National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PV CALIBRATION LABORATORY PRIVATE LIMITED, 16SCP-38, SECTOR-16A, VASUNDHARA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy, Single phase & three phase, 40V to 300V, 50mA to 100A, ±0.2 to 1PF @50Hz	Using Reference Standard Meter by Direct/Comparison Method	2 Wh to 90 kWh	0.23 % to 0.23 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 1 kHz	Using 8½ Reference Multimeter & Multiproduct Calibrator by Comparison Method	10 A to 20 A	0.009 % to 0.003 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 1 kHz	Using 8½ Reference Multimeter by Direct Method	10 A to 30 A	0.009 % to 0.003 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 10 kHz	Using 8½ Reference Multimeter by Direct Method	100 µA to 100 mA	0.07 % to 0.005 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 10 kHz	Using 8½ Reference Multimeter & Multifunction Calibrator by Comparison Method	100 µA to 100 mA	0.07 % to 0.005 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 10 kHz	Using 8½ Reference Multimeter & Multifunction Calibrator by Comparison Method	100 mA to 10 A	0.005 % to 0.009 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 10 kHz	Using 8½ Reference Multimeter by Direct Method	29 µA to 100 µA	0.4 % to 0.07 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 10 kHz	Using 8½ Reference Multimeter & Multifunction Calibrator by Comparison Method	29 µA to 100 µA	0.4 % to 0.07 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 5 kHz	Using 8½ Reference Multimeter by Direct Method	100 mA to 10 A	0.005 % to 0.009 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Reference Standard Meter by Direct Method	10 A to 100 A	0.25 % to 0.23 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Three phase Reference Standard meter with Clamp by Comparison Method	10 A to 100 A	0.25 % to 0.23 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy (Active/Reactive), Single phase & three phase, 40V to 300V, 50mA to 10A, ±0.2 to 1PF @50Hz	Using Reference Standard Meter by Direct/Comparison Method	2 Wh/VArh to 9 kWh/kVArh	0.07 % to 0.07 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50Hz	Using HV Probe with DMM Direct / Comparison Method	1 kV to 30 kV	0.02 kV to 0.71 kV
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power (Active/Reactive), Single phase & three phase, 40V to 300V, 50mA to 100A, ±0.2 to 1PF @50Hz	Using Reference Standard Meter by Direct/Comparison Method	2 W/VAr to 90 kW/kVAr	0.23 % to 0.23 %

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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power (Active/Reactive), Single phase & three phase, 40V to 300V, 50mA to 10A, ±0.2 to 1PF @50Hz	Using Reference Standard Meter by Direct/Comparison Method	2 W/VAr to 9 kW/kVAr	0.07 % to 0.07 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Energy, Single phase & three phase, 40V to 300V, 50mA to 100A, ±0.2 to 1PF @50Hz	Using Reference Standard Meter by Direct/Comparison Method	2 Varh to 90 kVarh	0.23 % to 0.23 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage 10 Hz to 10kHz	Using 8½ Reference Multimeter & Multiproduct Calibrator by Comparison Method	10 mV to 1000 V	0.02 % to 0.03 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage 10 Hz to 10kHz	Using 8½ Reference Multimeter by Direct Method	10 mV to 750 V	0.02 % to 0.006 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 100kHz	Using 8½ Reference Multimeter by Direct Method	10 mV to 300 V	0.02 % to 0.008 %

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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 100kHz	Using 8½ Reference Multimeter & Multiproduct Calibrator by Comparison Method	10 mV to 300 V	0.02 % to 0.008 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1kHz	Using 6½ Precision Multimeter By Direct Method	1 mV to 10 mV	0.5 % to 0.06 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1kHz	Using 8½ Reference Multimeter & Multiproduct Calibrator by Comparison Method	1 mV to 10 mV	0.5 % to 0.06 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Current Transformer Phase Error (Primary 50mA to 100A, Secondary 50mA To 5A)	Using Reference Standard Meter by Direct Method	50 mA to 100 A	4.6 min to 4.6 min
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Current Transformer Ratio Error (Primary 50mA to 100A, Secondary 50mA To 5A)	Using Reference Standard Meter by Comparison Method	50 mA to 100 A	0.23 % to 0.23 %

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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonic, Total Harmonic Distortion, Distortion Factor	Using Reference Standard Meter by Direct Method	0.05 Amp to 10 Amp	0.63 % to 0.63 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonic, Total Harmonic Distortion, Distortion Factor	Using Reference Standard Meter by Comparison Method	0.05 Amp to 10 Amp	0.63 % to 0.63 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonic, Total Harmonic Distortion, Distortion Factor	Using Reference Standard Meter by Direct Method	2 nd to 40 th	0.63 % to 0.63 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonic, Total Harmonic Distortion, Distortion Factor	Using Reference Standard Meter by Comparison Method	2 nd to 40 th	0.63 % to 0.63 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonic, Total Harmonic Distortion, Distortion Factor	Using Reference Standard Meter by Direct Method	30 V to 240 V	0.63 % to 0.63 %

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30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonic, Total Harmonic Distortion, Distortion Factor	Using Reference Standard Meter by Comparison Method	30 Volt to 240 Volt	0.63 % to 0.63 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Phase Angle	Using Reference Standard Meter by Direct Method	0 ° to 360 °	0.05 ° to 0.12 °
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Phase Angle	Using Reference Standard Meter by Comparison Method	0 ° to 360 °	0.05 ° to 0.12 °
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor (Lead/Lag)	Using Reference Standard Meter by Comparison Method	0.1 PF to 1 PF	0.006 PF to 0.006 PF
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor (Lead/Lag)	Using Reference Standard Meter by Direct Method	0.1 PF to 1 PF	0.006 PF to 0.006 PF

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35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct calibrator by Direct method	29 µA to 300 µA	0.261 % to 0.20 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct calibrator by Direct method	3 A to 20 A	0.17 % to 0.11 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct calibrator by Direct method	300 µA to 3 A	0.20 % to 0.17 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current @ 50 Hz	Using Multifunction Calibrator with current Coil by Direct Method	20 A to 1000 A	0.20 % to 1 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power Single phase 1V to 240V, 1mA to 20A, ±0.1 to 1PF @50 to 60Hz	Using Multiproduct Calibrator by Direct Method	1 mW to 4800 W	0.2 % to 0.18 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power Single phase 240V to 600V, 0.1A to 20A, ±0.1 to 1PF @50 to 60Hz	Using Multiproduct calibrator by Direct method	2.4 W to 12 kW	0.2 % to 0.8 %

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41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power Single phase 600V to 1000V, 0.1A to 20A, UPF @50 to 60Hz	Using Multiproduct calibrator by Direct method	12 kW to 20 kW	0.8 % to 0.8 %
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multiproduct calibrator by Direct method	1 mV to 30 mV	0.29 % to 0.02 %
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multiproduct calibrator by Direct method	30 mV to 300 V	0.02 % to 0.01 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multiproduct calibrator by Direct method	300 V to 1000 V	0.01 % to 0.02 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1kHz	Using Multiproduct calibrator by Direct method	1 nF to 100 µF	1.74 % to 0.65 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	DC Power Single phase 1V to 1000V, 1mA to 20A	Using Multiproduct calibrator by Direct method	1 mW to 12 kW	0.12 % to 0.89 %

