



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION (ATIRA), DR. VIKRAM SARABHAI ROAD, P.O. AMBAWADI VISTAR, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 27/10/2021 to 26/10/2023 **Last Amended on** 17/11/2021

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)	Frequency	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	45 Hz to 100 kHz	0.018 % to 0.014 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source, Measure)	AC Current @ 50 Hz	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	1 A to 10 A	0.2 % to 0.26 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source, Measure)	AC Current @50 Hz	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	100 µA to 1 A	0.47 % to 0.2 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source, Measure)	AC Voltage @50 Hz	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	100 mV to 1000 V	0.122 % to 0.13 %



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5	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source, Measure)	Capacitance	Using Fluke 6½ DMM 8846A By Direct Method	10 nF to 1 mF	6.0 % to 1.8 %
6	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Resistance (4 wires & 2 wires)	Using Fluke 6½ DMM 8846A By Direct/Comparison Method	1 ohm to 100 kohm	1.4 % to 0.014 %
7	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Resistance (4 wires & 2 wires)	Using Fluke 6½ DMM 8846A By Direct Method	10 Mohm to 100 Mohm	0.14 % to 1.04 %
8	ELECTRO-TECHNICAL- DIRECT CURRENT (Source, Measure)	Resistance (4 wires & 2 wires)	Using Fluke 6½ DMM 8846A By Direct/Comparison Method	100 kohm to 10 Mohm	0.014 % to 0.08 %
9	ELECTRO-TECHNICAL- DIRECT CURRENT (Source, Measure)	DC Current	Using Fluke 6½ DMM 8846A By Direct/Comparison Method	100 µA to 100 mA	0.09 % to 0.08 %



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10	ELECTRO-TECHNICAL-DIRECT CURRENT (Source, Measur e)	DC Current	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	100 mA to 10 A	0.08 % to 0.22 %
11	ELECTRO-TECHNICAL-DIRECT CURRENT (Source, Measur e)	DC Voltage	Using Fluke 6½ DMM 8846A By Direct/Comparison Method	100 mV to 100 V	0.01 % to 0.008 %
12	ELECTRO-TECHNICAL-DIRECT CURRENT (Source, Measur e)	DC Voltage	Using Fluke 6½ DMM 8846A By Direct/Comparison Method	1 mV to 100 mV	0.81 % to 0.01 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Source, Measur e)	DC Voltage	Using Fluke 6½ DMM 8846A By Direct/Comparison Method	100 V to 1000 V	0.008 % to 0.0088 %
14	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation RTD Type	Using Fluke 6½ DMM 8846A By Direct Method	-200 °C to 600 °C	1.55°C



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15	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Stop watch	Using Timer/ Stopwatch calibrator	1 s to 24 hrs	0.54 to 25.1 s
16	MECHANICAL-ACCELERATION AND SPEED	centrifuge / RPM indicator	Using precision Digital Tachometer	10 rpm to 20000 rpm	0.14%
17	MECHANICAL-ACCELERATION AND SPEED	Tachometer/RPM Meter(Contact)	Using precision Digital Tachometer& RPM Source By Comparison Method	10 rpm to 3000 rpm	0.14%
18	MECHANICAL-ACCELERATION AND SPEED	Tachometer/RPM Meter/Stroboscope (Non Contact)	Using precision Digital Tachometer& RPM Source By Comparison Method	10 rpm to 50 rpm	2.1 %
19	MECHANICAL-ACCELERATION AND SPEED	Tachometer/RPM Meter/Stroboscope (Non Contact)	Using precision Digital Tachometer& RPM Source By Comparison Method	50 rpm to 90000 rpm	0.05 %
20	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Calibrator	94 dB to 114 dB @ 1kHz	0.49dB
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge LC:0.01mm	Using Slip Gauge Set & Comparator with Stand by Comparison Method	0 mm to 30 mm	58µm



