



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

ELECTRONICS TEST AND DEVELOPMENT CENTRE, 1ST AND 2ND FLOOR,
CENTRAL BLOCK, HOUSEFED COMPLEX, GUWAHATI, KAMRUP METRO,
ASSAM, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3797

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Validity

28/12/2025 to 27/12/2029

Last Amended on

09/02/2026

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)	1P Active Energy at 60V to 300V, 0.05 A to 12 A, 0.5 PF to UPF, 50 Hz	Using 3 Phase Reference Power Energy Comparator by Comparison Method	3 Wh to 2.88 kWh	0.03 % to 0.08 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P Active Power , 60V to 300V, 0.05 A to 12 A, 0.5 PF to UPF, 50 Hz	Using 3 Phase Reference Power Energy Comparator by Comparison Method	1.5 W to 3.6 kW	0.03 % to 0.08 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P Apparent Energy at 60V to 300V, 0.05 A to 12 A, 0.5 PF to UPF, 50 Hz	Using 3 Phase Reference Power Energy Comparator by Comparison Method	4.4 VAh to 4.32 kVAh	0.03 % to 0.08 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P Apparent Power, 60V to 300V, 0.05 A to 12 A, 0.5 PF to UPF, 50 Hz	Using 3 Phase Reference Power Energy Comparator by Comparison Method	2.2 VA to 5.10 kVA	0.03 % to 0.08 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P Reactive Energy, 60V to 300V, 0.05 A to 12 A, 0.5 PF to UPF, 50 Hz	Using 3 Phase Reference Power Energy Comparator by Comparison Method	3 VARh to 2.88 kVARh	0.03 % to 0.08 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P Reactive Power, 60V to 300V, 0.05 A to 12 A, 0.5 PF to UPF, 50 Hz	Using 3 Phase Reference Power Energy Comparator by Comparison Method	1.5 VAR to 3.6 kVAR	0.03 % to 0.08 %



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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3P Active Energy at 60V to 300V, 0.05 A to 12 A, 0.5 PF to UPF, 50 Hz	Using 3 Phase Reference Power Energy Comparator by Comparison Method	9 Wh to 8.64 kWh	0.03 % to 0.08 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3P Active Power , 60V to 300V, 0.05 A to 12 A, 0.5 PF to UPF, 50 Hz	Using 3 Phase Reference Power Energy Comparator by Comparison Method	4.5 W to 10.8 kW	0.03 % to 0.08 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3P Apparent Energy at 60V to 300V, 0.05 A to 12 A, 0.5 PF to UPF, 50 Hz	Using 3 Phase Reference Power Energy Comparator by Comparison Method	13.2 VAh to 12.24 kVAh	0.03 % to 0.08 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3P Apparent Power, 60V to 300V, 0.05 A to 12 A, 0.5 PF to UPF, 50 Hz	Using 3 Phase Reference Power Energy Comparator by Comparison Method	6.6 VA to 15.3 kVA	0.03 % to 0.08 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3P Reactive Energy at 60V to 300V, 0.05 A to 12 A, 0.5 PF to UPF, 50 Hz	Using 3 Phase Reference Power Energy Comparator by Comparison Method	9 VARh to 8.64 kVARh	0.03 % to 0.08 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3P Reactive Power , 60V to 300V, 0.05 A to 12 A, 0.5 PF to UPF, 50 Hz	Using 3 Phase Reference Power Energy Comparator by Comparison Method	4.5 VAR to 10.8 kVAR	0.03 % to 0.08 %



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13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz to 1 kHz	Using 8½ Digital Multimeter By Direct Method	1 mA to 200 mA	0.05 % to 0.041 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz to 1 kHz	Using 8½ Digital Multimeter By Direct Method	2 A to 20 A	0.082 % to 0.11 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz to 1 kHz	Using 8½ Digital Multimeter By Direct Method	200 mA to 2 A	0.05 % to 0.082 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @50 Hz	Using High Voltage Probe with Digital Multimeter By Direct Method	1 kV to 15 kV	0.13 kV to 1.27 kV
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz to 100 kHz	Using AC Measurement Standard / 8½ Digital Multimeter By Direct Method	1 mV to 1 V	0.20 % to 0.012 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz to 100 kHz	Using AC Measurement Standard / 8½ Digital Multimeter By Direct Method	1 V to 1000 V	0.012 % to 0.014 %



