



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

METRIC INDUSTRIAL METROLOGY PRIVATE LIMITED, PLOT NO. 55, CHENNAI GREEN CITY, PARUTHIPATTU, AVADI, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

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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 Digit Multimeter by Direct method	100 mA to 10 A	0.17 % to 0.37 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 mV to 1000 V	0.12 % to 0.10 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator by Direct Method	2 mA to 500 mA	0.34 % to 0.10 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator with Current Coil by Direct Method	20 A to 1000 A	0.96 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator by Direct Method	500 mA to 10 A	0.10 % to 0.15 %



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6	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator by Direct Method	20 mV to 200 mV	0.41 % to 0.11 %
7	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator by Direct Method	200 mV to 1000 V	0.11 % to 0.10 %
8	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 µA to 100 mA	0.09 % to 0.06 %
9	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 mA to 3 A	0.06 % to 0.14 %
10	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	3 A to 10 A	0.14 % to 0.18 %
11	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	30 µA to 100 µA	0.35 % to 0.09 %



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12	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6½ Digit Multimeter for 2 wires by Direct Method	1 kohm to 10 Mohm	0.01 % to 0.05 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6½ Digit Multimeter for 2 wires by Direct Method	1 Ohm to 10 Ohm	0.36 % to 0.02 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6½ Digit Multimeter for 2 wires by Direct Method	10 Mohm to 100 Mohm	0.05 % to 0.95 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6½ Digit Multimeter for 2 wires by Direct Method	10 Ohm to 1 kohm	0.02 % to 0.01 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6½ Digit Multimeter for 2 wires by Direct Method	100 Mohm to 1000 Mohm	0.95 % to 2.32 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 mV to 10 mV	0.43 % to 0.045 %



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18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 V to 1000 V	0.005 % to 0.006 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 mV to 100 mV	0.045 % to 0.008 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 mV to 1 V	0.008 % to 0.005 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	10 µA to 500 mA	0.27 % to 0.07 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator with Current Coil by Direct Method	20 A to 1000 A	0.54 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	500 mA to 10 A	0.07 % to 0.19 %



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24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	1 Mohm	0.23 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	1 ohm	0.23 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	10 kohm	0.23 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	10 Mohm	0.23 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	10 Ohm	0.48 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	100 kohm	0.23 %



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30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	100 Ohm	0.25 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	2.4 kohm	0.23 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	2.4 Mohm	0.23 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	24 kohm	0.23 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	24 Mohm	0.23 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	24 Ohm	0.33 %



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36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	240 kohm	0.23 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	240 Ohm	0.24 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	5 kohm	0.23 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	5 Mohm	0.23 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	50 kohm	0.23 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	50 Ohm	0.28 %



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42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	500 kohm	0.23 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	500 Ohm	0.24 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	1 mV to 20 mV	4.7 % to 0.27 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	20 mV to 200 mV	0.27 % to 0.06 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	200 mV to 1000 V	0.06 %
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using Multi Function Calibrator by Direct Method	600 °C to 1800 °C	1.16 °C



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48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using Multi Function Calibrator by Direct Method	-200 °C to 950 °C	0.30 °C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using Multi Function Calibrator by Direct Method	-200 °C to 1150 °C	1.15 °C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using Multi Function Calibrator by Direct Method	-200 °C to 1370 °C	0.47 °C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using Multi Function Calibrator by Direct Method	-100 °C to 1250 °C	0.47 °C
52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using Multi Function Calibrator by Direct Method	50 °C to 1750 °C	1.16 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD PT100	Using Multi Function Calibrator by Direct Method	-200 °C to 800 °C	1.15 °C



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54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using Multi Function Calibrator by Direct Method	50 °C to 1750 °C	0.81 °C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using Multi Function Calibrator by Direct Method	-100 °C to 350 °C	0.37 °C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using Multi Function Calibrator by Direct Method	600 °C to 1800 °C	1.33 °C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using Multi Function Calibrator by Direct Method	-50 °C to 850 °C	0.30 °C
58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using Multi Function Calibrator by Direct Method	-60 °C to 1100 °C	0.35 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Multi Function Calibrator by Direct Method	-100 °C to 1350 °C	0.47 °C



