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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	1 A to 10 A	0.19 % to 0.23 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	10 µA to 100 µA	0.65 % to 0.25 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter with Current Shunt by Direct Method	10 A to 100 A	1.18 % to 1.16 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	100 µA to 100 mA	0.25 % to 0.19 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	100 mA to 1 A	0.19 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digital Multimeter by Direct Method	1 mV to 100 V	3.93 % to 0.12 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digital Multimeter by Direct Method	100 V to 750 V	0.12 % to 0.14 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Product Calibrator with Current Coil (50 turns) by Direct Method	20 A to 1000 A	0.41 % to 0.28 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	10 µA to 200 µA	4.72 % to 0.56 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	2 A to 20 A	0.15 % to 0.28 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	200 µA to 2 A	0.56 % to 0.15 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	10 mV to 200 mV	0.72 % to 0.092 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	200 mV to 1000 V	0.092 % to 0.082 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	100 pF to 10 µF	1.18 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	100 µH to 10 H	1.21 % to 1.17 %

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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz (230 V, 1 A)	Using Multi Product Calibrator by Direct Method	0.25 PF to UPF	0.013 PF
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single Phase AC Active Power @ 50 Hz (40 V to 300 V, 0.1 A to 20 A, UPF)	Using Multi Product Calibrator by Direct Method	4 W to 6 kW	0.25 % to 0.83 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	10 µA to 100 µA	0.36 % to 0.089 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM with Current Shunt by VI Method	10 A to 100 A	1.15 % to 1.16 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	100 µA to 100 mA	0.089 % to 0.087 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	100 mA to 10 A	0.087 % to 0.15 %

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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6½ Digital Multimeter by Direct Method	1 kohm to 1 Mohm	0.014 % to 0.02 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6½ Digital Multimeter by Direct Method	1 Mohm to 10 Mohm	0.02 % to 0.4 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6½ Digital Multimeter by Direct Method	1 ohm to 100 ohm	0.76 % to 0.017 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6½ Digital Multimeter by Direct Method	10 Mohm to 100 Mohm	0.4 % to 1.04 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6½ Digital Multimeter by Direct Method	100 ohm to 1 kohm	0.017 % to 0.014 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 mV to 10 mV	0.47 % to 0.052 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 V to 1 kV	0.0056 % to 0.0065 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	10 mV to 100 mV	0.052 % to 0.011 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	100 mV to 1 V	0.011 % to 0.0056 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	10 µA to 100 µA	0.24 % to 0.04 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	100 µA to 200 mA	0.04 % to 0.026 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	2 A to 20 A	0.1 % to 0.065 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with Current Coil (50 turns) by Direct Method	20 A to 1000 A	0.15 % to 1.16 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	200 mA to 2 A	0.026 % to 0.1 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (1 V to 600 V, 0.1 A to 20 A)	Using Multi Product Calibrator by Direct Method	0.1 W to 12 kW	0.12 % to 4.3 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using High Precision Resistance Box by Direct Method	2 Gohm	1.2 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using High Precision Resistance Box by Direct Method	1 Gohm	1.3 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	1 kohm to 100 kohm	1.2 %

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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using High Precision Resistance Box by Direct Method	1 Mohm	1.3 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	1 Mohm to 9 Mohm	1.2 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	1 ohm to 10 ohm	1.2 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using High Precision Resistance Box by Direct Method	10 Gohm	1.2 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using High Precision Resistance Box by Direct Method	10 Mohm	1.2 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	10 ohm to 100 ohm	1.2 %

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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	100 kohm to 1 Mohm	1.2 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using High Precision Resistance Box by Direct Method	100 Mohm	1.2 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	100 ohm to 1 kohm	1.2 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using High Precision Resistance Box by Direct Method	2 Mohm	1.2 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using High Precision Resistance Box by Direct Method	20 Mohm	1.2 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using High Precision Resistance Box by Direct Method	200 Mohm	1.2 %

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52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using High Precision Resistance Box by Direct Method	5 Gohm	1.2 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using High Precision Resistance Box by Direct Method	5 Mohm	1.2 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using High Precision Resistance Box by Direct Method	50 Mohm	1.2 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using High Precision Resistance Box by Direct Method	500 Mohm	1.2 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 mV to 10 mV	0.49 % to 0.053 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	10 mV to 200 mV	0.053 % to 0.021 %

