



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

Certificate Number

CC-2824

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Validity

30/08/2018 to 29/08/2020*

Last Amended on

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* The validity is extended for one year up to 29.08.2021

*Transition to 2017 version completed w.e.f 21.10.2020 valid until 29.08.2021

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-OTHERS (Measure)	AC Current	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	1 A to 10 A	0.2 % to 0.26 %
2	ELECTRO-TECHNICAL-OTHERS (Measure)	AC Current	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	100 µA to 1 A	0.5 % to 0.2 %
3	ELECTRO-TECHNICAL-OTHERS (Measure)	AC Voltage	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	100 mV to 1000 V	0.122 % to 0.13 %
4	ELECTRO-TECHNICAL-OTHERS (Measure)	Capacitance	Using Fluke 6½ DMM 8846A By Direct Method	10 nF to 1 mF	6.0 % to 3.0 %
5	ELECTRO-TECHNICAL-OTHERS (Measure)	DC Current	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	100 µA to 100 mA	0.1 % to 0.22 %
6	ELECTRO-TECHNICAL-OTHERS (Measure)	DC Current	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	100 mA to 10 A	0.22 % to 0.22 %



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7	ELECTRO-TECHNICAL-OTHERS (Measure)	DC Voltage	Using Fluke 6.5 DMM 8846A By Direct/ Comparison Method	1 mV to 100 mV	0.81 % to 0.01 %
8	ELECTRO-TECHNICAL-OTHERS (Measure)	DC Voltage	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	100 mV to 100 V	0.01 % to 0.008 %
9	ELECTRO-TECHNICAL-OTHERS (Measure)	DC Voltage	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	100 V to 1000 V	0.008 % to 0.01 %
10	ELECTRO-TECHNICAL-OTHERS (Measure)	Frequency	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	45 Hz to 100 kHz	0.018 % to 0.058 %
11	ELECTRO-TECHNICAL-OTHERS (Measure)	Resistance (4 wires & 2 wires)	Using Fluke 6½ DMM 8846A By Direct Method	10 ohm to 100 k ohm	0.8 % to 0.016 %
12	ELECTRO-TECHNICAL-OTHERS (Measure)	Resistance (4 wires & 2 wires)	Using Fluke 6½ DMM 8846A By Direct Method	10 Mohm to 100 Mohm	0.082 % to 1.0 %
13	ELECTRO-TECHNICAL-OTHERS (Measure)	Resistance (4 wires & 2 wires)	Using Fluke 6½ DMM 8846A By Direct Method	100 k ohm to 10 M ohm	0.016 % to 0.082 %



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14	ELECTRO-TECHNICAL-OTHERS (Measure)	Stop Watch	Using Digital Stop Watch by Comparison Method	40 sec to 24 hrs	0.57 s to 5.845 s
15	ELECTRO-TECHNICAL-OTHERS (Measure)	Temperature Simulation RTD Type	Using Fluke 6½ DMM 8846A By Direct Method	(-)200 °C to 600 °C	0.67 °C to 0.67 °C
16	MECHANICAL-ACCELERATION AND SPEED	Tachometer/Stroboscope/RPM Indicator of Centrifuge	Using precision Digital Tachometer By Comparison Method	50 rpm to 20000 rpm	0.14 % to 0.14 %
17	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Calibrator	1kHz 94 dB to 1 kHz 114 dB	0.60 dB to 0.60 dB
18	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	0 mm to 25 mm	3.0 µm to 3.0 µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Mirometer L.C.: 0.001mm	Using Slip Gauge Set and accessories	0 mm to 25 mm	1.8 µm to 1.8 µm



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20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Mirometer L.C.: 0.001mm	Using Slip Gauge Set and accessories	25 mm to 50 mm	1.8 µm to 1.8 µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Mandrel (Diameter only)	Using Slip Gauge Set & Comparator with Stand	0 mm to 50 mm	2.0 µm to 2.0 µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plug Gauge	Using Slip Gauge Set & Comparator with Stand	0 mm to 50 mm	1.9 µm to 1.9 µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge (Dial/Digital) L.C.:0.001 mm	Using Slip Gauge Set and accessories	0 mm to 25 mm	2.7 µm to 2.7 µm



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24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper L.C.: 0.01mm	Using Slip Gauge Set and accessories	0 mm to 300 mm	19.0 µm to 19.0 µm
25	MECHANICAL-VOLUME	Burette	Using Digital Precision Balance Resolution: 0.1 mg (Up to 10µml) and Resolution: 1 mg (>10ml to 1000ml) and distilled water of known density as per ISO 4787	> 1 ml to 50 ml	6.4 µl to 6.4 µl
26	MECHANICAL-VOLUME	Calibration of Piston Pipette	Using Digital Precision Balance Resolution: 0.01 mg (Up to 100µl) and Resolution: 0.1mg (>100µl to 1000µl) and distilled water of known density as per IS:8655-6	10 µl to 100 µl	0.08 µl to 0.08 µl



