National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ACCURATE INDIA INSTRUMENTS, NO.33, SLV NAGAR, ZUZUWADI, HOSUR, KRISHNAGIRI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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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	0.1 A to 1 A	1.04 % to 1.48 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 A to 3 A	1.48 % to 3 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 V to 100 V	0.45 % to 0.24 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 mV to 100 mV	0.82 % to 0.58 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 mV to 1 V	0.58 % to 0.45 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 V to 750 V	0.24 % to 0.11 %

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator with Current Coil by Direct Method	10 A to 1000 A	1.7 % to 1.06 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator by Direct Method	1 mA to 200 mA	5.64 % to 0.44 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator by Direct Method	200 mA to 5 A	0.44 % to 3.75 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator by Direct Method	5 A to 10 A	3.75 % to 1 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5½ Multi Function Calibrator by Direct Method	10 mV to 100 mV	3.76 % to 0.37 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5½ Multi Function Calibrator by Direct Method	100 mV to 1000 V	0.37 % to 0.36 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 mA to 10 mA	0.29 % to 0.17 %

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14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	10 mA to 100 mA	0.17 % to 0.1 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 mA to 3 A	0.1 % to 0.93 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 mV to 100 mV	0.82 % to 0.011 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 mV to 1000 mV	0.011 % to 0.086 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1000 mV to 1000 V	0.086 % to 0.14 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 10 Mohm	0.21 % to 0.06 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	10 Mohm to 100 Mohm	0.06 % to 1.62 %

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21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	100 kohm to 1 Mohm	0.56 % to 0.21 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	10 kohm to 100 kohm	0.16 % to 0.56 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	10 ohm to 100 ohm	0.28 % to 0.16 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	100 ohm to 10 kohm	0.16 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Multi Function Calibrator by Direct Method	1 mA to 200 mA	0.8 % to 0.22 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Multi Function Calibrator with Current Coil by Direct Method	10 A to 1000 A	1.7 % to 1 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Multi Function Calibrator by Direct Method	2 A to 10 A	0.63 % to 0.8 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Multi Function Calibrator by Direct Method	200 mA to 2 A	0.22 % to 0.63 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Multi Function Calibrator by Direct Method	10 mV to 100 mV	0.98 % to 0.19 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Multi Function Calibrator by Direct Method	100 mV to 1000 V	0.19 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	1 Mohm to 10 Mohm	5.6 % to 0.58 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	100 kohm to 100 Mohm	0.56 % to 0.6 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	100 Mohm to 1000 Mohm	0.6 % to 1.48 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Decade Resistance Box by Direct Method	100 ohm to 10 kohm	0.31 % to 0.13 %

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35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Decade Resistance Box by Direct Method	10 kohm to 100 kohm	0.13 % to 0.56 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Decade Resistance Box by Direct Method	10 ohm to 100 ohm	0.58 % to 0.31 %
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD Type - PT 100	Using Temperature Calibrator by Direct Method	(-) 200 °C to 800 °C	0.91 °C
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - J Type	Using Temperature Calibrator by Direct Method	(-) 60 °C to 1100 °C	1.15 °C
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - K Type	Using Temperature Calibrator by Direct Method	(-) 100 °C to 1300 °C	1.39 °C
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - R Type	Using Temperature Calibrator by Direct Method	500 °C to 1700 °C	2.6 °C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - S Type	Using Temperature Calibrator by Direct Method	500 °C to 1700 °C	2.46 °C

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42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - T Type	Using Temperature Calibrator by Direct Method	(-) 200 °C to 400 °C	1.14 °C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD Type - PT 100	Using Temperature Calibrator by Direct Method	(-) 200 °C to 600 °C	0.95 °C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Temperature Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.84 °C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Temperature Calibrator by Direct Method	(-) 200 °C to 1300 °C	1.51 °C
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Temperature Calibrator by Direct Method	500 °C to 1700 °C	2.42°C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Temperature Calibrator by Direct Method	500 °C to 1700 °C	2.42 °C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - T Type	Using Temperature Calibrator by Direct Method	(-) 200 °C to 400 °C	0.91 °C