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47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance	Using Decade Inductance Box by Direct Method	100 µH to 10 H	4 % to 2.51 %
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor (Lead/Lag)	Using Multiproduct calibrator by Direct method	0.1 PF to 1 PF	0.081 % to 0.071 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Capacitance	Using 8½ Reference Multimeter by Direct Method	1 nF to 100 uF	1.74 % to 0.65 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Precision Multimeter & Multiproduct Calibrator by Comparison Method	1 µA to 10 µA	0.14 % to 0.014 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Reference Multimeter by Direct Method	1 µA to 10 µA	0.71 % to 0.014 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Reference Multimeter by Direct Method	1 mA to 20 A	0.006 % to 0.004 %

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53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Reference Multimeter & Multiproduct Calibrator by Comparison Method	1 mA to 20 A	0.006 % to 0.004 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Precision Multimeter & Multiproduct Calibrator by Comparison Method	10 µA to 1 mA	0.14 % to 0.006 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Reference Multimeter by Direct Method	10 µA to 1 mA	0.14 % to 0.006 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Ushing Shunt & 6.5 Precision Multimeter by Direct Method	10 A to 500 A	0.21 % to 0.22 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Reference Multimeter by Direct Method	20 A to 30 A	0.004 % to 0.003 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Reference Multimeter by Comparison Method	20 A to 30 A	0.04 % to 0.03 %

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59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC HIGH RESISTANCE	Using 8 1/2 Reference multimeter & High Voltage Insulation Tester By Direct Method	1 Mohm to 1000 Gohm	1.6 % to 5 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM Comparison Method	1 kV to 30 kV	0.026 kV to 0.7 kV
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM Direct Method	1 kV to 30 kV	0.026 kV to 0.7 kV
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Reference Multimeter & Multiproduct Calibrator by Comparison Method	0.1 mV to 1 mV	0.08 % to 0.05 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Reference Multimeter by Direct Method	0.1 mV to 1 mV	0.4 % to 0.065 %

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64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Reference Multimeter by Direct Method	1 mV to 100 mV	0.065 % to 0.003 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Reference Multimeter & Multiproduct Calibrator by Comparison Method	1 mV to 100 mV	0.065 % to 0.003 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Reference Multimeter & Multiproduct Calibrator by Comparison Method	100 mV to 1000 V	0.003 % to 0.001 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Reference Multimeter by Direct Method	100 mV to 1000 V	0.003 % to 0.011 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Reference Multimeter by Direct Method	0.1 ohm to 100 ohm	1.95 % to 0.0005 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Reference Multimeter by Direct Method	1 Gohm to 10 Gohm	0.04 % to 2.09 %

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70	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Reference Multimeter by Direct Method	1 Mohm to 100 Mohm	0.005 % to 0.024 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Reference Multimeter by Direct Method	10 kohm to 1 Mohm	0.0008 % to 0.005 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Reference Multimeter by Direct Method	100 Mohm to 1 Gohm	0.024 % to 0.4 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Reference Multimeter by Direct Method	100 ohm to 10 kohm	0.0002 % to 0.0008 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance 4W	Using 8½ Reference Multimeter by Direct Method	0.1 ohm to 10 kOhm	0.24 % to 0.0003 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct calibrator by Direct method	1 µA to 300 µA	0.93 % to 0.003 %

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76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct calibrator by Direct method	1 A to 20 A	0.021 % to 0.05 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct calibrator by Direct method	300 µA to 300 mA	0.003 % to 0.03 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct calibrator by Direct method	300 mA to 1 A	0.03 % to 0.021 %
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	Using Multiproduct Calibrator with current Coil by Direct Method	20 A to 1000 A	0.09 % to 0.054 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC HIGH RESISTANCE	Using HV Gigaohm Box by Direct Method	1 Gohm	4.3%
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC HIGH RESISTANCE	Using HV Gigaohm Box by Direct Method	1000 Gohm	5.2 %

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82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC HIGH RESISTANCE	Using HV Gigaohm Box by Direct Method	200 Gohm	5%
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC HIGH RESISTANCE	Using HV Gigaohm Box by Direct Method	5 Gohm	5 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct calibrator by Direct method	0.01 mV to 1 mV	1.8 % to 0.065 %
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct calibrator by Direct method	1 mV to 300 mV	0.04 % to 0.0006 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct calibrator by Direct method	30 V to 1000 V	0.002 % to 0.005 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct calibrator by Direct method	300 mV to 30 V	0.0006 % to 0.002 %

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88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct calibrator by Direct method	1 Mohm to 100 Mohm	0.007 % to 0.015 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct calibrator by Direct method	1 ohm to 100 ohm	0.06 % to 0.015 %
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct calibrator by Direct method	100 kohm to 1 Mohm	0.02 % to 0.007 %
91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct calibrator by Direct method	100 Mohm to 1000 Mohm	0.024 % to 0.173 %
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct calibrator by Direct method	100 ohm to 100 kohm	0.015 % to 0.02 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance 4W	Using Multiproduct calibrator by Direct method	0.1 ohm to 10 ohm	0.91 % to 0.006 %

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94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance 4W	Using Resistance Box by Direct Method	1 mohm to 1 ohm	2.78 % to 0.80 %
95	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance 4W	Using Multiproduct calibrator by Direct method	10 ohm to 300 kohm	0.006 % to 0.002
96	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude (Deflection Factor)	Oscilloscope Calibrator Direct Method	10 mV to 100 V	1.52 % to 1.82 %
97	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth	Using Signal Generator By Direct Method	UP to 200 MHz	0.2
98	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time Base (Marker)	Oscilloscope Calibrator Direct Method	50 nSec to 1 Sec	0.67 % to 0.77 %
99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	"B" Type	Using Multiproduct Calibrator by Direct Method	600 °C to 1800 °C	0.03 °C

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100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	"E" Type	Using Multiproduct Calibrator by Direct Method	-200 °C to 1000 °C	0.04 °C
101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	"J" Type	Using Multiproduct Calibrator by Direct Method	-200 °C to 1200 °C	0.03 °C
102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	"K" Type	Using Multiproduct Calibrator by Direct Method	-200 °C to 1300 °C	0.02 °C
103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	"R" Type	Using Multiproduct Calibrator by Direct Method	0 to 1700 °C	0.03 °C
104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	"S" Type	Using Multiproduct calibrator by Direct method	0 to 1700 °C	0.03 °C
105	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	"T" Type	Using Multiproduct Calibrator by Direct Method	-200 °C to 400 °C	0.02 °C

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106	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	PT-100	Using Universal Calibrator by Direct Method	-200 °C to 800 °C	0.11 °C
107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	"B" Type	Using Multiproduct Calibrator by Direct Method	600 °C to 1800 °C	0.07 °C
108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	"E" Type	Using Multiproduct Calibrator by Direct Method	-200 °C to 1000 °C	0.04 °C
109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	"J" Type	Using Multiproduct Calibrator by Direct Method	-200 °C to 1200 °C	0.04 °C
110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	"K" Type	Using Multiproduct Calibrator by Direct Method	-200 °C to 1300 °C	0.04 °C
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	"N" Type	Using Multiproduct Calibrator by Direct Method	-200 °C to 1300 °C	0.04