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22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial/ Wobble Gauge (Analog/Dial/Digital) L.C.:0.001 mm	Using Slip Gauge Set & Comparator with Stand By Comparison Method	0 mm to 25 mm	3.1 µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 0.001mm	Using Slip Gauge Set and accessories By Comparison Method	0 mm to 25 mm	1.8 µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale LC:0.5mm	Using Scale calibrator setup with travelling height gauge.By Comparison Method	0 mm to 600 mm	578µm
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plug Gauge	Using Slip Gauge Set & Comparator with Stand By Comparison Method	2 mm to 50 mm	1.9µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge (Dial/Digital) L.C.:0.001 mm	Using Slip Gauge Set and accessories By Comparison Method	0 mm to 25 mm	2.7µm



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27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper L.C.:0.01mm	Using Slip Gauge Set and accessories By Comparison Method	0 mm to 300 mm	9µm
28	MECHANICAL-VOLUME	Burette	Using Digital Weighing Balance Readability: 0.01 mg and distilled water of known density as per ISO 4787	1 ml to 50 ml	117µl
29	MECHANICAL-VOLUME	Calibration of Piston Pipette	Using Digital Weighing Balance Readability: 0.001 mg and distilled water of known density as per ISO 8655-6	1 µl to 10 µl	0.08µl
30	MECHANICAL-VOLUME	Calibration of Piston Pipette	Using Digital Weighing Balance Readability: 0.001 mg and distilled water of known density as per ISO 8655-6	10 µl to 100 µl	0.08µl



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31	MECHANICAL-VOLUME	Calibration of Piston Pipette	Using Digital Weighing Balance Readability: 0.001 mg and distilled water of known density as per ISO 8655-6	100 µl to 1000 µl	3.7 µl
32	MECHANICAL-VOLUME	Calibration of Piston Pipette	Using Digital Weighing Balance Readability: 0.001 mg and distilled water of known density as per ISO 8655-6	1000 µl to 5000 µl	3.7µl
33	MECHANICAL-VOLUME	Glass Pipette	Using Digital Weighing Balance Readability: 0.01 mg and distilled water of known density as per ISO 4787	1 ml to 25 ml	81 µl
34	MECHANICAL-VOLUME	Volumetric Flask/ Measuring Cylinder/ Beaker	Using Digital Weighing Balance Readability: 0.01/ 1 mg and distilled water of known density as per ISO 4787	>100 ml to 1000 ml	174µl



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35	MECHANICAL-VOLUME	Volumetric Flask/ Measuring Cylinder/ Beaker	Using Digital Weighing Balance Readability: 0.01 mg / 1 mg and distilled water of known density as per ISO 4787	1 ml to 100 ml	174µl
36	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance of Class-I and Coarser d=0.001 mg	Using Standard Weights of E1 Class As per OIML R-76-1	1 mg to 31 g	0.02mg
37	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance of Class-I and Coarser d=0.01 mg	Using standard Weights of E1 Class As per OIML R-76-1	>31 g to 200 g	0.27mg
38	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance of Class-II and Coarser d=10 mg	Using Standard Weights of F1 Class As per OIML R-76-1	>3.2 kg to 10 kg	30.0mg
39	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance of Class-II and Coarser d=10 mg	Using Standard Weights of E1/ F1 Class As per OIML R-76-1	>200 g to 3200 g	11.9mg
40	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance of Class-III and Coarser d=1 g	Using Standard Weights of F1 Class As per OIML R-76-1	>10 kg to 50 kg	2.0g



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41	MECHANICAL-WEIGHTS	calibration of E2 Class Weights and coarser	Using E1 Class Standard Weights and Digital Weighing Balance Up to 31 g of d=0.001 mg By ABBA method as per OIML R 111-1	1 g	0.004mg
42	MECHANICAL-WEIGHTS	calibration of E2 Class Weights and coarser	Using E1 Class Standard Weights and Digital Weighing Balance Up to 31 g of d=0.001 mg By ABBA method as per OIML R 111-1	1 mg	0.002mg
43	MECHANICAL-WEIGHTS	calibration of E2 Class Weights and coarser	Using E1 Class Standard Weights and Digital Weighing Balance Up to 31 g of d=0.001 mg By ABBA method as per OIML R 111-1	10 g	0.013mg
44	MECHANICAL-WEIGHTS	calibration of E2 Class Weights and coarser	Using E1 Class Standard Weights and Digital Weighing Balance Up to 31 g of d=0.001 mg By ABBA method as per OIML R 111-1	10 mg	0.002mg