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49	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Standard Timer by Comparison Method	10 s to 36000 s	1.62 s to 12.57 s
50	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using 5½ Multifunction Calibrator by Direct Method	45 Hz to 900 Hz	0.56 % to 0.19 %
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge Unit - Analog / Digital (L.C.: 0.001 mm)	Using Setting Ring Gauges with Plug Gauge and Pressure Set by Comparison Method	(±) 0.025 mm	3.1 µm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor (L.C.: 5 minute of arc)	Using Profile Projector by Comparison Method	0 ° to 360 °	3.8 minute of arc
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Long Slip Gauge and Gauge Block Accessories by Comparison Method	0 to 1000 mm	13 µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Caliper Checker, Slip Gauge Block by Comparison Method	0 to 600 mm	8.9 µm

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55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.1 µm)	Using Foils by Comparison Method	0.01 mm to 0.75 mm	1.2 µm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set (L.C.: 1°)	Using Profile Projector by Comparison Method	0 ° to 180 °	35 minute of arc
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness of Base	Using Lever Dial Gauge with Stand, Screw Jacks and Surface Plate by Direct Method	Up to 300 x 300 mm	3.1 µm
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hatch Cutter - Angle	Using Profile Projector by Direct Method	45 °	4.7 minute of arc
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hatch Cutter - Pitch	Using Profile Projector by Direct Method	2 mm	4.6 µm
60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pins (Grade 1 & Coarser)	Using Electronic Probe with DRO & Slip Gauge Block by Comparison Method	0.1 mm to 20 mm	1.1 µm

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61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Slip Gauge Blocks and Surface Plate by Direct Method	0 to 300 mm	7.6 µm
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Blocks & Surface Plate by Direct Method	0 to 100 mm	1.2 µm
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Block & Surface Plate by Comparison Method	> 100 mm to 300 mm	3 µm
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Bore Gauge, Bore Gauge (L.C.: 0.001 mm) - Transmission Error	Using Dial Calibration Tester by Comparison Method	0 to 1 mm	2.4 µm
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Caliper Gauge - External (L.C.: 0.01 mm)	Using Slip Gauge Blocks Set by Direct Method	5 mm to 500 mm	4.9 µm
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Caliper Gauge - Internal (L.C.: 0.01 mm)	Using Slip Gauge Blocks & Gauge Block Accessories by Direct Method	5 mm to 300 mm	7.9 µm

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67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge - Parallelism (L.C.: 0.001 mm)	Using Slip Gauge Blocks by Direct Method	0 to 100 mm	3 µm
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.001 mm)	Using Slip Gauge Blocks by Direct Method	0 to 2 mm	0.5 µm
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.01 mm)	Using Slip Gauge Blocks Set by Direct Method	0 to 50 mm	4 µm
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digimatic Indicator (L.C.: 0.001 mm)	Using Slip Gauge Block with Comparator Stand by Comparison Method	0 to 50 mm	0.8 µm
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Level, Spirit Level (L.C.: 0.01 mm/m) @ Base Length Up to 300 mm	Using Electronic Level and Robust Tilting Table by Comparison Method	(±) 0.2 mm/m to	9 µm/m
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square - Squareness	Using Granite Square, Lever Dial and Surface Plate by Comparison Method	Up to 600 mm	11 µm

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73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineers Square - Flatness	Using Granite Square, Lever Dial, Surface Plate by Comparison Method	Up to 600 mm	11 µm
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineers Square - Parallelism	Using Lever Dial with Stand and Surface Plate by Comparison Method	Up to 600 mm	11 µm
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineers Square - Straightness	Using Lever Dial with Stand, Surface Plate by Comparison Method	Up to 600 mm	11 µm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Blocks by Comparison Method	> 100 mm to 200 mm	2.2 µm
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Blocks, Long Gauge Blocks by Comparison Method	> 200 mm to 600 mm	5.4 µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Blocks, Optical Flat by Comparison Method	0 to 100 mm	1.6 µm