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112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	"R" Type	Using Multiproduct Calibrator by Direct Method	0 to 1700 °C	0.04°C
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	"S" Type	Using Multiproduct Calibrator by Direct Method	0 to 1700 °C	0.04 °C
114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	"T" Type	Using Multiproduct Calibrator by Direct Method	-200 °C to 400 °C	0.01 °C
115	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	PT-100	Using Multiproduct Calibrator by Direct Method	-200 °C to 800 °C	0.13 °C
116	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 8½ Reference Multimeter By Comparison Method	10 Hz to 100 MHz	0.0006 % to 0.0006 %
117	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 8½ Reference Multimeter 8588A by Direct Method	10 Hz to 100 MHz	0.0006 % to 0.0006 %

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118	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Frequency Counter By Comparison Method	100 MHz to 990 MHz	0.0006 % to 0.0003 %
119	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Frequency Counter By Direct Method	100 MHz to 990 MHz	0.0006 % to 0.0003 %
120	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Calibrator by Comparison Method	0.1 s to 60 s	0.95 % to 0.059 %
121	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Calibrator by Comparison Method	60 s to 86400 s	0.06%
122	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct Method	1 Hz to 10 Hz	0.59 % to 0.059 %
123	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Signal Generator by Direct Method	1 MHz to 990 MHz	0.003 % to 0.002 %

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124	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct calibrator by Direct method	10 Hz to 2 MHz	0.059 % to 0.048 %
125	MECHANICAL-ACCELERATION AND SPEED	RPM Non-Contact Type (RPM Meter, Centrifuge Machine, Stroboscope, Tachometer)	Using Digital Tachometer with RPM Source by Comparison Method	10 rpm to 30 rpm	0.64rpm
126	MECHANICAL-ACCELERATION AND SPEED	RPM Non-Contact Type (RPM Meter, Centrifuge Machine, Stroboscope, Tachometer)	Using Digital Tachometer with RPM Source by Comparison Method	1000 rpm to 10000 rpm	2.85rpm
127	MECHANICAL-ACCELERATION AND SPEED	RPM Non-Contact Type (RPM Meter, Centrifuge Machine, Stroboscope, Tachometer)	Using Digital Tachometer with RPM Source by Comparison Method	10000 rpm to 40000 rpm	6.17rpm
128	MECHANICAL-ACCELERATION AND SPEED	RPM Non-Contact Type (RPM Meter, Centrifuge Machine, Stroboscope, Tachometer)	Using Digital Tachometer with RPM Source by Direct/Comparison Method	30 rpm to 1000 rpm	1.2rpm
129	MECHANICAL-ACCELERATION AND SPEED	RPM Non-Contact Type (RPM Meter, Centrifuge Machine, Stroboscope, Tachometer)	Using Digital Tachometer with RPM Source by Direct/Comparison Method	40000 rpm to 90000 rpm	11.95rpm

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130	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1kHz	Using Sound Calibrator by Direct Method	114 dB	1.2dB
131	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1kHz	Using Sound Calibrator by Direct Method	94 dB	1.4dB
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector / Angle Protector / Combination Set L.C. - 5 min.	Using angle gauge by Comparison Method	0 to 180 °	5.2min
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge L.C. - 0.1/1µm	Using Standard Foils Comparison Method	Up to 1 mm	11.6µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digital Gauge (Plunger Type)- L.C. : 0.001 mm	Using Slip gauge set by Comparison Method	0 to 50 mm	4.6µm
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge LC-0.001mm	Using Slip gauges by Comparison Method	Up to 20 mm	7.0µm

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136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C. : 0.001 mm	Using Slip Gauges Comparison Method	Up to 100 mm	2.9µm
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Micrometer Comparison Method	Up to 1 mm	2.2µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge L.C. : 0.01 mm	Using Slip Gauges Comparison Method	Up to 300 mm	8.0µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge L.C. : 0.01 mm	Using Slip Gauges Comparison Method	Up to 600 mm	16.3µm
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Digital Caliper by Comparison Method	4 to 150 mm	33.2µm

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141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper L.C. : 0.01 mm	Using Slip Gauges Comparison Method	0 to 300 mm	16.1µm
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper L.C. : 0.01 mm	Using Slip Gauges Comparison Method	0 to 600 mm	18.4µm
143	MECHANICAL-PRESSURE INDICATING DEVICES	Absolute Pressure (Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder, Manometer, Barometer	Using Barometric Pressure Indicator & Pressure calibrator by Comparison Method DKD-R6-1	200 mbar(abs) to 1050 mbar(abs)	1.89mbar

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144	MECHANICAL-PRESSURE INDICATING DEVICES	Dig. Manometer, Magnehelic Gauge, Low Pressure Indicator, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Switch	Using Digital Manometer & Pressure calibrator by Comparison Method DKD R6-1	0 to 10000 Pa	7.5Pa
145	MECHANICAL-PRESSURE INDICATING DEVICES	Dig. Manometer, Pirani Gauge, Magnehelic Gauge, Low Pressure Indicator, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Switch	Using Digital Pressure Calibrator & Pressure calibrator by Comparison Method DKD R6-1	0 to 2000 Pa	1.28Pa

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146	MECHANICAL-PRESSURE INDICATING DEVICES	Dig. Manometer, Pirani Gauge, Magnehelic Gauge, Low Pressure Indicator,Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Switch	Using Digital Manometer & Pressure calibrator by Comparison Method DKD R6-1	-10000 Pa to 0 Pa	4.3Pa
147	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder (Hydraulic)	Using Digital Pressure Calibrator & Pressure calibrator by Comparison Method DKD R6-1	0 to 700 bar	0.12bar

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148	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder, Manometer, (Pnumatic)	Using Digital Pressure Calibrator & Pressure calibrator by Comparison Method DKD R6-1	0 to 2 bar	0.0014bar
149	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder, Manometer, Pressure Valve (Pnumatic)	Using Digital Pressure Calibrator & Calibrator by Comparison Method DKD R6-1	0 to 20 bar	0.004bar

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150	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Digital/Analog), Vacuum Transmitter, Manometer, Differential Transmitter, Pressure Calibrator, Vacuum Switch, Compound Gauge, Pressure Indicator, Pressure Recorder	Using Digital Pressure Calibrator & Calibrator by Comparison Method DKD R6-1	(-)0.99 bar to 0 bar	0.0014bar
151	MECHANICAL-VOLUME	Micro pipettes	Using Electronic Balance 220g (readability 0.01/0.1 mg) with Distilled water as per ISO 8655-6	10 µl to 10000 µl	0.4 µl to 3.5 µl
152	MECHANICAL-VOLUME	Pipettes, Burette, Volumetric Flask, Measuring Cylinder, Beaker, Measuring Jar, Pycnometer, Dispenser, Specific Gravity Bottle/cup, Weight per liter cup	Using Electronic Balance 220g (readability 0.01/0.1 mg) with Distilled water as per ISO 4787	0.1 ml to 1 ml	2.6µl