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45	MECHANICAL-WEIGHTS	calibration of E2 Class Weights and coarser	Using E1 Class Standard Weights and Digital Weighing Balance Up to 200 g of d=0.01 mg By ABBA method as per OIML R 111-1	100 g	0.053mg
46	MECHANICAL-WEIGHTS	calibration of E2 Class Weights and coarser	Using E1 Class Standard Weights and Digital Weighing Balance Up to 31 g of d=0.001 mg By ABBA method as per OIML R 111-1	100 mg	0.003mg
47	MECHANICAL-WEIGHTS	calibration of E2 Class Weights and coarser	Using E1 Class Standard Weights and Digital Weighing Balance Up to 31 g of d=0.001 mg By ABBA method as per OIML R 111-1	2 g	0.005mg
48	MECHANICAL-WEIGHTS	calibration of E2 Class Weights and coarser	Using E1 Class Standard Weights and Digital Weighing Balance Up to 31 g of d=0.001 mg By ABBA method as per OIML R 111-1	2 mg	0.002mg



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49	MECHANICAL-WEIGHTS	calibration of E2 Class Weights and coarser	Using E1 Class Standard Weights and Digital Weighing Balance Up to 31 g of d=0.001 mg By ABBA method as per OIML R 111-1	20 g	0.013mg
50	MECHANICAL-WEIGHTS	calibration of E2 Class Weights and coarser	Using E1 Class Standard Weights and Digital Weighing Balance Up to 31 g of d=0.001 mg By ABBA method as per OIML R 111-1	20 mg	0.003mg
51	MECHANICAL-WEIGHTS	calibration of E2 Class Weights and coarser	Using E1 Class Standard Weights and Digital Weighing Balance Up to 200 g of d=0.01 mg By ABBA method as per OIML R 111-1	200 g	0.1mg
52	MECHANICAL-WEIGHTS	calibration of E2 Class Weights and coarser	Using E1 Class Standard Weights and Digital Weighing Balance Up to 31 g of d=0.001 mg By ABBA method as per OIML R 111-1	200 mg	0.004mg



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53	MECHANICAL-WEIGHTS	calibration of E2 Class Weights and coarser	Using E1 Class Standard Weights and Digital Weighing Balance Up to 31 g of d=0.001 mg By ABBA method as per OIML R 111-1	5 g	0.01g
54	MECHANICAL-WEIGHTS	calibration of E2 Class Weights and coarser	Using E1 Class Standard Weights and Digital Weighing Balance Up to 31 g of d=0.001 mg By ABBA method as per OIML R 111-1	5 mg	0.002mg
55	MECHANICAL-WEIGHTS	calibration of E2 Class Weights and coarser	Using E1 Class Standard Weights and Digital Weighing Balance Up to 200 g of d=0.01 mg By ABBA method as per OIML R 111-1	50 g	0.026mg
56	MECHANICAL-WEIGHTS	calibration of E2 Class Weights and coarser	Using E1 Class Standard Weights and Digital Weighing Balance Up to 31 g of d=0.001 mg By ABBA method as per OIML R 111-1	50 mg	0.003mg



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57	MECHANICAL-WEIGHTS	calibration of E2 Class Weights and coarser	Using E1 Class Standard Weights and Digital Weighing Balance Up to 31 g of d=0.001 mg By ABBA method as per OIML R 111-1	500 mg	0.004mg
58	MECHANICAL-WEIGHTS	Calibration of M1 Class Weights and coarser	Using F1 Class Standard Weights and Digital Weighing Balance Up to 1000 g of d=0.001 g By ABBA method as per OIML R 111-1	1 kg	3.6mg
59	MECHANICAL-WEIGHTS	Calibration of M1 Class Weights and coarser	Using F1 Class Standard Weights and Digital Weighing Balance Up to 3200 g of d=0.01 g By ABBA method as per OIML R 111-1	2 kg	18.2mg
60	MECHANICAL-WEIGHTS	Calibration of M1 Class Weights and coarser	Using F1 Class Standard Weights and Digital Weighing Balance Up to 1000 g of d=0.001 g By ABBA method as per OIML R 111-1	500 g	2.9mg