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79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.01 mm)	Using Slip Gauge Blocks, Long Gauge Blocks by Comparison Method	600 mm to 1000 mm	8.7 µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Micrometer by Comparison Method	0.01 mm to 2 mm	1.8 µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flush Pin Gauge	Using Electronic Probe, Slip Gauge Blocks by Comparison Method	1 mm to 100 mm	3 µm
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Foil	Using Electronic Probe with DRO and Comparator Stand by Direct Method	0.01 mm to 2 mm	1.2 µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Long Slip Gauges, Surface Plate by Comparison Method	0 to 1000 mm	12 µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Caliper Checker, Surface Plate by Comparison Method	0 to 600 mm	10 µm

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85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer - Two Point (L.C.: 0.001 mm)	Using Slip Gauge Blocks & Slip Gauge Accessories by Direct Method	5 mm to 300 mm	3.1 µm
86	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 0.14 mm	1.6 µm
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.002 mm)	Using Dial Calibration Tester by Comparison Method	0 to 0.2 mm	1.9 µm
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.01 mm)	Using Dial Calibration Tester by Comparison Method	0 to 2 mm	6 µm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head (L.C.: 0.0002 mm)	Using Electronic Probe with DRO by Comparison Method	0 to 25 mm	1.2 µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Slip Gauge Blocks, Long Slip Gauge, Electronic Probe with DRO by Comparison Method	> 100 mm to 600 mm	4.8 µm

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91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Slip Gauge Blocks, Electronic Probe with DRO by Comparison Method	25 mm to 100 mm	1.9 µm
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Setting Ring Gauge	Using Length Measuring Machine with Master Setting Ring by Comparison Method	> 100 mm to 150 mm	3 µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Setting Ring Gauge	Using Length Measuring Machine with Master Setting Ring by Comparison Method	2 mm to 100 mm	3 µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Electronic Probe with DRO & Slip Gauges by Comparison Method	> 100 mm to 200 mm	1.8 µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Electronic Probe with DRO & Slip Gauges by Comparison Method	> 200 mm to 300 mm	3.3 µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Electronic Probe with DRO & Slip Gauges by Comparison Method	2 mm to 100 mm	1.3 µm

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97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 5 mm	1.7 µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge (L.C.: 0.01mm)	Using Dial Calibration Tester, Slip Gauge Blocks by Comparison Method	0 to 50 mm	6 µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector by Direct Method	0.5 mm to 40 mm	3.9 µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Gap Gauge	Using Gauge Blocks by Comparison Method	2 mm to 100 mm	1.1 µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Gap Gauge	Using Slip Gauge Blocks, Long Gauge Blocks by Comparison Method	> 100 mm to 400 mm	4.1 µm
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge - Parallelism	Using Surface Plate, Lever Dial Gauge with Stand by Direct Method	Up to 1000 mm	10.5 µm

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103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge - Straightness	Using Surface Plate, Lever Dial Gauge with Stand by Direct Method	Up to 1000 mm	10.5 µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Flatness	Using Electronic Level by Comparison Method	Up to 1000 x 630 mm	1.5 x Sqrt {(L+W) / 100} µm, Where L and W are in mm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale (L.C.: 0.1 mm)	Using Profile Projector by Direct Method	1 mm to 45 mm	14 µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge - Effective Diameter	Using FCDM, Cylindrical Setting Master, Thread Measuring Wires by Comparison Method	7 mm to 100 mm	4.5 µm
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Profile Projector by Direct Method	0.1 mm to 20 mm	4.4 µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire / Three Wire Set	Using Electronic Probe with DRO & Slip Gauge Blocks by Comparison Method	0.17 mm to 6.35 mm	1.1 µm

