



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	AVIATECH ENTERPRISES PRIVATE LIMITED, D3-24, SANCOALE INDUSTRIAL ESTATE, ZUARI NAGAR, SANCOALE, SOUTH GOA, GOA, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	CC-3273	<b>Page No</b>	1 of 24
<b>Validity</b>	25/08/2021 to 24/08/2023	<b>Last Amended on</b>	28/02/2023

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 DMM by Direct method	1 A to 3 A	0.61 % to 0.56 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC CURRENT (50 Hz to 1 kHz)	Using 6½ Digit DMM by Direct method	100 µA to 1 A	0.37 % to 0.61 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC CURRENT (50 Hz to 1 kHz)	Using 6½ Digit DMM by Direct method	3 A to 10 A	0.56 % to 0.3 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC VOLTAGE (50 Hz)	Using 6½ Digit DMM by Direct method	10 mV to 100 mV	0.8 % to 0.2 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC VOLTAGE (50 Hz)	Using 6½ Digit DMM by Direct method	100 mV to 100 V	0.2 % to 0.11 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC VOLTAGE (50 Hz)	Using 6½ Digit DMM by Direct method	100 V to 900 V	0.11 % to 0.22 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC CURRENT (50 Hz to 1 kHz)	Using Multiproduct Calibrator by Direct method	1 mA to 100 mA	1.17 % to 0.5 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC CURRENT (50 Hz to 1 kHz)	Using Multi Product Calibrator & Current Coil by Direct method	10 A to 18 A	0.79 % to 1.93 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC CURRENT (50 Hz to 1 kHz)	Using Multi Product Calibrator by Direct Method	100 µA to 1 mA	4.13 % to 1.17 %



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10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC CURRENT (50 Hz to 1 kHz)	Using Multi Product Calibrator by Direct method	100 mA to 10 A	0.5 % to 0.79 %
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC CURRENT (50 Hz)	Using Multiproduct Calibrator & Current Coil by Direct method	20 A to 1000 A	4.64%
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC VOLTAGE (50 Hz to 1 kHz)	Using Multi Product Calibrator by Direct method	10 mV to 100 mV	1.27 % to 0.25 %
13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC VOLTAGE (50 Hz to 1 kHz)	Using Multi Product Calibrator by Direct method	10 V to 1000 V	0.34 % to 0.25 %
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC VOLTAGE (50 Hz to 1 kHz)	Using Multi Product Calibrator by Direct method	100 mV to 10 V	0.25 % to 0.34 %
15	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC CURRENT	Using 6½ Digit DMM by Direct method	100 µA to 100 mA	0.2 % to 0.16 %





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16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC CURRENT	Using 6½ Digit DMM by Direct method	100 mA to 3 A	0.16 % to 0.4 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC CURRENT	Using 6½ Digit DMM by Direct method	3 A to 9 A	0.4 % to 0.5 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 6½ Digit DMM by Direct method	1 mV to 10 mV	0.47 % to 0.05 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 6½ Digit DMM by Direct method	1 V to 1000 V	0.014 % to 0.066 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 6½ Digit DMM by Direct method	10 mV to 100 mV	0.05 % to 0.01 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 6½ Digit DMM by Direct method	100 mV to 1 V	0.01 % to 0.014 %



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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	RESISTANCE	Using 6½ Digit DMM by Direct method	10 kohm to 10 Mohm	0.013 % to 0.076 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	RESISTANCE	Using 6½ Digit DMM by Direct method	10 Mohm to 100 Mohm	0.076 % to 0.94 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	RESISTANCE	Using 6½ Digit DMM by Direct method	100 ohm to 10 kohm	0.02 % to 0.013 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multiproduct Calibrator by Direct method	1 A to 10 A	0.66 % to 0.33 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multi Product Calibrator by Direct method	10 µA to 100 µA	1.37 % to 0.21 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multi Product Calibrator by Direct method	10 A to 20 A	0.33 % to 0.61 %



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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multi Product Calibrator by Direct method	100 $\mu$ A to 100 mA	0.21 % to 0.2 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multi Product Calibrator by Direct method	100 mA to 1 A	0.2 % to 0.66 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multi Product Calibrator & Current Coil by Direct method	20 A to 1000 A	2.95%
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Using Multi Product Calibrator by Direct method	1 mV to 10 mV	1.31 % to 0.15 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Using Multi Product Calibrator by Direct method	1 V to 1000 V	0.015 % to 0.016 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Using Multi Product Calibrator by Direct method	10 mV to 100 mV	0.15 % to 0.03 %





