



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ACCUTECH CALIBRATION & INSTRUMENT SOLUTION, A-31, SAGAR COMPLEX,
NASHIK PHATA, KASARWADI, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3009 **Page No** 1 of 28

Validity 01/07/2022 to 30/06/2024 **Last Amended on** 07/09/2022

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	Using 6 ½ Precision Multimeter By Direct Method	0.4 A to 10 A	0.24 % to 0.25 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6 ½ Precision Multimeter By Direct Method	1 mA to 400 mA	0.20 % to 0.24 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current @ 50 Hz	Using 6 ½ Digit Multimeter by Direct Method	10 A to 500 A	2.75 % to 1.31 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using 6 ½ Digit Multimeter By Direct Method	1 kV to 40 kV	2.51 % to 2.88 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Precision Multimeter By Direct Method	0.1 V to 10 V	0.42 % to 0.12 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Precision Multimeter By Direct Method	1 mV to 100 mV	4.79 % to 0.12 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Precision Multimeter By Direct Method	10 V to 100 V	0.12%
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Precision Multimeter By Direct Method	100 V to 1000 V	0.12 % to 0.10 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator By Direct Method	0.2 A to 20 A	0.80 % to 0.16 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator By Direct Method	1 mA to 200 mA	1.47 % to 0.80 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator And Current coil By Direct Method	20 A to 1000 A	0.79 % to 0.78 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator By Direct Method	0.2 V to 10 V	0.54 % to 0.13 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator By Direct Method	10 V to 1000 V	0.13%
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator By Direct Method	5 mV to 200 mV	2.92 % to 0.54 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box By Direct Method	10 pF to 10 μF	1.16%



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16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box By Direct Method	100 µH to 10 H	1.18 % to 1.16 %
17	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance @ 1 kHz	Using Decade Low Resistance Box By Direct Method	1 mohm to 1000 ohm	5.77 % to 0.12 %
18	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Precision Multimeter By Direct Method	0.4 A to 10 A	0.12 % to 0.19 %
19	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Precision Multimeter By Direct Method	1 mA to 400 mA	0.09 % to 0.12 %
20	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC High Current	Using 6 ½ Digit Multimeter by Direct Method	10 A to 500 A	2.75 % to 1.25 %
21	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC High Voltage	Using 6 ½ Digit Multimeter By Direct Method	1 kV to 40 kV	1.73 % to 2.31 %



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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire) Discrete	Using Universal Calibrator & 6 ½ Digit Multimeter	1 mohm	0.65%
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire) Discrete	Using Universal Calibrator & 6 ½ Digit Multimeter	10 µohm	0.60%
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire) Discrete	Using Universal Calibrator & 6 ½ Digit Multimeter	10 mohm	0.09%
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire) Discrete	Using Universal Calibrator & 6 ½ Digit Multimeter	100 µohm	0.05%
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire) Discrete	Using Universal Calibrator & 6 ½ Digit Multimeter	100 mohm	0.01%
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire) Discrete	Using Universal Calibrator & 6 ½ Digit Multimeter	1000 mohm	0.01%



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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire) Discrete	Using Universal Calibrator & 6 ½ Digit Multimeter	50 µohm	0.10%
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Precision Multimeter By Direct Method	0.1 V to 10 V	0.06 % to 0.004 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Precision Multimeter By Direct Method	1 mV to 100 mV	0.42 % to 0.01 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Precision Multimeter By Direct Method	10 V to 100 V	0.004 % to 0.005 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Precision Multimeter By Direct Method	100 V to 1000 V	0.005 % to 0.005 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Precision Multimeter By Direct Method	1 Ohm to 100 kOhm	0.36 % to 0.01 %



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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Precision Multimeter By Direct Method	100 kOhm to 100 Mohm	0.01 % to 0.94 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Precision Multimeter By Direct Method	100 Mohm to 1 Gohm	0.94 % to 3.23 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator By Direct Method	0.2 A to 20 A	1.00 % to 0.11 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator By Direct Method	1 mA to 20 mA	0.76 % to 0.19 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator And Current coil By Direct Method	20 A to 1000 A	0.88 % to 0.87 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator By Direct Method	20 mA to 200 mA	0.19 % to 1.0 %