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153	MECHANICAL-VOLUME	Pipettes, Burette, Volumetric Flask, Measuring Cylinder, Beaker, Measuring Jar, Pycnometer, Dispenser, Specific Gravity Bottle/cup, Weight per liter cup	Using Electronic Balance 220g (readability 0.01/0.1 mg) with Distilled water as per ISO 4787	1 ml to 50 ml	16µl
154	MECHANICAL-VOLUME	Pipettes, Burette, Volumetric Flask, Measuring Cylinder, Beaker, Measuring Jar, Pycnometer, Dispenser, Specific Gravity Bottle/cup, Weight per liter cup	Using Electronic Balance 220g (readability 0.1 mg) with Distilled water as per ISO 4787	50 ml to 100 ml	390µl
155	MECHANICAL-VOLUME	Volumetric Flask, Measuring Cylinder, Beaker, Measuring Jar, Pycnometer, Dispenser, Specific Gravity Bottle/cup, Weight per liter cup	Using Electronic Balance 220g (readability 0.1/1 mg) with Distilled water as per ISO 4787	100 ml to 500 ml	390µl
156	MECHANICAL-VOLUME	Volumetric Flask, Measuring Cylinder, Beaker, Measuring Jar, Pycnometer, Dispenser, Specific Gravity Bottle/cup, Weight per liter cup	Using Electronic Balance (6200g) (readability 10 mg) with Distilled water as per ISO 4787	1000 ml to 5000 ml	3.35ml

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157	MECHANICAL-VOLUME	Volumetric Flask, Measuring Cylinder, Beaker, Measuring Jar, Pycnometer, Dispenser, Specific Gravity Bottle/cup, Weight per liter cup	Using Electronic Balance (1000g) (readability 1/10 mg) with Distilled water as per ISO 4787	500 ml to 1000 ml	0.47ml
158	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance Readability 10 g	Using E1 Class & F1 Class Standard Weights by Comparison Method	0 to 50 kg	7.6g
159	MECHANICAL-WEIGHTS	Mass Accuracy Class F1 and Coarser	Using E1 Class Standard Weights and Electronic Balance (Readability 0.01/0.1 mg) as per OIML R 111-1	1 g	0.034mg
160	MECHANICAL-WEIGHTS	Mass Accuracy Class F1 and Coarser	Using E1 Class Standard Weights and Electronic Balance (Readability 0.01/0.1 mg) as per OIML R 111-1	10 g	0.034mg
161	MECHANICAL-WEIGHTS	Mass Accuracy Class F1 and Coarser	Using E1 Class Standard Weights and Electronic Balance (Readability 0.1 mg) as per OIML R111-1	100 g	0.10mg

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162	MECHANICAL-WEIGHTS	Mass Accuracy Class F1 and Coarser	Using E1 Class Standard Weights and Electronic Balance (Readability 0.01/0.1 mg) as per OIML R 111-1	2 g	0.034mg
163	MECHANICAL-WEIGHTS	Mass Accuracy Class F1 and Coarser	Using E1 Class Standard Weights and Electronic Balance (Readability 0.01/0.1 mg) as per OIML R 111-1	20 g	0.06mg
164	MECHANICAL-WEIGHTS	Mass Accuracy Class F1 and Coarser	Using E1 Class Standard Weights and Electronic Balance (Readability 0.1 mg) as per OIML R111-1)	200 g	0.10mg
165	MECHANICAL-WEIGHTS	Mass Accuracy Class F1 and Coarser	Using E1 Class Standard Weights and Electronic Balance (Readability 0.01/0.1 mg) as per OIML R 111-1	5 g	0.034mg
166	MECHANICAL-WEIGHTS	Mass Accuracy Class F1 and Coarser	Using E1 Class Standard Weights and Electronic Balance (Readability 0.01/0.1 mg) as per OIML R 111-1	50 g	0.06mg

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167	MECHANICAL-WEIGHTS	Mass Accuracy Class F2 and Coarser	Using F1 Class Standard Weights and Electronic Balance (Readability 1 mg) as per OIML R111-1	1 kg	1.9mg
168	MECHANICAL-WEIGHTS	Mass Accuracy Class F2 and Coarser	Using E1 Class Standard Weights and Electronic Balance (Readability 0.01/0.1 mg) as per OIML R 111-1	100 mg	0.034mg
169	MECHANICAL-WEIGHTS	Mass Accuracy Class F2 and Coarser	Using F1 Class Standard Weights and Electronic Balance (Readability 10 mg) as per OIML R111-1	2 kg	0.01g
170	MECHANICAL-WEIGHTS	Mass Accuracy Class F2 and Coarser	Using E1 Class Standard Weights and Electronic Balance (Readability 0.01/0.1 mg) as per OIML R 111-1	20 mg	0.03mg
171	MECHANICAL-WEIGHTS	Mass Accuracy Class F2 and Coarser	Using E1 Class Standard Weights and Electronic Balance (Readability 0.01/0.1 mg) as per OIML R 111-1	200 mg	0.034mg

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172	MECHANICAL-WEIGHTS	Mass Accuracy Class F2 and Coarser	Using F1 Class Standard Weights and Electronic Balance (Readability 10 mg) as per OIML R111-1	5 kg	0.026g
173	MECHANICAL-WEIGHTS	Mass Accuracy Class F2 and Coarser	Using E1 Class Standard Weights and Electronic Balance (Readability 0.01/0.1 mg) as per OIML R 111-1	50 mg	0.034mg
174	MECHANICAL-WEIGHTS	Mass Accuracy Class F2 and Coarser	Using E1 Class Standard Weights and Electronic Balance (Readability 1 mg) as per OIML R 111-1)	500 g	1.61mg
175	MECHANICAL-WEIGHTS	Mass Accuracy Class F2 and Coarser	Using E1 Class Standard Weights and Electronic Balance (Readability 0.01/0.1 mg) as per OIML R 111-1	500 mg	0.034mg
176	MECHANICAL-WEIGHTS	Mass Accuracy Class M1 and Coarser	Using E1 Class Standard Weights and Electronic Balance (Readability 0.01/0.1 mg) as per OIML R 111-1	1 mg	0.021mg

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177	MECHANICAL-WEIGHTS	Mass Accuracy Class M1 and Coarser	Using E1 Class Standard Weights and Electronic Balance (Readability 0.01/0.1 mg) as per OIML R 111-1	10 mg	0.03mg
178	MECHANICAL-WEIGHTS	Mass Accuracy Class M1 and Coarser	Using E1 Class Standard Weights and Electronic Balance (Readability 0.01/0.1 mg) as per OIML R 111-1	2 mg	0.025mg
179	MECHANICAL-WEIGHTS	Mass Accuracy Class M1 and Coarser	Using E1 Class Standard Weights and Electronic Balance (Readability 0.01/0.1 mg) as per OIML R 111-1	5 mg	0.026mg
180	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber/Environmental chamber/Humidity Indicator/Climatic Chamber/ Rooms @ 20°C to 60°C	Multiposition Calibration Using Multichannel Data Logger With RH Sensors by Comparison Method	15 %RH to 95 %RH	2.63 % RH

