



National Accreditation Board for  
Testing and Calibration Laboratories

**CERTIFICATE OF ACCREDITATION**

**ACCUTRACE LABORATORY LLP**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2017**

**"General Requirements for the Competence of Testing &  
Calibration Laboratories"**

for its facilities at

E-14, MADHAVPURA MARKET, SHAHIBAUG, AHMEDABAD, GUJARAT, INDIA

in the field of

**CALIBRATION**

Certificate Number: CC-2590

Issue Date: 05/03/2023

Valid Until: 04/03/2025

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

Name of Legal Identity : AccuTrace Laboratory LLP

Signed for and on behalf of NABL



N. Venkateswaran  
Chief Executive Officer



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	ACCUTRACE LABORATORY LLP, E-14, MADHAVPURA MARKET, SHAHIBAUG, AHMEDABAD, GUJARAT, INDIA		
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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)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct method	100 µA to 100 mA	0.10 % to 0.16 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct method	100 mA to 10 A	0.16 % to 0.10 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct method	10 mV to 100 mV	0.1 % to 0.12 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct method	100 mV to 1000 V	0.12 % to 0.08 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1kHz	Using 6½ DMM by Direct method	1 nF to 100 µF	1.16 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5½ Digit Multi function Calibrator & 100 Turn Coil by direct method	0.2 mA to 2000 mA	0.425 % to 0.347 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5½ multi function Calibrator & 100 Turn Coil by Direct method	10 A to 1000 A	0.47 % to 1.22 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5½ Digit multi function Calibrator & 100 Turn Coil by direct method	2000 mA to 10 A	0.347 % to 0.47 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5½ Digit multi function Calibrator by Direct method	10 mV to 100 mV	0.64 % to 0.221 %





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10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5½ Digit multi function Calibrator by Direct method	100 mV to 1000 V	0.221 %
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1kHz	Using decade capacitance box by direct method	100 pF to 100 µF	1.22 %
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @ 1kHz	Using decade inductance box by direct method	0.1 mH to 10 H	2.3 % to 1.2 %
13	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct method	100 µA to 100 mA	0.09 %
14	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct method	100 mA to 10 A	0.09 % to 0.18 %
15	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct method	1 kV to 5 kV	2.71%



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16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct method	1 mV to 100 mV	0.18 % to 0.009 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct method	100 mV to 1000 V	0.009%
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital Multimeter by Direct method	1 ohm to 100 Mohm	0.16 % to 0.42 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital Multimeter by Direct method	100 Mohm to 1 Gohm	0.42 % to 0.28 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - Low Resistance	Using Std. Resistance Direct / VI Method	20 µohm to 1 ohm	0.08 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Digit Multifunction Calibrator by direct method	0.2 mA to 2000 mA	0.344 % to 0.23 %



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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Digit Multifunction Calibrator & 100 Turn Coil by direct method	10 A to 1000 A	1.143 % to 1.06 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Digit Multifunction Calibrator by Direct Method	2000 mA to 10 A	0.23 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Digit Multifunction calibrator by Direct method	1 mV to 100 mV	0.60 % to 0.127 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Digit Multifunction calibration by Direct method	100 mV to 1000 V	0.127 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage for pH meter	Using Universal Calibrator by Simulation Method	- 416.90 mV DC (14 pH) to 416.90 mV (0 pH)	0.09 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by direct method	1 kohm to 10 Mohm	0.503 %





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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct method	1 ohm to 1 kohm	0.67 % to 0.503 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	10 Mohm to 1 Gohm	0.116 % to 2.37 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - High Resistance	Using high resistance box by direct method	1 Gohm to 1000 Gohm	2.5 % to 8.45 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - Low Resistance	Using Micro resistance box by direct method	100 µohm to 1 ohm	6.75 % to 0.24 %
32	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J-Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	-200 °C to 1370 °C	0.3°C



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33	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	-200 °C to 1370 °C	0.7°C
34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	-200 °C to 1300 °C	0.22°C
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	0 °C to 1750 °C	0.7°C
36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD - Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	-150 °C to 800 °C	0.2°C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S-Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	0 °C to 1760 °C	0.8°C





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38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T-Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	-200 °C to 399 °C	0.9°C
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	-150 °C to 750 °C	0.1°C
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	-150 °C to 1350 °C	0.7°C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	-200 °C to 1300 °C	0.2°C
42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	0 °C to 1750 °C	0.7°C



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43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD - Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	-150 °C to 800 °C	0.12°C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S-Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	0 °C to 1750 °C	0.7°C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	-150 °C to 399.9 °C	0.3°C
46	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct method	45 Hz to 1000 Hz	0.13 % to 0.013 %
47	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer/Stopwatch (Mechanical/Digital)	Using Digital Timer by Comparison Method	1 s to 86400 s	0.4 s to 10 s



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48	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi function Calibrator 5½ Digit by Direct Method	45 Hz to 999.9 Hz	0.31 % to 0.065 %
49	FLUID FLOW-FLOW MEASURING DEVICES	Air Flow rate( High Volume Sampler / Respirable Dust Sampler / PM10 Sampler) Medium Air	Using Top loading calibrator by comparison method	0.6 m <sup>3</sup> /min to 1.5 m <sup>3</sup> /min	3.1%
50	FLUID FLOW-FLOW MEASURING DEVICES	Velocity ( Anemometers ) Medium Air	Using Anemometer in Wind Tunnel by Comparison method	0.23 m/s to 4 m/s	10.2%
51	FLUID FLOW-FLOW MEASURING DEVICES	Velocity ( Pitot tube/Anemometers ) Medium Air	Using Pitot Tube in Wind Tunnel by Comparison method	4.15 m/s to 29.84 m/s	1.7%
52	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow rate (Flow Meter / Rotameter / Dry Gas Meter / Flow Calibrator) Medium Air	Using Air flow calibrator by comparison method	0.5 lpm to 100 lpm	2.4%





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53	FLUID FLOW- FLOW MEASURING DEVICES	Volume Flow rate of flow measuring devices like (Flow Meter / Rotameter / Dry Gas Meter / Flow Calibrator) Medium Air	Using Air flow calibrator by comparison method	1 cc/min to 500 cc/min	2.2%
54	MECHANICAL- ACCELERATION AND SPEED	Centrifuge/rpm source (Non-contact)	Using Tachometer by comparison method	10 rpm to 100 rpm	0.36rpm
55	MECHANICAL- ACCELERATION AND SPEED	Centrifuge/rpm source (Non-contact)	Using Tachometer by comparison method	100 rpm to 1000 rpm	2.24 rpm
56	MECHANICAL- ACCELERATION AND SPEED	Centrifuge/rpm source (Non-contact)	Using Tachometer by comparison method	1000 rpm to 8000 rpm	3.15 rpm
57	MECHANICAL- ACCELERATION AND SPEED	RPM Meter / Centrifuge (Non-Contact)	Using tachometer by comparison method	8000 rpm to 90000 rpm	13.6rpm
58	MECHANICAL- ACCELERATION AND SPEED	Tachometer (Contact)	Using RPM source & Master Tachometer by Comparison Method	10 rpm to 100 rpm	0.36 rpm
59	MECHANICAL- ACCELERATION AND SPEED	Tachometer (Contact)	Using RPM source & Master Tachometer by Comparison Method	100 rpm to 1000 rpm	2.22 rpm