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60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using Multi Function Calibrator by Direct Method	-200 °C to 1300 °C	0.47 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Multi Function Calibrator by Direct Method	50 °C to 1750 °C	1.14 °C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD PT100	Using Multi Function Calibrator by Direct Method	-200 °C to 800 °C	0.41 °C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using Multi Function Calibrator by Direct Method	50 °C to 1750 °C	1.04 °C
64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using Multi Function Calibrator by Direct Method	-100 °C to 400 °C	0.37 °C
65	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	3 Hz to 30 Hz	0.12 % to 0.04 %



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66	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	30 Hz to 300 Hz	0.04 % to 0.01 %
67	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	300 Hz to 10 kHz	0.01 %
68	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totaliser by Comparison Method	1 s to 1000 s	0.08 s to 0.33 s
69	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totaliser by Comparison Method	1000 s to 5000 s	0.33 s to 1.63 s
70	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totaliser by Comparison Method	45000 s to 86400 s	10.55 s to 20.5 s
71	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totaliser by Comparison Method	5000 s to 45000 s	1.63 s to 10.55 s



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72	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Function Calibrator by Direct Method	3 Hz to 10 kHz	0.024 % to 0.013 %
73	MECHANICAL-ACOUSTICS	Sound Level Meter (1 kHz)	Using Sound Level Calibrator by Direct Method	94 dB & 114 dB	0.4 dB
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge (Analog / Digital) LC : 0.001mm	Using Setting Ring Gauge by Comparison Method	Upto 0.05 mm	2.31 µm
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre: Coaxiality of Centre	Using Straight Mandrel & Lever Dial Gauge by Comparison Method	Upto 1000 mm	3.3 µm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre: Parallelism	Using Taper Mandrel & Lever Dial Gauge by Comparison Method	Upto 1000 mm	3.3 µm



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77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor (L.C.: 1 Arc min.)	Using Profile Projector by Direct Method	0° to 360°	4.0 Arc min.
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (Split Type) Transmission Error Only, (L.C: 0.0005 mm)	Using Gauge Blocks with Accessories Set by Comparison Method	0.95 mm to 18.0 mm	2.7 µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (Stem Type) Transmission Error (Dia 6 mm to 500 mm) (L.C: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 2 mm	3.26 µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper Checker	Using Gauge Blocks, Length Bar and Lever Dial Gauge by Comparison Method	Up to 1000 mm	7.4 µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper Checker	Using Gauge Blocks, Length Bar and Lever Dial Gauge by Comparison Method	Up to 600 mm	4.2 µm



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82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper Checker	Using Gauge Blocks, Length Bar and Lever Dial Gauge by Comparison Method	Upto 300 mm	3.0 µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers (Vernier/Dial/Digital) (L.C: 0.01 mm)	Using caliper Checker, Length Bar & Parallel Jaws by Comparison Method	0 to 1000 mm	10 µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C: 0.0001 mm)	Using Master Foils by Comparison Method	0.012 mm to 0.10 mm	2.0 µm
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C: 0.001 mm)	Using Master Foils by Comparison Method	0.1 mm to 2.1 mm	2.0 µm
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set (L.C: 1°)	Using Profile Projector By Direct Method	0° to 360°	18 Arc min.



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87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness of Base)	Using Dial Indicator and Surface plate by Direct method	300 mm X 250 mm	2.75 µm
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness of Base)	Using Optical Flat by Comparison Method	Upto 60 mm	0.93 µm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master (Variation in Dia. & Runout)	Using Gauge Blocks & Electronic Probe with DRO and Bench Centre by Comparison Method	>100 mm to 200 mm	Dia: 1.1 µm; Runout: 3.7 µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master (Variation in Dia. & Runout)	Using Gauge Blocks & Electronic Probe with DRO and Bench Centre by Comparison Method	2.5 mm to 100 mm	Dia: 0.84 µm; Runout: 3.7 µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (Vernier/Dial/Digital) (L.C: 0.01 mm)	Using Gauge Blocks by Comparison Method	0 to 300 mm	10 µm



