National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	PCL PARIKSHAN CALIBRATION LABORATORY LLP, SHOP NO. 1 & 2, FIRST FLOOR, SHIVARKAR BUILDING, GAT NO. 1521, SHRIKRUSHNA HOUSING SOCIETY, TAMHANE WASTI, CHIKHALI, PUNE, MAHARASHTRA, 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,1 kHz	Using 6½ Digit DMM by Direct Method	0.03 mA to 100 mA	0.3 % to 0.30 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz,1 kHz	Using 6½ Digit DMM by Direct Method	0.1 A to 10 A	0.22 % to 0.54 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz,1 kHz	Using 6½ Digit DMM by Direct Method	1 mV to 100 mV	0.83 % to 0.12 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 kHz	Using 6½ Digit Multimeter by direct method	0.1 V to 745 V	0.12 % to 0.12 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Active Power single phase @ 50 Hz (120 V & 240 V, 0.3 A to 20 A, UPF)	Using Multifunction Calibrator by Direct Method	36 W to 4800 W	0.6 % to 1.3 %

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6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz	Using Multifunction Calibrator by Direct Method	10 mA to 2 A	0.16 % to 0.15 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator with current coil by Direct Method	1 A to 1000 A	6.85 % to 0.5 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz,1 kHz	Using Multifunction Calibrator by Direct Method	0.2 A to 20 A	0.2 % to 0.36 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz,1 kHz	Using Multifunction Calibrator by Direct Method	0.2 mA to 200 mA	0.27 % to 0.2 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20 Hz to 1 kHz	Using Multifunction Calibrator by Direct Method	0.2 V to 1000 V	0.06 % to 0.08 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20 Hz,1 kHz	Using Multifunction Calibrator by Direct Method	10 mV to 200 mV	0.46 % to 0.06 %

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12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multifunction Calibrator by Direct Method	1 nF to 30 nF	2.36 % to 0.62 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using Multifunction Calibrator by Direct Method	100 nF to 10 µF	0.58 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz,100 Hz	Using Standard Inductance Box by Direct Method	100 µH to 10 H	1.3 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz (230 V, 2 A)	Using Multifunction Calibrator by Direct Method	0.2 PF to 1 PF (Lead/Lag)	0.006 % to 0.01 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct Method	0.1 A to 10 A	0.11 % to 0.29 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct Method	10 µA to 100 mA	0.05 % to 0.03 %

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18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM by Direct Method	0.1 V to 1000 V	0.11 % to 0.06 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM by Direct Method	1 mV to 100 mV	0.08 % to 0.11 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ Digit DMM by Direct Method	0.1 Mohm to 100 Mohm	0.04 % to 0.23 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 6½ Digit DMM by Direct Method	0.1 ohm to 100 kohm	2.34 % to 0.04 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	0.2 A to 20 A	0.09 % to 0.05 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	0.2 mA to 200 mA	0.09 %

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24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator with Current Coil by Direct Method	1 A to 1000 A	6 % to 1.1 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	0.2 V to 1000 V	0.036 % to 0.007 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	1 mV to 20 mV	2.34 % to 0.15 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	20 mV to 200 mV	0.15 % to 0.036 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance - 2 Wire @ (1 kV, 5 kV)	Using High Resistance Decade Box by Direct Method	5 Mohm to 1 Gohm	6.69 % to 7.1 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	1 Mohm to 1000 Mohm	0.01 % to 2.34 %

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30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multifunction Calibrator by Direct Method	100 kohm to 100 Mohm	0.02 % to 0.23 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multifunction Calibrator by Direct Method	100 Mohm to 1000 Mohm	0.23 % to 1.16 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Multifunction Calibrator by Direct Method	1 ohm to 10 ohm	0.27 % to 0.06 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	1 ohm to 1000 kohm	0.36 % to 0.01 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Multifunction Calibrator by Direct Method	10 ohm to 100 kohm	0.06 % to 0.02 %
35	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope / CRO (Horizontal Deflection / Time Marker)	Using Multifunction Calibrator by Direct Method	2.5 ns to 10 s	0.06 % to 0.005 %

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36	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope / CRO (Vertical Deflection / AC Voltage Square Wave) @ 1 kHz	Using Multifunction Calibrator by Direct Method	1 mV to 200 V	4.66 % to 0.67 %
37	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope / CRO (Vertical Deflection / DC Voltage)	Using Multifunction Calibrator by Direct Method	50 mV to 200 V	0.68 % to 0.15 %
38	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope / CRO - Bandwidth @ 1 V	Using Multifunction Calibrator by Direct Method	1 MHz to 400 MHz	6.32 %
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100) - Type	Using Multifunction Calibrator by Direct Method	(-) 199 °C to 800 °C	0.14 °C
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD - 4 wire	Using 6½ Digit DMM by Direct Method	(-) 199 °C to 799 °C	0.31 °C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B Type	Using Multifunction Calibrator by Direct Method	600 °C to 1800 °C	1.03 °C

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42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple E Type	Using Multifunction Calibrator by Direct Method	(-) 50 °C to 1000 °C	0.74 °C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.38 °C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.51 °C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.82 °C
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using Multifunction Calibrator by Direct Method	0 °C to 1700 °C	1.21 °C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using Multifunction Calibrator by Direct Method	0 °C to 1700 °C	1.21 °C

