National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	SIBALI INSTRUMENT WORKS LLP, HOLDING NO. 384, JAGACHA MAHIARY ROAD & A.T. GHOSH ROAD JN, GIP COLONY, JAGACHA, HOWRAH, WEST BENGAL, INDIA		
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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6½ Digit Digital Multimeter by Direct Method	1 mA to 100 mA	0.20 % to 0.18 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6½ Digit Digital Multimeter by Direct Method	100 µA to 1 mA	0.38 % to 0.20 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6½ Digit Digital Multimeter by Direct Method	100 mA to 10 A	0.18 % to 0.22 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6½ Digital Multimeter by Direct Method	33 µA to 100 µA	0.26 % to 0.38 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using High Voltage Probe with DMM By Direct Method	1 kV to 30 kV	11.25 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit Digital Multimeter by Direct Method	1 V to 10 V	0.08 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit Digital Multimeter by Direct Method	10 V to 100 V	0.08 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit Digital Multimeter by Direct Method	100 mV to 1 V	0.08 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit Digital Multimeter by Direct Method	100 V to 750 V	0.08 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5½ Digit Multi-Function Calibrator By Direct Method	100 mA to 2 A	0.36 % to 0.41 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5 ½ digit Multi-Function Calibrator By Direct Method	2 A to 10 A	0.41 % to 0.33 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5½ Digit Multi-Function Calibrator By Direct Method	200 µA to 100 mA	0.40 % to 0.36 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current @ 50 Hz	Using 5½ digit Multi-Function Calibrator & 100 turn Current Coil By Direct Method	10 A to 900 A	2.01 % to 0.98 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 60 Hz	Using 5½ Digit Multi-Function Calibrator By Direct Method	100 mV to 100 V	1.91 % to 0.22 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 60 Hz	Using 5½ Digit Multi-Function Calibrator By Direct Method	100 V to 1000 V	0.22 % to 0.20 %

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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 60 Hz	Using 5½ digit Multi-Function Calibrator By Direct Method	5 mV to 100 mV	3 % to 1.91 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1 kHz	Using Decade Capacitance Box By Direct Method	1 nF to 100 µF	1.20 % to 1.22 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box By Direct Method	100 µH to 100 mH	1.16 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor Single Phase @ 50 Hz (40 V to 300 V, 0.5 A to 6 A)	Using 3 Phase Energy Meter Calibrator by Direct Method	0.1 PF to UPF	0.0071 to 0.0072
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor Three Phase @ 50 Hz (40 V to 300 V, 0.5 A to 6 A)	Using 3 Phase Energy Meter Calibrator by Direct Method	0.1 PF to UPF	0.0071 to 0.0072
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single Phase AC Active Energy @ 50 Hz (40 V to 300 V, 0.5 A to 6A, UPF to 0.5 PF (Lag, Lead)	Using 3 Phase Energy Meter Calibrator by Direct Method	0.015 kWh to 0.9 kWh	5.7 % to 0.24 %

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22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single Phase AC Active Power @ 50 Hz (40 V to 300 V, 0.5 A to 6 A, UPF to 0.5 PF (Lag, Lead)	Using 3 Phase Energy Meter Calibrator by Direct Method	0.020 kW to 1.800 kW	3.2 % to 0.98 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single Phase AC Reactive Energy @ 50 Hz (40 V to 300 V, 0.5 A to 6 A, UPF to 0.5 PF (Lag, Lead)	Using 3 Phase Energy Meter Calibrator by Direct Method	0.008 kVArh to 0.78 kVArh	7.22 % to 0.21 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single Phase AC Reactive Power @ 50 Hz (40 V to 300 V, 0.5 A to 6 A, UPF to 0.5 PF (Lag, Lead)	Using 3 Phase Energy Meter Calibrator by Direct Method	0.013 kVar to 1.560 kVar	4.45 % to 0.20 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Three Phase AC Active Energy @ 50 Hz (40 V to 300 V, 0.5 A to 6A, UPF to 0.5 PF (Lag, Lead)	Using 3 Phase Energy Meter Calibrator by Direct Method	0.030 kWh to 2.700 kWh	3.04 % to 0.25 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Three Phase AC Active Power @ 50 Hz (40 V to 300 V, 0.5 A to 6 A, UPF to 0.5 PF (Lag, Lead)	Using 3 Phase Energy Meter Calibrator by Direct Method	0.020 kW to 1.800 kW	3.05 % to 0.98 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Three Phase AC Reactive Energy @ 50 Hz (40 V to 300 V, 0.5 A to 6 A, UPF to 0.5 PF (Lag, Lead)	Using 3 Phase Energy Meter Calibrator by Direct Method	0.017 kVArh to 2.339 kVArh	3.4 % to 0.20 %