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181	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator, Humidity Transmitter, Thermohygrometer, Dew Point Meter, Humidity Sensor/Probe, Temperature & Humidity Indicator (Relative Humidity) @ 20° to 60°C	Using Temperature & Humidity Indicator with Sensor /DMM & Humidity Chamber by Comparison Method	15 %RH to 95 %RH	1.37 % RH
182	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator, Humidity Transmitter, Thermohygrometer, Dew Point Meter, Humidity Sensor/Probe, Temperature & Humidity Indicator, Dry & Wet Thermometer (Relative Humidity) @ 15 to 95 %RH	Using Temperature & Humidity Indicator with Humidity Chamber by Comparison Method	20 °C to 60°C °C	0.35 °C
183	THERMAL-TEMPERATURE	Black Body Source (Emissivity-0.95)	Using Standard Infra Red Thermometer by Direct Method	>200 °C to 500 °C	2.3 °C
184	THERMAL-TEMPERATURE	Black Body Source (Emissivity-0.95)	Using Standard Infra Red Thermometer by Direct Method	50 °C to 200 °C	2.01 °C

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185	THERMAL-TEMPERATURE	IR / Non-Contact Thermometer / Pyrometer / Thermal Imager	Using Standard Infra Red Thermometer & Black Body Source (Emissivity-0.95) by Comparison Method	50 °C to 500 °C	2.3 °C
186	THERMAL-TEMPERATURE	Liquid In Glass Thermometer	Using SPRT with Super DAQ Temperature Scanner & Micro Bath By Comparison Method	-30 °C to 125 °C	0.064 °C
187	THERMAL-TEMPERATURE	Temp. Transmitter, RTD, Thermocouple with or without Indicator , Data logger / Recorder with sensor, Temperature Gauge, Digital Thermometer & Thermostat with sensor	Using SPRT with Super DAQ Temperature scanner, 6.5 Precision Multimeter & Dry Block Furnace By Comparison Method	>125 °C to 600 °C	0.26 °C

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188	THERMAL-TEMPERATURE	Temperature Indicator of Freezer, Deep Freezer, Environment Chamber, Climate chamber, Cold Room, UV Chamber, Liquid Bath, Dry Bath, Cold Chamber, Walk in Chamber, Temperature calibrator	Using SPRT with Super DAQ Temperature scanner Single Position By Comparison Method	(-)80 °C to 600 °C	0.07 °C
189	THERMAL-TEMPERATURE	Temperature Indicator of Muffle Furnace, Dry Block Furnace, Oven (single Position)	Using "R" Type Thermocouple with Indicator by Comparison Method	>600 °C to 1200 °C	1.66 °C
190	THERMAL-TEMPERATURE	Temperature Transmitter, RTD/Thermocouple with or without Indicator / Data logger / Recorder with sensor, Temperature Gauge, Digital Thermometer & Thermostat with sensor	Using SPRT with Super DAQ Temperature scanner, 6.5 Precision Multimeter & Liquid Bath Furnace By Comparison Method	(-)30 °C to 125 °C	0.055°C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy, Single phase & three phase, 40V to 300V, 50mA to 100A, ±0.2 to 1PF @50Hz	Using Reference Standard Meter by Direct/Comparison Method	2 Wh to 90 kWh	0.23 % to 0.23 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 1 kHz	Using 8½ Reference Multimeter & Multiproduct Calibrator by Comparison Method	10 A to 20 A	0.009 % to 0.003 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 1 kHz	Using 8½ Reference Multimeter by Direct Method	10 A to 30 A	0.009 % to 0.003 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 10 kHz	Using 8½ Reference Multimeter by Direct Method	100 µA to 100 mA	0.07 % to 0.005 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 10 kHz	Using 8½ Reference Multimeter & Multifunction Calibrator by Comparison Method	100 µA to 100 mA	0.07 % to 0.005 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 10 kHz	Using 8½ Reference Multimeter & Multifunction Calibrator by Comparison Method	100 mA to 10 A	0.005 % to 0.009 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 10 kHz	Using 8½ Reference Multimeter by Direct Method	29 µA to 100 µA	0.4 % to 0.07 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 10 kHz	Using 8½ Reference Multimeter & Multifunction Calibrator by Comparison Method	29 µA to 100 µA	0.4 % to 0.07 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 5 kHz	Using 8½ Reference Multimeter by Direct Method	100 mA to 10 A	0.005 % to 0.009 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Reference Standard Meter by Direct Method	10 A to 100 A	0.25 % to 0.23 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Three phase Reference Standard meter with Clamp by Comparison Method	10 A to 100 A	0.25 % to 0.23 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy (Active/Reactive), Single phase & three phase, 40V to 300V, 50mA to 10A, ±0.2 to 1PF @50Hz	Using Reference Standard Meter by Direct/Comparison Method	2 Wh/VArh to 9 kWh/kVArh	0.07 % to 0.07 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50Hz	Using HV Probe with DMM Direct / Comparison Method	1 kV to 30 kV	0.02 kV to 0.71 kV
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power (Active/Reactive), Single phase & three phase, 40V to 300V, 50mA to 100A, ±0.2 to 1PF @50Hz	Using Reference Standard Meter by Direct/Comparison Method	2 W/VAr to 90 kW/kVAr	0.23 % to 0.23 %

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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power (Active/Reactive), Single phase & three phase, 40V to 300V, 50mA to 10A, ±0.2 to 1PF @50Hz	Using Reference Standard Meter by Direct/Comparison Method	2 W/VAr to 9 kW/kVAr	0.07 % to 0.07 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Energy, Single phase & three phase, 40V to 300V, 50mA to 100A, ±0.2 to 1PF @50Hz	Using Reference Standard Meter by Direct/Comparison Method	2 Varh to 90 kVarh	0.23 % to 0.23 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage 10 Hz to 10kHz	Using 8½ Reference Multimeter & Multiproduct Calibrator by Comparison Method	10 mV to 1000 V	0.02 % to 0.03 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage 10 Hz to 10kHz	Using 8½ Reference Multimeter by Direct Method	10 mV to 750 V	0.02 % to 0.006 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 100kHz	Using 8½ Reference Multimeter by Direct Method	10 mV to 300 V	0.02 % to 0.008 %

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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 100kHz	Using 8½ Reference Multimeter & Multiproduct Calibrator by Comparison Method	10 mV to 300 V	0.02 % to 0.008 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1kHz	Using 6½ Precision Multimeter By Direct Method	1 mV to 10 mV	0.5 % to 0.06 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1kHz	Using 8½ Reference Multimeter & Multiproduct Calibrator by Comparison Method	1 mV to 10 mV	0.5 % to 0.06 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Current Transformer Phase Error (Primary 50mA to 100A, Secondary 50mA To 5A)	Using Reference Standard Meter by Direct Method	50 mA to 100 A	4.6 min to 4.6 min
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Current Transformer Ratio Error (Primary 50mA to 100A, Secondary 50mA To 5A)	Using Reference Standard Meter by Comparison Method	50 mA to 100 A	0.23 % to 0.23 %