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48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T Type	Using Multifunction Calibrator by Direct Method	(-) 100 °C to 400 °C	0.7 °C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100) - Type	Using Multifunction Calibrator By Direct Method	(-) 199 °C to 800 °C	0.15 °C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B Type	Using Multifunction Calibrator by Direct Method	600 °C to 1800 °C	1.03 °C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E Type	Using Multifunction Calibrator by Direct Method	(-) 50 °C to 1000 °C	0.74 °C
52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.38 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.51 °C

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54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.82 °C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Multifunction Calibrator by Direct Method	0 °C to 1700 °C	1.21 °C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Multifunction Calibrator by Direct Method	0 °C to 1700 °C	1.21 °C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T Type	Using Multifunction Calibrator by Direct Method	(-) 100 °C to 400 °C	0.78 °C
58	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit DMM by Direct Method	3 Hz to 1 MHz	1.44 %
59	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibrator by Comparison Method	1 s to 3600 s	0.16 s to 5.12 s

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60	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibrator by Comparison Method	3600 s to 86400 s	5.12 s to 79 s
61	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction Calibrator by Direct Method	50 Hz to 300 kHz	0.003 %
62	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Digital Tachometer & RPM Source by Comparison Method	> 100 rpm to 5000 rpm	7.2 rpm
63	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Digital Tachometer & RPM source by Comparison Method	10 rpm to 100 rpm	1.26 rpm
64	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Tachometer & RPM source by Comparison Method	> 5000 rpm to 50000 rpm	15.5 rpm
65	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Digital Tachometer & RPM source by Comparison Method	10 rpm to 100 rpm	2.35 rpm
66	MECHANICAL-ACCELERATION AND SPEED	Tachometer- Non Contact Type	Using Digital Tachometer & RPM source by Comparison Method	> 100 rpm to 5000 rpm	7.66 rpm

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67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Fillet Gauge / Templates/ Weld Gauge / Bridge Cam Gauge / WeldingGauge / Flakiness Gauge (Angle)	Using Profile Projector by Comparison Method	0° to 360°	6.2 min
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Flatness)	Using Electronic Probe with DRO, Surface Plate by Comparison method	Upto 300 mm	16.5 µm
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Squareness)	Using Electronic Probe with DRO, Cylindrical Square by Comparison Method	Upto 300 mm	11 µm
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Protractor / Inclinometer (L.C.: 0.005° & Coarser)	Using Angle Gauge Set by Comparison Method	0° to 360°	2.5 min
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor / Combination Set (L.C.: 5 min & Coarser)	Using Angle Gauge Set by Comparison Method	0° to 360°	3.63 min

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72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (L.C.:0.001 mm & Coarser) (Transmission Error)	Using Electronic Dial Calibration Tester & Plunger Dial by Comparison Method	Up to 1 mm	4.9 µm
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calibration of Extensometer (Clip-On Type, Video, Laser), (COD Gauges / LVDT)	Using Extensometer Calibration Fixture by Comparison method	0 to 2 mm	3.14 %
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Digital) (L.C.: 0.01 mm & Coarser)	Using Slip Gauge Set & Length Bar Set by Comparison Method	0 to 1000 mm	16.5 µm
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Digital) (L.C.: 0.01 mm & Coarser)	Using Caliper Checker & Slip Gauge Set by Comparison Method	0 to 600 mm	13.8 µm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.:0.1 µm & Coarser)	Using Coating Thickness Foils by Comparison Method	10 µm to 1797 µm	2.5 µm

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77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Electronic Probe with DRO (Analogue / Digital) (L.C.:0.1 µm & Coarser)	Using Slip Gauge Set by Comparison Method	0 to 25 mm	0.6 µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness)	Using Electronic Probe with DRO & Surface Plate by Comparison Method	0 to 300 mm	4.52 µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hatch Cutter (Angular)	Using Profile Projector by Comparison Method	0° to 45°	6.9 min
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hatch Cutter (Pitch)	Using Profile Projector by Comparison Method	0 to 5 mm	11 µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (Vernier/Dial/Digital) (L.C.:0.01 mm & Coarser)	Using Long Slip Gauge Set, Slip Gauge Set & Surface Plate by Comparison Method	0 to 300 mm	12.7 µm

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82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (Vernier/Dial/Digital) (L.C.:0.01 mm & Coarser)	Using Long Slip Gauge Set, Slip Gauge Set & Surface Plate by Comparison Method	0 to 600 mm	16.09 µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.001 mm & Coarser)	Using Long Slip Gauge Set, Slip Gauge Set & Surface Plate by Comparison Method	0 to 300 mm	8.6 µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.:0.001 mm & Coarser)	Using Slip Gauge Set by Comparison Method	0 to 25 mm	2.5 µm
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square (Parallelism)	Using Electronic Probe with DRO by Comparison method	upto 300 mm	8.4 µm
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square (Squareness)	Using Slip Gauge Set & Cylindrical Square by Comparison Method	Upto 300 mm	10.8 µm