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28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Three Phase AC Reactive Power @ 50 Hz (40 V to 300 V, 0.5 A to 6 A, UPF to 0.5 PF (Lag, Lead)	Using 3 Phase Energy Meter Calibrator by Direct Method	0.012 kVar to 1.560 kVar	4.82 % to 0.20 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Digital Multimeter by Direct Method	1 A to 10 A	0.10 % to 0.16 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Digital Multimeter by Direct Method	1 mA to 100 mA	0.06 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Digital Multimeter by Direct Method	10 µA to 100 µA	0.30 % to 0.06 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Digital Multimeter by Direct Method	100 µA to 1 mA	0.06 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Digital Multimeter by Direct Method	100 mA to 1 A	0.06 % to 0.10 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Probe with DMM By Direct Method	1 kV to 30 kV	11.78 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 mV to 10 mV	4.91 % to 0.5 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Digital Multimeter by Direct Method	1 V to 1000 V	0.006 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Digital Multimeter by Direct Method	10 mV to 100 mV	0.5 % to 0.01 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Digital Multimeter by Direct Method	100 mV to 1 V	0.01 % to 0.006 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 6½ Digit Digital Multimeter by Direct Method	10 Mohm to 100 Mohm	0.03 % to 0.38 %

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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 6.5 Digit Multimeter by Comparision method	100 Mohm to 1000 Mohm	0.38 % to 1.25 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire)	Using 6½ Digit Digital Multimeter by Direct Method	1 Mohm to 10 Mohm	0.015 % to 0.03 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Digital Multimeter by Direct Method	1 kohm to 10 kohm	0.01 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digital Multimeter by Direct Method	1 ohm to 100 ohm	0.47 % to 0.1 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Digital Multimeter by Direct Method	10 kohm to 100 kohm	0.01 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Digital Multimeter by Direct Method	100 ohm to 1 kohm	0.1 % to 0.01 %

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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ digit Multi-Function Calibrator By Direct Method	0.2 mA to 100 mA	5.92 % to 0.15 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ digit Multi-Function Calibrator By Direct Method	1 A to 10 A	0.15 % to 0.23 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ digit Multi-Function Calibrator By Direct Method	100 mA to 1 A	0.15 % to 0.25 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	Using 5½ digit Multi-Function Calibrator & 100 turn Current Coil By Direct Method	10 A to 900 A	2.67 % to 0.93 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Digit Multi-Function Calibrator By Direct Method	0.5 mV to 100 mV	3 % to 1.2 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ digit Multi-Function Calibrator By Direct Method	100 mV to 100 V	1.2 %

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52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ digit Multi-Function Calibrator by Direct Method	100 V to 1000 V	1.2 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance - 2 Wire	Using High Resistance Jig By Direct Method	5 Mohm to 100 Gohm	2.38 % to 5.78 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance - 4 Wire	Using 4 wire low resistance Jig. By Direct Method	1 mohm to 100 mohm	0.66 % to 0.17 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance - 4 Wire	Using 4 wire low resistance Jig. By Direct Method	10 µohm to 100 µohm	0.68 % to 0.66 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance - 4 Wire	Using 4 wire low resistance Jig. By Direct Method	100 µohm to 1 mohm	0.66 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance - 4 Wire	Using 4 wire low resistance Jig. By Direct Method	100 mohm to 1 ohm	0.17 % to 0.66 %

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58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Decade Resistance Box By Direct Method	1 ohm to 10 ohm	1 % to 0.15 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 wire	Using Decade Resistance Box By Direct Method	10 kohm to 10 Mohm	0.12 % to 2 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Decade Resistance Box By Direct Method	10 ohm to 10 kohm	0.15 % to 0.12 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Decade Resistance Box By Direct Method	10 Mohm to 1000 Mohm	2 % to 2.48 %
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD - PT 100	Using Precision Digital Thermometer By Simulation Method	(-)200 °C to 800 °C	0.94 °C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - B Type	Using Precision Digital Thermometer By Simulation Method	400 °C to 600 °C	0.70 °C

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64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - E Type	Using Precision Digital Thermometer By Simulation Method	(-)200 °C to 1000 °C	0.90 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - J Type	Using Precision Digital Thermometer by Simulation Method	(-)200 °C to 1200 °C	0.12 °C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - K Type	Using Precision Digital Thermometer by Simulation Method	(-)200 °C to 1370 °C	0.16 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - N Type	Using Precision Digital Thermometer by Simulation Method	(-)200 °C to 1300 °C	0.19 °C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - R Type	Using Precision Digital Thermometer by Simulation Method	0 °C to 1750 °C	0.33 °C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - S Type	Using Precision Digital Thermometer by Simulation Method	0 °C to 1750 °C	0.67 °C

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70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD - PT 100	Using Process Source by Simulation Method	(-)200 °C to 800 °C	0.94 °C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B Type	Using Process Source By Simulation Method	600 °C to 1800 °C	1.83 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E Type	Using Process Source By Simulation Method	(-)200 °C to 1000 °C	0.70 °C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Process Source By Simulation Method	(-)200 °C to 1000 °C	0.81 °C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Process Source by Simulation Method	(-)200 °C to 1370 °C	0.99 °C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - L Type	Using Process Source by Simulation Method	(-)200 °C to 900 °C	0.82 °C

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76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - N Type	Using Process Source by Simulation Method	(-)200 °C to 1300 °C	1.29 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Process Source by Simulation Method	0 °C to 1750 °C	1.83 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Process Source by Simulation Method	0 °C to 1750 °C	1.83 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - U Type	Using Process Source by Simulation Method	(-)200 °C to 600 °C	0.81 °C
80	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Digital Multimeter by Direct Method	45 Hz to 1 kHz	0.13 % to 0.01 %
81	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	5 s to 24 hr	0.15 s to 3.2 s