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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonic, Total Harmonic Distortion, Distortion Factor	Using Reference Standard Meter by Direct Method	0.05 Amp to 10 Amp	0.63 % to 0.63 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonic, Total Harmonic Distortion, Distortion Factor	Using Reference Standard Meter by Comparison Method	0.05 Amp to 10 Amp	0.63 % to 0.63 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonic, Total Harmonic Distortion, Distortion Factor	Using Reference Standard Meter by Direct Method	2 nd to 40 th	0.63 % to 0.63 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonic, Total Harmonic Distortion, Distortion Factor	Using Reference Standard Meter by Comparison Method	2 nd to 40 th	0.63 % to 0.63 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonic, Total Harmonic Distortion, Distortion Factor	Using Reference Standard Meter by Direct Method	30 V to 240 V	0.63 % to 0.63 %

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30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonic, Total Harmonic Distortion, Distortion Factor	Using Reference Standard Meter by Comparison Method	30 Volt to 240 Volt	0.63 % to 0.63 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Phase Angle	Using Reference Standard Meter by Direct Method	0 ° to 360 °	0.05 ° to 0.12 °
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Phase Angle	Using Reference Standard Meter by Comparison Method	0 ° to 360 °	0.05 ° to 0.12 °
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor (Lead/Lag)	Using Reference Standard Meter by Comparison Method	0.1 PF to 1 PF	0.006 PF to 0.006 PF
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor (Lead/Lag)	Using Reference Standard Meter by Direct Method	0.1 PF to 1 PF	0.006 PF to 0.006 PF

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35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct calibrator by Direct method	29 µA to 300 µA	0.261 % to 0.20 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct calibrator by Direct method	3 A to 20 A	0.17 % to 0.11 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct calibrator by Direct method	300 µA to 3 A	0.20 % to 0.17 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current @ 50 Hz	Using Multifunction Calibrator with current Coil by Direct Method	20 A to 1000 A	0.20 % to 1 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power Single phase 1V to 240V, 1mA to 20A, ±0.1 to 1PF @50 to 60Hz	Using Multiproduct Calibrator by Direct Method	1 mW to 4800 W	0.2 % to 0.18 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power Single phase 240V to 600V, 0.1A to 20A, ±0.1 to 1PF @50 to 60Hz	Using Multiproduct calibrator by Direct method	2.4 W to 12 kW	0.2 % to 0.8 %

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41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power Single phase 600V to 1000V, 0.1A to 20A, UPF @50 to 60Hz	Using Multiproduct calibrator by Direct method	12 kW to 20 kW	0.8 % to 0.8 %
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multiproduct calibrator by Direct method	1 mV to 30 mV	0.29 % to 0.02 %
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multiproduct calibrator by Direct method	30 mV to 300 V	0.02 % to 0.01 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multiproduct calibrator by Direct method	300 V to 1000 V	0.01 % to 0.02 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1kHz	Using Multiproduct calibrator by Direct method	1 nF to 100 µF	1.74 % to 0.65 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	DC Power Single phase 1V to 1000V, 1mA to 20A	Using Multiproduct calibrator by Direct method	1 mW to 12 kW	0.12 % to 0.89 %

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47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance	Using Decade Inductance Box by Direct Method	100 µH to 10 H	4 % to 2.51 %
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor (Lead/Lag)	Using Multiproduct calibrator by Direct method	0.1 PF to 1 PF	0.081 % to 0.071 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Capacitance	Using 8½ Reference Multimeter by Direct Method	1 nF to 100 uF	1.74 % to 0.65 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Precision Multimeter & Multiproduct Calibrator by Comparison Method	1 µA to 10 µA	0.14 % to 0.014 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Reference Multimeter by Direct Method	1 µA to 10 µA	0.71 % to 0.014 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Reference Multimeter by Direct Method	1 mA to 20 A	0.006 % to 0.004 %

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53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Reference Multimeter & Multiproduct Calibrator by Comparison Method	1 mA to 20 A	0.006 % to 0.004 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Precision Multimeter & Multiproduct Calibrator by Comparison Method	10 µA to 1 mA	0.14 % to 0.006 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Reference Multimeter by Direct Method	10 µA to 1 mA	0.14 % to 0.006 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Ushing Shunt & 6.5 Precision Multimeter by Direct Method	10 A to 500 A	0.21 % to 0.22 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Reference Multimeter by Direct Method	20 A to 30 A	0.004 % to 0.003 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Reference Multimeter by Comparison Method	20 A to 30 A	0.04 % to 0.03 %

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59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM Comparison Method	1 kV to 30 kV	0.026 kV to 0.7 kV
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM Direct Method	1 kV to 30 kV	0.026 kV to 0.7 kV
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Reference Multimeter & Multiproduct Calibrator by Comparison Method	0.1 mV to 1 mV	0.08 % to 0.05 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Reference Multimeter by Direct Method	0.1 mV to 1 mV	0.4 % to 0.065 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Reference Multimeter by Direct Method	1 mV to 100 mV	0.065 % to 0.003 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Reference Multimeter & Multiproduct Calibrator by Comparison Method	1 mV to 100 mV	0.065 % to 0.003 %

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65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Reference Multimeter & Multiproduct Calibrator by Comparison Method	100 mV to 1000 V	0.003 % to 0.001 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Reference Multimeter by Direct Method	100 mV to 1000 V	0.003 % to 0.011 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Reference Multimeter by Direct Method	0.1 ohm to 100 ohm	1.95 % to 0.0005 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Reference Multimeter by Direct Method	1 Gohm to 10 Gohm	0.04 % to 2.09 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Reference Multimeter by Direct Method	1 Mohm to 100 Mohm	0.005 % to 0.024 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Reference Multimeter by Direct Method	10 kohm to 1 Mohm	0.0008 % to 0.005 %

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71	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Reference Multimeter by Direct Method	100 Mohm to 1 Gohm	0.024 % to 0.4 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Reference Multimeter by Direct Method	100 ohm to 10 kohm	0.0002 % to 0.0008 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance 4W	Using 8½ Reference Multimeter by Direct Method	0.1 ohm to 10 kOhm	0.24 % to 0.0003 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct calibrator by Direct method	1 µA to 300 µA	0.93 % to 0.003 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct calibrator by Direct method	1 A to 20 A	0.021 % to 0.05 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct calibrator by Direct method	300 µA to 300 mA	0.003 % to 0.03 %

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77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct calibrator by Direct method	300 mA to 1 A	0.03 % to 0.021 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	Using Multiproduct Calibrator with current Coil by Direct Method	20 A to 1000 A	0.09 % to 0.054 %
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC HIGH RESISTANCE	Using HV Gigaohm Box by Direct Method	1 Gohm	4.3%
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC HIGH RESISTANCE	Using HV Gigaohm Box by Direct Method	1000 Gohm	5.2 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC HIGH RESISTANCE	Using HV Gigaohm Box by Direct Method	200 Gohm	5%
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC HIGH RESISTANCE	Using HV Gigaohm Box by Direct Method	5 Gohm	5 %

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83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct calibrator by Direct method	0.01 mV to 1 mV	1.8 % to 0.065 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct calibrator by Direct method	1 mV to 300 mV	0.04 % to 0.0006 %
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct calibrator by Direct method	30 V to 1000 V	0.002 % to 0.005 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct calibrator by Direct method	300 mV to 30 V	0.0006 % to 0.002 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct calibrator by Direct method	1 Mohm to 100 Mohm	0.007 % to 0.015 %
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct calibrator by Direct method	1 ohm to 100 ohm	0.06 % to 0.015 %