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87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm & Coarser)	Using Long Slip Gauge Set & Slip Gauge Set by Comparison Method	>100 mm to 300 mm	3.6 µm
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.:0.001 mm & Coarser)	Using Length Bar Set & Slip Gauge Set by Comparison Method	>300 mm to 600 mm	6.52 µm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.:0.001 mm & Coarser)	Using Slip Gauge Set by Comparison Method	0 to 100 mm	1.4 µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.:0.01 mm & Coarser)	Using Slip Gauge Set & Length Bar Set by Comparison Method	> 600 mm to 1000 mm	14.3 µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Electronic Comparator with DRO by Comparison Method	0.005 mm to 1 mm	1.5 µm

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92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flush Pin / Width Gauge	Using Slip Gauge Set & Electronic Comparator with DRO by Comparison Method	0.5 mm to 100 mm	3.99 µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) (L.C.:0.01 mm & Coarser)	Using Length Bar Set, Slip Gauge Set & Surface Plate by Comparison Method	0 to 1000 mm	15.7 µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) (L.C.:0.01 mm & Coarser)	Using Caliper Checker, Slip Gauge Set & Surface Plate by Comparison Method	Up to 600 mm	13.6 µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Dial Caliper / Two Pin Dial Caliper - Basic Travel (L.C.: 0.01 mm & Coarser)	Using Slip Gauge Accessories , Slip Gauge Set by Comparison Method	0 to 50 mm	7.12 µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (L.C.:0.01 mm & Coarser)	Using Slip Gauge Set & Electronic Comparator with Stand by Comparison Method	50 mm to 1000 mm	10.2 µm

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97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C.:0.01 mm & Coarser)	Using Electronic Dial Calibration Tester by Comparison Method	0 to 1.5 mm	6.5 µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C.:0.001 mm & Coarser)	Using Electronic Dial Calibration Tester by Comparison Method	0 to 1 mm	3.1 µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using Slip Gauge Set & Electronic Comparator with DRO by Comparison Method	0.10 mm to 20 mm	1.5 µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C.: 0.5 mm & Coarser)	Using Scale & Tape Calibrator by Comparison Method	0 to 2000 mm	132.9 X Sqrt (L) µm, (where L is in mtr)
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape / Pi Tape (L.C.: 1 mm & Coarser)	Using Scale & Tape Calibrator by Comparison Method	0 to 50 meter	166.3 X Sqrt (L) µm, (where L is in mtr)

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102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Stick / Height Block / Setting Master	Using Slip Gauge Set & Electronic Comparator with Stand by Comparison Method	>100 mm to 300 mm	3.8 µm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Stick / Height Block / Setting Master	Using Length Bar & Electronic Comparator with Stand by Comparison Method	>300 mm to 1000 mm	10.2 µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Stick / Height Block / Setting Master	Using Slip Gauge Set & Electronic Comparator with Stand by Comparison Method	25 mm to 100 mm	2.6 µm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Microscope - Magnification	Using Master Glass Scale as by Comparison Method	5 X to 1000 X	1.5 %
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C.:0.1 mm & Coarser)	Using Slip Gauge Set by Comparison Method	0 to 50 mm	56.3 µm

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107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / OD Master / Setting Master	Using Slip Gauge Set, Electronic Comparator with DRO by Comparison Method	0.5 mm to 300 mm	3.99 µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Width Gauge / OD Master / Setting Master / Flush Pin	Using Master Setting Disc & LMM by Comparison Method	>100 mm to 300 mm	4.62 µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Width Gauge / OD Master / Setting Master / Flush Pin	Using Master Setting Disc & LMM by Comparison Method	1 mm to 100 mm	1.4 µm
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / ID Gauge / Master Setting Ring	Using LMM & Master Setting Ring by Comparison Method	125 mm to 210 mm	4.1 µm
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / ID Gauge / Master Setting Ring	Using LMM & Master Setting Ring by Comparison Method	2.5 mm to 125 mm	1.7 µm

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112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge / Digital Indicator (L.C.:0.001 mm & Coarser)	Using Electronic Dial Calibration Tester by Comparison Method	0 to 25 mm	3.1 µm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge / Digital Indicator (L.C.:0.001 mm & Coarser)	Using Slip Gauge Set & Comparator Stand with probe by Comparison Method	0 to 50 mm	3.2 µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge / Radius Templates	Using Profile Projector by Comparison Method	0.5 mm to 50 mm	11.6 µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Slip Gauge Set & Long Slip Gauge Set by Comparison Method	2.5 mm to 300 mm	3.31 µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge - Parallelism	Using Slip Gauge Set, Electronic probe with DRO& Surface Plate by Comparison Method	0 to 600 mm	7.4 µm

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117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge - Straightness	UsingSlip Gauge Set, Electronic probe with DRO & Surface Plate by Comparison Method	0 to 600 mm	7.4 µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge - Diameter (Large end & Small end)	Using LMM & Master Setting Disc, Pin Gauge Set , Slip Gauge by Comparison Method	3 mm to 100 mm	4.5 µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge - Half angle	Using LMM & Master Setting Disc, Pin Gauge Set by Comparison Method	Upto 30° to	22 second
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale	Using Profile Projector by Comparison Method	0 to 30 mm	16.6 µm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective diameter at Gauge plane)	LMM, Master Setting Disc, Thread Measuring Wire Set & Slip Gauge Set by Comparison Method	7 mm to 100 mm	4.8 µm