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19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @1kHz	Using RLC Digi bridge By Direct Method	1 nF to 1 μ F	0.07 % to 0.15 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @1kHz	Using RLC Digi bridge By Direct Method	100 μ H to 10 H	0.6 % to 0.07 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz to 1 kHz	Using Multiproduct Calibrator By Direct Method	100 μ A to 300 mA	0.3 % to 0.06 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz to 1 kHz	Using Multiproduct Calibrator with current coil By Direct Method	20 A to 1000 A	0.87 % to 0.34 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz to 1 kHz	Using Multiproduct Calibrator By Direct Method	300 mA to 20 A	0.06 % to 0.87 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz to 20 kHz	Using Multiproduct Calibrator By Direct Method	1 mV to 100 mV	0.81 % to 0.032 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz to 20 kHz	Using Multiproduct Calibrator By Direct Method	100 mV to 1000 V	0.032 % to 0.05 %



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26	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	Using Decade Capacitance Box By Direct Method	1000 pF to 1 μ F	.8 % to 0.7 %
27	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @1kHz	Using Decade Inductance Box By Direct Method	100 μ H to 11 H	4 % to 2.7 %
28	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter By Direct Method	1 mA to 200 mA	0.0024 % to 0.006 %
29	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter By Direct Method	2 A to 20 A	0.021 % to 0.051 %
30	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter By Direct Method	200 mA to 2 A	0.006 % to 0.021 %
31	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Probe with Digital Multimeter By Direct Method	1 kV to 20 kV	0.05 kV to 0.70 kV
32	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	Using 8½ Digital Multimeter By Direct Method	1 ohm to 1 Gohm	0.005 % to 0.06 %



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33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2-W)	Using Digital Tera Ohmmeter By Direct Method	100 Mohm @10 V	0.6 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2-W)	Using Digital Tera Ohmmeter By Direct Method	1 Gohm @100 V	0.6 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2-W)	Using Digital Tera Ohmmeter By Direct Method	1 Tohm @200 V	0.70 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2-W)	Using Digital Tera Ohmmeter By Direct Method	10 Gohm @100 V	0.2 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2-W)	Using Digital Tera Ohmmeter By Direct Method	100 Gohm @200 V	0.7 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4-W)	Using DCC Bridge by Direct Method	100 µohm to 1 Mohm	0.018 % to 0.006 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter By Direct Method	1 mV to 100 mV	0.16 % to 0.004 %



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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter By Direct Method	10 V to 1000 V	0.0006 % to 0.001 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter By Direct Method	100 mV to 10 V	0.004 % to 0.0006 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator By Direct Method	100 µA to 300 mA	0.11 % to 0.015 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with current coil By Direct Method	20 A to 1000 A	0.58 % to 0.33 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator By Direct Method	300 mA to 20 A	0.015 % to 0.12 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2-W)	Using Multiproduct Calibrator By Direct Method	1 kohm to 100 kohm	0.004 % to 0.005 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2-W)	Using Multiproduct Calibrator By Direct Method	100 kohm to 100 Mohm	0.005 % to 0.08 %



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47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2-W)	Using Standard Resistor Series by Direct Method	100 Mohm	0.027 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4-W)	Using Multiproduct Calibrator by Direct Method	1 ohm to 1 kohm	0.12 % to 0.004 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2-W)	Using Standard Resistor Series By Direct Method	1 Tohm	3.11 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2-W)	Using Standard Resistor Series By Direct Method	1 Gohm	0.09 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2-W)	Using Standard Resistor Series By Direct Method	10 Gohm	0.073 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2-W)	Using Standard Resistor Series By Direct Method	100 Gohm	0.83 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(4-W)	Using Standard Resistor Series By Direct Method	1 ohm	0.0025 %



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54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(4-W)	Using Standard Resistor Series By Direct Method	10 mohm	0.003 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(4-W)	Using Standard Resistor Series By Direct Method	100 µohm	0.06 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 mV to 1 V	0.16 % to 0.0020 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator By Direct Method	1 V to 1000 V	0.002 % to 0.003 %
58	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Calibration:Deflection Factor (Amplitude) @1 kHz, 50 ohm	Using Multi Product Calibrator By Direct Method	2 mV to 2.5 V	4.84 % to 0.32 %
59	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Calibration: Time Base(Marker)	Using Multi Product Calibrator By Direct Method	2 ns to 5 s	0.058 % to 0.59 %
60	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Calibration: Vertical Deflection (Amplitude) at 1kHz, 1 Mohm	Using Multi Product Calibrator and Direct Method	1 mV to 100 V	4.41 % to 0.18 %