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109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Pitch Angle	Using Profile Projector by Comparison Method	55° & 60°	10 minute of arc
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Pitch Length	Using Profile Projector by Comparison Method	0.3 mm to 6 mm	4 µm
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge / WCP / CP - Effective Diameter	Using FCDM, Thread Measuring Wires and Cylindrical Setting Master by Comparison Method	2.5 mm to 100 mm	4.5 µm
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge / WCR - Effective Diameter	Using Length Measuring Machine and Master Ring Gauges by Comparison Method	3 mm to 100 mm	3 µm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Point Micrometer (L.C.: 0.001 mm)	Using Setting Ring Gauges by Comparison Method	4 mm to 100 mm	3.2 µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C.: 0.01 mm)	Using Slip Gauge Block by Comparison Method	0 to 100 mm	10 µm

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115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Block - Flatness	Using Lever Dial & Slip Gauge, Surface Plate by Comparison Method	Up to 300 mm	7.3 µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Block - Parallelism	Using Straight Mandrel & Lever Dial Gauge, Surface Plate by Comparison Method	Up to 300 mm	7.3 µm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Block - Squareness	Using Granite Square, Slip Gauge Block & Surface Plate by Comparison Method	Up to 300 mm	20 µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Block - Symmetricity	Using Straight Mandrel, Lever Dial Gauge & Surface Plate by Comparison Method	Up to 300 mm	7.2 µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge - Length	Using Profile Projector by Direct Method	0 to 40 mm	13 µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	Using Digital Micrometer by Comparison Method	2 mm to 50 mm	2.2 µm

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121	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Master - Diameter, Diametrical Variation	Using Electronic Probe with DRO, Slip Gauge Block and Comparator Stand by Comparison Method	3 mm to 100 mm	2.1 µm
122	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Master - Run Out	Using FCDM and Lever Dial Gauge with Stand by Direct Method	3 mm to 100 mm	2.1 µm
123	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester (L.C.: 0.0002 mm)	Using Electronic Probe with DRO by Comparison Method	0 to 25 mm	1 µm
124	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Linear (L.C.: 0.0001 mm)	Using Caliper Checker, Slip Gauge Set and Surface Table by Direct Method	0 to 600 mm	9.6 µm
125	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Squareness (L.C.: 0.0001 mm)	Using Granite Square, Surface Table and Lever Dial Gauge by Comparison Method	0 to 600 mm	11 µm
126	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe with DRO (L.C.: 0.0001 mm)	Using Slip Gauge Blocks and Comparator Stand by Direct Method	0 to 25 mm	0.32 µm
127	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Diameter Machine - Micrometer Head Error (L.C.: 0.0002 mm)	Using Electronic Probe with DRO, Cylindrical Setting Master and Surface Plate by Comparison Method	0 to 100 mm	3.15 µm

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128	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Diameter Machine - Overall Accuracy (L.C.: 0.0002 mm)	Using Cylindrical Setting Master, Surface Table, Electronic Probe with DRO by Comparison Method	0 to 100 mm	3.5 µm
129	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Diameter Measuring Machine - Alignment of Centre to Base (L.C.: 0.0002 mm)	Using Lever Dial Gauge and Cylindrical Setting Master by Comparison Method	0 to 100 mm	3.3 µm
130	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Diameter Measuring Machine - Parallelism of Micrometer Face to Line of Centre (L.C.: 0.0002 mm)	Using Lever Dial with Stand, Straight Mandrel by Comparison Method	0 to 100 mm	3.3 µm
131	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar	Using Slip Gauge Blocks, Long Gauge Block and Electronic Probe with DRO by Comparison Method	> 100 mm to 600 mm	4.8 µm
132	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar	Using Slip Gauge Blocks, Electronic Probe with DRO by Comparison Method	25 mm to 100 mm	1.9 µm
133	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Slip Gauge Block and Digital Caliper by Comparison Method	10 X to 100 X	0.19 %
134	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Video Measuring Machine - Angle (L.C.: 1')	Using Angular Graticule by Comparison Method	0 ° to 360 °	2.5 minute of arc