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122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Seive Aperture Size	Using profile projector by Comparison Method	0.01 mm to 3.35 mm	13.8 µm
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Seive Aperture Size	Using Digital Caliper by Comparison Method	3.35 mm to 125 mm	56.3 µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Foils	Using Electronic Comparator(probe) with Stand by Comparison Method	0.005 mm to 2 mm	1.4 µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wires	Using LMM by Comparison Method	0.17 mm to 6.35 mm	0.73 µm
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Pitch)	Using Profile Projector by Comparison Method	0.25 mm to 7 mm	12.1 µm

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127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Angle)	Using Profile Projector by Comparison Method	55° to 60°	7.6 min.
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective Diameter, Major Diameter)	Using LMM, Master Setting Disc & Thread Measuring Wire Set by Comparison Method	100 mm to 200 mm	4.21 µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective Diameter, Major Diameter)	Using LMM, Master Setting Disc & Thread Measuring Wire Set by Comparison Method	1 mm to 100 mm	2.36 µm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Diameter)	Using LMM by Comparison Method	3 mm to 100 mm	1.5 µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C.: 0.1 mm & Coarser)	Using Slip Gauge set, Long Guage Block by Comparison Method	0 to 300 mm	71 µm

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132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Parallelism)	Using Electronic Probe with DRO by Comparison Method	0 to 200 mm	8.6 µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Squareness)	Using Cylindrical Square, Slip Gauge Set & Surface Plate by Comparison Method	0 to 200 mm	10.92 µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Symmetricity)	Using Plain Mandrel, Electronic Probe with DRO & Surface Plate by Comparison Method	0 to 200 mm	8.6 µm
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Fillet Gauge / Templates/ Weld Gauge / Bridge Cam Gauge / PCD Gauge /WeldingGauge / Flakiness Gauge / Wet Film (Radius)	Using Profile Projector by Comparison Method	0 to 100 mm	9.1 µm

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136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Fillet Gauge / Templates/ Weld Gauge / Hi- Lo Gauge / Bridge Cam Gauge / Limit Gauge /CD Gauge/ PCD Gauge /WeldingGauge / Flakiness Gauge / Wet Film (Linear)	Using Profile Projector by Comparison Method	0 to 100 mm	9.1 µm
137	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar	Using LMM, Slip Gauge Set by Comparison Method	>100 mm to 300 mm	3.5 µm
138	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar	Using LMM, Slip Gauge Set by Comparison Method	25 mm to 100 mm	1.4 µm
139	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Vision Measuring Machine (Angular)	Using Angular Glass Scale & Angle Gauge Set by Comparison method	0° to 360°	2.99 min
140	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Vision Measuring Machine (L.C : 0.0001 mm & Coarser) - Linear Measurement	Using Linear Glass Scale & Slip Gauge Set by Comparison Method	0 to 300 mm	3.9 µm

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141	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Vision Measuring Machine (Magnification)	Using Digital Vernier Caliper by Comparison method	5 X to 100 X	0.02 %
142	MECHANICAL-DUROMETER	Rubber Hardness tester - Shore A	Using Dial Calibration Tester by Depth of Indentor as per ASTM D 2240	Shore A	0.7 Shore A
143	MECHANICAL-DUROMETER	Rubber Hardness tester - Shore D	Using Dial Calibration Tester by Depth of Indentor as per ASTM D 2240	Shore D	0.7 Shore D
144	MECHANICAL-HARDNESS TESTING MACHINES	Magnification for Verification of Indentation Measuring System of Brinell & Vickers Hardness Testing Machine (Micro Scope)	Using Glass Scale As Per IS 1500, IS 1501 ASTM E-10 ASTM E-92 & ASTM E-384 by Comparison Method	0 to 7 mm	0.6 %
145	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analogue Pressure Gauge, Pressure Indicator, Magnehelic Gauge, Manometer - Pneumatic	Using Digital Pressure Calibrator, Digital Multimeter as readout & Pneumatic Test Pump by Comparison Method As Per DKD-R6-1	(-) 20 mbar to 0	0.016 mbar

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146	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analogue Pressure Gauge, Pressure Indicator, Magnehelic Gauge, Manometer - Pneumatic	Using Digital Pressure Calibrator, Digital Multimeter as readout & Pneumatic Test Pump by Comparison Method As Per DKD-R6-1	(-) 200 mbar to 0	0.19 mbar
147	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analogue Pressure Gauge, Pressure Indicator, Magnehelic Gauge, Manometer - Pneumatic	Using Digital Pressure Calibrator, Digital Multimeter as readout & Pneumatic Test Pump by Comparison Method As Per DKD-R6-1	0 to 200 mbar	0.28 mbar
148	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analogue Pressure Gauge, Pressure Indicator, Magnehelic Gauge, Manometer - Pneumatic	Using Digital Pressure Calibrator, Digital Multimeter & Pneumatic Test Pump by Comparison Method As Per DKD-R6-1	0 to 20 mbar	0.015 mbar
149	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Digital / Analogue Pressure Gauge, Pressure Indicator With Transducer/ Transmitter, Pressure Switch	Using Digital Pressure Gauge, Pressure comparator , Digital Multimeter by Comparison Method as per DKD R-6-1	0 to 20 bar	0.07 bar