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60	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using RPM source & Master Tachometer by Comparison Method	1000 rpm to 8000 rpm	3.33 rpm
61	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using RPM source & Master Tachometer by Comparison Method	10 rpm to 100 rpm	0.36 rpm
62	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using RPM source & Master Tachometer by Comparison Method	100 rpm to 1000 rpm	2.22 rpm
63	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using RPM source & Master Tachometer by Comparison Method	1000 rpm to 8000 rpm	3.15 rpm
64	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-contact)	Using RPM source & Master Tachometer by Comparison Method	8000 rpm to 90000 rpm	12.6rpm
65	MECHANICAL-ACOUSTICS	Sound level meter	Using sound calibrator by comparison method	114 dB@ 1kHz	0.8dB
66	MECHANICAL-ACOUSTICS	Sound level meter	Using sound calibrator by comparison method	94 dB@ 1kHz	0.8dB



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67	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometer, Twaddle Hydrometer, Baume Hydrometer, Specific Hydrometer, Gravity Hydrometer, Brix Hydrometer, Lactometer, Alcometer.	Using Weighing Balance by Hydrostatic weighing method as per NISP SP 250-78 Standard.	0.6 g/ml to 1.8 g/ml	0.0004g/ml
68	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometer, Twaddle Hydrometer, Baume Hydrometer, Specific Hydrometer, Gravity Hydrometer, Brix Hydrometer, Lactometer, Alcometer.	Using Weighing Balance by Hydrostatic weighing method as per NISP SP 250-78 Standard.	1.8 g/ml to 2 g/ml	0.0006g/ml
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle inclinometer - (L.C.: 0.1°)	Using Angle Gauge by comparison method	0°-90°-0°	3.4minute of arc
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angular scale/angle measurement - (L.C.: 1°)	Using profile projector by comparison method	0 ° to 360 °	9 minute of arc





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71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor - (L.C.: 5 minute)	Using Angle Gauge by Comparison Method	0-90-0 °	3.5minute of arc
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge - Transmission Error (L.C.: 0.001 mm)	Using Dial Calibration Tester (L.C. 0.2 µm) by Comparison Method	Up to 1.0 mm	3.5 µm
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bridge Cam Gauge / Weld Gauge - linear scale (L.C.: 1mm)	Using Profile Projector by comparison method	0 to 60 mm	228µm
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Caliper Checker & External Micrometer by Comparison Method	0 to 300 mm	11 µm
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Caliper Checker & External Micrometer by Comparison Method	0 to 600 mm	15.0µm



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76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Chamfer Gauge	Using Profile Projector by comparison method	0.5 mm to 5 mm	25.7µm
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating thickness gauge	Using Standard foils by comparison method	525 µm to 1999 µm	3µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating thickness gauge - (L.C.: 0.0001 mm)	Using Standard foils by comparison method	10 µm to 525 µm	2.3 µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set (L.C.: 1°)	Using Angle Gauge by Comparison Method	0 ° to 90 °	35 minute of arc
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Gauges Block Set & Surface Plate by Comparison Method	0 to 150 mm	10 µm



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81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge - (L.C : 0.01 mm)	using slip gauges, long slip gauge & surface plate by comparison method	0 to 600 mm	10µm
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth micrometer - ( L.C.:0.01 mm)	Using slip gauge set & surface plate by comparison method	0 to 150 mm	10µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer - (L.C : 0.01 mm)	using slip gauges & surface plate by comparison method	0 to 300 mm	8µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.001 mm)	Using Gauge Block Set by Comparison Method	0 to 12.7 mm	1.5µm
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge - (L.C.: 0.01 mm)	Using Gauge Block Set by Comparison Method	0 to 25 mm	9.9µm





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86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer - Mechanical & Electrical (L.C.: 0.001 mm)	Using extensometer fixture and Dig plunger Gauge as per by comparison method	0 to 25 mm	4 μm
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Dial /Digital (L.C.: 0.001 mm)	Using Gauge Block Set by Comparison Method	0 to 150 mm	1.7μm
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Dial /Digital (L.C.: 0.01 mm)	Using Gauge Block Set, long slip gauges by Comparison Method	0 to 1500 mm	15μm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Plunger Dial Gauge & Comparator Stand By Comparison Method	Up to 1.0 mm	2 μm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using long slip gauge set & surface plate by comparison method	0 to 1000 mm	14μm



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91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Caliper Checker & Surface Plate by Comparison Method	0 to 600 mm	11 µm
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Indenter / Impact distance Gauge / Special Gauges Template / Inspection Jig & fixtures - Linear measurement	Using profile projector by comparison method	0 to 200 mm	10µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Caliper - (L.C : 0.01 mm)	Using slip gauges & caliper checker by comparison method	0 to 150 mm	16µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge - (L.C.: 0.01 mm)	Using Dial Calibration Tester by Comparison Method	0 to 0.8 mm	6.7 µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge - (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 0.2 mm	3.3µm



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96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LVDT With indicator / Electronic probe with DRO /Plunger dial gauge - ( L.C.: 0.0001 mm)	Using Slip gauge set & comparator stand by comparison method	0 to 25 mm	1.8µm
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LVDT with indicator-Plunger gauge - (L.C.: 0.01 mm)	Using Slip gauge set & comparator stand by comparison method	0 to 150 mm	30µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring pin	Using Dial gauge & Slip gauge set by comparison method	0.1 mm to 20 mm	2.52µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale - ( L.C.: 0.5 /1 mm)	using Tape & Scale Calibrator by comparison method	0 to 2000 mm	225xSqrt(L) µm, where L in m
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape/PI Tape - (L.C.: 0.1 / 0.01 mm)	Using Tape & Scale Calibrator by comparison method	0 to 50 m	225*sqrt(L)µm





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101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Gauge Block Set, Plunger Dial Gauge & Comparator Stand by Comparison Method	25 mm to 1475 mm	13 µm
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper - (L.C. 0.1 mm)	Using slip gauge set by comparison method	0 to 100 mm	78µm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain plug gauge	Using slip gauge set, comparator stand & Plunger type dial Gauge by comparison method	3 mm to 200 mm	3.5µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge - (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 25 mm	3.3 µm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger dial gauge L.C: 0.001 mm	Using Granite Comparator, Slip Gauge by comparison method	0 to 50 mm	3.5um