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89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct calibrator by Direct method	100 kohm to 1 Mohm	0.02 % to 0.007 %
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct calibrator by Direct method	100 Mohm to 1000 Mohm	0.024 % to 0.173 %
91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct calibrator by Direct method	100 ohm to 100 kohm	0.015 % to 0.02 %
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance 4W	Using Multiproduct calibrator by Direct method	0.1 ohm to 10 ohm	0.91 % to 0.006 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance 4W	Using Resistance Box by Direct Method	1 mohm to 1 ohm	2.78 % to 0.80 %
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance 4W	Using Multiproduct calibrator by Direct method	10 ohm to 300 kohm	0.006 % to 0.002

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95	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Impulse/Surge Voltage	Using High Voltage Probe with Digital Storage Oscilloscope by Direct Method	±1 kV to ±10 kV	1.65%
96	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Impulse/Surge(Rise time/ Fall time)	Using High Voltage Probe with Digital Storage Oscilloscope by direct method	700 nS to 700 µS	0.8%
97	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude (Deflection Factor)	Oscilloscope Calibrator Direct Method	10 mV to 100 V	1.52 % to 1.82 %
98	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth	Using Signal Generator By Direct Method	UP to 200 MHz	0.2
99	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time Base (Marker)	Oscilloscope Calibrator Direct Method	50 nSec to 1 Sec	0.67 % to 0.77 %
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	"B" Type	Using Multiproduct Calibrator by Direct Method	600 °C to 1800 °C	0.03 °C

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101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	"E" Type	Using Multiproduct Calibrator by Direct Method	-200 °C to 1000 °C	0.04 °C
102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	"J" Type	Using Multiproduct Calibrator by Direct Method	-200 °C to 1200 °C	0.03 °C
103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	"K" Type	Using Multiproduct Calibrator by Direct Method	-200 °C to 1300 °C	0.02 °C
104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	"R" Type	Using Multiproduct Calibrator by Direct Method	0 to 1700 °C	0.03 °C
105	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	"S" Type	Using Multiproduct calibrator by Direct method	0 to 1700 °C	0.03 °C
106	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	"T" Type	Using Multiproduct Calibrator by Direct Method	-200 °C to 400 °C	0.02 °C

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107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	PT-100	Using Universal Calibrator by Direct Method	-200 °C to 800 °C	0.11 °C
108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	"B" Type	Using Multiproduct Calibrator by Direct Method	600 °C to 1800 °C	0.07 °C
109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	"E" Type	Using Multiproduct Calibrator by Direct Method	-200 °C to 1000 °C	0.04 °C
110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	"J" Type	Using Multiproduct Calibrator by Direct Method	-200 °C to 1200 °C	0.04 °C
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	"K" Type	Using Multiproduct Calibrator by Direct Method	-200 °C to 1300 °C	0.04 °C
112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	"N" Type	Using Multiproduct Calibrator by Direct Method	-200 °C to 1300 °C	0.04

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113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	"R" Type	Using Multiproduct Calibrator by Direct Method	0 to 1700 °C	0.04°C
114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	"S" Type	Using Multiproduct Calibrator by Direct Method	0 to 1700 °C	0.04 °C
115	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	"T" Type	Using Multiproduct Calibrator by Direct Method	-200 °C to 400 °C	0.01 °C
116	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	PT-100	Using Multiproduct Calibrator by Direct Method	-200 °C to 800 °C	0.13 °C
117	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 8½ Reference Multimeter By Comparison Method	10 Hz to 100 MHz	0.0006 % to 0.0006 %
118	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 8½ Reference Multimeter 8588A by Direct Method	10 Hz to 100 MHz	0.0006 % to 0.0006 %

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119	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Frequency Counter By Comparison Method	100 MHz to 990 MHz	0.0006 % to 0.0003 %
120	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Frequency Counter By Direct Method	100 MHz to 990 MHz	0.0006 % to 0.0003 %
121	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Calibrator by Comparison Method	0.1 s to 60 s	0.95 % to 0.059 %
122	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Calibrator by Comparison Method	60 s to 86400 s	0.06%
123	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct Method	1 Hz to 10 Hz	0.59 % to 0.059 %
124	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Signal Generator by Direct Method	1 MHz to 990 MHz	0.003 % to 0.002 %

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125	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct calibrator by Direct method	10 Hz to 2 MHz	0.059 % to 0.048 %
126	FLUID FLOW-FLOW MEASURING DEVICES	Digital Flow Meter, Flow Switch, Water meter, Flow Transmitter & Level Transmitter etc. (Medium of calibration Water)	Using Portable Ultrasonic Flow Meter & Stop Watch by comparison method	0.8 m3/hr to 1685 m3/hr	1.59%rdg
127	MECHANICAL-ACCELERATION AND SPEED	RPM Non-Contact Type (RPM Meter, Centrifuge Machine)	Using Digital Tachometer by Direct Method	6 rpm to 10 rpm	0.64rpm
128	MECHANICAL-ACCELERATION AND SPEED	RPM Non-Contact Type (RPM Meter, Centrifuge Machine, Stroboscope, Tachometer)	Using Digital Tachometer with RPM Source by Comparison Method	10 rpm to 30 rpm	0.64rpm
129	MECHANICAL-ACCELERATION AND SPEED	RPM Non-Contact Type (RPM Meter, Centrifuge Machine, Stroboscope, Tachometer)	Using Digital Tachometer with RPM Source by Comparison Method	1000 rpm to 10000 rpm	2.85rpm
130	MECHANICAL-ACCELERATION AND SPEED	RPM Non-Contact Type (RPM Meter, Centrifuge Machine, Stroboscope, Tachometer)	Using Digital Tachometer with RPM Source by Comparison Method	10000 rpm to 40000 rpm	6.17rpm

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131	MECHANICAL-ACCELERATION AND SPEED	RPM Non-Contact Type (RPM Meter, Centrifuge Machine, Stroboscope, Tachometer)	Using Digital Tachometer with RPM Source by Direct/Comparison Method	30 rpm to 1000 rpm	1.2rpm
132	MECHANICAL-ACCELERATION AND SPEED	RPM Non-Contact Type (RPM Meter, Centrifuge Machine, Stroboscope, Tachometer)	Using Digital Tachometer with RPM Source by Direct/Comparison Method	40000 rpm to 90000 rpm	11.95rpm
133	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1kHz	Using Sound Calibrator by Direct Method	114 dB	1.2dB
134	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1kHz	Using Sound Calibrator by Direct Method	94 dB	1.4dB
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Microscope (Magnification)	Using glass scale and eye peice graticule by Comparison Method	Up to 100 X	0.9%
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Microscope / Profile Projector (Linearity) LC-0.001mm	Using Glass Scale / Gauge Blocks by Comparison Method	0 to 300 mm	3.0µm