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61	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	Thermocouple B Type	Using Multi Product Calibrator By Direct Method	600 °C to 1800 °C	0.5 °C
62	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	Thermocouple C Type	Using Multi Product Calibrator By Direct Method	0 to 2300 °C	0.9 °C
63	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	Thermocouple E Type	Using Multi Product Calibrator By Direct Method	(-)200 °C to 1000 °C	0.5 °C
64	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	Thermocouple J Type	Using Multi Product Calibrator By Direct Method	(-)200 °C to 1200 °C	0.31 °C
65	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using Multi Product Calibrator By Direct Method	(-)200 °C to 1300 °C	0.5 °C
66	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	Thermocouple L Type	Using Multi Product Calibrator By Direct Method	(-)200 °C to 900 °C	0.4 °C
67	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	Thermocouple N Type	Using Multi Product Calibrator By Direct Method	(-)200 °C to 1300 °C	0.4 °C



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68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using Multi Product Calibrator By Direct Method	0 °C to 1700 °C	0.7 °C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using Multi Product Calibrator By Direct Method	0 °C to 1700 °C	0.6 °C
70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T Type	Using Multi Product Calibrator By Direct Method	(-)-250 °C to 400 °C	0.7 °C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple U Type	Using Multi Product Calibrator By Direct Method	(-)-200 °C to 600 °C	0.6 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100)	Using Multi Product Calibrator By Direct Method	(-)-200 °C to 800 °C	0.1 °C to 0.3 °C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B Type	Using Multi Product Calibrator By Direct Method	600 °C to 1800 °C	0.5 °C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple C Type	Using Multi Product Calibrator By Direct Method	0 °C to 2300 °C	0.9 °C



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75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E Type	Using Multi Product Calibrator By Direct Method	(-)200 °C to 1000 °C	0.5 °C
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Multi Product Calibrator By Direct Method	(-)200 °C to 1200 °C	0.31 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Multi Product Calibrator By and Direct Method	(-)200 °C to 1300 °C	0.5 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple L Type	Using Multi Product Calibrator By Direct Method	(-)200 °C to 900 °C	0.4 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N Type	Using Multi Product Calibrator By Direct Method	(-)200 °C to 1300 °C	0.4 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Multi Product Calibrator By Direct Method	0 °C to 1700 °C	0.7 °C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Multi Product Calibrator By Direct Method	0 °C to 1700 °C	0.6 °C



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82	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source)	Thermocouple T Type	Using Multi Product Calibrator By Direct Method	(-)250 °C to 400 °C	0.7 °C
83	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source)	Thermocouple U Type	Using Multi Product Calibrator By Direct Method	(-)200 °C to 600 °C	0.6 °C
84	ELECTRO- TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	Using Frequency Counter By Direct Method	10 Hz to 3 GHz	0.00001 %
85	ELECTRO- TECHNICAL- TIME & FREQUENCY (Source)	Frequency	Using Multiproduct calibrator, Signal Generator By Direct Method	10 Hz to 3 GHz	0.002 % to 0.000015 %
86	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler gauge	Using Digital Micrometer , LC: 0.001 mm By Comparison Method	0.05 mm to 2.5 mm	3.2 µm
87	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor LC: 5 minute	Using Angle Gauge Block By Comparison Method	5 minute to 90 °	2.9 minute



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88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge, Stem Size (18 mm-250 mm) LC-1µm	Using Dial Calibration Tester By Comparison Method	Up to 0.80 mm (transmission)	1.9 µm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge LC: 0.01	Gauge Block Set By Comparison Method	0 to 150 mm	17 µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer LC: 0.001 mm	Using Gauge Block Set By Comparison Method	0 to 25 mm	2 µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer LC: 0.01 mm	Gauge Block Set By Comparison Method	0 to 150 mm	5.8 µm
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inclinometer, LC : 0.01°	Using Angle Gauge Block By Comparison Method	5 minute to 90 °	1.2 arc second
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer, LC: 0.01mm	Using Gauge Block Set and Caliper checker By Comparison Method	0 to 500 mm	6.2 mm



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94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Linear Height Gauge	Using K/0 Grade Gauge Block Set By Comparison Method	0 to 600 mm	3.85 + 1.2L μ m, where L is in meter
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Long Gauge Block 0 grade and coarser	Using 0 Grade Gauge Block Set and Electronic comparator by Comparison method	101 mm to 250 mm	1.2 + 0.9L μ m, where L is in meter
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape, LC: 1mm	Using Tape & Scale Calibrator By Comparison Method	0 to 5000 mm	104 Sqrt(L) μ m, Where L in meter (L>1m)
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge, LC:1 μ m or coarser	Using Dial calibration Tester By Comparison Method	0 to 25 mm	1.6 μ m
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale, LC: 1 mm	Using Tape & Scale Calibrator By Comparison Method	0 to 1000 mm	106 μ m
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture size)	Using Profile Projector By Comparison Method	0.01 mm to 10 mm	5.6 μ m