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92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (Vernier/Dial/Digital) (L.C: 0.02 mm)	Using Gauge Blocks & Length Bar by Comparison Method	0 to 600 mm	16 µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C: 0.01 mm)	Using Gauge Blocks by Comparison Method	0 to 300 mm	4.0 µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer / Depth Dial Gauge (L.C: 0.001 mm)	Using Gauge Blocks by Comparison Method	0 to 150 mm	2.2 µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Caliper Gauge (Internal) (L.C: 0.005 mm)	Using Gauge Blocks & Gauge Block Accessories by Comparison Method	5 mm to 175.0 mm	5.0 µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Caliper Gauge(External)/Pistol Caliper (L.C: 0.1 mm)	Using Gauge Blocks by Comparison Method	Upto 60 mm	42.04 µm



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97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge/Dial Snap Meter (L.C: 0.001 mm)	Using Gauge Blocks by Comparison Method	0 to 200 mm	2.0 µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C: 0.001 mm)	Using Gauge Blocks & Long Gauge Blocks by Comparison Method	>200 mm to 600 mm	5.0 µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C: 0.001 mm)	Using Gauge Blocks & Long Gauge Blocks by Comparison Method	>600 mm to 1000 mm	10 µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C: 0.001 mm)	Using Gauge Blocks by Comparison Method	0 to 200 mm	2.0 µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler gauge	Using Micrometer by Comparison Method	0.03 mm to 3 mm	2.5 µm



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102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flush pin gauge	Using Gauge Blocks & Electronic Probe with DRO by Comparison Method	Upto 100 mm	2.5 µm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gauge Block Accessories Set	Using Gauge Blocks & Electronic Probe with DRO by Comparison Method	Upto 25 mm	1.2 µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) (L.C: 0.01 mm)	Using Caliper Checker & Length Bar by Comparison Method	0 to 1000 mm	10.0 µm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer (Caliper type) (L.C: 0.01 mm)	Using Gauge Blocks & Gauge Block Accessories by Comparison Method	5 mm to 30 mm	3.34 µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer (Extension rod type) (L.C: 0.001 mm)	Using Gauge Blocks, Length Bars, Gauge Block Accessories Set & Dial Indicator by Comparison Method	13 mm to 500 mm	5.0 µm



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107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer (Tubular type) (L.C: 0.001 mm)	Using Gauge Blocks, Length Bars, Gauge Block Accessories Set & Dial Indicator by Comparison Method	50 mm to 63 mm	5.0 µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (Three Point) (L.C: 0.001 mm)	Using Setting Ring Gauge by Comparison Method	6 mm to 100 mm	4.67 µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever type dial gauge (L.C: 0.001 mm)	Using Dial calibration Tester by Comparison Method	0 to 2.0 mm	2.0 µm
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauges/ OD Gauge/ Length Gauge/ Step thickness Gauge	Using Electronic Probe with DRO, Gauge Blocks, Dial Indicator & Micrometer by Comparison Method	0.5 mm to 300 mm	3.0 µm
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Master Foils	Using Gauge Blocks & Electronic Probe with DRO by Comparison Method	0.01 mm to 3 mm	1.0 µm



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112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using Length Measuring Machine by Comparison Method	0.2 mm to 25 mm	0.35 μm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C: 0.5 mm)	Using Scale & Tape Calibrator by Direct Method	0 to 2000 mm	117* sqrt(L/1000) μm , where L in mm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C: 0.5 mm/ 1 mm)	Using Scale & Tape Calibrator by Direct Method	0 to 100 m	240*sqrt(L/1000) μm , where L in mm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head (L.C: 0.0002 mm)	Using Electronic Probe with DRO by Comparison Method	0 to 50 mm	1.3 μm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Gauge Blocks & Electronic Probe with DRO by Comparison Method	>100 mm to 200 mm	2.5 μm



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117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Gauge Blocks & Electronic Probe with DRO by Comparison Method	>200 mm to 300 mm	3.5 µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Gauge Blocks & Electronic Probe with DRO by Comparison Method	25 mm to 100 mm	1.2 µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Gauge Blocks, Length baes & Lever Dial Gauge by Comparison Method	300 mm to 1000 mm	6.0 µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pie Tape (L.C.: 0.5 mm/1 mm)	Using Scale & Tape Calibrator by Direct Method	Upto 6 m	120*sqrt(L/1000) µm, where L in mm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Micrometer (Anvil Angle)	Using Profile Projector by Direct Method	55° & 60°	5.0 Arc min.