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58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	200 mV to 1000 V	0.021 % to 0.011 %
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT100)	Using 6½ Digital Multimeter by Direct Method	(-) 190 °C to 800 °C	0.6 °C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - B Type	Using Temperature Calibrator by Direct Method	450 °C to 1800 °C	1.66 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - E Type	Using Temperature Calibrator by Direct Method	(-) 190 °C to 1000 °C	0.34 °C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - J Type	Using Temperature Calibrator by Direct Method	(-) 190 °C to 1000 °C	0.34 °C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - K Type	Using Temperature Calibrator by Direct Method	(-) 190 °C to 1350 °C	0.46 °C

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64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - N Type	Using Temperature Calibrator by Direct Method	(-) 190 °C to 1300 °C	0.7 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - R Type	Using Temperature Calibrator by Direct Method	300 °C to 1700 °C	0.8 °C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - S Type	Using Temperature Calibrator by Direct Method	300 °C to 1700 °C	0.68 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - T Type	Using Temperature Calibrator by Direct Method	(-) 190 °C to 400 °C	0.26 °C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Temperature Calibrator by Direct Method	(-) 190 °C to 800 °C	0.92 °C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B Type	Using Temperature Calibrator by Direct Method	450 °C to 1800 °C	1.66 °C

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70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E Type	Using Temperature Calibrator by Direct Method	(-) 190 °C to 1000 °C	0.32 °C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Temperature Calibrator by Direct Method	(-) 190 °C to 1000 °C	0.46 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Temperature Calibrator by Direct Method	(-) 190 °C to 1350 °C	0.92 °C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - N Type	Using Temperature Calibrator by Direct Method	(-) 190 °C to 1300 °C	1.04 °C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Temperature Calibrator by Direct Method	300 °C to 1700 °C	1.16 °C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Temperature Calibrator by Direct Method	300 °C to 1700 °C	1.04 °C

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76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - T Type	Using Temperature Calibrator by Direct Method	(-) 190 °C to 400 °C	0.58 °C
77	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct Method	1 Hz to 10 Hz	0.2 % to 0.12 %
78	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct Method	10 Hz to 100 Hz	0.12 % to 0.035 %
79	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct Method	100 Hz to 100 kHz	0.035 % to 0.014 %
80	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct Method	100 kHz to 300 kHz	0.014 % to 0.013 %
81	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	1 s to 10 s	0.12 s to 0.13 s

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82	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	10 s to 3600 s	0.13 s to 4.5 s
83	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	3600 s to 36000 s	4.5 s to 21 s
84	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	36000 s to 86400 s	21 s to 50 s
85	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction Calibrator by Direct Method	1 Hz to 10 Hz	0.06 % to 0.006 %
86	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction Calibrator by Direct Method	10 Hz to 100 Hz	0.006 % to 0.004 %
87	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction Calibrator by Direct Method	100 Hz to 1 MHz	0.004 % to 0.0044 %

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88	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source (Non-Contact Type)	Using Digital Tachometer by Comparison Method	>1000 RPM to 20000 RPM	13.61 RPM
89	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source (Non-Contact Type)	Using Digital Tachometer by Comparison Method	100 RPM to 1000 RPM	5.2 RPM
90	MECHANICAL-ACCELERATION AND SPEED	RPM Source (Non-Contact Type)	Using Digital Tachometer by Comparison Method	>20000 RPM to 90000 RPM	18.01 RPM
91	MECHANICAL-ACCELERATION AND SPEED	RPM Source (Non-Contact Type)	Using Digital Tachometer by Comparison Method	10 RPM to 100 RPM	2 RPM
92	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	>100 RPM to 1000 RPM	4.1 RPM
93	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	>1000 RPM to 6000 RPM	7.5 RPM
94	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	10 RPM to 100 RPM	1.4 RPM
95	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	>100 RPM to 1000 RPM	5.2 RPM

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96	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	>1000 RPM to 10000 RPM	15.2 RPM
97	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	>10000 RPM to 90000 RPM	17.6 RPM
98	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	10 RPM to 100 RPM	2 RPM
99	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Comparison Method	114 dB	0.36 dB
100	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Comparison Method	94 dB	0.36 dB
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel protector / Combination Set / Inclinometer L.C.: 1 minute	Using Angle Gauge Block by Comparison Method	0° to 360°	4 minute of arc
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Dial Gauge (Transmission Error) L.C.: 1 µm	Using Dial Calibration Tester and Dial Gauge by Comparison Method	0 to 1 mm	4.6 µm

