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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 power single / three phase (40 V to 300 V, 0.05 A to 20 A, 0.2 lag / UPF / 0.2 lead , 50 Hz /60 Hz)	Using Power Meter by Comparison method	1.2 W to 6000 W	0.5 % to 0.2 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active power single / three phase (50 Hz / 60 Hz, 40 V to 300 V, 0.1 A to 12 A, 0.1 lag, UPF, 0.1 lead)	Using Precision AC Power Standard by Comparison method	0.4 W to 3.6 kW	0.4 % to 0.07 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Precision AC Power Standard by Direct method	0.1 A to 12 A	0.02%
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz	Using Shunts & 8½ Digital Multimeter by V/R method	20 A to 100 A	0.12 % to 0.09 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz to 1kHz	Using 8½ Digital Multimeter by Direct method	10 µA to 100 µA	0.4 % to 0.03 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz to 1kHz	Using 8½ Digital Multimeter by Direct method	10 mA to 1 A	0.02 % to 0.04 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz to 1kHz	Using 8½ Digital Multimeter by Direct method	100 µA to 10 mA	0.03 % to 0.02 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using Shunts & 8½ Digital Multimeter by V/R method	100 A to 1000 A	0.09 % to 2 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy Active single / three phase (50 Hz / 60 Hz, 40V to 300V, 0.1A to 12A, 0.1lag,UPF,0.1lead)	Using Precision AC Power Standard by Comparison method	0.002 kWh to 3.6 kWh	0.4 % to 0.05 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy reactive single / three phase (50 Hz / 60 Hz, 40 V to 300 V, 0.1 A to 20 A, 0.5 lag, UPF, 0.5 lead)	Using Precision AC Power Standard by Comparison method	0.002 kVArh to 3.6 kVArh	0.4 % to 0.05 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Divider & Digital Multimeter by Direct method	1 kV to 100 kV	3%
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz to 1 kHz)	Using 8½ Digital Multimeter by Direct method	1 mV to 10 mV	4 % to 0.07 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 8½ Digital Multimeter by Direct method	1 V to 10 V	0.02 % to 0.01 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @10 kHz	Using 8½ Digital Multimeter by Direct method	1 mV to 100 V	0.6 % to 0.012 %

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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @100 kHz	Using 8½ Digital Multimeter by Direct method	10 mV to 100 V	0.13 % to 0.1 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz	Using 7½ Digital Multimeter by Direct method	700 V to 1000 V	0.012 % to 0.08 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz to 1 kHz	Using 8½ Digital Multimeter by Direct method	10 V to 100 V	0.01 % to 0.009 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz to 1 kHz	Using 8½ Digital Multimeter by Direct method	100 mV to 1 V	0.02%
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz to 1 kHz	Using 8½ Digital Multimeter by Direct method	100 V to 700 V	0.009 % to 0.012 %

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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz to 1 kHz)	Using 8½ Digital Multimeter by Direct method	10 mV to 100 mV	0.07 % to 0.02 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using Digital LCR Meter by Direct method	1 nF to 1 mF	0.2 % to 0.4 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @1 kHz	Using Digital LCR Meter by Direct method	10 pF to 1 nF	1.4 % to 0.2 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @1 kHz	Using Digital LCR Meter by Direct method	100 µH to 10 H	1%
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power factor	Using Precision AC Power Standard by Comparison method	0.1 Lag / Lead to UPF	0.006pF

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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Resistance(4 wire) @1 kHz	Using Digital LCR Meter by Direct method	1 ohm to 10 kohm	3 % to 0.3 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct Calibrator by Direct method	1 A to 20 A	0.03 % to 0.04 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct Calibrator by Direct method	10 mA to 100 mA	0.05%
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct Calibrator by Direct method	100 µA to 10 mA	0.12 % to 0.05 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct Calibrator by Direct method	100 mA to 1 A	0.05 % to 0.03 %

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30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct Calibrator by Direct method	30 µA to 100 µA	0.24 % to 0.12 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using multi product calibrator with Current Coil by Direct method	20 A to 1000 A	0.4%
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC power (Active) Single phase (40 V to 300 V, 0.05 A to 20 A, 0.25 Lag / UPF / 0.25 Lead)	Using Multiproduct Calibrator by Comparison method	0.5 W to 6000 W	1.1%
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC power (Reactive) Single phase (40 V to 300 V, 0.05 A to 20 A, 0.25 Lag / UPF / 0.25 Lead)	Using Multiproduct Calibrator by Comparison method	0.5 VAr to 6000 VAr	1.1%
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC power (Reactive) Single phase (50 Hz, 40 V to 300 V, 0.05 A to 20 A, 0.8 lag / UPF / 0.8 lead)	Using Multiproduct Calibrator by Comparison method	1.6 VAr to 6000 VAr	0.34%
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1kHz to 10 kHz	Using Multiproduct Calibrator by Direct method	10 mV to 100 mV	0.06 % to 0.03 %