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82	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using 5½ digit Multi-Function Calibrator By Direct Method	50 Hz to 1 kHz	0.31 % to 0.61 %
83	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer(Non-Contact Type)	Using Digital Tachometer with rpm source by Comparison Method:	100 rpm to 5000 rpm	2.1% rdg
84	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer with rpm source by Comparison Method	10 rpm to 100 rpm	10 % rdg
85	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer with rpm source as per by Comparison Method	100 rpm to 4000 rpm	2.2 % rdg
86	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Digital Tachometer with rpm source by Comparison Method:	10 rpm to 100 rpm	6.6 % rdg
87	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Digital Tachometer with rpm source by Comparison Method:	5000 rpm to 90000 rpm	0.40 % rdg
88	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level calibrator by Comparison Method	94 dB	1.76 dB

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89	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level calibrator by Comparison Method	114 dB	1.79 dB
90	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometer (L.C.: 0.001 g/ml)	Using Hydrometer by Comparison Method	0.650 g/ml to 1.000 g/ml	0.0114 g/ml
91	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometer (L.C.: 0.001 g/ml)	Using Hydrometer by Comparison Method	1.000 g/ml to 2.000 g/ml	0.015 g/ml
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor / Angular Protractor / Combination Set (L.C.: 5 minute)	Using Profile Projector by Comparison Method	0 ° to 360 °	1.8 Arc minute
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge - Transmission Error (L.C.: 0.001 mm)	Using ULM by direct method	0 mm to 2 mm	1 µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.1 µm)	Using Thickness Test Foil by Comparison Method	10 µm to 100 µm	0.8 µm

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95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 1 µm)	Using Thickness Test Foil by Comparison Method	100 µm to 1850 µm	2.6 µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould (Length, Width, Height)	Using Digimetic Caliper by Comparison Method	Up to 150 mm	30 µm
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.01 mm)	Using Gauge Block Set Surface Plate By Comparison Method	0 to 150 mm	9.2 µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier (L.C.: 0.02 mm)	Using Gauge Block Set Surface Plate By Comparison Method	0 to 300 mm	19.9 µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator (Plunger Type) L.C.-0.01 mm	Using Gauge Block Set Surface Plate By Comparison Method	0 to 50 mm	8.2 µm

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100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.001 mm)	Using Gauge Block Set(“0” Grade) By Comparison Method	0 to 10 mm	10 µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.01 mm)	Using Gauge Block Set (“0” Grade) by comparison method	0 to 10 mm	12.4 µm
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge / Flankiness Gauge	Using digimatic caliper by Comparison Method	Up to 100 mm	25 µm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Gauge Block Set /Long Gauge Block set, Surface Plate, optical flat , set of 4 optical parallels by comparison method	0 to 150 mm	2.5 µm

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104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Gauge Block Set /Long Gauge Block set, Surface Plate, optical flat, set of 4 optical parallels by comparison method	150 mm to 300 mm	9.43 µm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.01 mm)	Using Gauge Block Set /Long Gauge Block set, Surface Plate optical flat , set of 4 optical parallels by comparison method	0 to 600 mm	11.7 µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Micrometer by comparison method	0.05 mm to 1 mm	8.89 µm
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Dial / Digital / Analog) (L.C.: 0.01 mm)	Using Gauge Block Set /Long Gauge Block set, Surface Plate by comparison method	0 to 600 mm	14 µm

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108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer / Stick Micrometer (L.C.: 0.01 mm)	Using Gauge Block Set, Surface Plate, Slip Gauge Accessory set By Comparison Method	5 mm to 1000 mm	13.33 µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.001 mm)	Using ULM by comparison Method	0 to 0.14 mm	1 µm
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.01 mm)	Using ULM By Comparison Method	0 to 0.8 mm	5.8 µm
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using ULM by Comparison Method	0.170 mm to 6.350 mm	1.5 µm
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C.: 1 mm)	Using Scale & Tape Calibrator by comparison method	Up to 50 m	289*Sqrt L µm (L is in m)

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113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pie Tape (L.C: 1 mm)	Using Scale & Tape Calibrator by comparison method	60 mm to 950 mm	560*sqrt L µm (L is in mtr)
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using ULM and master Plug Gauge by Comparison Method	5 mm to 150 mm	2.5 µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using ULM and Master Ring Gauge by comparison method	5 mm to 100 mm	3 µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Indicator (L.C.: 0.01 mm)	Using Gauge Block Set and Surface Plate by Comparison Method	0 to 25 mm	10.62 µm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Indicator (L.C.: 0.001 mm)	Using Gauge Block Set Surface Plate By Comparison Method	0 to 10 mm	5.5 µm

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118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector By comparison method	1 mm to 25 mm	4.13 µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Gap Gauge	Using ULM and Master Ring Gauge by comparison method	15 mm to 100 mm	1.2 µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale (L.C: 1 mm)	Using Scale & Tape Calibrator by comparison method	Up to 1000 mm	356 µm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve (Aperture size)	Using Profile Projector By Comparison Method	0.045 mm to 4 mm	16.3 µm
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve (Aperture size)	Using Digital Caliper By Comparison Method	4 mm to 25 mm	16.3 µm

