National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MMA CALABS TECH LIMITED, 328, 3RD FLOOR, CHANDRALOK COMPLEX, SD ROAD, HYDERABAD, TELANGANA, 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 Current @ 50 Hz to 1 kHz	Using 6½ Digit Multimeter by Direct Method	1 A to 9.8 A	0.16 % to 0.24 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6½ Digit Multimeter by Direct Method	100 µA to 100 mA	0.3 % to 0.16 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6½ Digit Multimeter Calibrator by Direct Method	100 mA to 1 A	0.16 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 100 kHz	Using 6½ Digit Multimeter by Direct Method	100 mV to 10 V	0.76 % to 0.77 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit Multimeter by Direct Method	10 mV to 1000 V	0.55 % to 0.13 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Active Power @ 50 Hz (1P2W, UPF, 120 V to 240 V, 0.35 A to 20 A)	Using Multifunction Calibrator by Direct Method	12 W to 4.8 kW	0.12 % to 0.28 %

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 5 kHz	Using Multifunction Calibrator by Direct Method	330 mA to 1 A	0.96 % to 0.79 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator with Current Coil by Direct Method	10 A to 1000 A	0.09 % to 0.05 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multifunction Calibrator by Direct Method	3 mA to 329 mA	0.12 % to 0.1 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multifunction Calibrator by Direct Method	30 µA to 3 mA	0.8 % to 0.12 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multifunction Calibrator by Direct Method	330 mA to 10 A	0.1 % to 0.34 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 10 kHz	Using Multifunction Calibrator by Direct Method	1 mV to 300 V	0.6 % to 0.03 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 kHz to 450 kHz	Using Multifunction Calibrator by Direct Method	30 mV to 3 V	1.12 % to 0.25 %

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14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multifunction Calibrator by Direct Method	1 mV to 1000 V	0.6 % to 0.04 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multifunction Calibrator by Direct Method	1 nF to 1 µF	1.63 % to 0.48 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Standard Decade Capacitabce Box by Direct Method	1 nF to 100 µF	1.64 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using Multifunction Calibrator by Direct Method	1 µF to 100 µF	0.48 % to 0.63 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Standard Inductance Box Direct Method	10 µH to 20 µH	1.8 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Standard Inductance Box Direct Method	20 µH to 10 H	1.8 % to 1.4 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 A to 9.8 A	0.08 % to 0.2 %

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21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 mA to 1 A	0.06 % to 0.08 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 µA to 1 mA	0.05 % to 0.06 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 100 Mohm	0.012 % to 0.91 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire/4 wire)	Using 6½ Digit Multimeter by Direct Method	100 Ohm to 1 Mohm	0.16 % to 0.012 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 6½ Digit Multimeter by Direct Method	1 Ohm to 100 Ohm	0.37 % to 0.016 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 mV to 10 V	0.06 % to 0.003 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 V to 100 V	0.003 % to 0.005 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 V to 1000 V	0.005 % to 0.006 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	1 A to 10 A	0.05 % to 0.06 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	1 mA to 400 mA	0.4 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	10 µA to 329 µA	0.25 % to 0.03 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator with Current Coil by Direct method	10 A to 1000 A	0.05 % to 0.1 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	3 mA to 400 mA	0.02 % to 0.05 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	329 µA to 3 mA	0.03 % to 0.02 %

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35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	400 mA to 1 A	0.05 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multifunction Calibrator by Direct Method	1 kohm to 100 Mohm	0.06 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire) @ 1 kV	Using Decade Resistance Box by Direct Method	100 kohm to 100 Mohm	0.5 % to 1.12 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire) @ 1 kV	Using Decade Resistance Box by Direct Method	1 Gohm to 1 Tohm	5.5 % to 8.45 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire) @ 1 kV	Using Decade Resistance Box by Direct Method	1 Tohm to 10 Tohm	8.45 % to 10 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire) @ 1 kV	Using Decade Resistance Box by Direct Method	100 Mohm to 1 Gohm	1.12 % to 5.5 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Low Resistance Box by Direct Method	0.0001 Ohm	0.2 %

