



MTMS ENGINEERS PVT. LTD.,

GROWING TO SERVE, SERVING QUALITY

NABL ACCREDITED CALIBRATION LABORATORY

ISO17025:2017

CALIBRATION CAPABILITY UNDER NABL ACCREDITED SCOPE

1) FOR LOCATION I - CALIBRATION ACTIVITY: Force, Hardness, Impact, Pressure Gauge and WB.

Sr. No.	Instrument Name	Range / Scale
1	UTM, Tension Creep Testing Machine (Compression/ Tension Mode)	1 N to 3000 kN - Compression mode 1 N to 1000 kN - Tension mode
2	Displacement of Uniaxial Testing Machine	Upto 500 mm
3	Speed of Cross Head of Uniaxial Testing Machine	0 - 500 mm / min
4	Rockwell Hardness Testing Machine	
	1. Indirect verification of Rockwell cum Rockwell superficial Hardness Testing Machine 2. Test force verification 3. Verification of Hysteresis 4. Measurement of the Testing cycle 5. Indentation Diameter measuring system 6. Depth Measuring System	HRA, HRBW, HRC, HRD, HREW, HRFW, HRLW, HRRW, HR15Y, HR15 N, HR 30 N, HR 45 N, HR15 TW, HR 30 TW, HR 45TW
5	Brinell Hardness Testing Machine	
	1. Indirect verification of Brinell Hardness Testing Machine 2. Test force verification 3. Measurement of the Testing cycle 4. Indentation Diameter measuring system	1/30 HBW, 2.5/15.625 HBW, 2.5/31.25 HBW, 2.5/62.5 HBW, 2.5/187.5 HBW, 5/250 HBW, 5/750 HBW, 10/500 HBW, 10/1000 HBW, 10/3000 HBW
6	Vickers Hardness Testing Machine	
	1. Indirect verification of Vickers Hardness Testing Machine 2. Test force verification 3. Measurement of the Testing cycle 4. Indentation Diameter measuring system	HV1, HV3, HV5, HV10, HV20, HV30, HV50, HV100
7	Micro-Vickers Hardness Testing Machine	
	1. Indirect verification of Micro - Vickers Hardness Testing Machine 2. Test force verification 3. Measurement of the Testing cycle 4. Indentation Diameter measuring system	HV 0.1, HV 0.2, HV 0.3, HV 0.5, HV 0.05, HV 0.025, HV 0.01
8	Leeb (Dynamic) Hardness Testing Machine	'D' Scale
9	Extensometer (Clipon type, Video, laser)	Upto 20 mm

Contd...

Suppliers of all types of testing machines, metallurgical instruments & microscopes, automotive components test rigs, upgradation of old machines.



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Sr. No.	Instrument Name	Range / Scale
10	Long Travel Extensometer	0 – 500 mm
11	Profile Projector (Angular / Magnification / Linear)	Upto 360° / upto 200 X / 0–250 mm
12	Microscope	Upto 1000 X
13	Charpy Impact Testing Machine ASTM	Upto 750 J
14	Izod Impact Testing Machine	Upto 750 J
15	Plastic Charpy & Izod Impact Testing Machine	Upto 50 J
16	Pressure / Hydraulic (Dial / Digital / Pressure Gauge & Pressure Transducers	0 – 700 bar
17	Erichsen Cupping Machine	Upto 20 mm
18	Weighing Balance	1 mg – 200g (LC 1 mg & above) 200 g – 3 kg (LC 0.1 g & above) 3 kg – 20 kg (LC 1 g & above)

2) FOR LOCATION II - CALIBRATION ACTIVITY:

Mechanical – Dimensional Instruments, Durometer, Torque Measuring Devices, Push pull tester.