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122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Micrometer (L.C: 0.001 mm)	Using Gauge Blocks by Comparison Method	0 to 50 mm	2.0 µm
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Setting Plug Gauge	Using Gauge Blocks & Electronic Probe with DRO by Comparison Method	>100 mm to 250 mm	2.54 µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Setting Ring Gauge	Using Length Measuring Machine & Master Ring Gauge by Comparison Method	>100 to 300 mm	2.5 µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Setting Ring Gauge	Using Length Measuring Machine & Master Ring Gauge by Comparison Method	2 mm to 100 mm	2.0 µm
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain V-Block (Parallelism)	Using Surface Plate, Test Mandrels & Dial Indicator by comparison method	Upto (100x300x100) mm	3.5 µm



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127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain V-Block (Squareness)	Using Surface Plate, Granite L Square & Dial Indicator by comparison method	Upto (100x300x100) mm	8.7 µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain V-Block (Symmetry)	Using Surface Plate, Test Mandrels & Dial Indicator by comparison method	Upto (100x300x100) mm	3.5 µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain/Setting Plug Gauge	Using Gauge Blocks & Electronic Probe with DRO by Comparison Method	0.5 mm to 100 mm	1.2 µm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger type dial gauge (Analog/Digital) (L.C: 0.0005 mm)	Using Gauge Blocks & Dial Calibration Tester by Comparison Method	0 to 60.9 mm	1.5 µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge (Concave & Convex)	Using Profile Projector by Direct Method	0.4 mm to 25 mm	6.1 µm



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132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Gauge Blocks by Comparison Method	>100 mm to 200 mm	2.0 µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Gauge Blocks & Long Gauge blocks by Comparison Method	>200 mm to 300 mm	3.0 µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Gauge Blocks & Long Gauge blocks Comparison Method	>300 mm to 400 mm	4.0 µm
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Gauge Blocks by Comparison Method	2.5 mm to 100 mm	1.6 µm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level (L.C: 0.01 mm/m)	Using Electronic level and robust tilting table by Comparison Method	Base Length upto 300 mm	6.0 µm/m



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137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Plug Gauge (Pin Over Diameter)	Using Length Measuring Machine and Measuring pin by Comparison Method	6 mm to 150 mm	2.6 µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Ring Gauge (Pin Over Diameter)	Using Gauge Blocks & Measuring pin by Comparison Method	15 mm to 120 mm	2.3 µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Ring Gauge (Spline Width)	Using Gauge Block Set by comparison method	upto 20 mm	2.3 µm
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Parallelism and Straightness)	Using Electronic Level, Gauge Block & Dial Indicator by Comparison Method	Upto 1000 mm	2.0*sqrt(L/100) µm, where L in mm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plug Gauge (Linear:Diameter)	Using Length Measuring Machine and Measuring Pin by Comparison Method	Upto 100 mm	3.0 µm



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142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plug Gauge (Taper Angle)	Using Length Measuring Machine and Measuring Pin by Comparison Method	Upto 100 mm	3 Arc min.
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Ring Gauge (Linear)	Using Master Setting Ring Gauge and Length Measuring Machine by Comparison Method	Upto 100 mm	3.0 µm
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Ring Gauge (Taper Angle)	Using Master Setting Ring Gauge and Length Measuring Machine by Comparison Method	Upto 100 mm	3 Arc min.
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale (L.C: 0.1 mm)	Using Profile Projector by Direct Method	1 mm to 60 mm	15 µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge	Using FCDM, Cylindrical Setting Master & Thread Measuring wire by Comparison Method	7 mm to 100 mm	3.0 µm



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147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge	Using Length Measuring Machine & Master Ring Gauge by Comparison Method	7 mm to 100 mm	2.0 µm
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel (Straight, Variation in Diameter and Runout)	Using Slip Gauge Set, Electronic Probe with DRO & Bench Centre by Comparison Method	Dia: Upto 50 mm	Diameter: 1.4 µm; Runout: 4.1 µm
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector by Direct Method	0.02 mm to 10 mm	5.0 µm
150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge (Dial/Digital) (L.C: 0.001 mm)	Using Gauge Blocks by Comparison Method	0 to 25 mm	1.6 µm
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire	Using Length Measuring Machine by Direct Method	0.17 mm to 6.35 mm	0.35 µm