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42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Low Resistance Box by Direct Method	0.001 Ohm	0.2 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Low Resistance Box by Direct Method	0.01 Ohm	0.08 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Decade Resistance Box by Direct Method	0.01 Ohm to 1 Ohm	2.3 % to 0.06 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Low Resistance Box by Direct Method	1 µohm	1.1 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Multifunction Calibrator by Direct Method	10 Ohm to 1 kohm	0.06 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Low Resistance Box by Direct Method	100 µohm	0.15 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 wire)	Using Decade Resistance Box by Direct Method	1 Ohm to 100 kohm	0.06 %

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49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(4 wire)	Using Multifunction Calibrator by Direct Method	1 Ohm to 10 Ohm	0.12 % to 0.06 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	1 mV to 10 mV	0.12 % to 0.019 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	10 mV to 10 V	0.019 % to 0.002 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	10 V to 100 V	0.002 % to 0.004 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	100 V to 1000 V	0.004 % to 0.023 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using Multifunction Calibrator by Direct Method	100 Mohm to 1000 Mohm	0.06 % to 1.7 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Multifunction Calibrator by Direct Method	1 Ohm	1.29 %

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56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.3 °C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.3 °C
58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1350 °C	0.5 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.5 °C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using Multi Function Calibrator by Direct Method	0 °C to 1700 °C	0.6 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (Pt 100)	Using 6½ Digit Multimeter by Direct Method	(-) 190 °C to 800 °C	0.4 °C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using Multifunction Calibrator by Direct Method	0 °C to 1750 °C	0.6 °C

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63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.6 °C
64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.3 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1350 °C	0.5 °C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.3 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Multifunction Calibrator by Direct Method	0 °C to 1700 °C	0.7 °C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt 100)	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 800 °C	0.2 °C
69	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totaliser by Comparison Method	1 s to 3600 s	0.7 % to 0.09 %

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70	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totaliser by Comparison Method	3600 s to 86400 s	0.09 % to 0.085 %
71	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction Calibrator by Direct Method	50 Hz to 100 kHz	0.012 % to 0.006 %
72	FLUID FLOW-FLOW MEASURING DEVICES	Anemometer / Air Velocity Meter	Using Reference Anemometer and Wind Tunnel Set Up by Comparison Method	0.2 m/s to 1 m/s	0.089 m/s
73	FLUID FLOW-FLOW MEASURING DEVICES	Anemometer / Air Velocity Meter	Using Reference Anemometer and Wind Tunnel Set Up by Comparison Method	1 m/s to 10 m/s	0.21 m/s
74	FLUID FLOW-FLOW MEASURING DEVICES	Anemometer / Air Velocity Meter	Using Reference Anemometer and Wind Tunnel Set Up by Comparison Method	10 m/s to 20 m/s	0.50 m/s
75	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer and RPM Generator by Comparison method	10 rpm to 100 rpm	0.75 rpm
76	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer and RPM Generator by Comparison method	100 rpm to 1000 rpm	2.5 rpm
77	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer and RPM Generator by Comparison method	1000 rpm to 6000 rpm	4.1 rpm

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78	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer and RPM Generator by Comparison method	2 rpm to 10 rpm	0.32 rpm
79	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Digital Tachometer and RPM Generator by Comparison method	10 rpm to 100 rpm	0.95 rpm
80	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Digital Tachometer and RPM Generator by Comparison method	100 rpm to 1000 rpm	3 rpm
81	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Digital Tachometer and RPM Generator by Comparison method	1000 rpm to 30000 rpm	11.10 rpm
82	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Digital Tachometer and RPM Generator by Comparison method	2 rpm to 10 rpm	0.32 rpm
83	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Digital Tachometer and RPM Generator by Comparison method	30000 rpm to 90000 rpm	30 rpm
84	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Calibrator Direct Method	114 dB	0.55 dB
85	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Calibrator Direct Method	94 dB	0.56 dB