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135	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Video Measuring Machine - Linear (L.C.: 1 µm)	Using Glass Scale by Comparison Method	0 to 200 mm	7.5 µm
136	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure : Dial / Digital - Pressure Gauge, Pressure Calibrator, Pressure Transmitter / Transducer with Indicator	Using Digital Pressure Calibrator, Hydraulic Comparison Pump and DMM by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.29 %
137	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure : Dial / Digital - Manometer, Pressure Gauge, Pressure Calibrator, Pressure Transmitter, Differential Pressure Gauge	Using Digital Pressure Calibrator, Pneumatic Comparator Pump and DMM by Comparison Method as per DKD-R 6-1	0.1 bar to 2 bar	2.16 %
138	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure : Dial / Digital - Pressure Gauge, Pressure Calibrator, Pressure Transmitter / Recorder / Transducer with Indicator	Using Digital Pressure Calibrator, Pneumatic Hand Pump and DMM by Comparison Method as per DKD-R 6-1	0 to 20 bar	0.14 %
139	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure : Dial / Digital - Vacuum Gauge, Vacuum Calibrator, Vacuum Transmitter / Transducer with Indicator	Using Digital Vacuum Calibrator with Pneumatic Pump and DMM by Comparison Method as per DKD-R 6-1	(-) 0.8 bar to 0 bar	1.1 %

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140	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench - Type I (Class A, B, C, D, E), Type II (Class A, B, C, D, E, F, G)	Using Torque Transducer with Indicator & Torque Wrench Calibration System based on ISO 6789-1:2017, ISO 6789-2:2017	1 Nm to 10 Nm	1.75 %
141	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench - Type I (Class A, B, C), Type II (Class A, B, C)	Using Torque Transducer with Indicator & Torque Wrench Calibration System based on ISO 6789-1:2017, ISO 6789-2:2017	> 10 Nm to 100 Nm	1.94 %
142	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench - Type I (Class A, B, C), Type II (Class A, B, C)	Using Torque Transducer with Indicator & Torque Wrench Calibration System based on ISO 6789-1:2017, ISO 6789-2:2017	> 100 Nm to 1000 Nm	1.13 %
143	THERMAL-TEMPERATURE	RTD / Thermocouple with Indicator / Controller, Temperature Indicator with Sensor, Temperature Gauge, Data Logger with Sensor, Temperature Transmitter / Transducer with Indicator	Using 4 Wire RTD Sensor with Indicator, Digital Multimeter & Dry Block Calibrator by Comparison Method	> 250 °C to 600 °C	0.88 °C

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144	THERMAL-TEMPERATURE	RTD / Thermocouple with Indicator / Controller, Temperature Indicator with Sensor, Temperature Gauge, Data Logger with Sensor, Temperature Transmitter / Transducer with Indicator	Using 4 - Wire RTD Sensor with Indicator, Digital Multimeter & Dry Block Calibrator by Comparison Method	50 °C to 250 °C	0.87 °C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	0.1 A to 1 A	1.04 % to 1.48 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 A to 3 A	1.48 % to 3 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 V to 100 V	0.45 % to 0.24 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 mV to 100 mV	0.82 % to 0.58 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 mV to 1 V	0.58 % to 0.45 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 V to 750 V	0.24 % to 0.11 %

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator with Current Coil by Direct Method	10 A to 1000 A	1.7 % to 1.06 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator by Direct Method	1 mA to 200 mA	5.64 % to 0.44 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator by Direct Method	200 mA to 5 A	0.44 % to 3.75 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator by Direct Method	5 A to 10 A	3.75 % to 1 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5½ Multi Function Calibrator by Direct Method	10 mV to 100 mV	3.76 % to 0.37 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5½ Multi Function Calibrator by Direct Method	100 mV to 1000 V	0.37 % to 0.36 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 mA to 10 mA	0.29 % to 0.17 %

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14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	10 mA to 100 mA	0.17 % to 0.1 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 mA to 3 A	0.1 % to 0.93 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 mV to 100 mV	0.82 % to 0.011 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 mV to 1000 mV	0.011 % to 0.086 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1000 mV to 1000 V	0.086 % to 0.14 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 10 Mohm	0.21 % to 0.06 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	10 Mohm to 100 Mohm	0.06 % to 1.62 %