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103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers (Vernier / Dial / Digital) L.C.: 0.01 mm	Using Gauge Blocks, Long Slip Gauge by Comparison Method	0 to 1000 mm	11 µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Foils	Using Gauge Blocks, Electronic Probe with Indicator by Comparison Method	0.01 mm to 3 mm	2.1 µm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.1 µm)	Using Standard Foils by Comparison Method	0.01 mm to 2 mm	1.7 µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness)	Using Gauge Blocks, Lever Dial Gauge by Comparison Method	Up to 300 mm	2.6 µm
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pin	Using Gauge Blocks, Electronic Probe with Indicator by Comparison Method	0.05 mm to 20 mm	2.1 µm

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108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Calipers (Vernier / Dial / Digital) L.C.: 0.01 mm	Using Gauge Blocks, Long Slip Gauge by Comparison Method	0 to 300 mm	9.4 µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (Analog / Digital) L.C.: 0.01 mm	Using Gauge Blocks, Long Slip Gauge by Comparison Method	0 to 300 mm	8 µm
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Caliper Gauge (Internal) L.C.: 0.01 mm	Using Gauge Block, Gauge Block Accessories by Comparison Method	0 to 100 mm	6.6 µm
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C.: 0.001 mm	Using Gauge Blocks by Comparison Method	0 to 10 mm	2.9 µm
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C.: 0.01 mm	Using Gauge Blocks by Comparison Method	0 to 50 mm	6.6 µm

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113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital) L.C.: 0.001 mm	Using Gauge Blocks, Long Slip Gauge by Comparison Method	0 to 300 mm	3.2 µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital) L.C.: 0.01 mm	Using Gauge Blocks, Long Slip Gauge by Comparison Method	0 to 1000 mm	9 µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Micrometer by Comparison Method	0.03 mm to 1 mm	2.4 µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier / Dial / Digital) L.C.: 0.01 mm	Using Gauge Blocks, Long Slip Gauge, Granite Surface Plate by Comparison Method	0 to 1000 mm	11 µm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer L.C.: 0.01 mm	Using Gauge Blocks, Gauge Blocks Accessories by Comparison Method	0 to 50 mm	6.6 µm

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118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer / Stick Micrometer L.C.: 0.01 mm	Using Gauge Blocks, Long Slip Gauge, Dial Indicator by Comparison Method	50 mm to 1500 mm	7.3 µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer / Stick Micrometer/ L.C.: 0.001 mm	Using Gauge Blocks, Long Slip Gauge, Dial Indicator by Comparison Method	200 mm to 1500 mm	9.6 µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge L.C.: 0.001 mm	Using Dial Calibration Tester by Comparison Method	Up to 0.14 mm	2.1 µm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge L.C.: 0.01 mm	Using Dial Calibration Tester by Comparison Method	Up to 1 mm	6.1 µm
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauge (Flush Pin Gauge)	Using Gauge Blocks, Long Slip Gauge, Dial Gauge by Comparison Method	0.5 mm to 300 mm	5 µm

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123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauge (Height Piece)	Using Gauge Blocks, Long Slip Gauge, Dial Gauge by Comparison Method	0.5 mm to 300 mm	5 µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauge (Width Gauge)	Using Grade Gauge Blocks, Dial Gauge by Comparison Method	0.5 mm to 100 mm	3.6 µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head L.C.: 0.001 mm	Using Gauge Block by Comparison Method	0 to 25 mm	3 µm
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Gauge Blocks, Long Slip Gauge, Dial Indicator, Surface Plate by Comparison Method	25 mm to 1000 mm	5.7 µm
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Gauge Blocks, Length Bar, Dial Gauge by Comparison Method	0.5 mm to 300 mm	3.2 µm

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128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge (Analog / Digital) L.C.: 0.001 mm	Using Dial Calibration Tester by Comparison Method	0 to 25 mm	2.1 µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge (Analog / Digital) L.C.: 0.01 mm	Using Gauge Blocks by Comparison Method	Up to 80 mm	6.1 µm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Gap Gauge (Fixed / Adjustable)	Using Gauge Blocks, Long Slip Gauge by Comparison Method	0.5 mm to 300 mm	2.8 µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Parallelism)	Using Gauge Blocks, Dial Indicator, Surface Plate by Comparison Method	0 to 1000 mm	7.4 µm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness)	Using Spirit Level, Surface Plate by Comparison Method	0 to 1000 mm	9.8 µm