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106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger dial gauge / LVDT With Indicator (L.C.: 0.01 mm)	Using Slip gauge set & comparator stand by comparison method	0 to 100 mm	8µm
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector by Comparison Method	Up to 50 mm	35 µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap gauge	Using slip gauge set by comparison method	2 mm to 150 mm	2µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit level - (L.C.: 0.01 mm/m)	Using Dial gauge & Tilting Fixture by Comparison Method	1.0 mm/m	4.0µm/m
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Foils	Using Plunger Dial Gauge & Comparator Stand by Comparison Method	10 µm to 2000 µm	2 µm



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111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Std Wire gauge	Using Profile Projector by comparison method	0.19 mm to 7.62 mm	8.4µm
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale	Using Tape & Scale Calibrator by comparison method	0 to 1000 mm	225*sqrt(L)µm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper gauge (length of taper scale)	Using Profile Projector by comparison method	0 to 15 mm	57µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Template / Flakiness & elongation Index / cube mould / Inspection Jig & fixtures - Linear measurement	Using Caliper by comparison method	0 to 200 mm	34 µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Profile Projector by Comparison Method	25 µm to 4.0 mm	4µm





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116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Digital Caliper by Comparison Method	4 mm to 125 mm	31 μm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread pitch gauge(Pitch)	Using Profile Projector by comparison method	up to 7 mm	13.4μm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective Diameter & Major Diameter)	Using Floating Carriage Diameter Measuring Machine, Cylindrical Setting Standards And Thread Measuring Wire by comparison method	2 mm to 100 mm	4μm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge	Using Slip Gauge & long slip gauges Set by comparison method	0 to 100 mm	75 μm
120	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial calibration tester - Mechanical & Electrical (L.C.: 0.0002mm)	Using Slip gauge set & Dig plunger gauge by comparison method	0 to 25 mm	0.5μm



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121	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic probe with stand (L. C. 0.0001 mm)	using Gauge block set by comparison method	0 to 25 mm	0.5µm
122	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Linear probe / LVDT - (L.C: 0.001 mm)	Using Granite Comparator, Slip Gauge by comparison method	0 to 50 mm	3.6µm
123	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope	Using glass scale by comparison method	Up to 1000 x	1.1%
124	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile projector / Video measuring machine Angular - (L..C.: 1 sec)	Using angular scale by comparison method	0 ° to 360 °	3 min
125	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile projector / Video measuring machine Linear measurement - (L.C: 0.001 mm)	Using glass scale by comparison method	0 to 200 mm	3µm
126	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile projector / Video measuring machine Magnification	Using glass scale & Caliper by comparison method	10 X to 100 X	0.3 %
127	MECHANICAL-DUROMETER	Rubber Hardness Tester - Shore A	Using Dial calibration tester by depth indenter as per ASTM D 2240	0 Shore A to 100 Shore A	0.95 Shore A



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128	MECHANICAL-DUROMETER	Rubber Hardness Tester - Shore D	Using Using Dial calibration tester by depth indenter as per ASTM D 2240	0 Shore D to 100 Shore D	0.95 Shore D
129	MECHANICAL-HARDNESS TESTING MACHINES	Indentation Measuring system of Brinell / Vickers Hardness Tester	Using glass scale as per IS 1500 Part 2 : 2021, IS 1501 Part 2 : 2020, ASTM E-10 : 2018 ASTM-92: 2017	0 to 7 mm	6.05 µm
130	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure/ Pressure Gauge (Digital / Analog) Pressure Transmitter, Pressure Transducer (with Display), Pressure Switch	Using Digital Pressure Gauge & Pressure Comparator, Universal calibrator/Digital multimeter as per DKD R-6-1 by Comparison Method	0 to 70 bar	0.25 bar
131	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure/ Pressure Gauge (Digital / Analog) Pressure Transmitter, Pressure Transducer (with Display), Pressure Switch	Using Digital Pressure Gauge & Pressure Comparator, Universal calibrator/Digital multimeter as per DKD R-6-1 by Comparison Method	0 to 700 bar	0.25 bar





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132	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure/ Pressure Gauge (Digital / Analog) Pressure Transmitter, Pressure Transducer (with Display), Pressure Switch	Using Digital Pressure Gauge & Pressure Comparator Universal calibrator/Digital multimeter as per DKD R-6-1 by Comparison Method	0 bar to 1000 bar	0.61bar
133	MECHANICAL-PRESSURE INDICATING DEVICES	Low pressure (Manometer / Magnehalic gauge / Pressure gauge (analog / Digital) / Trasmmitter	Using Digital Pressure Gauge, MFC & Pressure Pump as per DKD R-6-1 by Comparison Method	0 to 50 mbar	0.05mbar
134	MECHANICAL-PRESSURE INDICATING DEVICES	Low pressure (Manometer / Magnehalic gauge / Pressure gauge (analog / Digital) / Transmitterr	Using Digital Pressure Gauge, MFC & Pressure Pump as per DKD R-6-1 by Comparison Method	-50 mbar to 0 mbar	0.05mbar
135	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure/ Pressure Gauge (Digital / Analog) Pressure Transmitter, Pressure Transducer (with Display), Pressure Switch	Using Digital Pressure Gauge & Pressure Pump, Universal calibrator/Digital multimeter as per DKD R-6-1 by Comparison Method	0 to 35 bar	0.014 bar



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136	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Absolute), Barometers, Manometers, Transmitter - Analog/Digital	Using Digital Pressure Gauge & Pressure Pump Universal calibrator/Digital multimeter as per DKD R-6-1 by Comparison Method	300 mbar A to 1164 mbar A	0.57mbar
137	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Pressure/ Pressure Gauge (Digital / Analog) Pressure Transmitter, Pressure Transducer (with Display), Pressure Switch	Using Digital Pressure Gauge & Pressure Pump Universal calibrator/Digital multimeter as per DKD R-6-2 by Comparison Method	-0.85 bar to 0 bar	0.012 bar
138	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench {Type-I (Class A, B, C, D, E) & Type-II (Class A, B, C, D, E, F, G)}	Using Torque Transducers with Indicator by Comparison Method as per ISO 16906: 2018	0.2 Nm to 20 Nm	1.55 %
139	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench {Type-I (Class A, B, C, D, E) & Type-II (Class A, B, C, D, E, F, G)}	Using Torque Transducers with Indicator by Comparison Method as per ISO 16906: 2018	20 Nm to 200 Nm	1.55 %



