



Calibration Laboratory

Since 2001

ISO/IEC 17025 NABL Accredited Lab

Mechanical

*Mass, Volume,
Dimension,
Acoustics,
Acceleration,
Force*

**Electro-
Technical**
Time

Thermal
*Temperature,
Humidity*

Contact :

Ahmedabad Textile Industry's Research Association (ATIRA)

Dr. Vikram Sarabhai Road, P. O. Ambawadi Vistar, Ahmedabad -380 015

Phone : (079) 26307921-22 Ext : 383

Website : www.atira.in

email: gsg@atira.in

Why Calibration from ATIRA

- ✓ We are here to help to improve your quality.
- ✓ Provide better & prompt responsive service.
- ✓ Fully equipped calibration lab for onsite & at lab.
- ✓ Maintain Quality system as per ISO/IEC 17025:2017.
- ✓ International Standard methods adopted.
- ✓ Delivered reliable & accurate results .
- ✓ Ensuring confidentiality of results.
- ✓ Well qualified & skilled staff.

We Serve

- ✓ Textile and allied Industry
- ✓ Dairy Industry
- ✓ Pharmaceutical Companies
- ✓ Engineering and Chemical Units
- ✓ Clinical Research Organization
- ✓ Coke Industries
- ✓ Hospitals and Pathological Laboratories
- ✓ Instrument Manufacturers & Suppliers
- ✓ Paint Industry
- ✓ Calibration Laboratories
- ✓ Government Organizations like : **ISRO, ONGC, IPR, GPCB**



Mechanical Laboratory

Volume & Viscosity

Scope

- Piston pipette : 10 μ l to 1000 μ l
- Volume : 1 ml to 1000 ml
- Viscous

Calibration of Instruments

- Micro Pipette, Measuring Cylinder, Rotameter, Infusion Pump, Sand Content Tube, Gravity Cup, Flask, Beaker, Burette, etc.
- Viscometer, Viscosity Cup, Viscosity Liquid, etc.

Mass

Scope

- Mass/Weights : Ranges 1 mg to 50 kg
- Weighing Balance : Ranges 1 mg to 50 kg

Calibration of Instruments

- Analytical Weighing balance, Weighing scales.
- F1 & M1 Class Weight box.
- CI Weights & others.





Mechanical Laboratory

Pressure & Velocity

Scope

- Pressure: 0 to 30 bar
- Vacuum : 0 to -1 bar
- Velocity : 0 to 35 m/s

Calibration of Instruments

- B.P. apparatus, Oxygen Gauge, Pressure Gauge, Vacuum Gauge, Digital Manometer, Pressure Switch, Pressure Transmitter, etc.
- Anemometer, Air Velocity Sensors etc.

Acoustics, Speed & Illumination

Scope

- Acoustics : 94 dB & 114 dB
- Speed : 50 to 20000 RPM
- Illumination

Calibration of Instruments

- Sound Level meter.
- Contact & Non-contact type Tachometer.
- Lux meter, Holmium Filter, Didymium filter,
- Validation of Sodium Light source, etc.





Mechanical Laboratory

Dimension

Scope

- External Micrometer : 0 to 50 mm
- Vernier Caliper : 0 to 300 mm
- Dial/ Wobble Gauge : 0 to 25 mm
- Thickness Gauge : 0 to 25 mm
- Depth Gauge : 0 to 30 mm
- Measuring Scale : 0 to 600 mm
- Plug Gauge : 0 to 50 mm
- Mandrel : 0 to 50 mm

Calibration of Instruments

- Micrometer, Vernier, Crimp, Cross Hatch, Film Applicator, Measuring Tape, Slip Gauges, Dial Gauge, Stature Meter, S.S. Scale, Crimp meter, Mandrill, Height Scale, Sieves, Filter Pad, Angle Dekor, Crease Recovery Tester, GSM cutter, Wobble Gauge, GO NO GO Tester.

Calibration of Instruments

Force

- Tarp Gauge, Tablet Hardness Tester, Proving Ring, Push-Pull Indicator, Tensile Tester, Tension Meter, Torque Tester, Durometer.





Mechanical Laboratory

Electro-Chemical

Standard

- pH / conductivity Buffers, Temperature sensor

Capability to calibrate

- pH / Conductivity meter

Density

Standard :

- Digital Density hydrometer.

Capability to calibrate

- Hydrometer, Butyrometer, Lactometer, Twaddle meter, Mud Balance

Alcohol Content

Standard

- Breath alcohol simulator for 0.0% to 1.0% .

Capability to calibrate

- Breath analyzer .





Electro-Technical

Electro-Technical

Scope

- DC Voltage : 1 mV to 1000 V
- DC Current : 100 μ A to 10 A
- Resistance : 1 Ω to 100 M Ω
- AC Voltage : 100 mV to 1000 V
- AC Current : 100 μ A to 10 A
- Frequency : 45 Hz to 100KHz
- Capacitance : 10 nF to 1 mF
- Temperature simulation : -200 $^{\circ}$ c to 600 $^{\circ}$ c
- Time : 40 s to 24 hours

Calibration of Instruments

- Digital Multi meter, Clamp Meter, Megger, Universal calibrator, Resistor Bank, Earth Resistance tester.
- Stop watch, Timer, Digital clock.





Thermal

Thermal

Scope

- Temperature at Lab for sensors : -80°C to 1200°C
- Temperature at site : -80°C to 1200°C
- Humidity at site & Lab : 22% to 95% RH

Calibration of Instruments

- Liquid glass thermometer.
- RTD/ Thermo couple with or with out indicator.
- Oven Muffle Furnace, Water bath, Deep freezer, COD, BOD.
- Thermo hygrometer, Humidity Chamber.