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152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Flank Angle)	Using Profile Projector by Direct Method	55° & 60°	5.6 Arc min.
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Linear)	Using Profile Projector by Direct Method	0.25 mm to 6.35 mm	5.6 µm
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge / WCP / CP (Major Diameter, Effective Diameter)	Using Length Measuring Machine, Thread Measuring Wires & Gauge Blocks by Comparison Method	>100 mm to 300 mm	3.0 µm
155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge / WCP / CP (Major Diameter, Effective Diameter)	Using FCDM, Cylindrical Setting Master & Thread Measuring Wire by Comparison Method.	2.5 mm to 100	3.0 µm
156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge / WCP / CP (Major Diameter, Effective Diameter)	Using Length Measuring Machine, Thread Measuring Wires & Cylindrical Setting Master by Comparison Method	2.5 mm to 100 mm	2.0 µm



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157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge / WCR (Effective Diameter)	Using Length Measuring Machine & Master Ring Gauge by Comparison Method	>100 mm to 300 mm	2.6 µm
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge / WCR (Effective Diameter)	Using Length Measuring Machine & Master Ring Gauge by Comparison Method	3 mm to 100 mm	2.0 µm
159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C: 0.01 mm)	Using Gauge Blocks by Comparison Method	0 to 300 mm	58 µm
160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Anvil Micrometer (L.C.0.001mm)	Using Cylindrical Setting Master & Measuring Pin by comparison method	1 mm to 100 mm	3.7 µm
161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Anvil Micrometer Relief	Using Gauge Block & Electronic Probe with DRO by comparison method	upto 100 mm	1.5 µm



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162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (L.C: 0.02 mm)	Using Caliper Checker, Length Bar and parallel Jaws by Comparison Method	0 to 1500 mm	18 µm
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge	Using Profile Projector by Direct Method	Upto 60 mm	5.0 µm
164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet Film Thickness Gauge/Hi-Lo gauge/bridge cam gauge/ CD Gauge/PCD Gauge/Welding Gauge/Width gauge/Receiver Gauge/Profile Gauge (Length/Angle)	Using Profile Projector by Direct Method	Linear: 0 to 200 mm; Angl to to 360°; Pitch circle diameter: 57 mm	Length: 5.0 µm; Angular: 4.0 Arc min.
165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	Using Digital Micrometer by Comparison Method	0.5 mm to 25 mm	2.5 µm



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166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using Profile Projector by Direct Method	0.2 mm to 10 mm	5.1 µm
167	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Electronic Height Gauge (L.C: 0.0001 mm) (Squareness)	Using Granite L Square and Electronic Probe with DRO by Comparison Method	0 to 1000 mm	8.7 µm
168	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Electronic Height Gauge (L.C: 0.0001 mm)(Instrumental Error)	Using Length Bar and Parallel Jaws by Comparison Method	0 to 1000 mm	5.7 µm
169	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester (Analog/Digital) (L.C: 0.0001 mm)	Using Electronic Probe with DRO by Comparison Method	0 to 100 mm	1.0 µm
170	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Level (L.C.0.001 mm/m)	Using Electronic Comparator with DRO & Robust Tilting Table by Comparison Method	±2 mm/m	4.0 µm/m
171	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe with DRO / Comparator (L.C: 0.0001 mm)	Using Gauge Blocks by Comparison Method	0 to 25 mm	0.5 µm



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172	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Micrometer/ Diameter Measuring Machine (L.C: 0.0001 mm)	Using Cylindrical Setting master, Electronic Comparator with DRO, Surface Plate, Test Mandrel by Comparison Method	0 to 25 mm	1.2 µm
173	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine / ULM (L.C: 0.0001 mm)	Using Gauge Blocks by Comparison Method	0 to 100 mm	0.6 µm
174	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Angular) (L.C: 36 s)	Using Angular Gaticule by Comparison Method	Upto 360°	2.4 Arc min.
175	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification)	Using Glass Scales by Comparison Method	5x to 100x	0.3 %
176	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring System / Microscope (Linear) (L.C: 0.0001 mm)	Using Glass Scale / Long Slip Gauge by Comparison Method	0 to 400 mm	3.0 µm
177	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Specimen	Using Surface Rough Specimen & Roughness Tester by Comparison Method	Ra: 2.94 µm; Ry: 9.3 µm;	9.5 %