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36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz to 1kHz	Using Multiproduct Calibrator by Direct method	1 mV to 10 mV	3 % to 0.04 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz to 1kHz	Using Multiproduct Calibrator by Direct method	10 mV to 100 mV	0.04%
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz to 1kHz	Using Multiproduct Calibrator by Direct method	10 V to 100 V	0.04 % to 0.06 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz to 1kHz	Using Multiproduct Calibrator by Direct method	100 mV to 10 V	0.04%
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @1kHz to 10 kHz	Using Multiproduct Calibrator by Direct method	10 V to 100 V	0.05 % to 0.02 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @1kHz to 10 kHz	Using Multiproduct Calibrator by Direct method	100 mV to 10 V	0.03 % to 0.05 %

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42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz to 1kHz	Using Multiproduct Calibrator by Direct method	100 V to 1000 V	0.06 % to 0.03 %
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multiproduct Calibrator by Direct method	1 nF to 10 µF	2.1 % to 0.41 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1 kHz	Using Multiproduct Calibrator by Direct method	10 µF to 1 mF	0.41 % to 0.8 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @1 kHz	Using Inductance box by Direct method	1 mH to 10 H	1%
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunts and 8½ Digital Multimeter by V/R method	1 A to 20 A	0.04%
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	10 µA to 100 µA	0.1 % to 0.01 %

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48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	100 µA to 100 mA	0.01%
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunts & 8½ Digital Multimeter by V/R method	100 A to 500 A	0.06 % to 0.53 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	100 mA to 1 A	0.01 % to 0.011 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunts & 8½ Digital Multimeter by V/I method	20 A to 100 A	0.04 % to 0.06 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Divider & Digital Multimeter by Direct method	1 kV to 30 kV	2.0%
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 8½ Digital Multimeter by Direct method	1 Mohm to 10 Mohm	0.011 % to 0.006 %

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54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 8½ Digital Multimeter by Direct method	10 Mohm to 100 Mohm	0.006 % to 0.05 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 8½ Digital Multimeter by Direct method	100 Mohm to 1 Gohm	0.05 % to 0.4 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 8½ Digital Multimeter by Direct method	100 ohm to 10 kohm	0.0021 % to 0.0012 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 7½ Digital Multimeter by Direct method	1 mohm to 10 mohm	1 % to 0.04 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 8½ Digital Multimeter by Direct method	1 ohm to 10 ohm	0.014 % to 0.008 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 8½ Digital Multimeter by Direct method	10 kohm to 100 kohm	0.0012 % to 0.0016 %

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60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 7½ Digital Multimeter by Direct method	10 mohm to 100 mohm	0.08 % to 0.03 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 8½ Digital Multimeter by Direct method	10 ohm to 100 ohm	0.008 % to 0.0021 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 8½ Digital Multimeter by Direct method	100 kohm to 1 Mohm	0.0016 % to 0.011 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 8½ Digital Multimeter by Direct method	100 mohm to 1 ohm	0.018 % to 0.014 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 7½ Digital Multimeter by Direct method	0.1 mV to 1 mV	0.2 % to 0.2 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	1 mV to 10 mV	0.3 % to 0.0021 %

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66	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	10 mV to 100 mV	0.0021 % to 0.0012 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	10 V to 1000 V	0.0008 % to 0.0009 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	100 mV to 10 V	0.0012 % to 0.0008 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	1 A to 10 A	0.03 % to 0.04 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	10 µA to 100 µA	0.1 % to 0.02 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	10 A to 20 A	0.04 % to 0.09 %

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72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	10 mA to 100 mA	0.009 % to 0.013 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	100 µA to 10 mA	0.02 % to 0.009 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibration System with Current Coil by Direct method	20 A to 1000 A	1%
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Fixed value resistor (Discrete value) by Direct method	1 Gohm	1.1%
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multiproduct Calibrator by Direct method	1 Mohm to 10 Mohm	0.01 % to 0.011 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Fixed value resistor (Discrete value) by Direct method	1 Tohm	3.5%

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78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Fixed value resistor (Discrete value) by Direct method	10 Gohm	1.3%
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multiproduct Calibrator by Direct method	10 Mohm to 100 Mohm	0.011 % to 0.014 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Fixed value resistor (Discrete value) by Direct method	1 mohm	0.4%
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Fixed value resistor (Discrete value) by Direct method	1 ohm	0.07%
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Multiproduct Calibrator by Direct method	1 ohm to 10 ohm	0.1 % to 0.008 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Multiproduct Calibrator by Direct method	10 kohm to 1 Mohm	0.004 % to 0.01 %