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123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture size)	Using Digital Caliper By Comparison Method	25 mm to 100 mm	21.6 µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Foil	Using ULM By Comparison Method	0.010 mm to 2 mm	0.8 µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Pin	Using ULM by Comparison Method	0.170 mm to 6.350 mm	1.5 µm
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Pitch)	Using Profile Projector By Comparison Method	0.4 mm to 6.0 mm	18.7 µm
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major Diameter effective diameter)	Using ULM and Measuring wire set By Comparison Method	5 mm to 100 mm	2.73 µm

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128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (minor diameter effective diameter)	Using ULM and Master Ring Gauge By Comparison Method	5 mm to 100 mm	1.82 µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C: 0.1 mm)	Using Gauge Block set("0" Grade) by Comparison Method	0 to 100 mm	79.1 µm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Dial / Digital / Analog) (L.C.: 0.01 mm)	Using Long Slip Gauge and Gauge Block Set by Comparision method	300 mm to 600 mm	25 µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Dial / Digital / Analog) (L.C.: 0.02 mm)	Using Gauge Block Set/Long Gauge Block Set By Comparison Method	0 to 1000 µm	20.7 µm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Dial / Digital / Analog) (L.C.: 0.01 mm)	Using Gauge Block Set/Long Gauge Block Set By Comparison Method	0 to 300 mm	22 µm

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133	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (L.C: 0.001 mm) Linearity	Using Gauge Block Set (‘0’ grade) by Comparison method	0 to 100 mm	5.3 µm
134	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (L.C: 1 acr sec) Angularity	Using Angle Gauge Block by comparison Method	0 ° to 360 °	1.4 Arc min
135	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification)	Using Thread Measuring Wire and Digimatic Caliper by Comparison Method	10 X to 50 X	0.42 %
136	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine (L.C. : 0.0001 mm)	Using Gauge Block Set (‘0’ grade) by Comparison method	0 to 100 mm	0.8 µm
137	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Pressure gauge / Pressure Transmitter / Pressure transducer / pressure switch	Using digital Hydraulic pressure gauge with Hydraulic Pressure comparator,and Indicating device digital multimeter-as per DKD-R-6-1 by comparison method	0 to 700 bar	1.1 %rdg

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138	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Pressure Gauge (Analogue / Digital), Magnehellic Gauge / Manometer, Pressure Transmitter / Transducer / Switch	Using digital Pneumatic pressure gauge with pneumatic pump, digital multimeter as per DKD-R-6-1 by Comparison Method	0 to 2000 mbar	1.3 mbar
139	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Pressure gauge / Pressure Transmitter / Pressure transducer / pressure switch	Using digital Pneumatic pressure gauge with Pneumatic pump, digital multimeter as per DKD-R-6-1 by comparison method	0 to 7 bar	0.16 %rdg
140	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Pressure gauge / Pressure Transmitter / Pressure transducer / pressure switch	Using digital Pneumatic pressure gauge with Pneumatic pump, digital multimeter as per DKD-R-6-1 by comparison method	7 bar to 35 bar	0.19 %rdg
141	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge L.C.-0.0001 bar	Using Dead Weight Tester. as per DKD R-6-1 by comparison method	3.5 bar to 35 bar	0.21 %rdg
142	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge L.C.-0.01 bar	Using Dead Weight Tester. as per DKD R-6-1 by comparison method	35 bar to 700 bar	0.18 %rdg

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143	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge / Vacuum Transmitter / Transducer / switch L.C.-0.0001 bar	Using Digital Vacuum Gauge, 6½ digit DMM as per DKD-R-6-1 by Comparison Method	(-)0.9 bar to 0 bar	0.84 %rdg
144	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type-I Class B,C,D & E and Type II Class A,B,D,E & G)	Using Torque sensor with indicator & Torque Wrench Calibration System as per ISO 6789:2017	100 Nm to 500 Nm	2.06 %
145	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type-I Class B,C,D & E and Type II Class A,B,D,E & G)	Using Torque sensor with indicator & Torque Wrench Calibration System as per ISO 6789:2017	500 Nm to 1380 Nm	4.29 %
146	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench / Torque Screw Driver (Type-I Class B,C,D & E and Type II Class A,B,D,E & G)	Using Torque sensor with indicator & Torque Wrench Calibration System as per ISO 6789:2017	5 Nm to 100 Nm	4.2 %
147	MECHANICAL-VOLUME	Glasswar - Pipettes, Burettes, Measuring Cylinder, Density bottle, Volumetric Flask	Using Digital balance of 1000 g with readability 1 mg & distilled water By gravimetric method based on IS/ISO 4787: 2021	100 ml to 1000 ml	320 µl

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148	MECHANICAL-VOLUME	Glassware - Pipettes, Burettes, Measuring Cylinder, Density bottle, Volumetric Flask	Using Digital balance of 1000 g with readability 0.1 mg & distilled water By gravimetric method based on IS/ISO 4787: 2021	1 ml to 100 ml	47 µl
149	MECHANICAL-VOLUME	Glassware - Pipettes, Burettes, Measuring Cylinder, Density bottle, Volumetric Flask	Using Digital balance of 5000 g with readability 10 mg & distilled water By gravimetric method based on IS/ISO 4787: 2021	1000 ml to 2000 ml	0.5 ml
150	MECHANICAL-VOLUME	Micropipette	Using Electronic Balance up to 200 g of d = 0.01 mg & distilled water By gravimetric method based on ISO 8655-6: 2022 & ISO/TR 20461: 2023	100 µl to 1000 µl	3 µl
151	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class-I and coarser of readability 0.01 mg/ 0.1 mg)	Using E1 Class weights as per OIML R-76-1	1 mg to 200 g	0.29 mg
152	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class-II and coarser of readability 0.01 g)	Using F1 Class Standard Weights >200g to 5 kg as per OIML R-76-1	200 g to 5000 g	0.29 g