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100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture size)	Using Digital Caliper By Comparison Method	10 mm to 50 mm	27 µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper LC: 0.01mm	Using Gauge Block Set By Comparison Method	0 to 150 mm	9.0 mm
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper LC: 0.02 mm	Using Gauge Block Set By Comparison Method	0 to 300 mm	17 µm
103	MECHANICAL-PRESSURE BALANCE OR DEAD WEIGHT TESTER	Dead Weight Testers (Hydraulic)	Using Hydraulic Dead Weight Tester using Cross Float System by pressure generated Method as per Euramet-cg-3	10 bar(g) to 50 bar(g)	0.1 % rdg
104	MECHANICAL-PRESSURE BALANCE OR DEAD WEIGHT TESTER	Dead Weight Testers (Hydraulic)	Using Hydraulic Dead Weight Tester using Cross Float System by pressure generated Method as per Euramet-cg-3	50 bar(g) to 800 bar(g)	0.01 % rdg
105	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauges	Using Digital Pressure Gauge and Comparison Method as per DKD-R-6-1	(-)0.8 bar to -0.05 bar	0.10 %



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106	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauges and Pressure Calibrators (Hydraulic)	Using Dead Weight Tester / Digital Pressure Gauge and Comparison Method as per DKD-R-6-1	10 bar to 700 bar	0.02 %
107	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauges and Pressure Calibrators (Pneumatic)	Using Digital Pressure Gauge and Comparison Method as per DKD-R-6-1	0 to 40 bar	0.033 %
108	MECHANICAL-VOLUME	Micro Pipette	Using E1 Class Reference Weight and Precision Balance of readability 0.01 mg and Distilled water of Known density as per ISO 8655-6:2002	> 20 µl to 1000 µl	0.02 µl
109	MECHANICAL-VOLUME	Volume / Graduated Pipette, Measuring Cylinder	Using E1 Class Reference Weight, Precision Balance of readability 0.01 mg and Distilled water of Known density by Gravimetric Method Based on ISO 4787: 2021	1 ml to 10 ml	0.11 µl
110	MECHANICAL-VOLUME	Volume Burette, Graduated Pipette, Volumetric Flask, Measuring Cylinder, Beaker	Using E1 Class Reference Weight, Precision Balance of readability 0.1 mg and Distilled water of Known density by Gravimetric Method Based on ISO 4787: 2021	100 ml to 500 ml	0.2 µl



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111	MECHANICAL-VOLUME	Volume Burette, Graduated Pipette, Volumetric Flask, Measuring Cylinder, Test Tube, Beaker	Using E1 Class Reference Weight, Precision Balance of readability 0.01 mg and Distilled water of Known density by Gravimetric Method Based on ISO 4787: 2021	>10 ml to 100 ml	0.11 µl
112	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 0.01 mg, Class I or coarser)	Using E1 Class Reference Weights as per OIML R -76-1	0 to 200 g	0.03 mg
113	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 10 g, Class IV or coarser)	Using M1 Class Reference Weights as per OIML R -76-1	35 kg to 100 kg	5.77 g
114	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 0.1g, Class III or coarser)	Using E2 Class Reference Weights as per OIML R -76-1	12 kg to 35 kg	0.15 g
115	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 0.1g, Class III or coarser)	Using E2 Class Reference Weights as per OIML R -76-1	500 g to 12 kg	0.07 g
116	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 0.1mg, Class I or coarser)	Using E1 Class Reference Weights as per OIML R -76-1	200 g to 500 g	0.19 mg
117	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using E1 Class Reference Weights, and Weighing Balance of resolution 0.01 mg By ABBA Method as per OIMLR-111-1	100 g	0.01 mg



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118	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using E1 Class Reference Weights, and Weighing Balance of resolution 0.01 mg by ABBA method as per OIMLR-111 & Comparison Method	200 g	0.03 mg
119	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using E1 Class Reference Weights, and Weighing Balance of resolution 0.01 mg by ABBA method as per OIMLR-111 & Comparison Method	50 g	0.01 mg
120	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using E1 Class Reference Weights, and Weighing Balance of resolution 0.1 mg By ABBA Method as per OIMLR-111-1	500 g	0.1 mg
121	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Reference Weights, and Weighing Balance of resolution 0.01 mg by ABBA method as per OIMLR-111 & Comparison Method	1 g	0.01 mg