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84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Decade Resistance box general radio by Direct method	10 kohm to 100 kohm	0.003 % to 0.006 %
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Fixed value resistor (Discrete value) by Direct method	10 mohm	0.8%
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Multiproduct Calibrator by Direct method	10 ohm to 100 ohm	0.008 % to 0.004 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Fixed value resistor (Discrete value) by Direct method	100 µohm	0.6%
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Fixed value resistor (Discrete value) by Direct method	100 Gohm	2.4%
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Fixed value resistor (Discrete value) by Direct method	100 mohm	0.06%

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90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Multiproduct Calibrator by Direct method	100 ohm to 10 kohm	0.004%
91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Decade Resistance box general radio by Direct method	100 ohm to 10 kohm	0.004 % to 0.003 %
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Fixed value resistor (Discrete value) by Direct method	200 µohm	0.6%
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Fixed value resistor (Discrete value) by Direct method	50 µohm	0.6%
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Fixed value resistor (Discrete value) by Direct method	500 µohm	0.6%
95	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Fixed value resistor (Discrete value) by Direct method	700 µohm	0.6%

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96	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	1 mV to 10 mV	0.07 % to 0.011 %
97	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	1 V to 10 V	0.007%
98	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	10 mV to 100 mV	0.011 % to 0.004 %
99	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	10 V to 1000 V	0.007 % to 0.003 %
100	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	100 mV to 1 V	0.004 % to 0.007 %
101	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Oscilloscope Amplitude	Using Universal Calibration System by Direct method	20 mV/div to 20 V/div	0.5%

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102	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude	Using Universal Calibration System by Direct method	20 mV/div to 20 V/div	0.5%
103	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth	Using Signal generator by Direct method	5 MHz to 1000 MHz	5%
104	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time	Using Universal Calibration System by Direct method	5 ns/div to 100 ms/div	0.06 % to 0.03 %
105	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K type	Using Multiproduct Calibrator by Comparison method	(-)200 °C to 1300 °C	0.3°C
106	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD type	Using Multiproduct Calibrator by Comparison method	(-)200 °C to 650 °C	0.4°C
107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E type	Using Multiproduct Calibrator by Comparison method	(-)100 °C to 500 °C	0.1°C

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108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J type	Using Multiproduct Calibrator by Comparison method	(-)100 °C to 1100 °C	0.2°C
109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R type	Using Multiproduct Calibrator by Comparison method	300 °C to 1750 °C	0.8°C
110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S type	Using Multiproduct Calibrator by Comparison method	300 °C to 1750 °C	0.8°C
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T type	Using Multiproduct Calibrator by Comparison method	-200 °C to 400 °C	0.2°C
112	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Universal Counter/Timer by Comparison method	1 kHz to 10 kHz	0.006 % to 0.0006 %
113	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter, Comparison method	1 kHz to 500 kHz	0.006 % to 0.0012 %

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114	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter, Universal counter by Comparison method	10 Hz to 1 kHz	0.007 % to 0.006 %
115	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Universal Counter/Timer by Comparison method	1 s to 24 hr	0.12 s to 20 s
116	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Signal generator by Comparison method	10 Hz to 10 kHz	0.0016 % to 0.00006 %
117	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Signal generator by Comparison method	10 kHz to 1 GHz	0.00006 % to 0.000011 %
118	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM indicator with Sensor (Non-Contact type)	Using RPM Source and Master Tachometer by Comparison method	3000 rpm to 90000 rpm	0.13%
119	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM indicator with Sensor (Non-Contact type)	Using RPM Source and Master Tachometer by Comparison method	400 rpm to 3000 rpm	0.31%

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120	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM indicator with Sensor (Non-Contact type)	Using Master Tachometer, RPM Source by Comparison method	40 rpm to 400 rpm	1.85%
121	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic gauges, Manometers (Pneumatic)	Using Digital Pressure Manometer, low pressure pump by Comparison method	0 to 2.49 kPa	0.009kPa
122	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic gauges, Manometers (Pneumatic)	Using Digital Pressure Manometer, low pressure pump by Comparison method	0 to 240 Pa	0.7Pa
123	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic gauges, Manometers (Pneumatic)	Using Digital Pressure Manometer, low pressure pump by Comparison method:	0 to 9.95 kPa	0.071kPa
124	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic gauges, Manometers (Pneumatic)	Using Digital Pressure Manometer, low pressure pump by Comparison method	0 to 995 Pa	1.7Pa
125	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge / Pressure Instruments (Hydraulic)	Using Process Calibrator / Digital Gauge, Comparison Test pump by Comparison method	0 to 100 bar	0.07bar