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61	MECHANICAL-WEIGHTS	Calibration of M2 Class Weights and coarser	Using F1 Class Standard Weights and Digital Weighing Balance of readability 1 g By ABBA method as per OIML R 111-1	20 kg	1.38g
62	MECHANICAL-WEIGHTS	Calibration of M2 Class Weights and coarser	Using F1 Class Standard Weights and Digital Weighing Balance of readability 1 g By ABBA method as per OIML R 111-1	50 kg	1.38g
63	MECHANICAL-WEIGHTS	Calibration of M3 Class Weights and coarser	Using F1 Class Standard Weights and Digital Weighing Balance of readability 1 g By ABBA method as per OIML R 111-1	10 kg	1.38g
64	MECHANICAL-WEIGHTS	Calibration of M3 Class Weights and coarser	Using F1 Class Standard Weights and Digital Weighing Balance of readability 1 g By ABBA method as per OIML R 111-1	5 kg	1.38g



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65	THERMAL-TEMPERATURE	Internal temperature Sensor with Indicator, Thermohygrometer	Using Temperature Sensor with Indicator & Cole Parmar Incubator by Comparison Method	15 °C to 50 °C	1.1°C
66	THERMAL-TEMPERATURE	Liquid in Glass Thermometer / Temperature Gauge, RTD/Thermocouple with or without Indicator, Digital Thermometer	Using SSPRT/RTD Indicator with Temperature Indicator & 6.5 DMM/Beamex & Liquid Bath Circulators By Comparison Method	-80 °C to 50 °C	0.33°C
67	THERMAL-TEMPERATURE	Liquid in Glass Thermometer /Temperature Gauge, RTD/Thermocouple with or without Indicator, Digital Thermometer	Using SSPRT/RTD Indicator with Temperature Indicator & 6.5 DMM/Beamex & Liquid Bath Circulators By Comparison Method	50 °C to 250 °C	0.33°C
68	THERMAL-TEMPERATURE	Temperature humidity meter with sensor, Thermohygrometer	Using Fixed RH salt solution with digital temp/RH Indicator with sensor by comparison method	22 % to 95 %	2%



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69	THERMAL-TEMPERATURE	Thermometer, Temperature Gauge, & RTD/Thermocouple with or without Indicator	Using SSPRT/RTD Indicator with Temperature Indicator & 6.5 DMM/Beamex & Dry block By Comparison Method	250 °C to 400 °C	0.28°C
70	THERMAL-TEMPERATURE	Thermometer, Temperature Gauge, & Thermocouple with or without Indicator	Using R Type Thermocouple with Indicator & 6.5 DMM and Dry Block Calibrator By Comparison Method	400 °C to 600 °C	3.3°C



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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)(±)
Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Frequency	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	45 Hz to 100 kHz	0.018 % to 0.014 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source, Measure)	AC Current @ 50 Hz	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	1 A to 10 A	0.2 % to 0.26 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source, Measure)	AC Current @50 Hz	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	100 µA to 1 A	0.47 % to 0.2 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source, Measure)	AC Voltage @50 Hz	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	100 mV to 1000 V	0.122 % to 0.13 %



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5	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source, Measure)	Capacitance	Using Fluke 6½ DMM 8846A By Direct Method	10 nF to 1 mF	6.0 % to 1.8 %
6	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Resistance (4 wires & 2 wires)	Using Fluke 6½ DMM 8846A By Direct/Comparison Method	1 ohm to 100 kohm	1.4 % to 0.014 %
7	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Resistance (4 wires & 2 wires)	Using Fluke 6½ DMM 8846A By Direct Method	10 Mohm to 100 Mohm	0.14 % to 1.04 %
8	ELECTRO-TECHNICAL- DIRECT CURRENT (Source, Measure)	Resistance (4 wires & 2 wires)	Using Fluke 6½ DMM 8846A By Direct/Comparison Method	100 kohm to 10 Mohm	0.014 % to 0.08 %
9	ELECTRO-TECHNICAL- DIRECT CURRENT (Source, Measure)	DC Current	Using Fluke 6½ DMM 8846A By Direct/Comparison Method	100 µA to 100 mA	0.09 % to 0.08 %