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133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge L.C.: 0.1 mm	Using Gauge Blocks, Long Slip Gauge by Comparison Method	0 to 200 mm	100 µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Parallelism)	Using Test Mandrel, Lever Dial Gauge, Surface Plate by Comparison Method	0 to 300 mm	7.4 µm
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Squareness)	Using Lever Dial Gauge, Square Block, Surface Plate by Comparison Method	0 to 300 mm	7.4 µm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Symmetricity)	Using Test Mandrel, Dial Indicator, Surface Plate by Comparison Method	0 to 300 mm	7.4 µm
137	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	Using Gauge Blocks and Lever Dial Gauge by Comparison Method	0 to 300 mm	5.5 µm

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138	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe with Indicator, LVDT (L.C.: 0.0001 mm)	Using Gauge Blocks by Comparison Method	0 to 25 mm	0.8 µm
139	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Digital / Analog Pressure Gauge, Pressure Transducer, Pressure Transmitter, Pressure Switch	Using Digital Pressure Gauge, Hydraulic Comparator Pump, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.39 bar
140	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Digital / Analog Pressure Gauge, Pressure Transducer, Pressure Transmitter, Pressure Switch	Using Digital Pressure Gauge, Pneumatic Air Pressure Pump, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 20 bar	0.01 bar
141	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Digital / Analog Vacuum Gauge, Transducer, Transmitter, Switch	Using Digital Pressure Gauge, Vacuum Pump, Digital Multimeter by Comparison Method as per DKD-R 6-1	(-) 0.9 bar to 0 bar	0.011 bar

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142	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Pressure Gauge, Magnehelic Gauge, Manometer	Using Digital Low Pressure Gauge, Low pressure Screw Pump by Comparison Method as per DKD-R 6-1	(-) 200 mbar to 200 mbar	0.067 mbar
143	THERMAL-TEMPERATURE	Indicator with Sensor of Cryostat Bath, Oil Bath, Low Temperature Bath, Dry Block Calibrator (Single Position)	Using RTD Sensor with Indicator by Comparison Method	(-) 40 °C to 250 °C	0.38 °C
144	THERMAL-TEMPERATURE	Indicator with Sensor of Dry Block Calibrator, Temperature Bath, Furnace (Single Position)	Using R Type Thermocouple with Indicator by Comparison Method	500 °C to 1200 °C	1.54 °C
145	THERMAL-TEMPERATURE	Indicator with Sensor of Liquid Bath, Dry Block Calibrator (Single Position)	Using R Type Thermocouple with Indicator by Comparison Method	250 °C to 500 °C	1.48 °C
146	THERMAL-TEMPERATURE	IR Thermometer, Thermal Imaging Camera (Non - Contact Type (Temperature Only)	Using Infrared Thermometer, Black Body Calibrator (Emissivity: 0.95) by Comparison Method	50 °C to 500 °C	3.04 °C

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147	THERMAL-TEMPERATURE	RTD / Thermocouple with Indicator, Recorder / Data Logger with Sensor, Temperature Indicator with Sensor	Using RTD Sensor with Indicator, Dry Block Calibrator by Comparison Method	(-) 30 °C to 250 °C	0.25 °C
148	THERMAL-TEMPERATURE	Thermocouple with Indicator, Data Logger / Temperature Indicator / Temperature Transmitter with Sensor	Using R Type Thermocouple with Indicator, Dry Block Calibrator, 6½ Digital Multimeter by Comparison Method	250 °C to 500 °C	1.47 °C
149	THERMAL-TEMPERATURE	Thermocouple with Indicator, Data Logger / Temperature Indicator / Temperature Transmitter with Sensor	Using R Type Thermocouple with Indicator, Dry Block Calibrator, 6½ Digital Multimeter by Comparison Method	500 °C to 650 °C	1.47 °C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	1 A to 10 A	0.19 % to 0.23 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	10 µA to 100 µA	0.65 % to 0.25 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter with Current Shunt by Direct Method	10 A to 100 A	1.18 % to 1.16 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	100 µA to 100 mA	0.25 % to 0.19 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	100 mA to 1 A	0.19 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using Digital Multimeter with HV Probe by Direct Method	1 kV to 28 kV	10 % to 6.8 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digital Multimeter by Direct Method	1 mV to 100 V	3.93 % to 0.12 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digital Multimeter by Direct Method	100 V to 750 V	0.12 % to 0.14 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Product Calibrator with Current Coil (50 turns) by Direct Method	20 A to 1000 A	0.41 % to 0.28 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	10 µA to 200 µA	4.72 % to 0.56 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	2 A to 20 A	0.15 % to 0.28 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	200 µA to 2 A	0.56 % to 0.15 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	10 mV to 200 mV	0.72 % to 0.092 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	200 mV to 1000 V	0.092 % to 0.082 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	100 pF to 10 µF	1.18 %