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86	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Pressure Gauge (Analog/Digital) Pressure Gauge, Sensor with Transducer/Transmitter with Indicator	Using Comparator and Digital Pressure Gauge, Multifunction Process Calibrator and 6½ Digital Multimeter by Comparison Method as per DKD-R-6-1	0 to 700 bar	0.082 bar
87	MECHANICAL-PRESSURE INDICATING DEVICES	Mano meter/ Differential Pressure Gague/Vacuum: Vacuum Gauge (Analog/Digital) Transducer/Transmitter with indicator	Using Digital Pressure Calibrator, Multifunction Process Calibrator and 6½ Digital Multimeter by Comparison Method as per DKD-R-6-1	(-) 700 mabr to 700 mbar	2.6 mbar
88	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Pressure Gauge (Analog/Digital) Pressure Gauge, Transducer/Transmitter with indicator	Using Comparator, Digital Pressure Gauge, Multifunction Process Calibrator and 6½ Digital Multimeter by Comparison Method as per DKD-R-6-1	(-) 0.900 bar to 0	0.0027 bar
89	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Pressure Gauge (Analog/Digital) Pressure Gauge, Transducer/Transmitter with indicator	Using Digital Pressure Calibrator, Multifunction Process Calibrator and 6½ Digital Multimeter by Comparison Method as per DKD-R-6-1	0 to 20 bar	0.0034 bar

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90	THERMAL-SPECIFIC HEAT & HUMIDITY	Hygrometer, Humidity Sensor with indicator @ 25 °C	Using Temperature & Humidity indicator with Sensor, Temperature & Humidity Generator by Comparison Method	25 %rh to 95 %rh	1.5 %rh
91	THERMAL-SPECIFIC HEAT & HUMIDITY	Hygrometer, Humidity Sensor with indicator @ 50 %rh	Using Temperature & Humidity Sensor with Temperature & Humidity Generator by Comparison Method	10 °C to 50 °C	1.06 °C
92	THERMAL-TEMPERATURE	IR Non-Contact Thermometer	Using IR Pyrometer & Black Body Source (Emissivity : 0.95) by Comparison Method	50 °C to 500 °C	2.6 °C
93	THERMAL-TEMPERATURE	IR Non-Contact Thermometer	Using IR Pyrometer & Black Body Source (Emissivity : 0.95) by Comparison Method	500 °C to 1200 °C	5.29 °C
94	THERMAL-TEMPERATURE	IR Non-Contact Thermometer (for non medical purpose only)	Using Standard IR thermometer and Blackbody Source (Emissivity : 0.95) by Comparison Method	(-) 20 °C to 50 °C	3.7 °C
95	THERMAL-TEMPERATURE	RTD/Thermocouple sensor with or without Indicator	Using Standard RTD sensor with 6½ Digital Multimeter, Dry Bath by Comparison Method	(-) 25 °C to 50 °C	0.34 °C
96	THERMAL-TEMPERATURE	RTD/Thermocouple sensor with or without Indicator	Using Standard RTD sensor with 6½ Digital Multimeter, Dry Bath by Comparison Method	50 °C to 400 °C	0.67 °C

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97	THERMAL-TEMPERATURE	Temperature indicator with sensor of Dry Bath, Liquid Bath - Single Position Calibration	Using Standard RTD sensor with 6½ Digital Multimeter by Comparison Method	(-) 25 °C to 50 °C	0.29 °C
98	THERMAL-TEMPERATURE	Temperature indicator with sensor of Liquid Bath, Dry Bath - Single Position Calibration	Using Standard RTD sensor with Digital Multimeter (at specified location) by Comparison Method	(-) 25 °C to 50 °C	0.59 °C
99	THERMAL-TEMPERATURE	Temperature indicator with sensor of Liquid Bath, Dry Bath - Single Position Calibration	Using Standard RTD sensor with 6½ Digital Multi Meter by Comparison Method	50 °C to 400 °C	0.67 °C

SCOPE OF ACCREDITATION

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6½ Digit Multimeter by Direct Method	1 A to 9.8 A	0.16 % to 0.24 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6½ Digit Multimeter by Direct Method	100 µA to 100 mA	0.3 % to 0.16 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6½ Digit Multimeter Calibrator by Direct Method	100 mA to 1 A	0.16 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 100 kHz	Using 6½ Digit Multimeter by Direct Method	100 mV to 10 V	0.76 % to 0.77 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit Multimeter by Direct Method	10 mV to 1000 V	0.55 % to 0.13 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Active Power @ 50 Hz (1P2W, UPF, 120 V to 240 V, 0.35 A to 20 A)	Using Multifunction Calibrator by Direct Method	12 W to 4.8 kW	0.12 % to 0.28 %