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178	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Hydraulic) Pressure Gauges, Pressure Switches, Pressure transmitter & Pressure Transducer with Indicator	Using Pressure Calibrator by Comparison Method as per DKD-R 6-1	0 bar to 700 bar	0.20 bar
179	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Pneumatic) Pressure Gauges, Pressure Switches, Pressure transmitter & Pressure Transducer with indicator	Using Pressure Calibrator by Comparison Method Procedure as per DKD-R 6-1	0 bar to 25 bar	0.03 bar
180	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Vacuum Gauges	Using Pressure Calibrator by Comparison Method as per ISO 3567 & ISO 27893	0 bar to (-) 0.85 bar	0.0081 bar
181	THERMAL-TEMPERATURE	Digital Thermometer, RTD Sensor, Thermocouple, Temperature Indicator / Controller / Transmitter / Recorder with Sensor, Temperature Gauge	Using SSPRT with 6½ Digit Multi Meter & Dry Block Calibrator by Comparison Method	250 °C to 600 °C	0.87 °C



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182	THERMAL-TEMPERATURE	Digital Thermometer, RTD Sensor, Thermocouple, Temperature Indicator / Controller / Transmitter / Recorder with Sensor, Temperature Gauge	Using SSPRT with 6½ Digit Multi Meter & Dry Block Calibrator by Comparison Method	50 °C to 250 °C	0.51 °C
183	THERMAL-TEMPERATURE	Digital Thermometer, Thermocouple, Temperature Indicator / Controller / Transmitter / Recorder with Sensor	Using R-Type Thermocouple with Multi Function Calibrator & Dry Block Calibrator by Comparison Method	400 °C to 1200 °C	2.1 °C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator by Direct Method	2 mA to 500 mA	0.34 % to 0.10 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator with Current Coil by Direct Method	20 A to 1000 A	0.96 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator by Direct Method	500 mA to 10 A	0.10 % to 0.15 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator by Direct Method	20 mV to 200 mV	0.41 % to 0.11 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator by Direct Method	200 mV to 1000 V	0.11 % to 0.10 %



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6	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	10 μ A to 500 mA	0.27 % to 0.07 %
7	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator with Current Coil by Direct Method	20 A to 1000 A	0.54 %
8	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	500 mA to 10 A	0.07 % to 0.19 %
9	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	1 Mohm	0.23 %
10	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	1 ohm	0.23 %
11	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	10 kohm	0.23 %



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12	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	10 Mohm	0.23 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	10 Ohm	0.48 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	100 kohm	0.23 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	100 Ohm	0.25 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	2.4 kohm	0.23 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	2.4 Mohm	0.23 %



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18	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	24 kohm	0.23 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	24 Mohm	0.23 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	24 Ohm	0.33 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	240 kohm	0.23 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	240 Ohm	0.24 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	5 kohm	0.23 %



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24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	5 Mohm	0.23 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	50 kohm	0.23 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	50 Ohm	0.28 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	500 kohm	0.23 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Universal Calibrator for 2 wires by Direct Method	500 Ohm	0.24 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	1 mV to 20 mV	4.7 % to 0.27 %



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30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	20 mV to 200 mV	0.27 % to 0.06 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	200 mV to 1000 V	0.06 %
32	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using Multi Function Calibrator by Direct Method	600 °C to 1800 °C	1.16 °C
33	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using Multi Function Calibrator by Direct Method	-200 °C to 950 °C	0.30 °C
34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using Multi Function Calibrator by Direct Method	-200 °C to 1150 °C	1.15 °C
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using Multi Function Calibrator by Direct Method	-200 °C to 1370 °C	0.47 °C