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153	MECHANICAL-WEIGHTS	Weight (Accuracy class F1 & coarser)	Using E1 Class Standard Weights and Semi micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R-111-1 : 2004	1 g	0.028 mg
154	MECHANICAL-WEIGHTS	Weight (Accuracy class F1 & coarser)	Using E1 Class Standard Weights and Semi micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R-111-1 : 2004	10 g	0.05 mg
155	MECHANICAL-WEIGHTS	Weight (Accuracy class F1 & coarser)	Using E1 Class Standard Weights and Semi micro Balance (Readability: 0.1 mg)by ABBA method as per OIML R-111-1 : 2004	100 g	0.10 mg

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156	MECHANICAL-WEIGHTS	Weight (Accuracy class F1 & coarser)	Using E1 Class Standard Weights and Semi micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R-111-1 : 2004	100 mg	0.014 mg
157	MECHANICAL-WEIGHTS	Weight (Accuracy class F1 & coarser)	Using E1 Class Standard Weights and Semi micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R-111-1 : 2004	2 g	0.034 mg
158	MECHANICAL-WEIGHTS	Weight (Accuracy class F1 & coarser)	Using E1 Class Standard Weights and Semi micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R-111-1 : 2004	20 g	0.04 mg

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159	MECHANICAL-WEIGHTS	Weight (Accuracy class F1 & coarser)	Using E1 Class Standard Weights and Semi micro Balance (Readability: 0.1 mg)by ABBA method as per OIML R-111-1 : 2004	200 g	0.13 mg
160	MECHANICAL-WEIGHTS	Weight (Accuracy class F1 & coarser)	Using E1 Class Standard Weights and Semi micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R-111-1 : 2004	200 mg	0.019 mg
161	MECHANICAL-WEIGHTS	Weight (Accuracy class F1 & coarser)	Using E1 Class Standard Weights and Semi micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R-111-1 : 2004	5 g	0.019 mg

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162	MECHANICAL-WEIGHTS	Weight (Accuracy class F1 & coarser)	Using E1 Class Standard Weights and Semi micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R-111-1 : 2004	50 g	0.05 mg
163	MECHANICAL-WEIGHTS	Weight (Accuracy class F1 & coarser)	Using E1 Class Standard Weights and Semi micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R-111-1 : 2004	500 mg	0.026 mg
164	MECHANICAL-WEIGHTS	Weight (Accuracy class F2 & coarser)	Using E1 Class Standard Weights and Semi micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R-111-1 : 2004	1 mg	0.012 mg

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165	MECHANICAL-WEIGHTS	Weight (Accuracy class F2 & coarser)	Using E1 Class Standard Weights and Semi micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R-111-1 : 2004	10 mg	0.012 mg
166	MECHANICAL-WEIGHTS	Weight (Accuracy class F2 & coarser)	Using E1 Class Standard Weights and Semi micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R-111-1 : 2004	2 mg	0.012 mg
167	MECHANICAL-WEIGHTS	Weight (Accuracy class F2 & coarser)	Using E1 Class Standard Weights and Semi micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R-111-1 : 2004	20 mg	0.016 mg

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168	MECHANICAL-WEIGHTS	Weight (Accuracy class F2 & coarser)	Using E1 Class Standard Weights and Semi micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R-111-1 : 2004	5 mg	0.013 mg
169	MECHANICAL-WEIGHTS	Weight (Accuracy class F2 & coarser)	Using E1 Class Standard Weights and Semi micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R-111-1 : 2004	50 mg	0.019 mg
170	MECHANICAL-WEIGHTS	Weight (Accuracy class M2 & coarser)	Using F1 Class Standard Weights and Digital Balance (Readability: 0.01 g)by ABBA method as per OIML R-111-1 : 2004	1000 g	21.2 mg
171	MECHANICAL-WEIGHTS	Weight (Accuracy class M2 & coarser)	Using F1 Class Standard Weights and Digital Balance (Readability: 0.01 g)by ABBA method as per OIML R-111-1 : 2004	2000 g	19.8 mg

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172	MECHANICAL-WEIGHTS	Weight (Accuracy class M2 & coarser)	Using F1 Class Standard Weights and Digital Balance (Readability: 0.01 g)by ABBA method as per OIML R-111-1 : 2004	500 g	24.1 mg
173	MECHANICAL-WEIGHTS	Weight (Accuracy class M2 & coarser)	Using F1 Class Standard Weights and Digital Balance (Readability: 0.01 g)by ABBA method as per OIML R-111-1 : 2004	5000 g	40.6 mg
174	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using 4wire RTD(PT 100) with Indicator, Liquid Bath by Comparison Method	50 °C to 250 °C	1.16 °C
175	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using 4wire RTD(PT 100) with Indicator, Liquid Bath by Comparison Metho	(-)20 °C to 50 °C	0.27 °C