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10	ELECTRO-TECHNICAL-DIRECT CURRENT (Source, Measur e)	DC Current	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	100 mA to 10 A	0.08 % to 0.22 %
11	ELECTRO-TECHNICAL-DIRECT CURRENT (Source, Measur e)	DC Voltage	Using Fluke 6½ DMM 8846A By Direct/Comparison Method	100 mV to 100 V	0.01 % to 0.008 %
12	ELECTRO-TECHNICAL-DIRECT CURRENT (Source, Measur e)	DC Voltage	Using Fluke 6½ DMM 8846A By Direct/Comparison Method	1 mV to 100 mV	0.81 % to 0.01 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Source, Measur e)	DC Voltage	Using Fluke 6½ DMM 8846A By Direct/Comparison Method	100 V to 1000 V	0.008 % to 0.0088 %
14	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation RTD Type	Using Fluke 6½ DMM 8846A By Direct Method	-200 °C to 600 °C	1.55°C



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15	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Stop watch	Using Timer/ Stopwatch calibrator	1 s to 24 hrs	0.54 to 25.1 s
16	MECHANICAL-ACCELERATION AND SPEED	centrifuge / RPM indicator	Using precision Digital Tachometer	10 rpm to 20000 rpm	0.14%
17	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Calibrator	94 dB to 114 dB @ 1kHz	0.49dB
18	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance of Class-I and Coarser d=0.001 mg	Using Standard Weights of E1 Class As per OIML R-76-1	1 mg to 31 g	0.02mg
19	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance of Class-I and Coarser d=0.01 mg	Using standard Weights of E1 Class As per OIML R-76-1	>31 g to 200 g	0.27mg
20	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance of Class-II and Coarser d=10 mg	Using Standard Weights of F1 Class As per OIML R-76-1	>3.2 kg to 10 kg	30.0mg
21	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance of Class-II and Coarser d=10 mg	Using Standard Weights of E1/ F1 Class As per OIML R-76-1	>200 g to 3200 g	11.9mg



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22	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance of Class-III and Coarser d=1 g	Using Standard Weights of F1 Class As per OIML R-76-1	>10 kg to 50 kg	2.0g
23	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber @ 25 °C, Internal temperature Sensor with Indicator, Thermohygrometer	Using Digital Temp/RH indicator with sensor By Comparison Method	22 % to 95 %	2.7%
24	THERMAL-TEMPERATURE	Temperature Indicator with sensor of oven, Muffle furnace , Water bath , Incubator (Non-Medical Applications,Deep Freezer ,COD, BOD, Refrigerator RTD/ Thermocouple with or without indicator.	Using SSPRT/RTD Indicator with Temperature Indicator & 6.5 DMM/Beamex & Dry Block Calibrator Using R-Type thermocouple with Indicator	600 °C to 1200 °C	2.8°C
25	THERMAL-TEMPERATURE	Temperature Indicator with sensor of oven, Muffle furnace, Water bath , Incubator (Non-Medical Applications,Deep Freezer ,COD, BOD, Refrigerator RTD/ Thermocouple with or without indicator.	Using SSPRT/RTD Indicator with Temperature Indicator & 6.5 DMM/Beamex & Liquid Bath Circulators By Comparison Method	300 °C to 600 °C	0.21°C



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26	THERMAL-TEMPERATURE	Temperature Indicator with sensor of oven, Muffle furnace, Water bath, Incubator (Non-Medical Applications, Deep Freezer, COD, BOD, Refrigerator RTD/ Thermocouple with or without indicator.	Using SSPRT/RTD Indicator with Temperature Indicator & 6.5 DMM/Beamex & Liquid Bath Circulators By Comparison Method	50 °C to 250 °C	0.21°C
27	THERMAL-TEMPERATURE	Temperature Indicator with sensor of oven, Muffle furnace, Water bath, Incubator (Non-Medical Applications, Deep Freezer, COD, BOD, Refrigerator RTD/ Thermocouple with or without indicator.	Using SSPRT/RTD Indicator with Temperature Indicator & 6.5 DMM/Beamex & Liquid Bath Circulators By Comparison Method	-80 °C to 50 °C	0.17°C

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