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140	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench {Type-I (Class A, B, C, D, E) & Type-II (Class A, B, C, D, E, F, G)}	Using Torque Transducers with Indicator by Comparison Method as per ISO 16906: 2018	200 Nm to 2000 Nm	1.66 %
141	MECHANICAL-VOLUME	Butyrometer	Using semi micro Balance (readability 0.01 mg), Mercury of Known Density By Gravimetric Method	0 % to 90 %	1%
142	MECHANICAL-VOLUME	Glassware Measuring Cylinder / Volumetric Flask / Conical Flask / Beaker	Using Precision Balance (readability 1 mg), Thermometer & Water of Known Density by Gravimetric Method	100 ml to 1000 ml	0.15 ml
143	MECHANICAL-VOLUME	Glassware Measuring Cylinder / Volumetric Flask / Conical Flask / Beaker	Using Precision Balance (readability 1 mg), Thermometer & Water of Known Density by Gravimetric Method	1000 ml to 2000 ml	0.11ml
144	MECHANICAL-VOLUME	Glassware Measuring Cylinder / Volumetric Flask / Conical Flask / Beaker	Using Precision Balance (readability 10 mg), Thermometer & Water of Known Density by Gravimetric Method	2000 ml to 5000 ml	2ml





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145	MECHANICAL-VOLUME	Glassware Measuring Cylinder / Volumetric Flask / Conical Flask / Beaker / Pipette ( volumetric / graduated) / Burett	Using semi micro Balance (readability 0.01 mg), Thermometer & Water of Known Density by Gravimetric Method	1 ml to 10 ml	3µl
146	MECHANICAL-VOLUME	Glassware Measuring Cylinder / Volumetric Flask / Conical Flask / Beaker / Pipette ( volumetric / graduated) / Burette	Using semi micro Balance (readability 0.01 mg), Thermometer & Water of Known Density by Gravimetric Method	10 ml to 100 ml	25µl
147	MECHANICAL-VOLUME	Micro Pipette	Using Micro Balance (readability 0.001 mg), Thermometer & Water of Known Density by Gravimetric Method	0.1 µl to 1 µl	0.07µl
148	MECHANICAL-VOLUME	Micro Pipette	Using Micro Balance (readability 0.001 mg), Thermometer & Water of Known Density by Gravimetric Method	1 µl to 10 µl	0.11ul



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149	MECHANICAL-VOLUME	Micro Pipette	Using Micro Balance (readability 0.001 mg) & semi micro Balance (readability 0.01 mg), Thermometer & Water of Known Density by Gravimetric Method	10 µl to 100 µl	0.58 µl
150	MECHANICAL-VOLUME	Micro Pipette	Using semi micro Balance (readability 0.01 mg), Thermometer & Water of Known Density by Gravimetric Method	100 µl to 1000 µl	0.69 µl
151	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability: 0.01 mg), Class I	Using Standard Weights of E1 Accuracy Class as per OIML R 76-1	Up to 200 g	0.06mg
152	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability: 1 g), Class III	Using Standard Weights of F1 Accuracy Class as per OIML R 76-1	30 kg to 50 kg	2.4 g
153	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability: 1 mg), Class II	Using Standard Weights of E2 & F1 Accuracy Class as per OIML R 76-1	200 g to 1000 g	2.4mg



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154	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability: 10 mg), Class II	Using Standard Weights of F1 Accuracy Class as per OIML R 76-1	1 kg to 6 kg	14 mg
155	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability: 100 mg), Class III	Using Standard Weights of F1 Accuracy Class as per OIML R 76-1	6 kg to 30 kg	100mg
156	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability:20 g), Class IV	Using Standard Weights of M1 Accuracy Class as per OIML R 76-1	100 kg to 200 Kg	47g
157	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability:50 g), Class IV	Using Standard Weights of M1 Accuracy Class as per OIML R 76-1	200 kg to 500 kg	63 g
158	MECHANICAL-WEIGHTS	Weights (Accuracy Class F2 and Coarser)	Using Standard Weights of F1 Accuracy Class with Digital Balance (Readability: 0.1 g) as per OIML R 111 by ABBA method	20000 g	94 mg
159	MECHANICAL-WEIGHTS	Weights (Accuracy Class M1 and Coarser)	Using Standard Weights of F1 Accuracy Class with Digital Balance (Readability: 0.1 g) as per OIML R 111 by ABBA method	10000 g	94mg





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160	MECHANICAL-WEIGHTS	Weights / Mass (Accuracy Class E2 and coarser)	Using E1 Accuracy Class Standard Weights & Mass Comparator / Balances as per OIML R 111 by ABBA Method	1 g	0.003mg
161	MECHANICAL-WEIGHTS	Weights / Mass (Accuracy Class E2 and coarser)	Using E1 Accuracy Class Standard Weights & Mass Comparator/Balance as per OIML R 111 by ABBA Method	1 mg	0.001mg
162	MECHANICAL-WEIGHTS	Weights / Mass (Accuracy Class E2 and coarser)	Using E1 Accuracy Class Standard Weights & Mass Comparator / Balances as per OIML R 111 by ABBA Method	10 g	0.01mg
163	MECHANICAL-WEIGHTS	Weights / Mass (Accuracy Class E2 and coarser)	Using E1 Accuracy Class Standard Weights & Mass Comparator/Balance as per OIML R 111 by ABBA Method	10 mg	0.001mg



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164	MECHANICAL-WEIGHTS	Weights / Mass (Accuracy Class E2 and coarser)	Using E1 Accuracy Class Standard Weights & Mass Comparator / Balance as per OIML R 111 by ABBA Method	100 g	0.02mg
165	MECHANICAL-WEIGHTS	Weights / Mass (Accuracy Class E2 and coarser)	Using E1 Accuracy Class Standard Weights & Mass Comparator / Balances as per OIML R 111 by ABBA Method	100 mg	0.001mg
166	MECHANICAL-WEIGHTS	Weights / Mass (Accuracy Class E2 and coarser)	Using E1 Accuracy Class Standard Weights & Mass Comparator / Balance as per OIML R 111 by ABBA Method	2 g	0.004mg
167	MECHANICAL-WEIGHTS	Weights / Mass (Accuracy Class E2 and coarser)	Using E1 Accuracy Class Standard Weights & Mass Comparator/Balance as per OIML R 111 by ABBA Method	2 mg	0.001mg



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168	MECHANICAL-WEIGHTS	Weights / Mass (Accuracy Class E2 and coarser)	Using E1 Accuracy Class Standard Weights & Mass Comparator / Balance as per OIML R 111 by ABBA Method	20 mg	0.001mg
169	MECHANICAL-WEIGHTS	Weights / Mass (Accuracy Class E2 and coarser)	Using E1 Accuracy Class Standard Weights & Mass Comparator/Balance as per OIML R 111 by ABBA Method	200 g	0.03mg
170	MECHANICAL-WEIGHTS	Weights / Mass (Accuracy Class E2 and coarser)	Using E1 Accuracy Class Standard Weights & Mass Comparator / Balance as per OIML R 111 by ABBA Method	200 mg	0.002mg
171	MECHANICAL-WEIGHTS	Weights / Mass (Accuracy Class E2 and coarser)	Using E1 Accuracy Class Standard Weights & Mass Comparator / Balance as per OIML R 111 by ABBA Method	5 g	0.005mg