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176	THERMAL-TEMPERATURE	RTD sensor / Thermocouple with or without Indicator, Temperature Transmitter / Transducer with or without Indicator, Dial Thermometer / Temperature Gauge / Digital Thermometer	Using PT-100 (4wire RTD) with Indicator, Dry Temperature Bath, Digital Multi Meter by Comparison Method	100 °C to 250 °C	0.56 °C
177	THERMAL-TEMPERATURE	RTD sensor / Thermocouple with or without Indicator, Temperature Transmitter / Transducer with or without Indicator, Dial Thermometer / Temperature Gauge / Digital Thermometer	Using PT-100 (4wire RTD) with Indicator, Low Dry Temperature Bath, Digital Multi Meter by Comparison Method	(-)30 °C to 100 °C	0.46 °C
178	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Liquid Bath (Single Position)	Using 4wire RTD(PT 100) with Indicator by Comparison Method	(-)20 °C to 25 °C	0.42 °C
179	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Liquid Bath, Oven (Single Position)	Using 4wire RTD(PT 100) with Indicator by Comparison Method	25 °C to 250 °C	0.30 °C

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180	THERMAL-TEMPERATURE	Thermocouple with or without Indicator, Temperature Transmitter / Transducer with or without Indicator, Dial Thermometer / Temperature Gauge	Using R- Type Thermocouple with Indicator, High Dry Temperature Bath, Digital Multi Meter by Comparison Method	250 °C to 1200 °C	1.88 °C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6½ Digit Digital Multimeter by Direct Method	1 mA to 100 mA	0.20 % to 0.18 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6½ Digit Digital Multimeter by Direct Method	100 µA to 1 mA	0.38 % to 0.20 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6½ Digit Digital Multimeter by Direct Method	100 mA to 10 A	0.18 % to 0.22 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6½ Digital Multimeter by Direct Method	33 µA to 100 µA	0.26 % to 0.38 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using High Voltage Probe with DMM By Direct Method	1 kV to 30 kV	11.25 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50Hz	Using High Voltage Probe with DMM By Direct Method	30 kV to 100 kV	3.07%
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit Digital Multimeter by Direct Method	1 V to 10 V	0.08 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit Digital Multimeter by Direct Method	10 V to 100 V	0.08 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit Digital Multimeter by Direct Method	100 mV to 1 V	0.08 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit Digital Multimeter by Direct Method	100 V to 750 V	0.08 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5½ Digit Multi-Function Calibrator By Direct Method	100 mA to 2 A	0.36 % to 0.41 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5 ½ digit Multi-Function Calibrator By Direct Method	2 A to 10 A	0.41 % to 0.33 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5½ Digit Multi-Function Calibrator By Direct Method	200 µA to 100 mA	0.40 % to 0.36 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current @ 50 Hz	Using 5½ digit Multi-Function Calibrator & 100 turn Current Coil By Direct Method	10 A to 900 A	2.01 % to 0.98 %

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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 60 Hz	Using 5½ Digit Multi-Function Calibrator By Direct Method	100 mV to 100 V	1.91 % to 0.22 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 60 Hz	Using 5½ Digit Multi-Function Calibrator By Direct Method	100 V to 1000 V	0.22 % to 0.20 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 60 Hz	Using 5½ digit Multi-Function Calibrator By Direct Method	5 mV to 100 mV	3 % to 1.91 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor Single Phase @ 50 Hz (40 V to 300 V, 0.5 A to 6 A)	Using 3 Phase Energy Meter Calibrator by Direct Method	0.1 PF to UPF	0.0071 to 0.0072
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor Three Phase @ 50 Hz (40 V to 300 V, 0.5 A to 6 A)	Using 3 Phase Energy Meter Calibrator by Direct Method	0.1 PF to UPF	0.0071 to 0.0072
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single Phase AC Active Energy @ 50 Hz (40 V to 300 V, 0.5 A to 6A, UPF to 0.5 PF (Lag, Lead)	Using 3 Phase Energy Meter Calibrator by Direct Method	0.015 kWh to 0.9 kWh	5.7 % to 0.24 %

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21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single Phase AC Active Power @ 50 Hz (40 V to 300 V, 0.5 A to 6 A, UPF to 0.5 PF (Lag, Lead)	Using 3 Phase Energy Meter Calibrator by Direct Method	0.020 kW to 1.800 kW	3.2 % to 0.98 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single Phase AC Reactive Power @ 50 Hz (40 V to 300 V, 0.5 A to 6 A, UPF to 0.5 PF (Lag, Lead)	Using 3 Phase Energy Meter Calibrator by Direct Method	0.013 kVar to 1.560 kVar	4.45 % to 0.20 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Three Phase AC Active Energy @ 50 Hz (40 V to 300 V, 0.5 A to 6A, UPF to 0.5 PF (Lag, Lead)	Using 3 Phase Energy Meter Calibrator by Direct Method	0.030 kWh to 2.700 kWh	3.04 % to 0.25 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Three Phase AC Active Power @ 50 Hz (40 V to 300 V, 0.5 A to 6 A, UPF to 0.5 PF (Lag, Lead)	Using 3 Phase Energy Meter Calibrator by Direct Method	0.020 kW to 1.800 kW	3.05 % to 0.98 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Three Phase AC Reactive Energy @ 50 Hz (40 V to 300 V, 0.5 A to 6 A, UPF to 0.5 PF (Lag, Lead)	Using 3 Phase Energy Meter Calibrator by Direct Method	0.017 kVArh to 2.339 kVArh	3.4 % to 0.20 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Three Phase AC Reactive Power @ 50 Hz (40 V to 300 V, 0.5 A to 6 A, UPF to 0.5 PF (Lag, Lead)	Using 3 Phase Energy Meter Calibrator by Direct Method	0.012 kVar to 1.560 kVar	4.82 % to 0.20 %