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126	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge / Pressure Instruments (Hydraulic)	Using Process Calibrator / Digital Gauge, Comparison Test pump by Comparison method	0 to 1000 bar	0.19bar
127	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge / Pressure Instruments (Hydraulic)	Using Process Calibrator / Digital Gauge, Comparison Test pump by Comparison method	0 to 350 bar	0.115bar
128	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge / Pressure Instruments (Hydraulic)	Using Process Calibrator / Digital Gauge,Comparison Test pump by Comparison method	0 to 700 bar	0.11bar
129	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge / Pressure Instruments (Pneumatic)	Using Process Calibrator / Digital Gauge, Hand pump by Comparison method	0 to 1.5 bar	0.001bar
130	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge / Pressure Instruments (Pneumatic)	Using Process Calibrator / Digital Gauge, Hand pump by Comparison method	0 to 40 bar	0.0084bar
131	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge / Pressure Instruments (Pneumatic)	Using Process Calibrator / Digital Gauge, Hand pump by Comparison method	0 to 6 bar	0.0016bar

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132	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauges / Vacuum Instruments	Using Process Calibrator, Comparison Test pump by Comparison method	(-)0.95 bar to 0	0.00017bar
133	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chambers / Environmental Chamber	Using Data Logger with Sensors (Minimum Nine sensor)by Multi-position Method	25 %rh to 95 %rh @ 25°C to 50°C	1.8%rh
134	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chambers/ Environmental Chamber	Using Data Logger with RTD Sensors (minimum 9 sensor)by Multi-position Method	15 °C to 95 °C @ 50%rh	1.2°C
135	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature/Humidity Sensor with Indicator of Humidity Chambers/ Environmental Chamber (Single Position)	Using Temp & RH Sensor with data logger by Comparison method	20 %rh to 95 %rh @ 25°C	1.7%rh
136	THERMAL-TEMPERATURE	Cold chamber, Deep freezer, Cool room, Refrigerator	Using Data Logger with RTD Sensors (Minimum Nine sensor)by Multi-position Method	(-)80 °C to 0°C	2.4°C

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137	THERMAL-TEMPERATURE	Indicator with Sensor of Cold Chamber / Deep freezer / Cool room / Refrigerator / Environmental Chamber (Single Position)	Using Semi standard PRT sensor, 7½ Digital Multimeter by Comparison method	(-)80 °C to 0°C	0.2°C
138	THERMAL-TEMPERATURE	Indicator with sensor of Muffle Furnace/ Oven/Dry Block (Single Position)	Using R-Type Thermocouple with cold junction, 7½ Digital Multimeter by Comparison method	250 °C to 1200 °C	2.5°C
139	THERMAL-TEMPERATURE	Indicator with Sensor of Oven / Chamber / Bath / Room / Refrigerator / Environmental Chamber (Single Position Calibration)	Using Semi standard PRT sensor , 7½ Digital Multimeter by Comparison method	0°C to 250 °C	1°C
140	THERMAL-TEMPERATURE	Liquid-in-Glass thermometer, Dial Gauge	Using Semi standard PRT sensor, 7½ Digital Multimeter, Liquid Bath by Comparison method	(-)80 °C to 35 °C	0.11°C
141	THERMAL-TEMPERATURE	Liquid-in-glass thermometer, Dial Gauge	Using Semi standard PRT sensor, 7½ Digital Multimeter, Oil Bath by Comparison method	35 °C to 250 °C	0.11°C

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142	THERMAL-TEMPERATURE	Non-Contact type Infrared Thermometers, Pyrometers	Using Infrared Thermometer (emissivity:0.95), Black body by Comparison method	25 °C to 350 °C	2.8°C
143	THERMAL-TEMPERATURE	Oven, Bath, Chamber, Room	Using RTD Sensors with data logger (minimum nine sensor) by Multi Position method	0°C to 250 °C	1.7°C
144	THERMAL-TEMPERATURE	RTD, thermocouple, thermometer with or without indicator	Using Semi standard SPRT, 7½ Digital Multimeter & Low Temperature Bath by Comparison method	(-)80 °C to 35 °C	0.11°C
145	THERMAL-TEMPERATURE	RTD, thermocouple, thermometer with or without indicator	Using Semi standard PRT sensor, 7½ Digital Multimeter & Dry block by Comparison method	250 °C to 400 °C	0.44°C
146	THERMAL-TEMPERATURE	RTD, thermocouple, thermometer with or without Indicator	Using Semi standard PRT-PT100, 7½ Digital Multimeter & Oil Bath by Comparison method	35 °C to 250 °C	0.07°C