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172	MECHANICAL-WEIGHTS	Weights / Mass (Accuracy Class E2 and coarser)	Using E1 Accuracy Class Standard Weights & Mass Comparator/Balance as per OIML R 111 by ABBA Method	5 mg	0.001mg
173	MECHANICAL-WEIGHTS	Weights / Mass (Accuracy Class E2 and coarser)	Using E1 Accuracy Class Standard Weights & Mass Comparator / Balance as per OIML R 111 by ABBA Method	50 mg	0.001mg
174	MECHANICAL-WEIGHTS	Weights / Mass (Accuracy Class E2and coarser)	Using E1 Accuracy Class Standard Weights & Mass Comparator / Balance as per OIML R 111 by ABBA Method	500 mg	0.002mg
175	MECHANICAL-WEIGHTS	Weights / Mass Accuracy Class F1 and coarser	Using Standard Weights of E1 & E2 Accuracy Class with Digital Balance (Readability: 0.001 g) as per OIML R 111 by ABBA method	1000 g	1.06mg



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176	MECHANICAL-WEIGHTS	Weights / Mass Accuracy Class F2 and coarser	Using Standard Weights of F1,E2 & E1 Accuracy Class with Digital Balance (Readability: 0.001 g) as per OIML R 111 by ABBA method	2000 g	1.36mg
177	MECHANICAL-WEIGHTS	Weights /Mass - Accuracy Class F1 and coarser	Using Standard Weights of E1 Accuracy Class with Digital Balance (Readability: 0.001 g) as per OIML R 111 by ABBA method	500 g	1mg
178	MECHANICAL-WEIGHTS	Weights Accuracy Class F2 and coarser	Using Standard Weights of F1 Accuracy Class with Digital Balance (Readability: 0.01 g) as per OIML R 111 by ABBA method	5000 g	11 mg
179	MECHANICAL-WEIGHTS	Weights/Mass (Accuracy Cass E2 and coarser)	Using E1 Accuracy Class Standard Weights & Mass Comparator/Balance as per OIML R 111 by ABBA Method	20 g	0.01mg



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180	MECHANICAL-WEIGHTS	Weights/Mass (Accuracy Class E2 and coarser)	Using E1 Accuracy Class Standard Weights & Mass Comparator - Balance as per OIML R 111 by ABBA Method	50 g	0.01mg
181	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with Sensor of Humidity Calibrator / Generator Chamber	Using Temp.+RH Sensor with Indicator (Single Position Calibration) by comparison method	10 °C to 50 °C @ 50 %rh	0.5°C
182	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with Sensor of Humidity Calibrator / Generator Chamber	Using Temp.+RH Sensor with Indicator (Single Position Calibration) by comparison method	20 % rh to 95 % rh @25°C	1.2 %rh
183	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator, Data Logger, Thermo-hygrometer, Temp-Humidity Sensor, Dry & Wet thermometer	Using Temp.+RH Sensor with Indicator & Humidity Generator with Chamber by comparison method	10 °C to 50 °C	0.4°C
184	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator, Humidity Transmitter, Data Logger, Thermo-hygrometer, Humidity Sensor	Using Temp.+RH Sensor with Indicator & Humidity Generator with Chamber by comparison method	20 %rh to 95 %rh @ 25°C	0.98 %rh





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185	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity sensor with Indicator, Humidity Transmitter, Data Logger with sensor, Thermo-hygrometer with Sensor, Dry & Wet thermometer	Using PT-100 Sensor with Indicator & Temp -Humidity Generator with Chamber by comparison method	0 °C to 50 °C @ 50% RH	0.32°C
186	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with Sensor of Humidity Calibrator / Generator Chamber	Using PT-100 Sensor with Indicator by comparison method	0 °C to 50 °C @ 50% RH	0.32 °C
187	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using 4 wire RTD with Indicator & Liquid Bath by comparison method	(-) 80 °C to 50 °C	0.34°C
188	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using 4 wire RTD with Indicator & Liquid Bath by comparison method	50 °C to 250 °C	0.34°C
189	THERMAL-TEMPERATURE	Non Contact Thermometry & Infrared Thermometers, Pyrometers, Thermal Imagers	Using Pyrometer with Black Body Source by comparison method	50 °C to 500 °C	3.0°C



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190	THERMAL-TEMPERATURE	Non-Contact Thermometry & Infrared Thermometers, Pyrometers, Thermal Imagers	Using Pyrometer with Black Body Source (0.95 emissivity) by comparison method	25 °C to 50 °C	3°C
191	THERMAL-TEMPERATURE	Oven, Furnace, Incubator, Chamber, Autoclave, BOD	Using 9 RTD Sensors with Multi Channel Data Logger by Comparison Method	0 °C to 300 °C	2.5°C
192	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge, Datalogger with sensor & without sensor, Transducer, Transmitter	Using 4 Wire PT 100 with indicator using dry Bath by comparison method	-35 °C to 50 °C	0.11°C
193	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge, Transducer, Transmitter	Using SSPRT Sensor with Indicator & Liquid Nitrogen Bath by Comparison Method	-196 °C	0.19°C



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194	THERMAL-TEMPERATURE	RTD / Thermocouple with or without indicator/ Recorder / Controller, Digital Thermometer, Temperature Gauge	Using 4 Wire RTD with indicator, oil bath by comparison method	50 °C to 250 °C	0.19°C
195	THERMAL-TEMPERATURE	RTD / Thermocouple with or without indicator/ Recorder / Controller, Digital Thermometer, Temperature Gauge, Transducer, Transmitter	Using 4 Wire PT 100 with indicator & Liquid Bath by comparison method	(-) 80 °C to 50 °C	0.19°C
196	THERMAL-TEMPERATURE	RTD / Thermocouple with or without indicator/ Recorder / Controller, Digital Thermometer, Temperature Gauge, Transducer, Transmitter	Using 4 wire RTD with indicator & dry bath by comparison method	250 °C to 400 °C	0.4 °C
197	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Chamber / Dry Block / Deep Freezer / Refrigerator	Using 4 wire RTD with Indicator by comparison method	-80 °C to 0 °C	0.19°C