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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Using Multi Product Calibrator by Direct method	100 mV to 1 V	0.03 % to 0.015 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	RESISTANCE (2W & 4W)	Using Multi Product Calibrator by Direct method	1 Mohm	0.072%
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	RESISTANCE (2W & 4W)	Using Multi Product Calibrator by Direct method	1 ohm (4 Wire)	1.16%
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	RESISTANCE (2W & 4W)	Using Multi Product Calibrator by Direct method	1 kohm (4 Wire)	0.052%
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	RESISTANCE (2W & 4W)	Using Multi Product Calibrator by Direct method	10 kohm (4 wire)	0.052%
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	RESISTANCE (2W & 4W)	Using Multi Product Calibrator by Direct method	10 Mohm	0.12%



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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	RESISTANCE (2W & 4W)	Using Multi Product Calibrator by Direct method	10 ohm (4 Wire)	0.21%
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	RESISTANCE (2W & 4W)	Using Multi Product Calibrator by Direct method	100 kohm	0.052%
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	RESISTANCE (2W & 4W)	Using Multi Product Calibrator by Direct method	100 Mohm	0.63%
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	RESISTANCE (2W & 4W)	Using Multi Product Calibrator by Direct method	100 ohm (4 Wire)	0.06%
44	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	OSCILLOSCOPE AMPLITUDE (@ 1kHz)	Using Multi Product with Scope Calibrator by Direct method	10 mVpp to 50 Vpp	3 % to 2 %
45	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	OSCILLOSCOPE AMPLITUDE (DC)	Using Multi Product with Scope Calibrator by Direct method	10 mV to 25 V	3 % to 1.2 %





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46	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	OSCILLOSCOPE TIMEBASE	Using Multi Product with Scope Calibrator by Direct method	10 ns to 5 s	1 % to 2 %
47	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	FREQUENCY	Using Frequency Counter by Direct method	10 kHz to 15 GHz	0.0002 % to 0.004 %
48	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF POWER (10 MHz to 4 GHz)	Using RF Power Meter with Sensor by Direct method	-20 dBm to 13 dBm	9%
49	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	FREQUENCY	Using RF Signal Generator by Direct method	10 kHz to 4 GHz	0.00001 % to 0.00015 %
50	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF Frequency	Using RF Signal Generator by Direct method	10 GHz to 15 GHz	0.00018 % to 0.00020 %



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51	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF Frequency	Using RF Signal Generator by Direct method	4 GHz to 10 GHz	0.00015 % to 0.00018 %
52	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF POWER (10 MHz to 4 GHz)	Using RF Signal Generator by Direct method	-37 dBm to 13 dBm	10 % to 15.37 %
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	THERMOCOUPLE (J TYPE)	Using 6½ Digit DMM by Direct method	-200 °C to 760 °C	0.7°C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	THERMOCOUPLE (K TYPE)	Using 6½ Digit DMM by Direct method	-200 °C to 1370 °C	0.7°C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	THERMOCOUPLE (T TYPE)	Using 6½ Digit DMM by Direct method	-200 °C to 400 °C	0.7°C



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56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	THERMOCOUPLE (J TYPE)	Using Multi Function Calibrator by Direct method	-200 °C to 760 °C	1.2°C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	THERMOCOUPLE (K TYPE)	Using Multi Function Calibrator by Direct method	-100 °C to 1000 °C	1.2°C
58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	THERMOCOUPLE (T TYPE)	Using Multi Function Calibrator by Direct method	-200 °C to 400 °C	1.37°C
59	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	OSCILLOSCOPE (BANDWIDTH)	Using Multi Product with Scope Calibrator by Direct method	200 MHz	6%
60	MECHANICAL-PRESSURE INDICATING DEVICES	ABSOLUTE PRESSURE DIGITAL / DIAL PRESSURE GAUGE	Using Pneumatic / Vacuum Comparator with Vacuum Pump, Air Compressor and Digital Pressure Indicator with built in Sensor based on DKD-R6-1	0.14 bar(a) to 2 bar(a)	0.0006bar(a)





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61	MECHANICAL-PRESSURE INDICATING DEVICES	HYDRAULIC PRESSURE DIGITAL / DIAL PRESSURE GAUGE	Using Hydraulic Comparator with Hydraulic Pump and Digital Pressure Indicator with built in Sensor based on DKDR6-1	0 bar to 600 bar	0.085bar
62	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Digital / Dial Pressure Gauge	Using Pneumatic / Vacuum Comparator with Vacuum Pump, Air Compressor and Digital Pressure Indicator with built in Sensor based on DKD-R6-1	0 bar to 0.95 bar	0.0041bar
63	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Digital / Dial Pressure Gauge / Vacuum Gauges	Using Pneumatic / Vacuum Comparator with Vacuum Pump, Air Compressor and Digital Pressure Indicator with built in Sensor based on DKD-R6-1	-0.85 bar to 0 bar	0.0009bar