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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	100 µH to 10 H	1.21 % to 1.17 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz (230 V, 1 A)	Using Multi Product Calibrator by Direct Method	0.25 PF to UPF	0.013 PF
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single Phase AC Active Power @ 50 Hz (40 V to 300 V, 0.1 A to 20 A, UPF)	Using Multi Product Calibrator by Direct Method	4 W to 6 kW	0.25 % to 0.83 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	10 µA to 100 µA	0.36 % to 0.089 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM with Current Shunt by VI Method	10 A to 100 A	1.15 % to 1.16 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	100 µA to 100 mA	0.089 % to 0.087 %

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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	100 mA to 10 A	0.087 % to 0.15 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using Digital Multimeter with HV Probe by Direct Method	1 kV to 20 kV	4.2 % to 3.95 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6½ Digital Multimeter by Direct Method	1 kohm to 1 Mohm	0.014 % to 0.02 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6½ Digital Multimeter by Direct Method	1 Mohm to 10 Mohm	0.02 % to 0.4 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6½ Digital Multimeter by Direct Method	1 ohm to 100 ohm	0.76 % to 0.017 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6½ Digital Multimeter by Direct Method	10 Mohm to 100 Mohm	0.4 % to 1.04 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 mV to 10 mV	0.47 % to 0.052 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 V to 1 kV	0.0056 % to 0.0065 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	10 mV to 100 mV	0.052 % to 0.011 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	100 mV to 1 V	0.011 % to 0.0056 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	10 µA to 100 µA	0.24 % to 0.04 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	100 µA to 200 mA	0.04 % to 0.026 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	2 A to 20 A	0.1 % to 0.065 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	200 mA to 2 A	0.026 % to 0.1 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (1 V to 600 V, 0.1 A to 20 A)	Using Multi Product Calibrator by Direct Method	0.1 W to 12 kW	0.12 % to 4.3 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	1 kohm to 100 kohm	1.2 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using High Precision Resistance Box by Direct Method	1 Mohm	1.3 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	1 Mohm to 9 Mohm	1.2 %

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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	1 ohm to 10 ohm	1.2 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using High Precision Resistance Box by Direct Method	10 Mohm	1.2 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	10 ohm to 100 ohm	1.2 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	100 kohm to 1 Mohm	1.2 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using High Precision Resistance Box by Direct Method	100 Mohm	1.2 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	100 ohm to 1 kohm	1.2 %

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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using High Precision Resistance Box by Direct Method	200 Mohm	1.2 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 mV to 10 mV	0.49 % to 0.053 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	10 mV to 200 mV	0.053 % to 0.021 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	200 mV to 1000 V	0.021 % to 0.011 %
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT100)	Using 6½ Digital Multimeter by Direct Method	(-) 190 °C to 800 °C	0.6 °C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - B Type	Using Temperature Calibrator by Direct Method	450 °C to 1800 °C	1.66 °C

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52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - E Type	Using Temperature Calibrator by Direct Method	(-) 190 °C to 1000 °C	0.34 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - J Type	Using Temperature Calibrator by Direct Method	(-) 190 °C to 1000 °C	0.34 °C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - K Type	Using Temperature Calibrator by Direct Method	(-) 190 °C to 1350 °C	0.46 °C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - N Type	Using Temperature Calibrator by Direct Method	(-) 190 °C to 1300 °C	0.7 °C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - R Type	Using Temperature Calibrator by Direct Method	300 °C to 1700 °C	0.8 °C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - S Type	Using Temperature Calibrator by Direct Method	300 °C to 1700 °C	0.68 °C