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198	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Chamber / Industrial Incubator/ Liquid Bath / Dry Block / Oven / Autoclave / Refrigerator/oil bath / COD/ BOD	Using 4 wire RTD with Indicator by comparison method	0 °C to 300 °C	0.16°C
199	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Furnace / Oven / Muffle Furnace	Using S-type Thermocouple with Temperature Indicator (Single Position Calibration) by comparison method	300 °C to 1200 °C	2.3°C
200	THERMAL-TEMPERATURE	Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge	Using S-type thermocouple with indicator & dry block furnace by comparison method	400 °C to 1200 °C	2.02°C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct method	100 µA to 100 mA	0.10 % to 0.16 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct method	100 mA to 10 A	0.16 % to 0.10 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with DMM by Direct method	1 kV to 27 kV	2.0%
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct method	10 mV to 100 mV	0.1 % to 0.12 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct method	100 mV to 1000 V	0.12 % to 0.08 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1kHz	Using 6½ DMM by Direct method	1 nF to 100 µF	1.16 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5½ Digit Multi function Calibrator & 100 Turn Coil by direct method	0.2 mA to 2000 mA	0.425 % to 0.347 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5½ multi function Calibrator & 100 Turn Coil by Direct method	10 A to 1000 A	0.47 % to 1.22 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5½ Digit multi function Calibrator & 100 Turn Coil by direct method	2000 mA to 10 A	0.347 % to 0.47 %





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10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5½ Digit multi function Calibrator by Direct method	10 mV to 100 mV	0.64 % to 0.221 %
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5½ Digit multi function Calibrator by Direct method	100 mV to 1000 V	0.221 %
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1kHz	Using decade capacitance box by direct method	100 pF to 100 µF	1.22 %
13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @ 1kHz	Using decade inductance box by direct method	0.1 mH to 10 H	2.3 % to 1.2 %
14	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct method	100 µA to 100 mA	0.09 %
15	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct method	100 mA to 10 A	0.09 % to 0.18 %



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16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High voltage probe with DMM by Direct method	1 kV DC to 16 kV DC	3.6 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct method	1 kV to 5 kV	2.71%
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct method	1 mV to 100 mV	0.18 % to 0.009 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct method	100 mV to 1000 V	0.009%
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital Multimeter by Direct method	1 ohm to 100 Mohm	0.16 % to 0.42 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital Multimeter by Direct method	100 Mohm to 1 Gohm	0.42 % to 0.28 %



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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Digit Multifunction Calibrator by direct method	0.2 mA to 2000 mA	0.344 % to 0.23 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Digit Multifunction Calibrator & 100 Turn Coil by direct method	10 A to 1000 A	1.143 % to 1.06 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Digit Multifunction Calibrator by Direct Method	2000 mA to 10 A	0.23 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Digit Multifunction calibrator by Direct method	1 mV to 100 mV	0.60 % to 0.127 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Digit Multifunction calibration by Direct method	100 mV to 1000 V	0.127 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage for pH meter	Using Universal Calibrator by Simulation Method	- 416.90 mV DC (14 pH) to 416.90 mV (0 pH)	0.09 %





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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by direct method	1 kohm to 10 Mohm	0.503 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct method	1 ohm to 1 kohm	0.67 % to 0.503 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	10 Mohm to 1 Gohm	0.116 % to 2.37 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - High Resistance	Using high resistance box by direct method	1 Gohm to 1000 Gohm	2.5 % to 8.45 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - Low Resistance	Using Micro resistance box by direct method	100 µohm to 1 ohm	6.75 % to 0.24 %



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33	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J-Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	-200 °C to 1370 °C	0.3°C
34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	-200 °C to 1370 °C	0.7°C
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	-200 °C to 1300 °C	0.22°C
36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	0 °C to 1750 °C	0.7°C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD - Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	-150 °C to 800 °C	0.2°C



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38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S-Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	0 °C to 1760 °C	0.8°C
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T-Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	-200 °C to 399 °C	0.9°C
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	-150 °C to 750 °C	0.1°C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	-150 °C to 1350 °C	0.7°C
42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	-200 °C to 1300 °C	0.2°C





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43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	0 °C to 1750 °C	0.7°C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD - Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	-150 °C to 800 °C	0.12°C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S-Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	0 °C to 1750 °C	0.7°C
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-Type Thermocouple (Indicator / Controller / Recorder/ Data Logger / Scanner)	Using Universal Calibrator by Simulation Method	-150 °C to 399.9 °C	0.3°C
47	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct method	45 Hz to 1000 Hz	0.13 % to 0.013 %



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48	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer/Stopwatch (Mechanical/Digital)	Using Digital Timer by Comparison Method	1 s to 86400 s	0.4 s to 10 s
49	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi function Calibrator 5½ Digit by Direct Method	45 Hz to 999.9 Hz	0.31 % to 0.065 %
50	FLUID FLOW-FLOW MEASURING DEVICES	Air Flow rate( High Volume Sampler / Respirable Dust Sampler / PM10 Sampler) Medium Air	Using Top loading calibrator by comparison method	0.6 m <sup>3</sup> /min to 1.5 m <sup>3</sup> /min	3.1%
51	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow rate (Flow Meter / Rotameter / Dry Gas Meter / Flow Calibrator) Medium Air	Using Air flow calibrator by comparison method	0.5 lpm to 100 lpm	2.4%
52	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow rate of flow measuring devices like (Flow Meter / Rotameter / Dry Gas Meter / Flow Calibrator) Medium Air	Using Air flow calibrator by comparison method	1 cc/min to 500 cc/min	2.2%



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53	MECHANICAL-ACCELERATION AND SPEED	Centrifuge/rpm source (Non-contact)	Using Tachometer by comparison method	10 rpm to 100 rpm	0.36rpm
54	MECHANICAL-ACCELERATION AND SPEED	Centrifuge/rpm source (Non-contact)	Using Tachometer by comparison method	100 rpm to 1000 rpm	2.24 rpm
55	MECHANICAL-ACCELERATION AND SPEED	Centrifuge/rpm source (Non-contact)	Using Tachometer by comparison method	1000 rpm to 8000 rpm	3.15 rpm
56	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Centrifuge (Non-Contact)	Using tachometer by comparison method	8000 rpm to 90000 rpm	13.6rpm
57	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using RPM source & Master Tachometer by Comparison Method	10 rpm to 100 rpm	0.36 rpm
58	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using RPM source & Master Tachometer by Comparison Method	100 rpm to 1000 rpm	2.22 rpm
59	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using RPM source & Master Tachometer by Comparison Method	1000 rpm to 8000 rpm	3.33 rpm
60	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using RPM source & Master Tachometer by Comparison Method	10 rpm to 100 rpm	0.36 rpm





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61	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using RPM source & Master Tachometer by Comparison Method	100 rpm to 1000 rpm	2.22 rpm
62	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using RPM source & Master Tachometer by Comparison Method	1000 rpm to 8000 rpm	3.15 rpm
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer - Mechanical & Electrical (L.C.: 0.001 mm)	Using extensometer fixture and Dig plunger Gauge as per by comparison method	0 to 25 mm	4 μm
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using long slip gauge set & surface plate by comparison method	0 to 1000 mm	14μm
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Spirit Level & Dial by Comparison Method	3000 mm x 3000 mm	1.6 sqrt $\{(L+W)/125\}$ μm, 'L' & 'W' in mm