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC CURRENT (50 Hz to 1 kHz)	Using 6½ Digit DMM by Direct method	1 A to 3 A	0.61 % to 0.56 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC CURRENT (50 Hz to 1 kHz)	Using 6½ Digit DMM by Direct method	100 µA to 1 A	0.37 % to 0.61 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC CURRENT (50 Hz to 1 kHz)	Using 6½ Digit DMM by Direct method	3 A to 10 A	0.56 % to 0.3 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC VOLTAGE (50 Hz)	Using 6½ Digit DMM by Direct method	10 mV to 100 mV	0.8 % to 0.2 %



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5	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC VOLTAGE (50 Hz)	Using 6½ Digit DMM by Direct method	100 mV to 100 V	0.2 % to 0.11 %
6	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC VOLTAGE (50 Hz)	Using 6½ Digit DMM by Direct method	100 V to 900 V	0.11 % to 0.22 %
7	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC CURRENT (50 Hz to 1 kHz)	Using Multiproduct Calibrator by Direct method	1 mA to 100 mA	1.17 % to 0.5 %
8	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC CURRENT (50 Hz to 1 kHz)	Using Multi Product Calibrator & Current Coil by Direct method	10 A to 18 A	0.79 % to 1.93 %
9	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC CURRENT (50 Hz to 1 kHz)	Using Multi Product Calibrator by Direct Method	100 µA to 1 mA	4.13 % to 1.17 %





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10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC CURRENT (50 Hz to 1 kHz)	Using Multi Product Calibrator by Direct method	100 mA to 10 A	0.5 % to 0.79 %
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC CURRENT (50 Hz)	Using Multiproduct Calibrator & Current Coil by Direct method	20 A to 1000 A	4.64%
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC VOLTAGE (50 Hz to 1 kHz)	Using Multi Product Calibrator by Direct method	10 mV to 100 mV	1.27 % to 0.25 %
13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC VOLTAGE (50 Hz to 1 kHz)	Using Multi Product Calibrator by Direct method	10 V to 1000 V	0.34 % to 0.25 %
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC VOLTAGE (50 Hz to 1 kHz)	Using Multi Product Calibrator by Direct method	100 mV to 10 V	0.25 % to 0.34 %
15	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC CURRENT	Using 6½ Digit DMM by Direct method	100 µA to 100 mA	0.2 % to 0.16 %



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16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC CURRENT	Using 6½ Digit DMM by Direct method	100 mA to 3 A	0.16 % to 0.4 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC CURRENT	Using 6½ Digit DMM by Direct method	3 A to 9 A	0.4 % to 0.5 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 6½ Digit DMM by Direct method	1 mV to 10 mV	0.47 % to 0.05 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 6½ Digit DMM by Direct method	1 V to 1000 V	0.014 % to 0.066 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 6½ Digit DMM by Direct method	10 mV to 100 mV	0.05 % to 0.01 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 6½ Digit DMM by Direct method	100 mV to 1 V	0.01 % to 0.014 %



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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	RESISTANCE	Using 6½ Digit DMM by Direct method	10 kohm to 10 Mohm	0.013 % to 0.076 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	RESISTANCE	Using 6½ Digit DMM by Direct method	10 Mohm to 100 Mohm	0.076 % to 0.94 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	RESISTANCE	Using 6½ Digit DMM by Direct method	100 ohm to 10 kohm	0.02 % to 0.013 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multiproduct Calibrator by Direct method	1 A to 10 A	0.66 % to 0.33 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multi Product Calibrator by Direct method	10 µA to 100 µA	1.37 % to 0.21 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multi Product Calibrator by Direct method	10 A to 20 A	0.33 % to 0.61 %





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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multi Product Calibrator by Direct method	100 $\mu$ A to 100 mA	0.21 % to 0.2 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multi Product Calibrator by Direct method	100 mA to 1 A	0.2 % to 0.66 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multi Product Calibrator & Current Coil by Direct method	20 A to 1000 A	2.95%
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Using Multi Product Calibrator by Direct method	1 mV to 10 mV	1.31 % to 0.15 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Using Multi Product Calibrator by Direct method	1 V to 1000 V	0.015 % to 0.016 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Using Multi Product Calibrator by Direct method	10 mV to 100 mV	0.15 % to 0.03 %