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147	THERMAL-TEMPERATURE	Thermocouple with or without indicator	Using R-Type Thermocouple with cold junction, 7½ Digital Multimeter & Dry block by Comparison method	1000 °C to 1200 °C	2.8°C
148	THERMAL-TEMPERATURE	Thermocouple, thermometer with or without indicator	Using R-Type Thermocouple with cold junction, 7½ Digital Multimeter & Dry block by Comparison method	400 °C to 1000 °C	2.7°C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active power single / three phase (40 V to 300 V, 0.05 A to 20 A, 0.2 lag / UPF / 0.2 lead , 50 Hz /60 Hz)	Using Power Meter by Comparison method	1.2 W to 6000 W	0.5 % to 0.2 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active power single / three phase (50 Hz / 60 Hz, 40 V to 300 V, 0.1 A to 12 A, 0.1 lag, UPF, 0.1 lead)	Using Precision AC Power Standard by Comparison method	0.4 W to 3.6 kW	0.4 % to 0.07 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Precision AC Power Standard by Direct method	0.1 A to 12 A	0.02%
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz	Using Shunts & 8½ Digital Multimeter by V/R method	20 A to 100 A	0.12 % to 0.09 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz to 1kHz	Using 8½ Digital Multimeter by Direct method	10 µA to 100 µA	0.4 % to 0.03 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz to 1kHz	Using 8½ Digital Multimeter by Direct method	10 mA to 1 A	0.02 % to 0.04 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz to 1kHz	Using 8½ Digital Multimeter by Direct method	100 µA to 10 mA	0.03 % to 0.02 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using Shunts & 8½ Digital Multimeter by V/R method	100 A to 1000 A	0.09 % to 2 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy Active single / three phase (50 Hz / 60 Hz, 40V to 300V, 0.1A to 12A, 0.1lag,UPF,0.1lead)	Using Precision AC Power Standard by Comparison method	0.002 kWh to 3.6 kWh	0.4 % to 0.05 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy reactive single / three phase (50 Hz / 60 Hz, 40 V to 300 V, 0.1 A to 20 A, 0.5 lag, UPF, 0.5 lead)	Using Precision AC Power Standard by Comparison method	0.002 kVArh to 3.6 kVArh	0.4 % to 0.05 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Divider & Digital Multimeter by Direct method	1 kV to 100 kV	3%
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz to 1 kHz)	Using 8½ Digital Multimeter by Direct method	1 mV to 10 mV	4 % to 0.07 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 8½ Digital Multimeter by Direct method	1 V to 10 V	0.02 % to 0.01 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @10 kHz	Using 8½ Digital Multimeter by Direct method	1 mV to 100 V	0.6 % to 0.012 %

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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @100 kHz	Using 8½ Digital Multimeter by Direct method	10 mV to 100 V	0.13 % to 0.1 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz	Using 7½ Digital Multimeter by Direct method	700 V to 1000 V	0.012 % to 0.08 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz to 1 kHz	Using 8½ Digital Multimeter by Direct method	10 V to 100 V	0.01 % to 0.009 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz to 1 kHz	Using 8½ Digital Multimeter by Direct method	100 mV to 1 V	0.02%
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz to 1 kHz	Using 8½ Digital Multimeter by Direct method	100 V to 700 V	0.009 % to 0.012 %

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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz to 1 kHz)	Using 8½ Digital Multimeter by Direct method	10 mV to 100 mV	0.07 % to 0.02 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using Digital LCR Meter by Direct method	1 nF to 1 mF	0.2 % to 0.4 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @1 kHz	Using Digital LCR Meter by Direct method	10 pF to 1 nF	1.4 % to 0.2 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @1 kHz	Using Digital LCR Meter by Direct method	100 µH to 10 H	1%
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct Calibrator by Direct method	10 mA to 100 mA	0.05%

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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct Calibrator by Direct method	100 µA to 10 mA	0.12 % to 0.05 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct Calibrator by Direct method	100 mA to 1 A	0.05 % to 0.03 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct Calibrator by Direct method	30 µA to 100 µA	0.24 % to 0.12 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using multi product calibrator with Current Coil by Direct method	20 A to 1000 A	0.4%
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC power (Active) Single phase (40 V to 300 V, 0.05 A to 20 A, 0.25 Lag / UPF / 0.25 Lead)	Using Multiproduct Calibrator by Comparison method	0.5 W to 6000 W	1.1%
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC power (Reactive) Single phase (40 V to 300 V, 0.05 A to 20 A, 0.25 Lag / UPF / 0.25 Lead)	Using Multiproduct Calibrator by Comparison method	0.5 VAr to 6000 VAr	1.1%