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36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using Multi Function Calibrator by Direct Method	-100 °C to 1250 °C	0.47 °C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using Multi Function Calibrator by Direct Method	50 °C to 1750 °C	1.16 °C
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD PT100	Using Multi Function Calibrator by Direct Method	-200 °C to 800 °C	1.15 °C
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using Multi Function Calibrator by Direct Method	50 °C to 1750 °C	0.81 °C
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using Multi Function Calibrator by Direct Method	-100 °C to 350 °C	0.37 °C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using Multi Function Calibrator by Direct Method	600 °C to 1800 °C	1.33 °C



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42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using Multi Function Calibrator by Direct Method	-50 °C to 850 °C	0.30 °C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using Multi Function Calibrator by Direct Method	-60 °C to 1100 °C	0.35 °C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Multi Function Calibrator by Direct Method	-100 °C to 1350 °C	0.47 °C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using Multi Function Calibrator by Direct Method	-200 °C to 1300 °C	0.47 °C
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Multi Function Calibrator by Direct Method	50 °C to 1750 °C	1.14 °C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD PT100	Using Multi Function Calibrator by Direct Method	-200 °C to 800 °C	0.41 °C



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48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using Multi Function Calibrator by Direct Method	50 °C to 1750 °C	1.04 °C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using Multi Function Calibrator by Direct Method	-100 °C to 400 °C	0.37 °C
50	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totaliser by Comparison Method	1 s to 1000 s	0.08 s to 0.33 s
51	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totaliser by Comparison Method	1000 s to 5000 s	0.33 s to 1.63 s
52	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totaliser by Comparison Method	45000 s to 86400 s	10.55 s to 20.5 s
53	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totaliser by Comparison Method	5000 s to 45000 s	1.63 s to 10.55 s



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54	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Function Calibrator by Direct Method	3 Hz to 10 kHz	0.024 % to 0.013 %
55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge (Analog / Digital) LC : 0.001mm	Using Setting Ring Gauge by Comparison Method	Upto 0.05 mm	2.31 µm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre: Coaxiality of Centre	Using Straight Mandrel & Lever Dial Gauge by Comparison Method	Upto 1000 mm	3.3 µm
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre: Parallelism	Using Taper Mandrel & Lever Dial Gauge by Comparison Method	Upto 1000 mm	3.3 µm
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Scale and Tape Calibrator (L.C: 0.001 mm)	Using Gauge Blocks, Length Bars & Lever Dial Gauge by Comparison Method	0 to 1000 mm	10 µm



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59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic Level by Comparison Method	Upto 3000x2000 mm	1.1xSqrt {(W+L)/100}µm, where L & W in mm
60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (L.C: 0.02 mm)	Using Caliper Checker, Length Bar and parallel Jaws by Comparison Method	0 to 1500 mm	18 µm
61	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Electronic Height Gauge (L.C: 0.0001 mm) (Squareness)	Using Granite L Square and Electronic Probe with DRO by Comparison Method	0 to 1000 mm	8.7 µm
62	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Electronic Height Gauge (L.C: 0.0001 mm)(Instrumental Error)	Using Length Bar and Parallel Jaws by Comparison Method	0 to 1000 mm	5.7 µm
63	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester (Analog/Digital) (L.C: 0.0001 mm)	Using Electronic Probe with DRO by Comparison Method	0 to 100 mm	1.0 µm



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64	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Micrometer/ Diameter Measuring Machine (L.C: 0.0001 mm)	Using Cylindrical Setting master, Electronic Comparator with DRO, Surface Plate, Test Mandrel by Comparison Method	0 to 25 mm	1.2 µm
65	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine / ULM (L.C: 0.0001 mm)	Using Gauge Blocks by Comparison Method	0 to 100 mm	0.6 µm
66	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Angular) (L.C: 36 s)	Using Angular Gaticule by Comparison Method	Upto 360°	2.4 Arc min.
67	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification)	Using Glass Scales by Comparison Method	5x to 100x	0.3 %
68	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring System / Microscope (Linear) (L.C: 0.0001 mm)	Using Glass Scale / Long Slip Gauge by Comparison Method	0 to 400 mm	3.0 µm