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137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector (Angle) LC- 1 arc sec	Using Angle Gauge by Comparison Method	0 to 360 °	41arc sec
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector (Magnification)	using glass scale by Comparison Method	Up to 20 X	0.3%
139	MECHANICAL-PRESSURE INDICATING DEVICES	Absolute Pressure (Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder, Manometer, Barometer	Using Barometric Pressure Indicator & Pressure calibrator by Comparison Method DKD-R6-1	200 mbar(abs) to 1050 mbar(abs)	1.89mbar

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140	MECHANICAL-PRESSURE INDICATING DEVICES	Dig. Manometer, Magnehelic Gauge, Low Pressure Indicator, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Switch	Using Digital Manometer & Pressure calibrator by Comparison Method DKD R6-1	0 to 10000 Pa	7.5Pa
141	MECHANICAL-PRESSURE INDICATING DEVICES	Dig. Manometer, Pirani Gauge, Magnehelic Gauge, Low Pressure Indicator, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Switch	Using Digital Pressure Calibrator & Pressure calibrator by Comparison Method DKD R6-1	0 to 2000 Pa	1.28Pa

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142	MECHANICAL-PRESSURE INDICATING DEVICES	Dig. Manometer, Pirani Gauge, Magnehelic Gauge, Low Pressure Indicator,Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Switch	Using Digital Manometer & Pressure calibrator by Comparison Method DKD R6-1	-10000 Pa to 0 Pa	4.3Pa
143	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder (Hydraulic)	Using Digital Pressure Calibrator & Pressure calibrator by Comparison Method DKD R6-1	0 to 700 bar	0.12bar

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144	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder, Manometer, (Pnumatic)	Using Digital Pressure Calibrator & Pressure calibrator by Comparison Method DKD R6-1	0 to 2 bar	0.0014bar
145	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder, Manometer, Pressure Valve (Pnumatic)	Using Digital Pressure Calibrator & Calibrator by Comparison Method DKD R6-1	0 to 20 bar	0.004bar

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146	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Digital/Analog), Vacuum Transmitter, Manometer, Differential Transmitter, Pressure Calibrator, Vacuum Switch, Compound Gauge, Pressure Indicator, Pressure Recorder	Using Digital Pressure Calibrator & Calibrator by Comparison Method DKD R6-1	(-)0.99 bar to 0 bar	0.0014bar
147	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance Readability 10 g	Using E1 Class & F1 Class Standard Weights by Comparison Method	0 to 50 kg	7.6g
148	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale and Balance Readability 0.001 mg, Class-I and Coarser	Using E1 Class Standard Weights as per OIML R76	0 to 21 g	0.014mg
149	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale and Balance Readability 0.01 mg, Class-I and Coarser	Using E1 Class Standard Weights as per OIML R76	0 to 220 g	0.12mg
150	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale and Balance Readability 0.1 g Class-II and Coarser	Using E1 Class & F1 Class Standard Weights as per OIML R76	0 to 30 kg	0.14g

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151	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale and Balance Readability 1 g Class-III and coarser	Using E1 Class & F1 Class Standard Weights as per OIML R76	0 to 60 kg	1.4g
152	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale and Balance Readability 1 mg, Class-I and Coarser	Using E1 Class & F1 Class Standard Weights as per OIML R76	0 to 1 kg	1.9mg
153	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale and Balance Readability 10 mg, Class-II and Coarser	Using E1 Class & F1 Class Standard Weights as per OIML R76	0 to 6 kg	17.6mg
154	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale and Balance Readability 5 g Class-III and coarser	Using E1 Class & F1 Class Standard Weights as per OIML R76	0 to 100 kg	6.8g
155	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber, Humidity Generator, Humidity Indicator, Stability Chamber, Environment Chamber, Salt Spray Chamber, Humidifier, Dehumidifier @ 20 to 60°C	Using Temperature & Humidity Indicator Single Position Calibration by Comparison Method	10 %RH to 95 %RH	1.37 % RH

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156	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber/Environmental chamber/Humidity Indicator/Climatic Chamber/ Rooms @ 20°C to 60°C	Multiposition Calibration Using Multichannel Data Logger With RH Sensors by Comparison Method	15 %RH to 95 %RH	2.63 % RH
157	THERMAL-TEMPERATURE	Black Body Source (Emissivity-0.95)	Using Standard Infra Red Thermometer by Direct Method	>200 °C to 500 °C	2.3 °C
158	THERMAL-TEMPERATURE	Black Body Source (Emissivity-0.95)	Using Standard Infra Red Thermometer by Direct Method	50 °C to 200 °C	2.01 °C
159	THERMAL-TEMPERATURE	Freezer, Deep Freezer, Cold Chamber, Cold Room, Oven, Environment Chamber, Humidity Chamber, Incubator(For Non Medical Applications), BOD Incubator (For Non Medical Applications) Autoclave, Sterilize	Multiposition Calibration Using Multichannel Data Logger With RTD Sensors by Comparison Method	(-)80 °C to 150 °C	1.02 °C

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160	THERMAL-TEMPERATURE	IR / Non-Contact Thermometer / Pyrometer / Thermal Imager	Using Standard Infra Red Thermometer & Black Body Source (Emissivity-0.95) by Comparison Method	50 °C to 500 °C	2.3 °C
161	THERMAL-TEMPERATURE	Liquid In Glass Thermometer	Using SPRT with Super DAQ Temperature Scanner & Micro Bath By Comparison Method	-30 °C to 125 °C	0.064 °C
162	THERMAL-TEMPERATURE	Oven, Environment Chamber, Humidity Chamber, Climate chamber, Incubator(For Non Medical Applications), BOD Incubator (For Non Medical Applications) Autoclave, Sterilizer, Spatial Thermal	Multiposition Calibration Using Multichannel Data Logger With RTD Sensors by Comparison Method	>150 °C to 300 °C	3.15

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163	THERMAL-TEMPERATURE	Temp. Transmitter, RTD, Thermocouple with or without Indicator , Data logger / Recorder with sensor, Temperature Gauge, Digital Thermometer & Thermostat with sensor	Using SPRT with Super DAQ Temperature scanner, 6.5 Precision Multimeter & Dry Block Furnace By Comparison Method	>125 °C to 600 °C	0.26 °C
164	THERMAL-TEMPERATURE	Temperature Indicator of Freezer, Deep Freezer, Environment Chamber, Climate chamber, Cold Room, UV Chamber, Liquid Bath, Dry Bath, Cold Chamber, Walk in Chamber, Temperature calibrator	Using SPRT with Super DAQ Temperature scanner Single Position By Comparison Method	(-)80 °C to 600 °C	0.07 °C
165	THERMAL-TEMPERATURE	Temperature Indicator of Muffle Furnace, Dry Block Furnace, Oven (single Position)	Using "R" Type Thermocouple with Indicator by Comparison Method	>600 °C to 1200 °C	1.66 °C

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166	THERMAL-TEMPERATURE	Temperature Transmitter, RTD/Thermocouple with or without Indicator / Data logger / Recorder with sensor, Temperature Gauge, Digital Thermometer & Thermostat with sensor	Using SPRT with Super DAQ Temperature scanner, 6.5 Precision Multimeter & Liquid Bath Furnace By Comparison Method	(-)30 °C to 125 °C	0.055°C

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