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27	MECHANICAL-VOLUME	Calibration of Piston Pipette	Using Digital Precision Balance Resolution: 0.01 mg (Up to 100µl) and Resolution: 0.1mg (>100µl to 1000µl) and distilled water of known density as per IS:8655-6	100 µl to 1000 µl	0.08 µl to 0.08 µl
28	MECHANICAL-VOLUME	Glass Pipette	Using Digital Precision Balance Resolution: 0.1 mg (Up to 10µml) and Resolution: 1 mg (>10ml to 1000ml) and distilled water of known density as per ISO 4787	> 1 ml to 25 ml	6.4 µl to 6.4 µl
29	MECHANICAL-VOLUME	Volumetric Flask/ Measuring Cylinder/ Beaker	Using Digital Precision Balance Resolution: 0.1 mg (Up to 10µml) and Resolution: 1 mg (>10ml to 1000ml) and distilled water of known density as per ISO 4787	> 1 ml to 100 ml	20.0 µl to 20.0 µl



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30	MECHANICAL-VOLUME	Volumetric Flask/ Measuring Cylinder/ Beaker	Using Digital Precision Balance Resolution: 0.1 mg (Up to 10µml) and Resolution: 1 mg (>10ml to 1000ml) and distilled water of known density as per ISO 4787	>100 ml to 1000 ml	110.0 µl to 110.0 µl
31	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 32 g	0.03 mg to 0.03 mg
32	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	> 32 g to 200 g	0.06 mg to 0.06 mg
33	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance of Class-I and Coarser d=1 g	Using Standard Weights of F1 Class As per OIML R-76-1	> 10 kg to 50 kg	2.5 g to 2.5 g
34	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance of Class-I and Coarser d=1 mg	Using Standard Weights of F1 Class As per OIML R-76-1	>205 g to 3200 g	11.9 mg to 11.9 mg



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35	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance of Class-I and Coarser d=10 mg	Using Standard Weights of F1 Class As per OIML R-76-1	> 3.2 kg to 10 kg	30 mg to 30 mg
36	MECHANICAL-WEIGHTS	calibration of F1 Class Weights and coarser	Using E1 Class Standard Weights and Digital Weighing Balance Up to 32 g of d=0.001 mg and Up to 200 g and d=0.01 mg By ABBA method as per OIML R-111	1 mg to 200 mg	0.003 mg to 0.003 mg
37	MECHANICAL-WEIGHTS	calibration of F1 Class Weights and coarser	Using E1 Class Standard Weights and Digital Weighing Balance Up to 32 g of d=0.001 mg and Up to 200 g and d=0.01 mg By ABBA method as per OIML R-111	10 g to 20 g	0.014 mg to 0.014 mg



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38	MECHANICAL-WEIGHTS	calibration of F1 Class Weights and coarser	Using E1 Class Standard Weights and Digital Weighing Balance Up to 32 g of d=0.001 mg and Up to 200 g and d=0.01 mg By ABBA method as per OIML R-111	200 g to 200 g	0.100 mg to 0.100 mg
39	MECHANICAL-WEIGHTS	calibration of F1 Class Weights and coarser	Using E1 Class Standard Weights and Digital Weighing Balance Up to 32 g of d=0.001 mg and Up to 200 g and d=0.01 mg By ABBA method as per OIML R-111	50 g to 100 g	0.024 mg to 0.024 mg
40	MECHANICAL-WEIGHTS	calibration of F1 Class Weights and coarser	Using E1 Class Standard Weights and Digital Weighing Balance Up to 32 g of d=0.001 mg and Up to 200 g and d=0.01 mg By ABBA method as per OIML R-111	500 mg to 5 g	0.006 mg to 0.006 mg



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41	MECHANICAL-WEIGHTS	Calibration of M1 Class Weights and coarser	Using F1 Class Weights and Digital weighing Balance Up to 3200 g with d=1 mg, Up to 65 kg with d=1 g By ABBA method As per OIML R-111	1 kg to 1 kg	1.9 mg to 1.9 mg
42	MECHANICAL-WEIGHTS	Calibration of M1 Class Weights and coarser	Using F1 Class Weights and Digital weighing Balance Up to 3200 g with d=1 mg, Up to 65 kg with d=1 g By ABBA method As per OIML R-111	10 kg to 10 kg	0.84 g to 0.84 g
43	MECHANICAL-WEIGHTS	Calibration of M1 Class Weights and coarser	Using F1 Class Weights and Digital weighing Balance Up to 3200 g with d=1 mg, Up to 65 kg with d=1 g By ABBA method As per OIML R-111	2 kg to 2 kg	10.7 mg to 10.7 mg



