 °C	1.07°C
19	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature/Thermocouple S -Type	Using Multi Function Calibrator by Direct Method	0 °C to 1750 °C	1.22°C
20	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature/Thermocouple T -Type	Using Multi Function Calibrator by Direct Method	(-)200 °C to 400 °C	0.87°C
21	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval (Digital timer, Stop watch & Analog timer)	Timer calibrator by Comparison Method	1 s to 60 s	0.06 s to 0.11 s
22	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval (Digital timer, Stop watch & Analog timer)	Timer calibrator by Comparison Method	3600 s to 86400 s	2.2 s to 50.11 s
23	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval (Digital timer, Stop watch & Analog timer)	Timer calibrator by Comparison Method	60 s to 3600 s	0.11 s to 2.2 s



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24	MECHANICAL-ACCELERATION AND SPEED	Rotary speed/Tachometer Centrifuges Non contact tachometer	Using digital tachometer	50 rpm to 5000 rpm	1.0%
25	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure / Dial and Digital Pressure Indicators, Pressure Transmitters and Pressure transducers	Using Digital Pressure Calibrator 0 - 700 bar and Hydraulic Pump	0 to 700 bar	0.23% Reading
26	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure/Dial and Digital pressure indicators,Pressure Transmitters and Pressure transducers	Using Digital Pressure Calibrator 0 -200 bar and Hydraulic Pump	1 bar to 200 bar	0.21% Reading
27	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure /Dial and Digital Pressure indicators, Pressure Transmitters and Pressure transducers	Using Digital Pneumatic Calibrator -1 to 10 bar and Pneumatic Pump	1 bar to 10 bar	0.33% Reading



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28	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure /Dial and Digital Pressure indicators, Pressure Transmitters and Pressure transducers	Using Digital Pneumatic Calibrator -1 to 40 bar and Pneumatic Pump	10 Bar to 20 Bar	0.45 % Reading
29	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum /Dial and Digital Vacuum Gauges, and Transmitters	Using Digital Vacuum Calibrator -1 to 10 Bar and twin mode Pneumatic Pump	-0.80 bar to 0 bar	0.81% Reading
30	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Tensile Tester	Using Dead Weight F2 Class as per IS 1828	10 N to 100 N	0.09%
31	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Tensile testing machines	Using standard Tension Proving Ring, IS 1828 [Part 1] -2015/ISO 7500-2004	100 N to 5.0 kN	0.58%
32	MECHANICAL-WEIGHING SCALE AND BALANCE	MASS Electronic Weighing Balances (Class I & coarser) Readability 0.01mg	Using E2 accuracy class standard weights and procedure as per OIML R-76-1 guidelines.	0 to 40 g	0.06mg



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33	MECHANICAL-WEIGHING SCALE AND BALANCE	MASS Electronic Weighing Balances (Class I & coarser) Readability 0.1mg	Using E2 accuracy class standard weights and procedure as per OIML R-76-1 guidelines.	40 g to 210 g	0.13mg
34	MECHANICAL-WEIGHING SCALE AND BALANCE	MASS Electronic Weighing Balances (Class II & coarser) Readability :100mg	Using E2 accuracy class standard weights and procedure as per OIML R-76-1 guidelines.	0 to 20 kg	84mg
35	MECHANICAL-WEIGHING SCALE AND BALANCE	MASS Electronic Weighing Balances (Class IV) Readability : 20g	Using E2 & F2 accuracy Class standard Weights and procedure as per OIML R-76-1 guidelines.	100 kg to 200 kg	11.6g
36	MECHANICAL-WEIGHING SCALE AND BALANCE	MASS Electronic Weighing Balances (Class IV) Readability:20g	Using E2 & F2 accuracy Class standard Weights and procedure as per OIML R-76-1 guidelines.	200 kg to 300 kg	12.0g
37	MECHANICAL-WEIGHING SCALE AND BALANCE	MASS Electronic Weighing Balances (Class I & coarser) Readability : 1mg	Using E2 accuracy Class standqrd Weights and procedure as per OIML R-76-1 guidelines.	0 to 1 kg	1.0mg



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38	MECHANICAL-WEIGHING SCALE AND BALANCE	MASS Electronic Weighing Balances (Class II & coarser) Readability : 10 mg	Using E2 accuracy Class standard Weights and procedure as per OIML R-76-1 guidelines.	0 to 10 kg	8.4mg
39	MECHANICAL-WEIGHING SCALE AND BALANCE	MASS Electronic Weighing Balances (Class IV) Readability : 10g	Using E2 & F2 accuracy Class standard weights and procedure as per OIML R-76-1 guidelines.	0 to 100 kg	5.8g
40	THERMAL-TEMPERATURE	Temperature Indicator of Autoclave(Non medical purpose only), Chamber, Oven	Using SSPRT with multifunction calibrator by comparison method	50 °C to 250 °C	0.30°C
41	THERMAL-TEMPERATURE	Temperature Indicator of Deep Freezer, Incubator	Using SSPRT with multifunction calibrator by comparison method	(-)80 °C to 50 °C	0.6°C
42	THERMAL-TEMPERATURE	Temperature indicator of Deep freezer/ Liquid bath	Using SSPRT with multifunction calibrator by comparison method	(-)80 °C to 50 °C	0.6°C



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43	THERMAL-TEMPERATURE	Temperature indicator of Dry block.	Using S-Type Thermocouple with multifunction calibrator by comparison method	> 250 °C to 1200 °C	3.5°C
44	THERMAL-TEMPERATURE	Temperature indicator of Liquid bath, Dry block	Using SSPRT,S-Type Thermocouple with multifunction calibrator by comparison method	50 °C to 250 °C	0.27°C
45	THERMAL-TEMPERATURE	Temperature Indicator of Oven ,Furnace	Using S-Type Thermocouple with multifunction calibrator by comparison method	> 250 °C to 1200 °C	3.5°C
46	THERMAL-TEMPERATURE	Temperature/ RTD Sensor with or without indicator/controller, Thermocouple with or without indicator/Controller and Temperature gauge	Using Liquid bath, SSPRT with multifunction calibrator by comparison method	50 °C to 250 °C	0.27°C
47	THERMAL-TEMPERATURE	Temperature/ Thermocouple with or without indicator/Controller	Using Dry block calibrator, S-Type thermocouple with multifunction calibrator by comparison method	> 250 °C to 1200 °C	3.5°C



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