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150	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Digital / Analogue Pressure Gauge, Pressure Indicator, With Transducer/ Transmitter, Pressure Switch (Medium: Hydraulic)	Using Digital Pressure Gauge, Pressure comparator , Digital Multimeter by Comparison Method as per DKD R-6-1	0 to 700 bar	1 bar
151	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Digital / Analogue Pressure Gauge, Pressure Indicator With Transducer/ Transmitter, Pressure Switch (Medium: Hydraulic)	Using Digital Pressure Gauge, Pressure comparator , Digital Multimeter by Comparison Method as per DKD R-6-1	0 to 100 bar	0.11 bar
152	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge, Vacuum Transmitter, Vacuum Switch	Using Digital Vacuum Gauge , Vacuum comparator , Digital Multimeter by Comparison Method as per DKD R-6-1	(-) 0.85 bar to 0	0.01 bar

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153	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital & Analog Hygrometers, Humidity Transmitter, Humidity Transducer, RH Data Logger inbuilt or with External Sensor. @ 25 °C	Using Humidity Chamber, Digital Temperature and Humidity Indicator with Sensor, 6½ DMM by Comparison Method	10 %RH to 95 %RH	1.62 %RH
154	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital & Analog Hygrometers, Temperature and Humidity Transmitter, Temperature and Humidity Transducer, RH Data Logger inbuilt or with External Sensor. @ 50 %RH	Using Humidity Chamber, Digital Temperature and Humidity Indicator with Sensor, 6½ DMM by Comparison Method	0 °C to 50 °C	0.45 °C
155	THERMAL-TEMPERATURE	Infrared Thermometer / Pyrometer (emmisivity 0.95) , Thermal Imager (emmisivity 0.95)	Using Non- Contact Infrared Pyrometer with black body source By Comparison Method	50 °C to 500 °C	4.07 °C
156	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using Standard 4 Wire RTD with Indicator and Liquid Bath by Comparison Method	(-) 35 °C to 0 °C	0.62 °C

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157	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using Standard 4 Wire RTD with Indicator and Liquid Bath by Comparison Method	0 °C to 80 °C	0.6 °C
158	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using Standard 4 Wire RTD with Indicator and Liquid Bath by Comparison Method	80 °C to 200 °C	0.62 °C
159	THERMAL-TEMPERATURE	RTD / Thermocouple / Transmitter (with sensor) With and Without Indicator, Digital / Analog Thermometer	Using Standard 4 Wire RTD with Indicator, 6½ DMM and Liquid Bath by Comparison Method	(-) 35 °C to 0 °C	0.22 °C
160	THERMAL-TEMPERATURE	RTD / Thermocouple / Transmitter (with sensor) With and Without Indicator, Digital / Analog Thermometer	Using Standard 4 Wire RTD with Indicator, 6½ DMM and Dry Bath by Comparison Method	50 °C to 400 °C	0.24 °C
161	THERMAL-TEMPERATURE	RTD / Thermocouple / Transmitter (with sensor) With and Without Indicator, Digital / Analog Thermometer	Using Standard 4 Wire RTD with Indicator, 6½ DMM and Liquid Bath by Comparison Method	0 °C to 80 °C	0.2 °C

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162	THERMAL-TEMPERATURE	Thermocouple / Transmitter With or Without Indicator	Using S Type Thermocouple with Indicator, 6½ DMM and Dry Bath by Comparison Method	400 °C to 1200 °C	2.3 °C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz,1 kHz	Using 6½ Digit DMM by Direct Method	0.03 mA to 100 mA	0.3 % to 0.30 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz,1 kHz	Using 6½ Digit DMM by Direct Method	0.1 A to 10 A	0.22 % to 0.54 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with DMM by Direct Method	1 kV to 6 kV	6.72 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz,1 kHz	Using 6½ Digit DMM by Direct Method	1 mV to 100 mV	0.83 % to 0.12 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 kHz	Using 6½ Digit Multimeter by direct method	0.1 V to 745 V	0.12 % to 0.12 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Active Power single phase @ 50 Hz (120 V & 240 V, 0.3 A to 20 A, UPF)	Using Multifunction Calibrator by Direct Method	36 W to 4800 W	0.6 % to 1.3 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz	Using Multifunction Calibrator by Direct Method	10 mA to 2 A	0.16 % to 0.15 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator with current coil by Direct Method	1 A to 1000 A	6.85 % to 0.5 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz,1 kHz	Using Multifunction Calibrator by Direct Method	0.2 A to 20 A	0.2 % to 0.36 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz,1 kHz	Using Multifunction Calibrator by Direct Method	0.2 mA to 200 mA	0.27 % to 0.2 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20 Hz to 1 kHz	Using Multifunction Calibrator by Direct Method	0.2 V to 1000 V	0.06 % to 0.08 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20 Hz,1 kHz	Using Multifunction Calibrator by Direct Method	10 mV to 200 mV	0.46 % to 0.06 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multifunction Calibrator by Direct Method	1 nF to 30 nF	2.36 % to 0.62 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using Multifunction Calibrator by Direct Method	100 nF to 10 µF	0.58 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz,100 Hz	Using Standard Inductance Box by Direct Method	100 µH to 10 H	1.3 %