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31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC power (Reactive) Single phase (50 Hz, 40 V to 300 V, 0.05 A to 20 A, 0.8 lag / UPF / 0.8 lead)	Using Multiproduct Calibrator by Comparison method	1.6 VAr to 6000 VAr	0.34%
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1kHz to 10 kHz	Using Multiproduct Calibrator by Direct method	10 mV to 100 mV	0.06 % to 0.03 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz to 1kHz	Using Multiproduct Calibrator by Direct method	1 mV to 10 mV	3 % to 0.04 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz to 1kHz	Using Multiproduct Calibrator by Direct method	10 mV to 100 mV	0.04%
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz to 1kHz	Using Multiproduct Calibrator by Direct method	10 V to 100 V	0.04 % to 0.06 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz to 1kHz	Using Multiproduct Calibrator by Direct method	100 mV to 10 V	0.04%

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37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @1kHz to 10 kHz	Using Multiproduct Calibrator by Direct method	10 V to 100 V	0.05 % to 0.02 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @1kHz to 10 kHz	Using Multiproduct Calibrator by Direct method	100 mV to 10 V	0.03 % to 0.05 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz to 1kHz	Using Multiproduct Calibrator by Direct method	100 V to 1000 V	0.06 % to 0.03 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multiproduct Calibrator by Direct method	1 nF to 10 µF	2.1 % to 0.41 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1 kHz	Using Multiproduct Calibrator by Direct method	10 µF to 1 mF	0.41 % to 0.8 %
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @1 kHz	Using Inductance box by Direct method	1 mH to 10 H	1%

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43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunts and 8½ Digital Multimeter by V/R method	1 A to 20 A	0.04%
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	10 µA to 100 µA	0.1 % to 0.01 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	100 µA to 100 mA	0.01%
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunts & 8½ Digital Multimeter by V/R method	100 A to 500 A	0.06 % to 0.53 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	100 mA to 1 A	0.01 % to 0.011 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunts & 8½ Digital Multimeter by V/I method	20 A to 100 A	0.04 % to 0.06 %

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49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Divider & Digital Multimeter by Direct method	1 kV to 30 kV	2.0%
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 8½ Digital Multimeter by Direct method	1 Mohm to 10 Mohm	0.011 % to 0.006 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 8½ Digital Multimeter by Direct method	10 Mohm to 100 Mohm	0.006 % to 0.05 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 8½ Digital Multimeter by Direct method	100 Mohm to 1 Gohm	0.05 % to 0.4 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 8½ Digital Multimeter by Direct method	100 ohm to 10 kohm	0.0021 % to 0.0012 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 7½ Digital Multimeter by Direct method	1 mohm to 10 mohm	1 % to 0.04 %

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55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 8½ Digital Multimeter by Direct method	1 ohm to 10 ohm	0.014 % to 0.008 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 8½ Digital Multimeter by Direct method	10 kohm to 100 kohm	0.0012 % to 0.0016 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 7½ Digital Multimeter by Direct method	10 mohm to 100 mohm	0.08 % to 0.03 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 8½ Digital Multimeter by Direct method	10 ohm to 100 ohm	0.008 % to 0.0021 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 8½ Digital Multimeter by Direct method	100 kohm to 1 Mohm	0.0016 % to 0.011 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 8½ Digital Multimeter by Direct method	100 mohm to 1 ohm	0.018 % to 0.014 %

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61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 7½ Digital Multimeter by Direct method	0.1 mV to 1 mV	0.2 % to 0.2 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	1 mV to 10 mV	0.3 % to 0.0021 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	10 mV to 100 mV	0.0021 % to 0.0012 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	10 V to 1000 V	0.0008 % to 0.0009 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	100 mV to 10 V	0.0012 % to 0.0008 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	1 A to 10 A	0.03 % to 0.04 %

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67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	10 µA to 100 µA	0.1 % to 0.02 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	10 A to 20 A	0.04 % to 0.09 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	10 mA to 100 mA	0.009 % to 0.013 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	100 µA to 10 mA	0.02 % to 0.009 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibration System with Current Coil by Direct method	20 A to 1000 A	1%
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Fixed value resistor (Discrete value) by Direct method	1 Gohm	1.1%

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73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multiproduct Calibrator by Direct method	1 Mohm to 10 Mohm	0.01 % to 0.011 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Fixed value resistor (Discrete value) by Direct method	1 Tohm	3.5%
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Fixed value resistor (Discrete value) by Direct method	10 Gohm	1.3%
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multiproduct Calibrator by Direct method	10 Mohm to 100 Mohm	0.011 % to 0.014 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Fixed value resistor (Discrete value) by Direct method	1 mohm	0.4%
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Fixed value resistor (Discrete value) by Direct method	1 ohm	0.07%

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79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Multiproduct Calibrator by Direct method	1 ohm to 10 ohm	0.1 % to 0.008 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Multiproduct Calibrator by Direct method	10 kohm to 1 Mohm	0.004 % to 0.01 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Decade Resistance box general radio by Direct method	10 kohm to 100 kohm	0.003 % to 0.006 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Fixed value resistor (Discrete value) by Direct method	10 mohm	0.8%
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Multiproduct Calibrator by Direct method	10 ohm to 100 ohm	0.008 % to 0.004 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Fixed value resistor (Discrete value) by Direct method	100 µohm	0.6%