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122	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Reference Weights, and Weighing Balance of resolution 0.01 mg by ABBA method as per OIMLR-111-1 & Comparison Method	10 g	0.01 mg
123	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Reference Weights, and Weighing Balance of resolution 0.01 mg by ABBA method as per OIMLR-111 & Comparison Method	2 g	0.01 mg
124	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Reference Weights, and Weighing Balance of resolution 0.01 mg by ABBA method as per OIMLR-111 & Comparison Method	20 g	0.01 mg
125	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Reference Weights, and Weighing Balance of resolution 0.01 mg by ABBA Method as per OIMLR-111	5 g	0.01 mg



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126	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Reference Weights, and Weighing Balance of resolution 0.01 mg by ABBA method as per OIMLR-111 & Comparison Method	1 mg	0.01 mg
127	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Reference Weights, and Weighing Balance of resolution 0.01 mg by ABBA method as per OIMLR-111 & Comparison Method	100 mg	0.01 mg
128	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Reference Weights, and Weighing Balance of resolution 0.01 mg by ABBA method as per OIMLR-111 & Comparison Method	20 mg	0.01 mg
129	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Reference Weights, and Weighing Balance of resolution 0.01 mg By ABBA Method as per OIMLR-111	200 mg	0.01 mg



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130	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Reference Weights, and Weighing Balance of resolution 0.01 mg by ABBA method as per OIMLR-111 & Comparison Method	50 mg	0.01 mg
131	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Reference Weights and Digital Balance of Resolution 0.01 mg By ABBA Method as per OIMLR-111	500 mg	0.01 mg
132	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E2 Class Reference Weights, and Weighing Balance of resolution 0.1 g By ABBA Method as per OIMLR-111	10 kg	33 mg
133	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E1 Class Reference Weights, and Weighing Balance of resolution 0.01 mg by ABBA method as per OIMLR-111 & Comparison Method	10 mg	0.01 mg
134	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E1 Class Reference Weights, and Weighing Balance of resolution 0.01 mg by ABBA method as per OIMLR-111 & Comparison Method	2 mg	0.01 mg



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135	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E1 Class Reference Weights, and Weighing Balance of resolution 0.01 mg by ABBA method as per OIMLR-111 & Comparison Method	5 mg	0.01 mg
136	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using E2 Class Reference Weights, and Weighing Balance of resolution 0.1 g by ABBA method as per OIMLR-111 & Comparison Method	2 kg	33 mg
137	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using E2 Class Reference Weights, and Weighing Balance of resolution 0.1 g By ABBA Method as per OIMLR-111	20 kg	110 mg
138	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using E2 Class Reference Weights, and Weighing Balance of resolution 0.1 g By ABBA Method as per OIMLR-111	5 kg	33 mg
139	MECHANICAL-WEIGHTS	Accuracy class M2 & coarser	Using E2 Class Reference Weights, and Weighing Balance of resolution 0.1 g By ABBA Method as per OIMLR-111	1 kg	33 mg