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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz (230 V, 2 A)	Using Multifunction Calibrator by Direct Method	0.2 PF to 1 PF (Lead/Lag)	0.006 % to 0.01 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct Method	0.1 A to 10 A	0.11 % to 0.29 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct Method	10 µA to 100 mA	0.05 % to 0.03 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by direct method	1 kV to 6 kV	4.0 % to 3.79 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM by Direct Method	0.1 V to 1000 V	0.11 % to 0.06 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM by Direct Method	1 mV to 100 mV	0.08 % to 0.11 %

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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ Digit DMM by Direct Method	0.1 Mohm to 100 Mohm	0.04 % to 0.23 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 6½ Digit DMM by Direct Method	0.1 ohm to 100 kohm	2.34 % to 0.04 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	0.2 A to 20 A	0.09 % to 0.05 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	0.2 mA to 200 mA	0.09 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator with Current Coil by Direct Method	1 A to 1000 A	6 % to 1.1 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	0.2 V to 1000 V	0.036 % to 0.007 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	1 mV to 20 mV	2.34 % to 0.15 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	20 mV to 200 mV	0.15 % to 0.036 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance - 2 Wire @ (1 kV, 5 kV)	Using High Resistance Decade Box by Direct Method	5 Mohm to 1 Gohm	6.69 % to 7.1 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	1 Mohm to 1000 Mohm	0.01 % to 2.34 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multifunction Calibrator by Direct Method	100 kohm to 100 Mohm	0.02 % to 0.23 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Multifunction Calibrator by Direct Method	100 Mohm to 1000 Mohm	0.23 % to 1.16 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Multifunction Calibrator by Direct Method	1 ohm to 10 ohm	0.27 % to 0.06 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	1 ohm to 1000 kohm	0.36 % to 0.01 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Multifunction Calibrator by Direct Method	10 ohm to 100 kohm	0.06 % to 0.02 %
37	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope / CRO (Horizontal Deflection / Time Marker)	Using Multifunction Calibrator by Direct Method	2.5 ns to 10 s	0.06 % to 0.005 %
38	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope / CRO (Vertical Deflection / AC Voltage Square Wave) @ 1 kHz	Using Multifunction Calibrator by Direct Method	1 mV to 200 V	4.66 % to 0.67 %
39	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope / CRO (Vertical Deflection / DC Voltage)	Using Multifunction Calibrator by Direct Method	50 mV to 200 V	0.68 % to 0.15 %

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40	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope / CRO - Bandwidth @ 1 V	Using Multifunction Calibrator by Direct Method	1 MHz to 400 MHz	6.32 %
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100) - Type	Using Multifunction Calibrator by Direct Method	(-) 199 °C to 800 °C	0.14 °C
42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD - 4 wire	Using 6½ Digit DMM by Direct Method	(-) 199 °C to 799 °C	0.31 °C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B Type	Using Multifunction Calibrator by Direct Method	600 °C to 1800 °C	1.03 °C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple E Type	Using Multifunction Calibrator by Direct Method	(-) 50 °C to 1000 °C	0.74 °C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.38 °C

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46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.51 °C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.82 °C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using Multifunction Calibrator by Direct Method	0 °C to 1700 °C	1.21 °C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using Multifunction Calibrator by Direct Method	0 °C to 1700 °C	1.21 °C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T Type	Using Multifunction Calibrator by Direct Method	(-) 100 °C to 400 °C	0.7 °C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100) - Type	Using Multifunction Calibrator By Direct Method	(-) 199 °C to 800 °C	0.15 °C

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52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B Type	Using Multifunction Calibrator by Direct Method	600 °C to 1800 °C	1.03 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E Type	Using Multifunction Calibrator by Direct Method	(-) 50 °C to 1000 °C	0.74 °C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.38 °C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.51 °C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.82 °C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Multifunction Calibrator by Direct Method	0 °C to 1700 °C	1.21 °C

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58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Multifunction Calibrator by Direct Method	0 °C to 1700 °C	1.21 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T Type	Using Multifunction Calibrator by Direct Method	(-) 100 °C to 400 °C	0.78 °C
60	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit DMM by Direct Method	3 Hz to 1 MHz	1.44 %
61	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibrator by Comparison Method	1 s to 3600 s	0.16 s to 5.12 s
62	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibrator by Comparison Method	3600 s to 86400 s	5.12 s to 79 s
63	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction Calibrator by Direct Method	50 Hz to 300 kHz	0.003 %

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64	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator of Centrifuges Machine (Non-Contact Type)	Using Digital Tachometer by Comparison Method	> 1000 rpm to 25000 rpm	12.7 rpm
65	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator of Centrifuge Machine (Non-Contact Type)	Using Digital Tachometer by Comparison Method	> 100 rpm to 1000 rpm	5.82 rpm
66	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator of Centrifuge Machine (Non-Contact Type)	Using Digital Tachometer by Comparison Method	10 rpm to 100 rpm	2.35 rpm
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calibration of Extensometer (Clip-On Type, Video, Laser), (COD Gauges / LVDT)	Using Extensometer Calibration Fixture by Comparison method	0 to 2 mm	3.14 %
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Microscope - Magnification	Using Master Glass Scale as by Comparison Method	5 X to 1000 X	1.5 %
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Precision Spirit Level by Comparison Method	2500 mm x 2000 mm	2.7*Sqrt{(L+W/125)} µm where L & W in mm