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66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tape & Scale Calibrator (L.C.: 0.001 mm)	Using Slip Gauge Set & long Slip gauges by comparison method	0 to 1000 mm	16µm
67	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope	Using glass scale by comparison method	Up to 1000 x	1.1%
68	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile projector / Video measuring machine Angular - (L.C.: 1 sec)	Using angular scale by comparison method	0 ° to 360 °	3 min
69	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile projector / Video measuring machine Linear measurement - (L.C: 0.001 mm)	Using glass scale by comparison method	0 to 200 mm	3µm
70	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile projector / Video measuring machine Magnification	Using glass scale & Caliper by comparison method	10 X to 100 X	0.3 %
71	MECHANICAL-HARDNESS TESTING MACHINES	Indentation Measuring system of Brinell / Vickers Hardness Tester	Using glass scale as per IS 1500 Part 2 : 2021, IS 1501 Part 2 : 2020, ASTM E-10 : 2018 ASTM-92: 2017	0 to 7 mm	6.05 µm



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72	MECHANICAL-HARDNESS TESTING MACHINES	Verification Of Brinell Hardness Testing Machine	Using Standard Hardness Testing Blocks as Per IS 1500-2: 2021, & ASTM E-10: 2018	HBW 10/3000	1.7%
73	MECHANICAL-HARDNESS TESTING MACHINES	Verification Of Brinell Hardness Testing Machine	Using Standard Hardness Testing Blocks as Per IS 1500-2: 2021, & ASTM E-10: 2018	HBW 2.5/187.5	2%
74	MECHANICAL-HARDNESS TESTING MACHINES	Verification Of Brinell Hardness Testing Machine	Using Standard Hardness Testing Blocks as Per IS 1500-2: 2021, & ASTM E-10: 2018	HBW 5/750	1.7%
75	MECHANICAL-HARDNESS TESTING MACHINES	Verification Of Rockwell Hardness Testing Machine	Using Standard Hardness Testing Blocks As Per IS 1586-2:2018, & ASTM E-18 :2022	HRA	0.83HRA
76	MECHANICAL-HARDNESS TESTING MACHINES	Verification Of Rockwell Hardness Testing Machine	Using Standard Hardness Testing Blocks As Per IS 1586-2:2018, & ASTM E-18 :2022	HRBW	1.13HRBW
77	MECHANICAL-HARDNESS TESTING MACHINES	Verification Of Rockwell Hardness Testing Machine	Using Standard Hardness Testing Blocks As Per IS 1586-2:2018, & ASTM E-18 :2022	HRC	0.71HRC





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78	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Test Force Measurement of Hardness machines Rockwell, Rockwell superficial,brinell,vickers& micro vickers	Using load cell with indicator AS Per IS 1586-2 : 2018, ISO 6508-2 : 2015 & IS 1500-2:2021, ISO 6506-2:2017 & IS 1501-2:2020, ISO 6507-2:2018	5 N to 29421 N	0.51%
79	MECHANICAL-HARDNESS TESTING MACHINES	Verification Of Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks As Per IS 1501-2:2020 , & ASTM E-92: 2017	HV 10	2.7%
80	MECHANICAL-HARDNESS TESTING MACHINES	Verification Of Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks As Per IS 1501-2:2020 , & ASTM E-92: 2017	HV 30	2.1 %
81	MECHANICAL-IMPACT TESTING MACHINE	Verification of Charpy Impact Testing Machine	Using Impact Testing Kit As Per IS 3766, ISO 148-2 & ASTM E-23. (Direct Method)	0 J to 400 J	0.60 %
82	MECHANICAL-IMPACT TESTING MACHINE	Verification of Charpy Plastic Impact Testing Machine	Using Impact Testing Kit As Per ISO 13802 & ASTM D6110 (Direct Method)	0 J to 50 J	0.50 %



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83	MECHANICAL-IMPACT TESTING MACHINE	Verification of Charpy / Izod Impact Testing Machine	Using Impact Testing Kit As Per IS 3766, ISO 148-2 , ASTM E-23 & BS 131 P -4 (Indirect Method)	0 J to 400 J	7.88 %
84	MECHANICAL-IMPACT TESTING MACHINE	Verification of Izod Impact Testing Machine	Using Impact Testing Kit As Per BS 131 Part 4 (Direct method)	0 J to 400 J	0.60 %
85	MECHANICAL-IMPACT TESTING MACHINE	Verification of Izod Plastic Impact Testing Machine	Using Impact Testing Kit As Per ISO 13802 & ASTM D256 (Direct Method)	0 J to 50 J	0.50 %
86	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure/ Pressure Gauge (Digital / Analog) Pressure Transmitter, Pressure Transducer (with Display), Pressure Switch	Using Digital Pressure Gauge & Pressure Comparator, Universal calibrator/Digital multimeter as per DKD R-6-1 by Comparison Method	0 to 70 bar	0.25 bar
87	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure/ Pressure Gauge (Digital / Analog) Pressure Transmitter, Pressure Transducer (with Display), Pressure Switch	Using Digital Pressure Gauge & Pressure Comparator, Universal calibrator/Digital multimeter as per DKD R-6-1 by Comparison Method	0 to 700 bar	0.25 bar



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88	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure/ Pressure Gauge (Digital / Analog) Pressure Transmitter, Pressure Transducer (with Display), Pressure Switch	Using Digital Pressure Gauge & Pressure Comparator Universal calibrator/Digital multimeter as per DKD R-6-1 by Comparison Method	0 bar to 1000 bar	0.61bar
89	MECHANICAL-PRESSURE INDICATING DEVICES	Low pressure (Manometer / Magnehalic gauge / Pressure gauge (analog / Digital) / Trasmmitter	Using Digital Pressure Gauge, MFC & Pressure Pump as per DKD R-6-1 by Comparison Method	0 to 50 mbar	0.05mbar
90	MECHANICAL-PRESSURE INDICATING DEVICES	Low pressure (Manometer / Magnehalic gauge / Pressure gauge (analog / Digital) / Transmitterr	Using Digital Pressure Gauge, MFC & Pressure Pump as per DKD R-6-1 by Comparison Method	-50 mbar to 0 mbar	0.05mbar
91	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure/ Pressure Gauge (Digital / Analog) Pressure Transmitter, Pressure Transducer (with Display), Pressure Switch	Using Digital Pressure Gauge & Pressure Pump, Universal calibrator/Digital multimeter as per DKD R-6-1 by Comparison Method	0 to 35 bar	0.014 bar