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27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Digital Multimeter by Direct Method	1 A to 10 A	0.10 % to 0.16 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Digital Multimeter by Direct Method	1 mA to 100 mA	0.06 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Digital Multimeter by Direct Method	10 µA to 100 µA	0.30 % to 0.06 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Digital Multimeter by Direct Method	100 µA to 1 mA	0.06 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Digital Multimeter by Direct Method	100 mA to 1 A	0.06 % to 0.10 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Probe with DMM By Direct Method	1 kV to 30 kV	11.78 %

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33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Probe with DMM By Direct Method	30 kV to 100 kV	4.19 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 mV to 10 mV	4.91 % to 0.5 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Digital Multimeter by Direct Method	1 V to 1000 V	0.006 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Digital Multimeter by Direct Method	10 mV to 100 mV	0.5 % to 0.01 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Digital Multimeter by Direct Method	100 mV to 1 V	0.01 % to 0.006 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 6½ Digit Digital Multimeter by Direct Method	10 Mohm to 100 Mohm	0.03 % to 0.38 %

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39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire	Using 6.5 Digit Multimeter by Comparision method	100 Mohm to 1000 Mohm	0.38 % to 1.25 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 2 Wire)	Using 6½ Digit Digital Multimeter by Direct Method	1 Mohm to 10 Mohm	0.015 % to 0.03 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Digital Multimeter by Direct Method	1 kohm to 10 kohm	0.01 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digital Multimeter by Direct Method	1 ohm to 100 ohm	0.47 % to 0.1 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Digital Multimeter by Direct Method	10 kohm to 100 kohm	0.01 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Digital Multimeter by Direct Method	100 ohm to 1 kohm	0.1 % to 0.01 %

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45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ digit Multi-Function Calibrator By Direct Method	0.2 mA to 100 mA	5.92 % to 0.15 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ digit Multi-Function Calibrator By Direct Method	1 A to 10 A	0.15 % to 0.23 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ digit Multi-Function Calibrator By Direct Method	100 mA to 1 A	0.15 % to 0.25 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	Using 5½ digit Multi-Function Calibrator & 100 turn Current Coil By Direct Method	10 A to 900 A	2.67 % to 0.93 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Digit Multi-Function Calibrator By Direct Method	0.5 mV to 100 mV	3 % to 1.2 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ digit Multi-Function Calibrator By Direct Method	100 mV to 100 V	1.2 %

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51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ digit Multi-Function Calibrator by Direct Method	100 V to 1000 V	1.2 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance - 2 Wire	Using High Resistance Jig By Direct Method	5 Mohm to 100 Gohm	2.38 % to 5.78 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance - 4 Wire	Using 4 wire low resistance Jig. By Direct Method	1 mohm to 100 mohm	0.66 % to 0.17 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance - 4 Wire	Using 4 wire low resistance Jig. By Direct Method	10 µohm to 100 µohm	0.68 % to 0.66 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance - 4 Wire	Using 4 wire low resistance Jig. By Direct Method	100 µohm to 1 mohm	0.66 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance - 4 Wire	Using 4 wire low resistance Jig. By Direct Method	100 mohm to 1 ohm	0.17 % to 0.66 %

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57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Decade Resistance Box By Direct Method	1 ohm to 10 ohm	1 % to 0.15 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 wire	Using Decade Resistance Box By Direct Method	10 kohm to 10 Mohm	0.12 % to 2 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Decade Resistance Box By Direct Method	10 ohm to 10 kohm	0.15 % to 0.12 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 2 Wire	Using Decade Resistance Box By Direct Method	10 Mohm to 1000 Mohm	2 % to 2.48 %
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD - PT 100	Using Process Source by Simulation Method	(-)200 °C to 800 °C	0.94 °C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B Type	Using Process Source By Simulation Method	600 °C to 1800 °C	1.83 °C

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63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E Type	Using Process Source By Simulation Method	(-)200 °C to 1000 °C	0.70 °C
64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Process Source By Simulation Method	(-)200 °C to 1000 °C	0.81 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Process Source by Simulation Method	(-)200 °C to 1370 °C	0.99 °C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - L Type	Using Process Source by Simulation Method	(-)200 °C to 900 °C	0.82 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - N Type	Using Process Source by Simulation Method	(-)200 °C to 1300 °C	1.29 °C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Process Source by Simulation Method	0 °C to 1750 °C	1.83 °C