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70	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge / Electronic Height Gauge (L.C.: 0.0001 mm & Coarser)- Squareness	Using Granite Square Column & Lever Dial Gauge by Comparison Method	0 to 600 mm	11.33 µm
71	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge / Electronic Height Gauge (L.C.: 0.0001 mm & Coarser) - Height Measurement	Using Length Bar Set by Comparison Method	0 to 600 mm	6.6 µm
72	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge / Electronic Height Gauge (L.C.: 0.0001 mm & Coarser) - Height measurement	Using Length Bar Set by Comparison Method	0 to 1000 mm	11.01 µm
73	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge / Electronic Height Gauge (L.C.: 0.0001 mm & Coarser) - Squareness	Using Granite Square Column & Lever Dial Gauge by Comparison Method	0 to 1000 mm	13.5 µm
74	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Vision Measuring Machine (Angular)	Using Angular Glass Scale & Angle Gauge Set by Comparison method	0° to 360°	2.99 min

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75	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Vision Measuring Machine (L.C : 0.0001 mm & Coarser) - Linear Measurement	Using Linear Glass Scale & Slip Gauge Set by Comparison Method	0 to 300 mm	3.9 µm
76	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Vision Measuring Machine (Magnification)	Using Digital Vernier Caliper by Comparison method	5 X to 100 X	0.02 %
77	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Blocks as per IS 1500 (Part-2): 2021 by Indirect Method	HBW 2.5/187.5	2.60 %
78	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Blocks as per IS 1500 (Part-2): 2021 by Indirect Method	HBW 5/750	2.03 %
79	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Blocks as per IS 1500 (Part-2): 2021 by Indirect Method	HBW 10/3000	1.95 %

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80	MECHANICAL-HARDNESS TESTING MACHINES	Magnification for Verification of Indentation Measuring System of Brinell & Vickers Hardness Testing Machine (Micro Scope)	Using Glass Scale As Per IS 1500, IS 1501 ASTM E-10 ASTM E-92 & ASTM E-384 by Comparison Method	0 to 7 mm	0.6 %
81	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Blocks as per IS 1586 (Part-2): 2018 by Indirect Method	HR 15N	0.86 HR15N
82	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Blocks as per IS 1586 (Part-2): 2018 by Indirect Method	HRA	0.67 HRA
83	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Blocks as per IS 1586 (Part-2): 2018 by Indirect Method	HRBW	0.81 HRBW
84	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Blocks as per IS 1586 (Part-2): 2018 by Indirect Method	HRC	0.69 HRC

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85	MECHANICAL-HARDNESS TESTING MACHINES	Test Force of Brinell Hardness Tester	Using Load Cells as per IS 1500 (Part-2): 2021 by Direct Method	187.5 kgf to 3000 kgf	0.66 %
86	MECHANICAL-HARDNESS TESTING MACHINES	Test Force of Micro Vickers and Vickers Hardness Tester	Using Class 0.5/1 Load Cells as per IS 1501(Part 2): 2020, ISO 6507-2:2018 by Direct Method	0.5 kgf to 50 kgf	0.72 %
87	MECHANICAL-HARDNESS TESTING MACHINES	Test Force of Rockwell Hardness Tester	Using Load Cells as per IS 1586 (Part-2): 2018 by Direct Method	10 kgf to 150 kgf	0.52 %
88	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Micro - Vickers Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1501 (Part 2):2020, ISO 6507-2:2018 & ASTM E384-2022	HV 0.5	4.02 %
89	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Micro - Vickers Hardness Testing Machine	Using Standard Hardness Test Blocks by Indirect Method as per IS 1501 (Part 2):2020, ISO 6507-2:2018 & ASTM E384-2022	HV 1	3.37 %

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90	MECHANICAL-HARDNESS TESTING MACHINES	Verification Of Vickers Hardness Testing Machine	Using Standard Hardness Test blocks by Indirect Method as per IS 1501(Part2):2020, ISO 6507-2:2018 & ASTM E92- 2017	HV 10	1.76 %
91	MECHANICAL-HARDNESS TESTING MACHINES	Verification Of Vickers Hardness Testing Machine	Using Standard Hardness Test blocks by Indirect Method as per IS 1501(Part2):2020, ISO 6507-2:2018 & ASTM E92- 2017	HV 30	1.84 %
92	MECHANICAL-HARDNESS TESTING MACHINES	Verification Of Vickers Hardness Testing Machine	Using Standard Hardness Test blocks by Indirect Method as per IS 1501(Part2):2020, ISO 6507-2:2018 & ASTM E92- 2017	HV 5	2.8 %
93	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analogue Pressure Gauge, Pressure Indicator, Magnehelic Gauge, Manometer - Pneumatic	Using Digital Pressure Calibrator, Digital Multimeter as readout & Pneumatic Test Pump by Comparison Method As Per DKD-R6-1	(-) 20 mbar to 0	0.016 mbar