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85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Fixed value resistor (Discrete value) by Direct method	100 Gohm	2.4%
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Fixed value resistor (Discrete value) by Direct method	100 mohm	0.06%
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Multiproduct Calibrator by Direct method	100 ohm to 10 kohm	0.004%
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Decade Resistance box general radio by Direct method	100 ohm to 10 kohm	0.004 % to 0.003 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Fixed value resistor (Discrete value) by Direct method	200 µohm	0.6%
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Fixed value resistor (Discrete value) by Direct method	50 µohm	0.6%

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91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Fixed value resistor (Discrete value) by Direct method	500 µohm	0.6%
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Fixed value resistor (Discrete value) by Direct method	700 µohm	0.6%
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	1 mV to 10 mV	0.07 % to 0.011 %
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	1 V to 10 V	0.007%
95	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	10 mV to 100 mV	0.011 % to 0.004 %
96	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	10 V to 1000 V	0.007 % to 0.003 %

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97	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	100 mV to 1 V	0.004 % to 0.007 %
98	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Oscilloscope Amplitude	Using Universal Calibration System by Direct method	20 mV/div to 20 V/div	0.5%
99	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude	Using Universal Calibration System by Direct method	20 mV/div to 20 V/div	0.5%
100	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth	Using Signal generator by Direct method	5 MHz to 1000 MHz	5%
101	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time	Using Universal Calibration System by Direct method	5 ns/div to 100 ms/div	0.06 % to 0.03 %
102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K type	Using Multiproduct Calibrator by Comparison method	(-)200 °C to 1300 °C	0.3°C

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103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD type	Using Multiproduct Calibrator by Comparison method	(-)200 °C to 650 °C	0.4°C
104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E type	Using Multiproduct Calibrator by Comparison method	(-)100 °C to 500 °C	0.1°C
105	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J type	Using Multiproduct Calibrator by Comparison method	(-)100 °C to 1100 °C	0.2°C
106	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R type	Using Multiproduct Calibrator by Comparison method	300 °C to 1750 °C	0.8°C
107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S type	Using Multiproduct Calibrator by Comparison method	300 °C to 1750 °C	0.8°C
108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T type	Using Multiproduct Calibrator by Comparison method	-200 °C to 400 °C	0.2°C

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109	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Universal Counter/Timer by Comparison method	1 kHz to 10 kHz	0.006 % to 0.0006 %
110	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter, Comparison method	1 kHz to 500 kHz	0.006 % to 0.0012 %
111	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter, Universal counter by Comparison method	10 Hz to 1 kHz	0.007 % to 0.006 %
112	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Universal Counter/Timer by Comparison method	1 s to 24 hr	0.12 s to 20 s
113	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Signal generator by Comparison method	10 Hz to 10 kHz	0.0016 % to 0.00006 %
114	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Signal generator by Comparison method	10 kHz to 1 GHz	0.00006 % to 0.000011 %

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115	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM indicator with Sensor (Non-Contact type)	Using RPM Source and Master Tachometer by Comparison method	3000 rpm to 90000 rpm	0.13%
116	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM indicator with Sensor (Non-Contact type)	Using RPM Source and Master Tachometer by Comparison method	400 rpm to 3000 rpm	0.31%
117	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM indicator with Sensor (Non-Contact type)	Using Master Tachometer, RPM Source by Comparison method	40 rpm to 400 rpm	1.85%
118	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic gauges, Manometers (Pneumatic)	Using Digital Pressure Manometer, low pressure pump by Comparison method	0 to 2.49 kPa	0.009kPa
119	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic gauges, Manometers (Pneumatic)	Using Digital Pressure Manometer, low pressure pump by Comparison method	0 to 240 Pa	0.7Pa
120	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic gauges, Manometers (Pneumatic)	Using Digital Pressure Manometer, low pressure pump by Comparison method:	0 to 9.95 kPa	0.071kPa

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121	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic gauges, Manometers (Pneumatic)	Using Digital Pressure Manometer, low pressure pump by Comparison method	0 to 995 Pa	1.7Pa
122	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge / Pressure Instruments (Hydraulic)	Using Process Calibrator / Digital Gauge, Comparison Test pump by Comparison method	0 to 100 bar	0.07bar
123	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge / Pressure Instruments (Hydraulic)	Using Process Calibrator / Digital Gauge, Comparison Test pump by Comparison method	0 to 1000 bar	0.19bar
124	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge / Pressure Instruments (Hydraulic)	Using Process Calibrator / Digital Gauge, Comparison Test pump by Comparison method	0 to 350 bar	0.115bar
125	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge / Pressure Instruments (Hydraulic)	Using Process Calibrator / Digital Gauge,Comparison Test pump by Comparison method	0 to 700 bar	0.11bar
126	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge / Pressure Instruments (Pneumatic)	Using Process Calibrator / Digital Gauge, Hand pump by Comparison method	0 to 1.5 bar	0.001bar