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58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - T Type	Using Temperature Calibrator by Direct Method	(-) 190 °C to 400 °C	0.26 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Temperature Calibrator by Direct Method	(-) 190 °C to 800 °C	0.92 °C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B Type	Using Temperature Calibrator by Direct Method	450 °C to 1800 °C	1.66 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E Type	Using Temperature Calibrator by Direct Method	(-) 190 °C to 1000 °C	0.32 °C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Temperature Calibrator by Direct Method	(-) 190 °C to 1000 °C	0.46 °C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Temperature Calibrator by Direct Method	(-) 190 °C to 1350 °C	0.92 °C

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64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - N Type	Using Temperature Calibrator by Direct Method	(-) 190 °C to 1300 °C	1.04 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Temperature Calibrator by Direct Method	300 °C to 1700 °C	1.16 °C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Temperature Calibrator by Direct Method	300 °C to 1700 °C	1.04 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - T Type	Using Temperature Calibrator by Direct Method	(-) 190 °C to 400 °C	0.58 °C
68	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct Method	1 Hz to 10 Hz	0.2 % to 0.12 %
69	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct Method	10 Hz to 100 Hz	0.12 % to 0.035 %

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70	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct Method	100 Hz to 100 kHz	0.035 % to 0.014 %
71	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct Method	100 kHz to 300 kHz	0.014 % to 0.013 %
72	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	1 s to 10 s	0.12 s to 0.13 s
73	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	10 s to 3600 s	0.13 s to 4.5 s
74	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	3600 s to 36000 s	4.5 s to 21 s
75	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	36000 s to 86400 s	21 s to 50 s

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76	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction Calibrator by Direct Method	1 Hz to 10 Hz	0.06 % to 0.006 %
77	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction Calibrator by Direct Method	10 Hz to 100 Hz	0.006 % to 0.004 %
78	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction Calibrator by Direct Method	100 Hz to 1 MHz	0.004 % to 0.0044 %
79	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source (Non-Contact Type)	Using Digital Tachometer by Comparison Method	>1000 RPM to 20000 RPM	13.61 RPM
80	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source (Non-Contact Type)	Using Digital Tachometer by Comparison Method	100 RPM to 1000 RPM	5.2 RPM
81	MECHANICAL-ACCELERATION AND SPEED	RPM Source (Non-Contact Type)	Using Digital Tachometer by Comparison Method	>20000 RPM to 90000 RPM	18.01 RPM
82	MECHANICAL-ACCELERATION AND SPEED	RPM Source (Non-Contact Type)	Using Digital Tachometer by Comparison Method	10 RPM to 100 RPM	2 RPM

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83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Co-axiality)	Using Lever Dial, Straight Mandrel by Comparison Method	0 to 300 mm	8.4 µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Parallelism)	Using Test Mandrel (Taper Shank) and Lever Dial Gauge by Comparison Method	0 to 300 mm	8.8 µm
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier / Dial / Digital) L.C.: 0.01 mm	Using Gauge Blocks, Long Slip Gauge by Comparison Method	0 to 2000 mm	21 µm
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier / Dial / Digital) L.C.: 0.01 mm	Using Gauge Blocks, Long Slip Gauge, Granite Surface Plate by Comparison Method	0 to 1000 mm	11 µm
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Granite, Cast Iron)	Using Spirit Level by Comparison Method	Up to 2000 x 3000 mm	2.4XSQRT((L+W)/150) µm, where L and W in mm

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88	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge (Linear) L.C.: 0.1 µm	Using Gauge Blocks by Comparison Method	0 to 600 mm	5.6 µm
89	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge (Squareness) L.C.: 0.1 µm	Using Granite Square and Lever Dial Gauge by Comparison Method	0 to 600 mm	12.7 µm
90	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Microscope (Magnification)	Using Gauge Blocks and Digital Caliper by Comparison Method	1 X to 10 X	3.9 %
91	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine (Angle) L.C.: 1 s	Using Angle Gauge Blocks by Comparison Method	0° to 360°	4.07 minute of arc
92	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine / Microscope (Linear) L.C.: 0.001 mm	Using Gauge Blocks, Long Slip Gauge by Comparison Method	0 to 200 mm	5.8 µm
93	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Digital / Analog Pressure Gauge, Pressure Transducer, Pressure Transmitter, Pressure Switch	Using Digital Pressure Gauge, Hydraulic Comparator Pump, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.39 bar