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69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Process Source by Simulation Method	0 °C to 1750 °C	1.83 °C
70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - U Type	Using Process Source by Simulation Method	(-)200 °C to 600 °C	0.81 °C
71	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer(Non-Contact Type)	Using Digital Tachometer with rpm source by Comparison Method:	100 rpm to 5000 rpm	2.1% rdg
72	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer with rpm source by Comparison Method	10 rpm to 100 rpm	10 % rdg
73	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer with rpm source as per by Comparison Method	100 rpm to 4000 rpm	2.2 % rdg
74	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Digital Tachometer with rpm source by Comparison Method:	10 rpm to 100 rpm	6.6 % rdg

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75	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Digital Tachometer with rpm source by Comparison Method:	5000 rpm to 90000 rpm	0.40 % rdg
76	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level calibrator by Comparison Method	94 dB	1.76 dB
77	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level calibrator by Comparison Method	114 dB	1.79 dB
78	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (L.C: 0.001 mm) Linearity	Using Gauge Block Set (‘0’ grade) by Comparison method	0 to 100 mm	5.3 µm
79	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (L.C: 1 acr sec) Angularity	Using Angle Gauge Block by comparison Method	0 ° to 360 °	1.4 Arc min
80	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification)	Using Thread Measuring Wire and Digimatic Caliper by Comparison Method	10 X to 50 X	0.42 %
81	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine (L.C. : 0.0001 mm)	Using Gauge Block Set (‘0’ grade) by Comparison method	0 to 100 mm	0.8 µm

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82	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Pressure gauge / Pressure Transmitter / Pressure transducer / pressure switch	Using digital Hydraulic pressure gauge with Hydraulic Pressure comparator,and Indicating device digital multimeter-as per DKD-R-6-1 by comparison method	0 to 700 bar	1.1 %rdg
83	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Pressure Gauge (Analogue / Digital), Magnehellic Gauge / Manometer, Pressure Transmitter / Transducer / Switch	Using digital Pneumatic pressure gauge with pneumatic pump, digital multimeter as per DKD-R-6-1 by Comparison Method	0 to 2000 mbar	1.3 mbar
84	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Pressure gauge / Pressure Transmitter / Pressure transducer / pressure switch	Using digital Pneumatic pressure gauge with Pneumatic pump, digital multimeter as per DKD-R-6-1 by comparison method	0 to 7 bar	0.16 %rdg
85	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Pressure gauge / Pressure Transmitter / Pressure transducer / pressure switch	Using digital Pneumatic pressure gauge with Pneumatic pump, digital multimeter as per DKD-R-6-1 by comparison method	7 bar to 35 bar	0.19 %rdg

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86	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge / Vacuum Transmitter / Transducer / switch L.C.-0.0001 bar	Using Digital Vacuum Gauge, 6½ digit DMM as per DKD-R-6-1 by Comparison Method	(-)0.9 bar to 0 bar	0.84 %rdg
87	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class IIII and coarser) Readability: 10 g	Using M1 Class weights as per OIML R-76-1	50 kg to 100 kg	43 g
88	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class IIII and coarser) Readability: 5 g	Using M1 Class weights as per OIML R-76-1	100 g to 50 kg	7 g
89	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class-I and coarser of readability 0.01 mg/ 0.1 mg)	Using E1 Class weights as per OIML R-76-1	1 mg to 200 g	0.29 mg
90	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class-II and coarser of readability 0.01 g)	Using F1 Class Standard Weights >200g to 5 kg as per OIML R-76-1	200 g to 5000 g	0.29 g
91	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using 4wire RTD(PT 100) with Indicator, Liquid Bath by Comparison Method	50 °C to 250 °C	1.16 °C
92	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using 4wire RTD(PT 100) with Indicator, Liquid Bath by Comparison Metho	(-)20 °C to 50 °C	0.27 °C

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93	THERMAL-TEMPERATURE	RTD sensor / Thermocouple with or without Indicator, Temperature Transmitter / Transducer with or without Indicator, Dial Thermometer / Temperature Gauge / Digital Thermometer	Using PT-100 (4wire RTD) with Indicator, Dry Temperature Bath, Digital Multi Meter by Comparison Method	100 °C to 250 °C	0.56 °C
94	THERMAL-TEMPERATURE	RTD sensor / Thermocouple with or without Indicator, Temperature Transmitter / Transducer with or without Indicator, Dial Thermometer / Temperature Gauge / Digital Thermometer	Using PT-100 (4wire RTD) with Indicator, Low Dry Temperature Bath, Digital Multi Meter by Comparison Method	(-)30 °C to 100 °C	0.46 °C
95	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Muffle Furnance (Single Position)	Using master R-Type Thermocouple with Indicator by comparison method	250 °C to 1200 °C	2.24 °C
96	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Liquid Bath (Single Position)	Using 4wire RTD(PT 100) with Indicator by Comparison Method	(-)20 °C to 25 °C	0.42 °C

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97	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Liquid Bath, Oven (Single Position)	Using 4wire RTD(PT 100) with Indicator by Comparison Method	25 °C to 250 °C	0.30 °C
98	THERMAL-TEMPERATURE	Thermocouple with or without Indicator, Temperature Transmitter / Transducer with or without Indicator, Dial Thermometer / Temperature Gauge	Using R- Type Thermocouple with Indicator, High Dry Temperature Bath, Digital Multi Meter by Comparison Method	250 °C to 1200 °C	1.88 °C

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