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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Using Multi Product Calibrator by Direct method	100 mV to 1 V	0.03 % to 0.015 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	RESISTANCE (2W & 4W)	Using Multi Product Calibrator by Direct method	1 Mohm	0.072%
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	RESISTANCE (2W & 4W)	Using Multi Product Calibrator by Direct method	1 ohm (4 Wire)	1.16%
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	RESISTANCE (2W & 4W)	Using Multi Product Calibrator by Direct method	1 kohm (4 Wire)	0.052%
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	RESISTANCE (2W & 4W)	Using Multi Product Calibrator by Direct method	10 kohm (4 wire)	0.052%
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	RESISTANCE (2W & 4W)	Using Multi Product Calibrator by Direct method	10 Mohm	0.12%



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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	RESISTANCE (2W & 4W)	Using Multi Product Calibrator by Direct method	10 ohm (4 Wire)	0.21%
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	RESISTANCE (2W & 4W)	Using Multi Product Calibrator by Direct method	100 kohm	0.052%
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	RESISTANCE (2W & 4W)	Using Multi Product Calibrator by Direct method	100 Mohm	0.63%
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	RESISTANCE (2W & 4W)	Using Multi Product Calibrator by Direct method	100 ohm (4 Wire)	0.06%
44	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	OSCILLOSCOPE AMPLITUDE (@ 1kHz)	Using Multi Product with Scope Calibrator by Direct method	10 mVpp to 50 Vpp	3 % to 2 %
45	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	OSCILLOSCOPE AMPLITUDE (DC)	Using Multi Product with Scope Calibrator by Direct method	10 mV to 25 V	3 % to 1.2 %





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46	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	OSCILLOSCOPE TIMEBASE	Using Multi Product with Scope Calibrator by Direct method	10 ns to 5 s	1 % to 2 %
47	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	FREQUENCY	Using Frequency Counter by Direct method	10 kHz to 15 GHz	0.0002 % to 0.004 %
48	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	FREQUENCY	Using RF Signal Generator by Direct method	10 kHz to 4 GHz	0.00001 % to 0.00015 %
49	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF Frequency	Using RF Signal Generator by Direct method	10 GHz to 15 GHz	0.00018 % to 0.00020 %
50	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF Frequency	Using RF Signal Generator by Direct method	4 GHz to 10 GHz	0.00015 % to 0.00018 %



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51	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF POWER (10 MHz to 4 GHz)	Using RF Signal Generator by Direct method	-37 dBm to 13 dBm	10 % to 15.37 %
52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	THERMOCOUPLE (J TYPE)	Using 6½ Digit DMM by Direct method	-200 °C to 760 °C	0.7°C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	THERMOCOUPLE (K TYPE)	Using 6½ Digit DMM by Direct method	-200 °C to 1370 °C	0.7°C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	THERMOCOUPLE (T TYPE)	Using 6½ Digit DMM by Direct method	-200 °C to 400 °C	0.7°C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	THERMOCOUPLE (J TYPE)	Using Multi Function Calibrator by Direct method	-200 °C to 760 °C	1.2°C



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56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	THERMOCOUPLE (K TYPE)	Using Multi Function Calibrator by Direct method	-100 °C to 1000 °C	1.2°C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	THERMOCOUPLE (T TYPE)	Using Multi Function Calibrator by Direct method	-200 °C to 400 °C	1.37°C
58	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	OSCILLOSCOPE (BANDWIDTH)	Using Multi Product with Scope Calibrator by Direct method	200 MHz	6%
59	MECHANICAL-PRESSURE INDICATING DEVICES	ABSOLUTE PRESSURE DIGITAL / DIAL PRESSURE GAUGE	Using Pneumatic / Vacuum Comparator with Vacuum Pump, Air Compressor and Digital Pressure Indicator with built in Sensor based on DKD-R6-1	0.14 bar(a) to 2 bar(a)	0.0006bar(a)
60	MECHANICAL-PRESSURE INDICATING DEVICES	HYDRAULIC PRESSURE DIGITAL / DIAL PRESSURE GAUGE	Using Hydraulic Comparator with Hydraulic Pump and Digital Pressure Indicator with built in Sensor based on DKDR6-1	0 bar to 600 bar	0.085bar





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61	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Digital / Dial Pressure Gauge	Using Pneumatic / Vacuum Comparator with Vacuum Pump, Air Compressor and Digital Pressure Indicator with built in Sensor based on DKD-R6-1	0 bar to 0.95 bar	0.0041bar
62	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Digital / Dial Pressure Gauge / Vacuum Gauges	Using Pneumatic / Vacuum Comparator with Vacuum Pump, Air Compressor and Digital Pressure Indicator with built in Sensor based on DKD-R6-1	-0.85 bar to 0 bar	0.0009bar

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