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92	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Absolute), Barometers, Manometers, Transmitter - Analog/Digital	Using Digital Pressure Gauge & Pressure Pump Universal calibrator/Digital multimeter as per DKD R-6-1 by Comparison Method	300 mbar A to 1164 mbar A	0.57mbar
93	MECHANICAL-PRESSURE INDICATING DEVICES	Vaccum Pressure/ Pressure Gauge (Digital / Analog) Pressure Transmitter, Pressure Transducer (with Display), Pressure Switch	Using Digital Pressure Gauge & Pressure Pump Universal calibrator/Digital multimeter as per DKD R-6-2 by Comparison Method	-0.85 bar to 0 bar	0.012 bar
94	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uni-axial Static Testing Machine - UTM, CTM, (Compression Mode)	Using Load Cell with Indicators as per IS 1828 (Part -1):2022	200 N to 2000 kN	0.40%
95	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uni-axial Static Testing Machine - UTM, TTM (Tension Mode)	Using Load Cell with Indicators as per IS 1828 (Part -1):2022	200 N to 50 kN	0.5%



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96	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uni-axial Static Testing Machine / UTM, CTM, (Compression Mode)	Using Load Cell with Indicators as per ASTM E4	2 kN to 1000 kN	0.50%
97	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uni-axial Static Testing Machine / UTM, CTM, (Compression Mode)	Using Load Cell with Indicators as per IS 1828 (Part -1):2022	5 N to 200 N	0.50%
98	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uni-axial Static Testing Machine / UTM, CTM,(Compression Mode)	Using Load Cell with Indicators as per IS 1828 (Part -1):2022	2000 kN to 3000 kN	0.51%
99	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uni-axial Static Testing Machine / UTM, TTM (Tension Mode)	Using Load Cell with Indicators as per IS 1828 (Part -1):2022	5 N to 200 N	0.54%
100	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability: 0.0001 mg), Class I	Using Standard Weights of E1 Accuracy Class as per OIML R 76-1	Up to 6.1 g	0.006mg



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101	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability: 0.001 mg), Class I	Using Standard Weights of E1 Accuracy Class as per OIML R 76-1	6 g to 100 g	0.021mg
102	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability: 0.01 mg), Class I	Using Standard Weights of E1 Accuracy Class as per OIML R 76-1	Up to 200 g	0.06mg
103	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability: 1 g), Class III	Using Standard Weights of F1 Accuracy Class as per OIML R 76-1	30 kg to 50 kg	2.4 g
104	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability: 1 mg), Class II	Using Standard Weights of E2 & F1 Accuracy Class as per OIML R 76-1	200 g to 1000 g	2.4mg
105	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability: 10 mg), Class II	Using Standard Weights of F1 Accuracy Class as per OIML R 76-1	1 kg to 6 kg	14 mg
106	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability: 100 mg), Class III	Using Standard Weights of F1 Accuracy Class as per OIML R 76-1	6 kg to 30 kg	100mg
107	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability: 5 g ), Class IV	Using Standard Weights of F1/F2 Accuracy Class as per OIML R 76-1	50 kg to 100 kg	12.3 g





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108	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability:20 g), Class IV	Using Standard Weights of M1 Accuracy Class as per OIML R 76-1	100 kg to 200 Kg	47g
109	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability:50 g), Class IV	Using Standard Weights of M1 Accuracy Class as per OIML R 76-1	200 kg to 500 kg	63 g
110	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with Sensor of Humidity Calibrator / Generator Chamber	Using Temp.+RH Sensor with Indicator (Single Position Calibration) by comparison method	10 °C to 50 °C @ 50 %rh	0.5°C
111	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with Sensor of Humidity Calibrator / Generator Chamber	Using Temp.+RH Sensor with Indicator (Single Position Calibration) by comparison method	20 % rh to 95 % rh @25°C	1.2 %rh
112	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator, Data Logger, Thermo-hygrometer, Temp-Humidity Sensor, Dry & Wet thermometer	Using Temp.+RH Sensor with Indicator & Humidity Generator with Chamber by comparison method	10 °C to 50 °C	0.4°C



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113	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator, Humidity Transmitter, Data Logger, Thermo-hygrometer, Humidity Sensor	Using Temp.+RH Sensor with Indicator & Humidity Generator with Chamber by comparison method	20 %rh to 95 %rh @ 25°C	0.98 %rh
114	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity sensor with Indicator, Humidity Transmitter, Data Logger with sensor, Thermo-hygrometer with Sensor, Dry & Wet thermometer	Using PT-100 Sensor with Indicator & Temp -Humidity Generator with Chamber by comparison method	0 °C to 50 °C @ 50% RH	0.32°C
115	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with Sensor of Humidity Calibrator / Generator Chamber	Using PT-100 Sensor with Indicator by comparison method	0 °C to 50 °C @ 50% RH	0.32 °C
116	THERMAL-TEMPERATURE	Deep Freezer, Refrigerator, chamber, Generator	Using 9 RTD Sensors with Multi Channel Data Logger by Comparison Method	-80 °C to 0 °C	2.0°C
117	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using 4 wire RTD with Indicator & Liquid Bath by comparison method	50 °C to 250 °C	0.34°C



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118	THERMAL-TEMPERATURE	Non Contact Thermometry & Infrared Thermometers, Pyrometers, Thermal Imagers	Using Pyrometer with Black Body Source by comparison method	50 °C to 500 °C	3.0°C
119	THERMAL-TEMPERATURE	Oven, Furnace, Incubator, Chamber, Autoclave, BOD	Using 9 RTD Sensors with Multi Channel Data Logger by Comparison Method	0 °C to 300 °C	2.5°C
120	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge, Datalogger with sensor & without sensor, Transducer, Transmitter	Using 4 Wire PT 100 with indicator using dry Bath by comparison method	-35 °C to 50 °C	0.11°C
121	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge, Transducer, Transmitter	Using SSPRT Sensor with Indicator & Liquid Nitrogen Bath by Comparison Method	-196 °C	0.19°C





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122	THERMAL-TEMPERATURE	RTD / Thermocouple with or without indicator/ Recorder / Controller, Digital Thermometer, Temperature Gauge	Using 4 Wire RTD with indicator, oil bath by comparison method	50 °C to 250 °C	0.19°C
123	THERMAL-TEMPERATURE	RTD / Thermocouple with or without indicator/ Recorder / Controller, Digital Thermometer, Temperature Gauge, Transducer, Transmitter	Using 4 wire RTD with indicator & dry bath by comparison method	250 °C to 400 °C	0.4 °C
124	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Chamber / Dry Block / Deep Freezer / Refrigerator	Using 4 wire RTD with Indicator by comparison method	-80 °C to 0 °C	0.19°C
125	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Chamber / Industrial Incubator/ Liquid Bath / Dry Block / Oven / Autoclave / Refrigerator/oil bath / COD/ BOD	Using 4 wire RTD with Indicator by comparison method	0 °C to 300 °C	0.16°C



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126	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Furnace / Oven / Muffle Furnace	Using S-type Thermocouple with Temperature Indicator (Single Position Calibration) by comparison method	300 °C to 1200 °C	2.3°C
127	THERMAL-TEMPERATURE	Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge	Using S-type thermocouple with indicator & dry block furnace by comparison method	400 °C to 1200 °C	2.02°C

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