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 5 kHz	Using Multifunction Calibrator by Direct Method	330 mA to 1 A	0.96 % to 0.79 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator with Current Coil by Direct Method	10 A to 1000 A	0.09 % to 0.05 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multifunction Calibrator by Direct Method	3 mA to 329 mA	0.12 % to 0.1 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multifunction Calibrator by Direct Method	30 µA to 3 mA	0.8 % to 0.12 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multifunction Calibrator by Direct Method	330 mA to 10 A	0.1 % to 0.34 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 10 kHz	Using Multifunction Calibrator by Direct Method	1 mV to 300 V	0.6 % to 0.03 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 kHz to 450 kHz	Using Multifunction Calibrator by Direct Method	30 mV to 3 V	1.12 % to 0.25 %

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14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multifunction Calibrator by Direct Method	1 mV to 1000 V	0.6 % to 0.04 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 A to 9.8 A	0.08 % to 0.2 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 mA to 1 A	0.06 % to 0.08 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 µA to 1 mA	0.05 % to 0.06 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 100 Mohm	0.012 % to 0.91 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire/4 wire)	Using 6½ Digit Multimeter by Direct Method	100 Ohm to 1 Mohm	0.16 % to 0.012 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 6½ Digit Multimeter by Direct Method	1 Ohm to 100 Ohm	0.37 % to 0.016 %

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21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 mV to 10 V	0.06 % to 0.003 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 V to 100 V	0.003 % to 0.005 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 V to 1000 V	0.005 % to 0.006 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	1 A to 10 A	0.05 % to 0.06 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	1 mA to 400 mA	0.4 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	10 µA to 329 µA	0.25 % to 0.03 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator with Current Coil by Direct method	10 A to 1000 A	0.05 % to 0.1 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	3 mA to 400 mA	0.02 % to 0.05 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	329 µA to 3 mA	0.03 % to 0.02 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	400 mA to 1 A	0.05 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multifunction Calibrator by Direct Method	1 kohm to 100 Mohm	0.06 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire) @ 1 kV	Using Decade Resistance Box by Direct Method	100 kohm to 100 Mohm	0.5 % to 1.12 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire) @ 1 kV	Using Decade Resistance Box by Direct Method	1 Gohm to 1 Tohm	5.5 % to 8.45 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire) @ 1 kV	Using Decade Resistance Box by Direct Method	1 Tohm to 10 Tohm	8.45 % to 10 %

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35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire) @ 1 kV	Using Decade Resistance Box by Direct Method	100 Mohm to 1 Gohm	1.12 % to 5.5 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Low Resistance Box by Direct Method	0.0001 Ohm	0.2 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Low Resistance Box by Direct Method	0.001 Ohm	0.2 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Low Resistance Box by Direct Method	0.01 Ohm	0.08 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Decade Resistance Box by Direct Method	0.01 Ohm to 1 Ohm	2.3 % to 0.06 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Low Resistance Box by Direct Method	1 µohm	1.1 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Multifunction Calibrator by Direct Method	10 Ohm to 1 kohm	0.06 %

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42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Low Resistance Box by Direct Method	100 µohm	0.15 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 wire)	Using Decade Resistance Box by Direct Method	1 Ohm to 100 kohm	0.06 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(4 wire)	Using Multifunction Calibrator by Direct Method	1 Ohm to 10 Ohm	0.12 % to 0.06 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	1 mV to 10 mV	0.12 % to 0.019 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	10 mV to 10 V	0.019 % to 0.002 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	10 V to 100 V	0.002 % to 0.004 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	100 V to 1000 V	0.004 % to 0.023 %

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49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using Multifunction Calibrator by Direct Method	100 Mohm to 1000 Mohm	0.06 % to 1.7 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Multifunction Calibrator by Direct Method	1 Ohm	1.29 %
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E type Thermocouple	Using Process Calibrator by Direct Method	(-) 190 °C to 950 °C	1.94 °C
52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using Process Calibrator by Direct Method	(-) 190 °C to 1200 °C	1.41 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using Process Calibrator by Direct Method	(-) 190 °C to 1350 °C	1.48 °C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using Process Calibrator by Direct Method	(-) 190 °C to 1200 °C	1.94 °C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using Process Calibrator by Direct Method	0 °C to 1300 °C	2.94 °C