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127	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge / Pressure Instruments (Pneumatic)	Using Process Calibrator / Digital Gauge, Hand pump by Comparison method	0 to 40 bar	0.0084bar
128	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge / Pressure Instruments (Pneumatic)	Using Process Calibrator / Digital Gauge, Hand pump by Comparison method	0 to 6 bar	0.0016bar
129	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauges / Vacuum Instruments	Using Process Calibrator, Comparison Test pump by Comparison method	(-)0.95 bar to 0	0.00017bar
130	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chambers / Environmental Chamber	Using Data Logger with Sensors (Minimum Nine sensor)by Multi-position Method	25 %rh to 95 %rh @ 25°C to 50°C	1.8%rh
131	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chambers/ Environmental Chamber	Using Data Logger with RTD Sensors (minimum 9 sensor)by Multi-position Method	15 °C to 95 °C @ 50%rh	1.2°C

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132	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature/Humidity Sensor with Indicator of Humidity Chambers/ Environmental Chamber (Single Position)	Using Temp & RH Sensor with data logger by Comparison method	20 %rh to 95 %rh @ 25°C	1.7%rh
133	THERMAL-TEMPERATURE	Cold chamber, Deep freezer, Cool room, Refrigerator	Using Data Logger with RTD Sensors (Minimum Nine sensor)by Multi-position Method	(-)80 °C to 0°C	2.4°C
134	THERMAL-TEMPERATURE	Indicator with Sensor of Cold Chamber / Deep freezer / Cool room / Refrigerator / Environmental Chamber (Single Position)	Using Semi standard PRT sensor, 7½ Digital Multimeter by Comparison method	(-)80 °C to 0°C	0.2°C
135	THERMAL-TEMPERATURE	Indicator with sensor of Muffle Furnace/ Oven/Dry Block (Single Position)	Using R-Type Thermocouple with cold junction, 7½ Digital Multimeter by Comparison method	250 °C to 1200 °C	2.5°C

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136	THERMAL-TEMPERATURE	Indicator with Sensor of Oven / Chamber / Bath / Room / Refrigerator / Environmental Chamber (Single Position Calibration)	Using Semi standard PRT sensor , 7½ Digital Multimeter by Comparison method	0°C to 250 °C	1°C
137	THERMAL-TEMPERATURE	Liquid-in-Glass thermometer, Dial Gauge	Using Semi standard PRT sensor, 7½ Digital Multimeter, Liquid Bath by Comparison method	(-)80 °C to 35 °C	0.11°C
138	THERMAL-TEMPERATURE	Liquid-in-glass thermometer, Dial Gauge	Using Semi standard PRT sensor, 7½ Digital Multimeter, Oil Bath by Comparison method	35 °C to 250 °C	0.11°C
139	THERMAL-TEMPERATURE	Non-Contact type Infrared Thermometers, Pyrometers	Using Infrared Thermometer (emissivity:0.95), Black body by Comparison method	25 °C to 350 °C	2.8°C
140	THERMAL-TEMPERATURE	Oven, Bath, Chamber, Room	Using RTD Sensors with data logger (minimum nine sensor) by Multi Position method	0°C to 250 °C	1.7°C

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141	THERMAL-TEMPERATURE	RTD, thermocouple, thermometer with or without indicator	Using Semi standard SPRT, 7½ Digital Multimeter & Low Temperature Bath by Comparison method	(-)80 °C to 35 °C	0.11°C
142	THERMAL-TEMPERATURE	RTD, thermocouple, thermometer with or without indicator	Using Semi standard PRT sensor, 7½ Digital Multimeter & Dry block by Comparison method	250 °C to 400 °C	0.44°C
143	THERMAL-TEMPERATURE	RTD, thermocouple, thermometer with or without Indicator	Using Semi standard PRT-PT100, 7½ Digital Multimeter & Oil Bath by Comparison method	35 °C to 250 °C	0.07°C
144	THERMAL-TEMPERATURE	Thermocouple with or without indicator	Using R-Type Thermocouple with cold junction, 7½ Digital Multimeter & Dry block by Comparison method	1000 °C to 1200 °C	2.8°C
145	THERMAL-TEMPERATURE	Thermocouple, thermometer with or without indicator	Using R-Type Thermocouple with cold junction, 7½ Digital Multimeter & Dry block by Comparison method	400 °C to 1000 °C	2.7°C

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