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44	MECHANICAL-WEIGHTS	Calibration of M1 Class Weights and coarser	Using F1 Class Weights and Digital weighing Balance Up to 3200 g with d=1 mg, Up to 65 kg with d=1 g By ABBA method As per OIML R-111	20 kg to 20 kg	0.88 g to 0.88 g
45	MECHANICAL-WEIGHTS	Calibration of M1 Class Weights and coarser	Using F1 Class Weights and Digital weighing Balance Up to 3200 g with d=1 mg, Up to 65 kg with d=1 g By ABBA method As per OIML R-111	5 kg to 5 kg	0.82 g to 0.82 g
46	MECHANICAL-WEIGHTS	Calibration of M1 Class Weights and coarser	Using F1 Class Weights and Digital weighing Balance Up to 3200 g with d=1 mg, Up to 65 kg with d=1 g By ABBA method As per OIML R-111	50 kg to 50 kg	1.0 g to 1.0 g



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47	MECHANICAL-WEIGHTS	Calibration of M1 Class Weights and coarser	Using F1 Class Weights and Digital weighing Balance Up to 3200 g with d=1 mg, Up to 65 kg with d=1 g By ABBA method As per OIML R-111	500 g to 500 g	1.7 mg to 1.7 mg
48	THERMAL-TEMPERATURE	Humidity Indicator with Sensor, Thermohygro meter @25°C	Using Fixed RH salt solution with digital temp/RH Indicator with sensor by comparison method	22 % RH to 95 % RH	2.7 % RH to 2.7 % RH
49	THERMAL-TEMPERATURE	Internal temperature Sensor with Indicator, Thermohygro meter	Using Temperature Sensor with Indicator & Cole Parmar Incubator by Comparison Method	15 °C to 50 °C	0.80 °C to 0.80 °C
50	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Temperature Gauge, & RTD/Thermocouple with or without Indicator	Using SSPRT/RTD Indicator with Temperature Indicator & 6.5 DMM/Beamex & Liquid & Dry Bath Circulators By Comparison Method	(-)-80 °C to 50 °C	1.1 °C to 1.1 °C



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51	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Temperature Gauge, & RTD/Thermocouple with or without Indicator	Using SSPRT/RTD Indicator with Temperature Indicator & 6.5 DMM/Beamex & Liquid & Dry Bath Circulators By Comparison Method	300 °C to 600 °C	2.2 °C to 2.2 °C
52	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Temperature Gauge, & RTD/Thermocouple with or without Indicator	Using SSPRT/RTD Indicator with Temperature Indicator & 6.5 DMM/Beamex & Liquid & Dry Bath Circulators By Comparison Method	50 °C to 300 °C	1.0 °C to 1.0 °C
53	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Temperature Gauge, & RTD/Thermocouple with or without Indicator	Using R Type Thermocouple with Indicator & 6.5 DMM & Dry-Block Calibrator by Comparison Method	600 °C to 1200 °C	3.5 °C to 3.5 °C



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Site Facility					
1	ELECTRO-TECHNICAL-OTHERS (Measure)	AC Current	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	1 A to 10 A	0.2 % to 0.26 %
2	ELECTRO-TECHNICAL-OTHERS (Measure)	AC Current	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	100 µA to 1 A	0.5 % to 0.2 %
3	ELECTRO-TECHNICAL-OTHERS (Measure)	AC Voltage	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	100 mV to 1000 V	0.122 % to 0.13 %
4	ELECTRO-TECHNICAL-OTHERS (Measure)	Capacitance	Using Fluke 6½ DMM 8846A By Direct Method	10 nF to 1 mF	6.0 % to 3.0 %
5	ELECTRO-TECHNICAL-OTHERS (Measure)	DC Current	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	100 µA to 100 mA	0.1 % to 0.22 %
6	ELECTRO-TECHNICAL-OTHERS (Measure)	DC Current	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	100 mA to 10 A	0.22 % to 0.22 %