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94	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Digital / Analog Pressure Gauge, Pressure Transducer, Pressure Transmitter, Pressure Switch	Using Digital Pressure Gauge, Pneumatic Air Pressure Pump, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 20 bar	0.01 bar
95	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Digital / Analog Vacuum Gauge, Transducer, Transmitter, Switch	Using Digital Pressure Gauge, Vacuum Pump, Digital Multimeter by Comparison Method as per DKD-R 6-1	(-) 0.9 bar to 0 bar	0.011 bar
96	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Pressure Gauge, Magnehelic Gauge, Manometer	Using Digital Low Pressure Gauge, Low pressure Screw Pump by Comparison Method as per DKD-R 6-1	(-) 200 mbar to 200 mbar	0.067 mbar
97	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class I and Coarser (Readability: 0.1 mg)	Using E2 Class Weights by Comparison Method as per OIML R 76	0 to 220 g	0.25 mg
98	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class II and Coarser (Readability: 0.01 g)	Using E2 & F1 Class Weights by Comparison Method as per OIML R 76	0 to 3 kg	0.012 g

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99	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class III and Coarser (Readability: 0.1 g)	Using F1 & F2 Class Weights by Comparison Method as per OIML R 76	0 to 10 kg	0.26 g
100	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class III and Coarser (Readability: 1 g)	Using F1 & F2 Class Weights by Comparison Method as per OIML R 76	0 to 20 kg	2 g
101	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class III and Coarser (Readability: 10 g)	Using M1 Class Weights as per by Comparison Method as per OIML R 76	0 to 100 kg	10 g
102	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class IIII (Readability: 100 g)	Using M1 Class Weights by Comparison Method as per OIML R 76	0 to 1000 kg	88 g
103	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class IIII (Readability: 50 g)	Using M1 Class Weights by Comparison Method as per OIML R 76	0 to 500 kg	64 g
104	THERMAL-TEMPERATURE	Indicator with Sensor of Cryostat Bath, Oil Bath, Low Temperature Bath, Dry Block Calibrator (Single Position)	Using RTD Sensor with Indicator by Comparison Method	(-) 40 °C to 250 °C	0.38 °C

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105	THERMAL-TEMPERATURE	Indicator with Sensor of Dry Block Calibrator, Temperature Bath, Furnace (Single Position)	Using R Type Thermocouple with Indicator by Comparison Method	500 °C to 1200 °C	1.54 °C
106	THERMAL-TEMPERATURE	Indicator with Sensor of Incubator, Freezer, Refrigerator, Oven (Non Medical Purpose Only) (Single Position)	Using RTD Sensor with Indicator by Comparison Method	(-) 40 °C to 250 °C	0.38 °C
107	THERMAL-TEMPERATURE	Indicator with Sensor of Liquid Bath, Dry Block Calibrator (Single Position)	Using R Type Thermocouple with Indicator by Comparison Method	250 °C to 500 °C	1.48 °C
108	THERMAL-TEMPERATURE	Indicator with Sensor of Oven, Furnace (Single Position)	Using R Type Thermocouple with Indicator by Comparison Method	250 °C to 500 °C	1.48 °C
109	THERMAL-TEMPERATURE	Indicator with Sensor of Oven, Furnace (Single Position)	Using R Type Thermocouple with Indicator by Comparison Method	500 °C to 1200 °C	1.46 °C

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110	THERMAL-TEMPERATURE	RTD / Thermocouple with Indicator, Recorder / Data Logger with Sensor, Temperature Indicator with Sensor	Using RTD Sensor with Indicator, Dry Block Calibrator by Comparison Method	(-) 30 °C to 250 °C	0.25 °C
111	THERMAL-TEMPERATURE	Thermocouple with Indicator, Data Logger / Temperature Indicator / Temperature Transmitter with Sensor	Using R Type Thermocouple with Indicator, Dry Block Calibrator, 6½ Digital Multimeter by Comparison Method	250 °C to 500 °C	1.47 °C
112	THERMAL-TEMPERATURE	Thermocouple with Indicator, Data Logger / Temperature Indicator / Temperature Transmitter with Sensor	Using R Type Thermocouple with Indicator, Dry Block Calibrator, 6½ Digital Multimeter by Comparison Method	500 °C to 650 °C	1.47 °C

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