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56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (Pt 100)	Using Process Calibrator by Direct Method	(-) 200 °C to 790 °C	0.66 °C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using Process Calibrator by Direct Method	100 °C to 1300 °C	2.94 °C
58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using Process Calibrator by Direct Method	(-) 190 °C to 950 °C	1.4 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using Process Calibrator by Direct Method	(-) 190 °C to 1200 °C	1.42 °C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Process Calibrator by Direct Method	(-) 190 °C to 1340 °C	1.60 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using Process Calibrator by Direct Method	(-) 190 °C to 1200 °C	1.94 °C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Process Calibrator by Direct Method	0 °C to 1300 °C	3.03 °C

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63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt 100)	Using Process Calibrator by Direct Method	(-) 200 °C to 790 °C	0.88 °C
64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using Process Calibrator by Direct Method	0 °C to 1300 °C	3.03 °C
65	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totaliser by Comparison Method	1 s to 3600 s	0.7 % to 0.09 %
66	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totaliser by Comparison Method	3600 s to 86400 s	0.09 % to 0.085 %
67	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction Calibrator by Direct Method	50 Hz to 100 kHz	0.012 % to 0.006 %
68	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Pressure Gauge (Analog/Digital) Pressure Gauge, Sensor with Transducer/Transmitter with Indicator	Using Comparator and Digital Pressure Gauge, Multifunction Process Calibrator and 6½ Digital Multimeter by Comparison Method as per DKD-R-6-1	0 to 700 bar	0.082 bar

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69	MECHANICAL-PRESSURE INDICATING DEVICES	Mano meter/ Differential Pressure Gague/Vacuum: Vacuum Gauge (Analog/Digital) Transducer/Transmitter with indicator	Using Digital Pressure Calibrator, Multifunction Process Calibrator and 6½ Digital Multimeter by Comparison Method as per DKD-R-6-1	(-) 700 mabr to 700 mbar	2.6 mbar
70	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Pressure Gauge (Analog/Digital) Pressure Gauge, Transducer/Transmitter with indicator	Using Comparator, Digital Pressure Gauge, Multifunction Process Calibrator and 6½ Digital Multimeter by Comparison Method as per DKD-R-6-1	(-) 0.900 bar to 0	0.0027 bar
71	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Pressure Gauge (Analog/Digital) Pressure Gauge, Transducer/Transmitter with indicator	Using Digital Pressure Calibrator, Multifunction Process Calibrator and 6½ Digital Multimeter by Comparison Method as per DKD-R-6-1	0 to 20 bar	0.0034 bar
72	THERMAL-TEMPERATURE	RTD/Thermocouple sensor with or without Indicator	Using Standard RTD sensor with 6½ Digital Multimeter, Dry Bath by Comparison Method	(-) 25 °C to 50 °C	0.34 °C
73	THERMAL-TEMPERATURE	RTD/Thermocouple sensor with or without Indicator	Using Standard RTD sensor with 6½ Digital Multimeter, Dry Bath by Comparison Method	50 °C to 400 °C	0.67 °C
74	THERMAL-TEMPERATURE	Temperature indicator with sensor of Oven - Single Position Calibration	Using Standard RTD sensor with Indicator by Comparison Method	25 °C to 300 °C	0.63 °C

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75	THERMAL-TEMPERATURE	Temperature indicator with sensor of Dry Bath, Liquid Bath - Single Position Calibration	Using Standard RTD sensor with 6½ Digital Multimeter by Comparison Method	(-) 25 °C to 50 °C	0.29 °C
76	THERMAL-TEMPERATURE	Temperature indicator with sensor of Freezer, Refrigerator - Single Position Calibration	Using Standard RTD sensor with Indicator by Comparison Method	(-) 25 °C to 50 °C	0.63 °C
77	THERMAL-TEMPERATURE	Temperature indicator with sensor of Liquid Bath, Dry Bath - Single Position Calibration	Using Standard RTD sensor with Digital Multimeter (at specified location) by Comparison Method	(-) 25 °C to 50 °C	0.59 °C
78	THERMAL-TEMPERATURE	Temperature indicator with sensor of Liquid Bath, Dry Bath - Single Position Calibration	Using Standard RTD sensor with 6½ Digital Multi Meter by Comparison Method	50 °C to 400 °C	0.67 °C

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