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94	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analogue Pressure Gauge, Pressure Indicator, Magnehelic Gauge, Manometer - Pneumatic	Using Digital Pressure Calibrator, Digital Multimeter as readout & Pneumatic Test Pump by Comparison Method As Per DKD-R6-1	(-) 200 mbar to 0	0.19 mbar
95	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analogue Pressure Gauge, Pressure Indicator, Magnehelic Gauge, Manometer - Pneumatic	Using Digital Pressure Calibrator, Digital Multimeter as readout & Pneumatic Test Pump by Comparison Method As Per DKD-R6-1	0 to 200 mbar	0.28 mbar
96	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analogue Pressure Gauge, Pressure Indicator, Magnehelic Gauge, Manometer - Pneumatic	Using Digital Pressure Calibrator, Digital Multimeter & Pneumatic Test Pump by Comparison Method As Per DKD-R6-1	0 to 20 mbar	0.015 mbar
97	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Digital / Analogue Pressure Gauge, Pressure Indicator With Transducer/ Transmitter, Pressure Switch	Using Digital Pressure Gauge, Pressure comparator , Digital Multimeter by Comparison Method as per DKD R-6-1	0 to 20 bar	0.07 bar

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98	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Digital / Analogue Pressure Gauge, Pressure Indicator, With Transducer/ Transmitter, Pressure Switch (Medium: Hydraulic)	Using Digital Pressure Gauge, Pressure comparator , Digital Multimeter by Comparison Method as per DKD R-6-1	0 to 700 bar	1 bar
99	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Digital / Analogue Pressure Gauge, Pressure Indicator With Transducer/ Transmitter, Pressure Switch (Medium: Hydraulic)	Using Digital Pressure Gauge, Pressure comparator , Digital Multimeter by Comparison Method as per DKD R-6-1	0 to 100 bar	0.11 bar
100	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge, Vacuum Transmitter, Vacuum Switch	Using Digital Vacuum Gauge , Vacuum comparator , Digital Multimeter by Comparison Method as per DKD R-6-1	(-) 0.85 bar to 0	0.01 bar
101	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Displacement of Crosshead	Using Digital Height Gauge as per ASTM E-2309	0 to 600 mm	0.08 mm

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102	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Speed of Crosshead of Testing Machine	Using Digital Height Gauge and Stop Watch as per ASTM E-2658	0 to 600 mm/min	0.41 mm/min
103	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	UTM / CTM (Compression Mode)	Using Force Proving Instruments as per IS1828 (Part 1), ISO 7500-18 (Part 1), ISO 7500-1	50 N to 1000 kN	0.66 %
104	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	UTM / TTM (Tension Mode)	Using Force Proving Instruments as per IS1828 (Part 1), ISO 7500-1	50 N to 50 kN	0.68 %
105	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Uniaxial Testing Machine (Force Measuring System) UTM / LTM / TTM / STM (Tension Mode)	Using Force Proving Instruments as per IS1828 (Part 1), ISO 7500-18 (Part 1)	1 N to 50 kN	0.7 %
106	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Uniaxial Testing Machine (Force Measuring System) UTM / LTM / CTM / STM (Compression Mode)	Using Force Proving Instruments as per IS1828 (Part 1), ISO 7500-18 (Part 1)	1 N to 3000 kN	0.7 %

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107	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Calibration of Class I and Coarser (Readability: 0.01 g)	Using weights of Accuracy Class E1 , E2 As per OIML R-76-1	0 to 10 kg	0.066 g
108	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Calibration of Class II and Coarser (Readability: 0.1 g)	Using weights of Accuracy Class E1 , E2 & F1 as per OIML R-76-1	0 to 30 kg	0.34 g
109	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Class I and Coarser (Readability: 0.01 mg)	Using weights of Accuracy class E1 As per OIML R-76-1	0 to 300 g	0.18 mg
110	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Class III and Coarser (Readability: 5 g)	Using weights of Accuracy Class E2 , F1 & M1 as per OIML R-76-1	0 to 150 kg	6.8 g
111	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Class III and Coarser (Readability: 5 g)	Using weights of Accuracy Class E2 , F1 & M1 As per OIML R-76-1	0 to 200 kg	7.2 g
112	THERMAL-TEMPERATURE	RTD / Thermocouple / Transmitter (with sensor) With and Without Indicator, Digital / Analog Thermometer	Using Standard 4 Wire RTD with Indicator, 6½ DMM and Liquid Bath by Comparison Method	(-) 35 °C to 0 °C	0.22 °C

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113	THERMAL-TEMPERATURE	RTD / Thermocouple / Transmitter (with sensor) With and Without Indicator, Digital / Analog Thermometer	Using Standard 4 Wire RTD with Indicator, 6½ DMM and Dry Bath by Comparison Method	50 °C to 400 °C	0.24 °C
114	THERMAL-TEMPERATURE	RTD / Thermocouple / Transmitter (with sensor) With and Without Indicator, Digital / Analog Thermometer	Using Standard 4 Wire RTD with Indicator, 6½ DMM and Liquid Bath by Comparison Method	0 °C to 80 °C	0.2 °C
115	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Dry Block, Oven, Furnace (single position)	Using S Type Thermocouple with Indicator by Comparison Method	400 °C to 1200 °C	2.33 °C
116	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Bath, Dry Block, Oven, Furnace, Freezer, Incubator (For Non-Medical Purpose Only) - Single Position	Using Standard 4 Wire RTD with Indicator by Comparison Method	(-) 35 °C to 400 °C	0.3 °C
117	THERMAL-TEMPERATURE	Thermocouple / Transmitter With or Without Indicator	Using S Type Thermocouple with Indicator, 6½ DMM and Dry Bath by Comparison Method	400 °C to 1200 °C	2.3 °C

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