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140	MECHANICAL-WEIGHTS	Accuracy class M2 & coarser	Using M1 Class Reference Weights, and Weighing Balance of resolution 10 g by ABBA method as per OIMLR-111 & Comparison Method	50 kg	3330 mg
141	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using standard SSPRT 4-Channel Thermometer, Liquid bath By Comparison Method	0 °C to 205 °C	0.69 °C
142	THERMAL-TEMPERATURE	RTD/Thermocouple Sensor with or without indicator	Using Standard SSPRT with 4-Channel Thermometer, Oil Bath By Comparison method	50 °C to 205 °C	0.66 °C
143	THERMAL-TEMPERATURE	Temperature Indicator of Dry Block Bath, Liquid Bath (Single Position)	Using standard SSPRT with indicator By Comparison Method	50 °C to 205 °C	0.66 °C
144	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Dry Block Bath, Liquid Bath, Muffle furnace (Single Position)	Using S-Type Standard Thermocouple with 4-Channel Thermometer By Comparison Method	205 °C to 1000 °C	3.36 °C
145	THERMAL-TEMPERATURE	Thermocouple Sensor with or without indicator	Using S-Type Standard Thermocouple with 4-Channel Thermometer and Dry Block Calibrator By Comparison Method	205 °C to 1000 °C	2.90 °C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P Active Energy at 60V to 300V, 0.05 A to 12 A, 0.5 PF to UPF, 50 Hz	Using 3 Phase Reference Power Energy Comparator by Comparison Method	3 Wh to 2.88 kWh	0.03 % to 0.08 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P Active Power , 60V to 300V, 0.05 A to 12 A, 0.5 PF to UPF, 50 Hz	Using 3 Phase Reference Power Energy Comparator by Comparison Method	1.5 W to 3.6 kW	0.03 % to 0.08 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P Apparent Energy at 60V to 300V, 0.05 A to 12 A, 0.5 PF to UPF, 50 Hz	Using 3 Phase Reference Power Energy Comparator by Comparison Method	4.4 VAh to 4.32 kVAh	0.03 % to 0.08 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P Apparent Power, 60V to 300V, 0.05 A to 12 A, 0.5 PF to UPF, 50 Hz	Using 3 Phase Reference Power Energy Comparator by Comparison Method	2.2 VA to 5.10 kVA	0.03 % to 0.08 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P Reactive Energy, 60V to 300V, 0.05 A to 12 A, 0.5 PF to UPF, 50 Hz	Using 3 Phase Reference Power Energy Comparator by Comparison Method	3 VARh to 2.88 kVARh	0.03 % to 0.08 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P Reactive Power, 60V to 300V, 0.05 A to 12 A, 0.5 PF to UPF, 50 Hz	Using 3 Phase Reference Power Energy Comparator by Comparison Method	1.5 VAR to 3.6 kVAR	0.03 % to 0.08 %



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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3P Active Energy at 60V to 300V, 0.05 A to 12 A, 0.5 PF to UPF, 50 Hz	Using 3 Phase Reference Power Energy Comparator by Comparison Method	9 Wh to 8.64 kWh	0.03 % to 0.08 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3P Active Power , 60V to 300V, 0.05 A to 12 A, 0.5 PF to UPF, 50 Hz	Using 3 Phase Reference Power Energy Comparator by Comparison Method	4.5 W to 10.8 kW	0.03 % to 0.08 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3P Apparent Energy at 60V to 300V, 0.05 A to 12 A, 0.5 PF to UPF, 50 Hz	Using 3 Phase Reference Power Energy Comparator by Comparison Method	13.2 VAh to 12.24 kVAh	0.03 % to 0.08 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3P Apparent Power, 60V to 300V, 0.05 A to 12 A, 0.5 PF to UPF, 50 Hz	Using 3 Phase Reference Power Energy Comparator by Comparison Method	6.6 VA to 15.3 kVA	0.03 % to 0.08 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3P Reactive Energy at 60V to 300V, 0.05 A to 12 A, 0.5 PF to UPF, 50 Hz	Using 3 Phase Reference Power Energy Comparator by Comparison Method	9 VARh to 8.64 kVARh	0.03 % to 0.08 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3P Reactive Power , 60V to 300V, 0.05 A to 12 A, 0.5 PF to UPF, 50 Hz	Using 3 Phase Reference Power Energy Comparator by Comparison Method	4.5 VAR to 10.8 kVAR	0.03 % to 0.08 %



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13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz to 1 kHz	Using 8½ Digital Multimeter By Direct Method	1 mA to 200 mA	0.05 % to 0.041 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz to 1 kHz	Using 8½ Digital Multimeter By Direct Method	2 A to 20 A	0.082 % to 0.11 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz to 1 kHz	Using 8½ Digital Multimeter By Direct Method	200 mA to 2 A	0.05 % to 0.082 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @50 Hz	Using High Voltage Probe with Digital Multimeter By Direct Method	1 kV to 15 kV	0.13 kV to 1.27 kV
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz to 100 kHz	Using AC Measurement Standard / 8½ Digital Multimeter By Direct Method	1 mV to 1 V	0.20 % to 0.012 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz to 100 kHz	Using AC Measurement Standard / 8½ Digital Multimeter By Direct Method	1 V to 1000 V	0.012 % to 0.014 %



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19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @1kHz	Using RLC Digi bridge By Direct Method	1 nF to 1 μ F	0.07 % to 0.15 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @1kHz	Using RLC Digi bridge By Direct Method	100 μ H to 10 H	0.6 % to 0.07 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz to 1 kHz	Using Multiproduct Calibrator By Direct Method	100 μ A to 300 mA	0.3 % to 0.06 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz to 1 kHz	Using Multiproduct Calibrator with current coil By Direct Method	20 A to 1000 A	0.87 % to 0.34 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz to 1 kHz	Using Multiproduct Calibrator By Direct Method	300 mA to 20 A	0.06 % to 0.87 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz to 20 kHz	Using Multiproduct Calibrator By Direct Method	1 mV to 100 mV	0.81 % to 0.032 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz to 20 kHz	Using Multiproduct Calibrator By Direct Method	100 mV to 1000 V	0.032 % to 0.05 %