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21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	100 kohm to 1 Mohm	0.56 % to 0.21 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	10 kohm to 100 kohm	0.16 % to 0.56 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	10 ohm to 100 ohm	0.28 % to 0.16 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	100 ohm to 10 kohm	0.16 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Multi Function Calibrator by Direct Method	1 mA to 200 mA	0.8 % to 0.22 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Multi Function Calibrator with Current Coil by Direct Method	10 A to 1000 A	1.7 % to 1 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Multi Function Calibrator by Direct Method	2 A to 10 A	0.63 % to 0.8 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Multi Function Calibrator by Direct Method	200 mA to 2 A	0.22 % to 0.63 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Multi Function Calibrator by Direct Method	10 mV to 100 mV	0.98 % to 0.19 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Multi Function Calibrator by Direct Method	100 mV to 1000 V	0.19 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	1 Mohm to 10 Mohm	5.6 % to 0.58 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	100 kohm to 100 Mohm	0.56 % to 0.6 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	100 Mohm to 1000 Mohm	0.6 % to 1.48 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Decade Resistance Box by Direct Method	100 ohm to 10 kohm	0.31 % to 0.13 %

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35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Decade Resistance Box by Direct Method	10 kohm to 100 kohm	0.13 % to 0.56 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Decade Resistance Box by Direct Method	10 ohm to 100 ohm	0.58 % to 0.31 %
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD Type - PT 100	Using Temperature Calibrator by Direct Method	(-) 200 °C to 800 °C	0.91 °C
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - J Type	Using Temperature Calibrator by Direct Method	(-) 60 °C to 1100 °C	1.15 °C
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - K Type	Using Temperature Calibrator by Direct Method	(-) 100 °C to 1300 °C	1.39 °C
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - R Type	Using Temperature Calibrator by Direct Method	500 °C to 1700 °C	2.6 °C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - S Type	Using Temperature Calibrator by Direct Method	500 °C to 1700 °C	2.46 °C

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42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - T Type	Using Temperature Calibrator by Direct Method	(-) 200 °C to 400 °C	1.14 °C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD Type - PT 100	Using Temperature Calibrator by Direct Method	(-) 200 °C to 600 °C	0.95 °C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Temperature Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.84 °C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Temperature Calibrator by Direct Method	(-) 200 °C to 1300 °C	1.51 °C
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Temperature Calibrator by Direct Method	500 °C to 1700 °C	2.42°C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Temperature Calibrator by Direct Method	500 °C to 1700 °C	2.42 °C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - T Type	Using Temperature Calibrator by Direct Method	(-) 200 °C to 400 °C	0.91 °C

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49	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Standard Timer by Comparison Method	10 s to 36000 s	1.62 s to 12.57 s
50	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using 5½ Multifunction Calibrator by Direct Method	45 Hz to 900 Hz	0.56 % to 0.19 %
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge Unit - Analog / Digital (L.C.: 0.001 mm)	Using Setting Ring Gauges with Plug Gauge and Pressure Set by Comparison Method	(±) 0.025 mm	3.1 µm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre - Co-Axiality	Using Lever Dial Gauge & Straight Mandrel by Direct Method	Up to 300 mm	6.2 µm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre - Parallelism	Using Lever Dial Gauge with Stand and Taper Shank Mandrel by Direct Method	Up to 300 mm	8 µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Flatness	Using Electronic Level by Comparison Method	Up to 3000 x 3000 mm	1.5 x Sqrt {(L+W) / 100} µm, Where L and W are in mm