Sr. No.	Instrument Name	Range / Scale
1	Load cell (Compression & Tension Mode)	Upto 1000 N
2	Industrial Torque Sensors	Upto 2000 Nm
3	Push Pull Tester	Upto 1000 Nm
4	Durometer	Shore 'A' & Shore 'D'
5	Surface Plate	3000 (L) x 3000 (W) mm
6	Clinometer	0 - 180°
7	Caliper (Dial, Digital & Vernier)	Upto 1000 mm
8	Height Gauge (Dial, Digital & Vernier)	Upto 600 mm
9	Depth Gauge (Dial, Digital & Vernier)	Upto 300 mm
10	External Micrometer	Upto 1000 mm
11	Micrometer Setting Rod	Upto 1000 mm
12	Internal Micrometer	Upto 300 mm
13	Depth Micrometer	Upto 300 mm
14	Dial Gauge (Plunger type)	Upto 25 mm
15	Lever type dial gauge	Upto 1 mm
16	Bore gauge Transmission	Upto 1.2mm
17	Electronic Probe	Upto 25 mm
18	Micrometer Head	Upto 25 mm
19	Radius Gauge	Upto 40 mm
20	Bevel Protractor	Upto 360°

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Sr. No.	Instrument Name	Range / Scale
21	Combination Set	Upto 360°
22	Radius of Penetrator / Punch of Erichsen Cupping Machine / Verification of Diameter	Upto 20 mm
23	Steel Scale	Upto 300 mm
24	Thread Pitch Gauge (55° & 60°)	0.17 to 7 mm
25	Test Sieves	Upto 125 mm
26	Measuring / Cylindrical Pins	Upto 20 mm
27	Thickness Foils	Upto 2 mm
28	Coating Thickness Gauge	Upto 2 mm
29	Ultrasonic Thickness Gauge	Upto 100 mm
30	Vickers / Knoop / Rockwell Diamond Cone Indenter (Angular Measurement)	120° & 136°
31	Vickers/ Knoop / Rockwell / Brinell Diamond cone Indenter–Ball Diameter Measurement	1 to 12.7 mm
32	Tracing Paper / Templates	Angle: 0° to 360°
		Radius: 0.2 to 25 mm
		Linear: 0 to 150 mm
33	Form Gauge any (Linear, Radius, Angle Measurement)	
34	Thickness Gauge	Upto 10 mm
35	Feeler Gauge	Upto 2 mm
36	Plain Plug Gauge	Upto 125 mm
37	Snap Gauge	Upto 150 mm
38	Thread Plug Gauge	Upto 100 mm

Our New Scope - Thermal related Instruments

Sr. No.	Instrument Name	Range / Scale
1	Indicator with sensor of Refrigerator, Cold Chamber	Up to 400°C
2	Indicator with sensor of thermal chamber, Dry / oil Bath	Up to 1200°C
3	Temperature indicator with sensor of liquid bath, Chambers and temperature calibrators	Up to 1200°C
4	RTD With Indicator/ without indicator	-25 °C to 400°C
5	Liquid in glass Thermometer, Temperature Gauge, Dial thermometer	35°C to 250°C
6	Thermocouple with or without indicator	Up to 1200°C
7	Oven , Furnace , Cold Chamber at single position	-80 °C to 1200 °C

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Our New Scope - Electro-Technical related Instruments

Sr. No.	Instrument Name	Range / Scale
1	Digital Multimeter (Upto 4.5 Digit) Voltmeter, Ammeter , Decade resistance boxes	DC Vtg
		1 mV to 1000 V
		AC Vtg @ 50 Hz to 1KHz
		10 mV to 1000 V
		AC Current @ 50 Hz to 1KHz
		0.2 mA to 10 A
		DC Current
		0.1 mA to 10 A
		Frequency
		50 Hz To 1000 Hz
2	Power Supply , Voltage Source , Current Source, Multifunction Calibrators, Resistance meter	AC Vtg @ 50 Hz to 1KHz
		1 mV-1000 V
		AC Current @ 50 Hz to 1KHz
		10 μ A to 10 A
		DC Vtg
		1 mV-1000 V
		DC Current
		10 μ A to 10 A
		Frequency
3	High current source	50 Hz To 1000 Hz
		AC Current @ 50 Hz
		Up to 1000 A
		DC Current
4	Clamp meter	Up to 1000 A
		AC Current @ 50 Hz
		Up to 1000 A
		DC Current
5	Stopwatch / Timer	Up to 1000 A
6	Temperature Indicator	1 sec to 24 Hrs.
		Types - RTD PT -100 (-25 °C to 400°C) Thermo couples -S, R, J, K, E, B, N, T (-25°C - 1200°C)

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