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26	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	Using Decade Capacitance Box By Direct Method	1000 pF to 1 μ F	.8 % to 0.7 %
27	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @1kHz	Using Decade Inductance Box By Direct Method	100 μ H to 11 H	4 % to 2.7 %
28	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter By Direct Method	1 mA to 200 mA	0.0024 % to 0.006 %
29	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter By Direct Method	2 A to 20 A	0.021 % to 0.051 %
30	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter By Direct Method	200 mA to 2 A	0.006 % to 0.021 %
31	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Probe with Digital Multimeter By Direct Method	1 kV to 20 kV	0.05 kV to 0.70 kV
32	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	Using 8½ Digital Multimeter By Direct Method	1 ohm to 1 Gohm	0.005 % to 0.06 %



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33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2-W)	Using Digital Tera Ohmmeter By Direct Method	100 Mohm @10 V	0.6 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2-W)	Using Digital Tera Ohmmeter By Direct Method	1 Gohm @100 V	0.6 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2-W)	Using Digital Tera Ohmmeter By Direct Method	1 Tohm @200 V	0.70 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2-W)	Using Digital Tera Ohmmeter By Direct Method	10 Gohm @100 V	0.2 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2-W)	Using Digital Tera Ohmmeter By Direct Method	100 Gohm @200 V	0.7 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter By Direct Method	1 mV to 100 mV	0.16 % to 0.004 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter By Direct Method	10 V to 1000 V	0.0006 % to 0.001 %



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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter By Direct Method	100 mV to 10 V	0.004 % to 0.0006 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator By Direct Method	100 µA to 300 mA	0.11 % to 0.015 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with current coil By Direct Method	20 A to 1000 A	0.58 % to 0.33 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator By Direct Method	300 mA to 20 A	0.015 % to 0.12 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2-W)	Using Multiproduct Calibrator By Direct Method	1 kohm to 100 kohm	0.004 % to 0.005 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2-W)	Using Multiproduct Calibrator By Direct Method	100 kohm to 100 Mohm	0.005 % to 0.08 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2-W)	Using Standard Resistor Series by Direct Method	100 Mohm	0.027 %



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47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4-W)	Using Multiproduct Calibrator by Direct Method	1 ohm to 1 kohm	0.12 % to 0.004 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2-W)	Using Standard Resistor Series By Direct Method	1 Tohm	3.11 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2-W)	Using Standard Resistor Series By Direct Method	1 Gohm	0.09 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2-W)	Using Standard Resistor Series By Direct Method	10 Gohm	0.073 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2-W)	Using Standard Resistor Series By Direct Method	100 Gohm	0.83 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(4-W)	Using Standard Resistor Series By Direct Method	1 ohm	0.0025 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(4-W)	Using Standard Resistor Series By Direct Method	10 mohm	0.003 %



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54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(4-W)	Using Standard Resistor Series By Direct Method	100 μ ohm	0.06 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 mV to 1 V	0.16 % to 0.0020 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator By Direct Method	1 V to 1000 V	0.002 % to 0.003 %
57	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Calibration:Deflection Factor (Amplitude) @1 kHz, 50 ohm	Using Multi Product Calibrator By Direct Method	2 mV to 2.5 V	4.84 % to 0.32 %
58	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Calibration: Time Base(Marker)	Using Multi Product Calibrator By Direct Method	2 ns to 5 s	0.058 % to 0.59 %
59	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Calibration: Vertical Deflection (Amplitude) at 1kHz, 1 Mohm	Using Multi Product Calibrator and Direct Method	1 mV to 100 V	4.41 % to 0.18 %
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B Type	Using Multi Product Calibrator By Direct Method	600 °C to 1800 °C	0.5 °C