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55	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Linear (L.C.: 0.0001 mm)	Using Caliper Checker, Slip Gauge Set and Surface Table by Direct Method	0 to 600 mm	9.6 µm
56	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Squareness (L.C.: 0.0001 mm)	Using Granite Square, Surface Table and Lever Dial Gauge by Comparison Method	0 to 600 mm	11 µm
57	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Slip Gauge Block and Digital Caliper by Comparison Method	10 X to 100 X	0.19 %
58	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Video Measuring Machine - Angle (L.C.: 1')	Using Angular Graticule by Comparison Method	0 ° to 360 °	2.5 minute of arc
59	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Video Measuring Machine - Linear (L.C.: 1 µm)	Using Glass Scale by Comparison Method	0 to 200 mm	7.5 µm
60	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure : Dial / Digital - Pressure Gauge, Pressure Calibrator, Pressure Transmitter / Transducer with Indicator	Using Digital Pressure Calibrator, Hydraulic Comparison Pump and DMM by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.29 %

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61	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure : Dial / Digital - Manometer, Pressure Gauge, Pressure Calibrator, Pressure Transmitter, Differential Pressure Gauge	Using Digital Pressure Calibrator, Pneumatic Comparator Pump and DMM by Comparison Method as per DKD-R 6-1	0.1 bar to 2 bar	2.16 %
62	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure : Dial / Digital - Pressure Gauge, Pressure Calibrator, Pressure Transmitter / Recorder / Transducer with Indicator	Using Digital Pressure Calibrator, Pneumatic Hand Pump and DMM by Comparison Method as per DKD-R 6-1	0 to 20 bar	0.14 %
63	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure : Dial / Digital - Vacuum Gauge, Vacuum Calibrator, Vacuum Transmitter / Transducer with Indicator	Using Digital Vacuum Calibrator with Pneumatic Pump and DMM by Comparison Method as per DKD-R 6-1	(-) 0.8 bar to 0 bar	1.1 %
64	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class II and Coarser (Readability : 0.001 g)	Using F1 Class Weights by Comparison Method as per OIML R 76-1	0 to 310 g	1.6 mg
65	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class II and Coarser (Readability : 0.01 g)	Using F1, F2 Class Weights by Comparison Method as per OIML R 76-1	0 to 2.1 kg	38 mg
66	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class III and Coarser (Readability : 0.2 g)	Using F1, F2 Class Weights by Comparison Method as per OIML R 76-1	0 to 6 kg	0.14 g

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67	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class III and Coarser (Readability : 1 g)	Using F1, F2 Class Weights by Comparison Method as per OIML R 76-1	0 to 15 kg	0.8 g
68	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class IIII (Readability : 10 g)	Using F1, F2 Class Weights by Comparison Method as per OIML R 76-1	0 to 100 kg	8.7 g
69	THERMAL-TEMPERATURE	RTD / Thermocouple with Indicator / Controller, Temperature Indicator with Sensor, Temperature Gauge, Data Logger with Sensor, Temperature Transmitter / Transducer with Indicator	Using 4 Wire RTD Sensor with Indicator, Digital Multimeter & Dry Block Calibrator by Comparison Method	> 250 °C to 600 °C	0.88 °C
70	THERMAL-TEMPERATURE	RTD / Thermocouple with Indicator / Controller, Temperature Indicator with Sensor, Temperature Gauge, Data Logger with Sensor, Temperature Transmitter / Transducer with Indicator	Using 4 - Wire RTD Sensor with Indicator, Digital Multimeter & Dry Block Calibrator by Comparison Method	50 °C to 250 °C	0.87 °C

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71	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Deep Freezer, Freezer, Refrigerator, Fluid Bath, Low Temperature Bath, Incubator for Industrial Purpose Only - Single Position	Using 4 - Wire RTD Sensor with Indicator by Comparison Method	(-) 80 °C to 50 °C	0.64 °C
72	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Oven, Fluid Bath, Temperature Bath, Furnace, Autoclave / Incubator for Industrial Purpose Only - Single Position	Using 4 - Wire RTD Sensor with Indicator by Comparison Method	50 °C to 250 °C	0.64 °C
73	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Oven, Furnace, Dry Block Furnace, Dry Block Calibrator - Single Position	Using 4 - Wire RTD Sensor with Indicator by Comparison Method	250 °C to 600 °C	1.15 °C

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