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69	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Hydraulic) Pressure Gauges, Pressure Switches, Pressure transmitter & Pressure Transducer with Indicator	Using Pressure Calibrator by Comparison Method as per DKD-R 6-1	0 bar to 700 bar	0.20 bar
70	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Pneumatic) Pressure Gauges, Pressure Switches, Pressure transmitter & Pressure Transducer with indicator	Using Pressure Calibrator by Comparison Method Procedure as per DKD-R 6-1	0 bar to 25 bar	0.03 bar
71	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Vacuum Gauges	Using Pressure Calibrator by Comparison Method as per ISO 3567 & ISO 27893	0 bar to (-) 0.85 bar	0.0081 bar
72	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Readability: 0.01g (Accuracy Class II & Coarser)	Using F1 accuracy class standard weights and procedure as per OIML R 76	10 mg to 320 g	1.4 mg
73	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Readability: 1 g (Accuracy Class II & Coarser)	Using F1 & F2 accuracy Class standard weights and procedure as per OIML R 76	15 kg to 30 kg	0.79 g



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74	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Readability 0.5 g (Accuracy Class II & Coarser)	Using F1 & F2 accuracy class standard weights and procedure as per OIML R 76	6.2 kg to 15 kg	0.50 g
75	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Readability: 0.1g (Accuracy Class II & Coarser)	Using F1 & F2 accuracy class standard weights and procedure as per OIML R 76	320 g to 6.2 kg	0.12 g
76	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Readability: 10 g (Accuracy Class IV)	Using F2 & M1 accuracy class standard weights and procedure as per OIML R 76	50 kg to 100 kg	13.5 g
77	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Readability: 5 g (Accuracy Class III & Coarser)	Using F2 & M1 accuracy class standard weights and procedure as per OIML R 76	30 kg to 50 kg	3.83 g
78	THERMAL-TEMPERATURE	Chamber, Hot Air Oven, Auto Clave (for non-medical purpose only), Furnace (Multi Position)	Using RTDs and Data Logger with minimum 9 sensors by Comparison Method	100 °C to 300 °C	2.6 °C



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79	THERMAL-TEMPERATURE	Deep Freezer, Freezer, Chamber, Water Bath, Incubators (non-medical purpose only), Refrigerators, Hot Air Oven (Multi Position)	Using RTDs and Multi Channel Recorder with 9 sensors by Comparison Method	-80 °C to 100 °C	2.2 °C
80	THERMAL-TEMPERATURE	Digital Thermometer, RTD Sensor, Thermocouple, Temperature Indicator / Controller / Transmitter / Recorder with Sensor, Temperature Gauge	Using RTD Sensor with Multi Function Calibrator & Dry Block Calibrator by Comparison Method	200 °C to 400 °C	0.76 °C
81	THERMAL-TEMPERATURE	Digital Thermometer, RTD Sensor, Thermocouple, Temperature Indicator / Controller / Transmitter / Recorder with Sensor, Temperature Gauge	Using RTD Sensor with Multi Function Calibrator & Dry Block Calibrator by Comparison Method	50 °C to 200 °C	0.52 °C



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82	THERMAL-TEMPERATURE	Digital Thermometer, Thermocouple, Temperature Indicator / Controller / Transmitter / Recorder with Sensor	Using R-Type Thermocouple with Multi Function Calibrator & Dry Block Calibrator by Comparison Method	400 °C to 1200 °C	2.1 °C
83	THERMAL-TEMPERATURE	Hot Air Oven, Furnace (Multi Position)	Using N type Thermocouples and Data Logger with minimum 9 sensors by Comparison Method	300 °C to 1200 °C	4.3 °C
84	THERMAL-TEMPERATURE	Temperature indicator with sensor of Temperature Chamber, Hot Air Oven, Furnace (Single Position)	Using R Type Thermocouple with Multi Function Calibrator by Comparison Method	400 °C to 1200 °C	2.3 °C
85	THERMAL-TEMPERATURE	Temperature sensor with indicator of Chamber, Hot Air Oven, Auto Clave (for non-medical purpose only), Furnace (Single Position)	Using RTD Sensor with Multi Function Calibrator by Comparison Method	100 °C to 400 °C	0.7 °C



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86	THERMAL-TEMPERATURE	Temperature sensor with indicator of Deep Freezer, Freezer, Chamber, Water Bath, Incubators (for non-medical purpose only), Refrigerators, Hot Air Oven, (Single Position)	Using RTD Sensor with Multi Function Calibrator by Comparison Method	-80 °C to 100 °C	0.7 °C

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