

CALIBRATION & MEASUREMENT SERVICES

We provide an extensive industrial calibration service, covering a wide range of measurements which are traceable to National / International Standards, established through reference standards maintained by us. Our test/calibration reports consists all information as per requirements of ISO17025.

Scope of Accreditation	
Force	: Force Testing Machines, Proving Rings
Mass	: Electronic Balance, Weights
Temperature	: Thermometers, Laboratory Furnaces, Autoclaves, Incubators, Liquid Baths, Cold Rooms, PRT, Thermocouples.

Item	Method of calibration
1. Mass and Related Measurements	
1.1 Balances/Mechanical & electronic Capacities up to 250 kg	DM/M/TM/03
1.2 Weights up to 30 kg OIML Class F1	DM/M/TM/02
1.3 Weights up to 30 kg OIML Class F2 , M1, M2, M2-3 & M3	DM/M/TM/01
1.4. Volumetric Calibration Beaker, Volumetric Flask, Pipette, Burette, Measuring Cylinder, Micro Pipette, Flow Cup, Volume Cup	Gravity method
1.5 Hydrometers	
2. Force, Torque and Pressure	
2.1 Testing Machines Capacities up to 100 kN (Tension Mode)	ISO 7500-using Standard Load Cells & Proving Rings
2.2 Testing Machines Capacities up to 2000 kN (Compression)	ISO 7500-using Standard Load Cells & Proving Rings
2.3 Proving Rings (CBR rings) Capacities up to 200 kN	ISO 376 –using Standard Load Cells & Proving Rings
2.4 Torque Wrenches and torque meters up to 1000 Nm	Calibration - using standard weights or comparison with calibrated torque meters
2.5 Hydraulic Pressure gauges/transducers (Gauge pressure) Up to 60 MPa (600 bar)	Dead – Weight Piston Gauge
2.6 Pneumatic Pressure gauges/transducers(Gauge pressure) Up to 2 MPa (20 bar)	Comparison against calibrated pressure indicator/pump
2.7 Vacuum Gauges	Comparison against Hg manometer

3. Temperature	
3.1 Liquid-in-glass thermometers -80 °C to 550 °C	DM/T/TM 01
3.2 Dial thermometers -80 °C to 550 °C	DM/T/TM 02
3.3 Digital Thermometers with immersion probes -80 °C to 550 °C	DM/T/TM 03
3.4 Autoclave 50 °C to 150 °C	DM/T/TM 04
3.5 Laboratory Furnace 200 °C to 1450 °C	DM/T/TM 05
3.6 Laboratory Liquid Baths -30 °C to 200 °C	DM/T/TM 06
3.7 Laboratory Ovens 50 °C to 200 °C	DM/T/TM 07
3.8 Incubators 0 °C to 50 °C	DM/T/TM 08
3.9 Cold Room -40 °C to 20 °C	DM/T/TM 09
3.10 PRT by Comparison method 0 °C to 420 °C	DM/T/TM 10
3.11 Thermocouples 0 °C to 1450 °C	DM/T/TM 11
3.15 IR Thermometers Up to 500 °C	Calibrated Black Body Surface
3.16 Digital Thermometers with surface probes 50 °C to 550 °C	Calibrated surface probe calibrator
5. Length & related measurements	
5.1 End gauges	Comparison against calibrated gauge blocks
5.2 Vernier Caliper- Up to 1500 mm	Comparison against calibrated gauge blocks
5.3 Micrometer(external) - Up to 600 mm	
5.3 Micrometer(internal) - Up to 100 mm	
5.4 Bore gauge - Up to 200 mm	
5.5 Protractors	Comparison against calibrated angle gauge blocks
5.6 Profile projectors	Comparison against calibrated gauge blocks
5.7 Rules - Up to 1 m	Comparison against calibrated digimatic scale
5.8 Screw thread measurements	Using calibrated three-wire units
5.9 Geometrical shapes	Measurement using CNC machine