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7	ELECTRO-TECHNICAL-OTHERS (Measure)	DC Voltage	Using Fluke 6.5 DMM 8846A By Direct/ Comparison Method	1 mV to 100 mV	0.81 % to 0.01 %
8	ELECTRO-TECHNICAL-OTHERS (Measure)	DC Voltage	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	100 mV to 100 V	0.01 % to 0.008 %
9	ELECTRO-TECHNICAL-OTHERS (Measure)	DC Voltage	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	100 V to 1000 V	0.008 % to 0.01 %
10	ELECTRO-TECHNICAL-OTHERS (Measure)	Frequency	Using Fluke 6½ DMM 8846A By Direct/ Comparison Method	45 Hz to 100 kHz	0.018 % to 0.058 %
11	ELECTRO-TECHNICAL-OTHERS (Measure)	Resistance (4 wires & 2 wires)	Using Fluke 6½ DMM 8846A By Direct Method	10 ohm to 100 k ohm	0.8 % to 0.016 %
12	ELECTRO-TECHNICAL-OTHERS (Measure)	Resistance (4 wires & 2 wires)	Using Fluke 6½ DMM 8846A By Direct Method	10 Mohm to 100 Mohm	0.082 % to 1.0 %
13	ELECTRO-TECHNICAL-OTHERS (Measure)	Resistance (4 wires & 2 wires)	Using Fluke 6½ DMM 8846A By Direct Method	100 k ohm to 10 M ohm	0.016 % to 0.082 %



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14	ELECTRO-TECHNICAL-OTHERS (Measure)	Stop Watch	Using Digital Stop Watch by Comparison Method	40 sec to 24 hrs	0.57 s to 5.845 s
15	ELECTRO-TECHNICAL-OTHERS (Measure)	Temperature Simulation RTD Type	Using Fluke 6½ DMM 8846A By Direct Method	(-)200 °C to 600 °C	0.67 °C to 0.67 °C
16	MECHANICAL-ACCELERATION AND SPEED	Tachometer/Stroboscope/RPM Indicator of Centrifuge	Using precision Digital Tachometer By Comparison Method	50 rpm to 20000 rpm	0.14 % to 0.14 %
17	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Calibrator	1kHz 94 dB to 1 kHz 114 dB	0.60 dB to 0.60 dB
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 32 g	0.03 mg to 0.03 mg
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	> 32 g to 200 g	0.06 mg to 0.06 mg
20	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance of Class-I and Coarser d=1 g	Using Standard Weights of F1 Class As per OIML R-76-1	> 10 kg to 50 kg	2.5 g to 2.5 g



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21	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance of Class-I and Coarser d=1 mg	Using Standard Weights of F1 Class As per OIML R-76-1	>205 g to 3200 g	11.9 mg to 11.9 mg
22	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance of Class-I and Coarser d=10 mg	Using Standard Weights of F1 Class As per OIML R-76-1	> 3.2 kg to 10 kg	30 mg to 30 mg
23	THERMAL-TEMPERATURE	Humidity Chamber @ 25 °C	Using Digital Temp/RH indicator with sensor By Comparison Method	22 % RH to 95 % RH	2.7 % RH to 2.7 % RH
24	THERMAL-TEMPERATURE	RTD/ Thermocouple with or without indicator, Temperature Indicator with sensor of oven, Muffle Furnace ,Water bath , Incubator (Non-Medical Applications ,Deep Freezer ,COD, BOD, Refrigerator	Using SSPRT/RTD Indicator with Temperature Indicator & 6.5 DMM/Beamex & Liquid Bath Circulators By Comparison Method	(-)-80 °C to 50 °C	1.1 °C to 1.1 °C



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25	THERMAL-TEMPERATURE	RTD/ Thermocouple with or without indicator, Temperature Indicator with sensor of oven, Muffle Furnace ,Water bath , Incubator (Non-Medical Applications ,Deep Freezer ,COD, BOD, Refrigerator	Using SSPRT/RTD Indicator with Temperature Indicator & 6.5 DMM/Beamex & Liquid Bath Circulators By Comparison Method	300 °C to 600 °C	2.2 °C to 2.2 °C
26	THERMAL-TEMPERATURE	RTD/ Thermocouple with or without indicator, Temperature Indicator with sensor of oven, Muffle Furnace ,Water bath , Incubator (Non-Medical Applications ,Deep Freezer ,COD, BOD, Refrigerator	Using SSPRT/RTD Indicator with Temperature Indicator & 6.5 DMM/Beamex & Liquid Bath Circulators By Comparison Method	50 °C to 300 °C	1.0 °C to 1.0 °C



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27	THERMAL-TEMPERATURE	RTD/ Thermocouple with or without indicator, Temperature Indicator with sensor of oven, Muffle Furnace ,Water bath , Incubator (Non-Medical Applications ,Deep Freezer ,COD, BOD, Refrigerator	Using R Type Thermocouple with Indicator & 6.5 DMM and Dry Block Calibrator By Comparison Method	600 °C to 1200 °C	2.8 °C to 2.8 °C

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