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61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple C Type	Using Multi Product Calibrator By Direct Method	0 to 2300 °C	0.9 °C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple E Type	Using Multi Product Calibrator By Direct Method	(-)200 °C to 1000 °C	0.5 °C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J Type	Using Multi Product Calibrator By Direct Method	(-)200 °C to 1200 °C	0.31 °C
64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using Multi Product Calibrator By Direct Method	(-)200 °C to 1300 °C	0.5 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple L Type	Using Multi Product Calibrator By Direct Method	(-)200 °C to 900 °C	0.4 °C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N Type	Using Multi Product Calibrator By Direct Method	(-)200 °C to 1300 °C	0.4 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using Multi Product Calibrator By Direct Method	0 °C to 1700 °C	0.7 °C



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68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using Multi Product Calibrator By Direct Method	0 °C to 1700 °C	0.6 °C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T Type	Using Multi Product Calibrator By Direct Method	(-)250 °C to 400 °C	0.7 °C
70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple U Type	Using Multi Product Calibrator By Direct Method	(-)200 °C to 600 °C	0.6 °C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100)	Using Multi Product Calibrator By Direct Method	(-)200 °C to 800 °C	0.1 °C to 0.3 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B Type	Using Multi Product Calibrator By Direct Method	600 °C to 1800 °C	0.5 °C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple C Type	Using Multi Product Calibrator By Direct Method	0 °C to 2300 °C	0.9 °C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E Type	Using Multi Product Calibrator By Direct Method	(-)200 °C to 1000 °C	0.5 °C



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75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Multi Product Calibrator By Direct Method	(-)-200 °C to 1200 °C	0.31 °C
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Multi Product Calibrator By and Direct Method	(-)-200 °C to 1300 °C	0.5 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple L Type	Using Multi Product Calibrator By Direct Method	(-)-200 °C to 900 °C	0.4 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N Type	Using Multi Product Calibrator By Direct Method	(-)-200 °C to 1300 °C	0.4 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Multi Product Calibrator By Direct Method	0 °C to 1700 °C	0.7 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Multi Product Calibrator By Direct Method	0 °C to 1700 °C	0.6 °C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T Type	Using Multi Product Calibrator By Direct Method	(-)-250 °C to 400 °C	0.7 °C



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82	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source)	Thermocouple U Type	Using Multi Product Calibrator By Direct Method	(-)200 °C to 600 °C	0.6 °C
83	ELECTRO- TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	Using Frequency Counter By Direct Method	10 Hz to 3 GHz	0.00001 %
84	ELECTRO- TECHNICAL- TIME & FREQUENCY (Source)	Frequency	Using Multiproduct calibrator, Signal Generator By Direct Method	10 Hz to 3 GHz	0.002 % to 0.000015 %
85	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer LC: 0.001 mm	Using Gauge Block Set By Comparison Method	0 to 25 mm	2 µm
86	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer LC: 0.01 mm	Gauge Block Set By Comparison Method	0 to 150 mm	5.8 µm
87	MECHANICAL- PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauges	Using Digital Pressure Gauge and Comparison Method as per DKD-R-6-1	(-)0.8 bar to -0.05 bar	0.10 %
88	MECHANICAL- PRESSURE INDICATING DEVICES	Pressure Gauges and Pressure Calibrators (Hydraulic)	Using Dead Weight Tester / Digital Pressure Gauge and Comparison Method as per DKD-R-6-1	10 bar to 700 bar	0.02 %



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89	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauges and Pressure Calibrators (Pneumatic)	Using Digital Pressure Gauge and Comparison Method as per DKD-R-6-1	0 to 40 bar	0.033 %
90	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 0.01 mg, Class I or coarser)	Using E1 Class Reference Weights as per OIML R -76-1	0 to 200 g	0.03 mg
91	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 0.1mg, Class I or coarser)	Using E1 Class Reference Weights as per OIML R -76-1	200 g to 500 g	0.19 mg
92	THERMAL-TEMPERATURE	RTD/Thermocouple Sensor with or without indicator	Using Standard SSPRT with 4-Channel Thermometer, Oil Bath By Comparison method	50 °C to 205 °C	0.66 °C
93	THERMAL-TEMPERATURE	Temperature Indicator of Dry Block Bath, Liquid Bath (Single Position)	Using standard SSPRT with indicator By Comparison Method	50 °C to 205 °C	0.66 °C
94	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Dry Block Bath, Liquid Bath, Muffle furnace (Single Position)	Using S-Type Standard Thermocouple with 4-Channel Thermometer By Comparison Method	205 °C to 1000 °C	3.36 °C
95	THERMAL-TEMPERATURE	Thermocouple Sensor with or without indicator	Using S-Type Standard Thermocouple with 4-Channel Thermometer and Dry Block Calibrator By Comparison Method	205 °C to 1000 °C	2.90 °C



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