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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Resistance Box By Direct Method	1 Ohm to 1000 Mohm	2.31%
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (Discrete)	Using Low Resistance Jig By Direct Method	1 mohm	1.33%
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (Discrete)	Using Low Resistance Jig By Direct Method	10 µohm	4.00%
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (Discrete)	Using Low Resistance Jig By Direct Method	10 mohm	1.16%
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (Discrete)	Using Low Resistance Jig By Direct Method	100	1.22
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (Discrete)	Using Low Resistance Jig By Direct Method	100 mohm	1.16%



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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (Discrete)	Using Low Resistance Jig By Direct Method	1000 mohm	1.16%
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (Discrete)	Using Low Resistance Jig By Direct Method	50 µohm	2.31%
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator By Direct Method	0.2 V to 10 V	1.99 % to 0.07 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator By Direct Method	10 V to 1000 V	0.07 % to 0.07 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator By Direct Method	5 mV to 200 mV	1.51 % to 0.07 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @ Test voltage upto 1000 V	Using High Resistance Jig By Direct Method	1 Mohm to 50 Gohm	2.4 % to 3.1 %



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52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @ Test voltage upto 1000 V	Using High Resistance Box By Direct Method	100 Gohm to 1000 Gohm	2.50 % to 2.50 %
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/Recorder) RTD (Pt-100)	Using Digital Calibrator By Direct Method	(-) 100 °C to 400 °C	0.60°C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/Recorder) Thermocouple J-Type	Using Digital Calibrator By Direct Method	0 °C to 700 °C	0.60°C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/Recorder) Thermocouple K-Type	Using Digital Calibrator By Direct Method	0 °C to 1200 °C	0.60°C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/Recorder) Thermocouple S-Type	Using Digital Calibrator By Direct Method	100 °C to 1700 °C	1.16°C



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57	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Precision Multimeter By Direct Method	3 Hz to 1 MHz	0.13 % to 0.19 %
58	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stopwatch	Using Digital Time Interval Meter By Direct Method	360 sec to 3600 sec	0.58 sec to 3.5 sec
59	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer/ Stopwatch	Using Digital Time Interval Meter By Direct Method	1 sec to 360 sec	0.01 sec to 0.58 sec
60	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure (Digital/Dial/ Pressure Gauges , Pressure Transmitters, Pressure Switch)	Using Digital Pressure Gauge & Hydraulic Pressure Pump By Comparison Method as per DKD R-6-1	70 bar to 700 bar	0.097bar
61	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure (Digital/Dial/ Pressure Gauges, Pressure Transmitters , Pressure Switch)	Using Digital Pressure Gauge & Hydraulic Pressure Pump By Comparison Method as per DKD R-6-1	0 bar to 70 bar	0.011bar



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62	MECHANICAL-PRESSURE INDICATING DEVICES	Negative Pressure Gauge (Digital & Dial Vacuum Gauges, Vacuum Transmitters)	Using Digital Vacuum Gauge with Vacuum Pump & By Comparison Method (DKD-R6-01)	(-)0.80 bar to 0 bar	0.0015bar
63	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure (Digital/Dial/Pressure Gauges,Pressure Transmitters)	Using Digital Pressure Gauge & Pneumatic Pressure Pump By Comparison Method as per DKD R-6-1	0 bar to 7 bar	0.0012bar
64	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure (Digital / Dial / Pressure Transmitters / Pressure Gauges)	Using Digital Pressure Guage & Pneumatic Pressure Pump By Comparison Method as per DKD R-6-1	0 mbar to 40 mbar	0.070mbar
65	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Sensors,Thermo hygrometer, Transmitter,Transducer with Indicator	Using Temperature & humidity Meter with Sensor and Humidity Source By comparison method	20 % RH @ 25 °C to 95 % RH @ 25 °C	1.6% RH
66	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Sensors,Thermo hygrometer, Transmitter,Transducer with Indicator	Using Temperature & humidity Meter with Sensor and Humidity Source By comparison method	5 °C @ 50% RH to 50 °C @ 50% RH	0.30°C



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67	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator of Humidity Chamber, Environmental Chamber, Humidity Generator	Using Temp. & humidity Meter with Sensor By comparison method	20 % RH @ 25 °C to 95 % RH @ 25 °C	1.0% RH
68	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator of Humidity Chamber, Environmental Chamber, Humidity Generator	Using Temp. & humidity Meter with Sensor By comparison method	5 °C @ 50 % RH to 50 °C @ 50 % RH	0.25°C
69	THERMAL-TEMPERATURE	RTD / Thermocouples with or Without Indicator/ Controller/Recorder/ Data logger Temperature Transmitter with indicator	R Type Thermocouple with Indicator & Dry Block Temp. Furnace By Comparison Method	250 °C to 600 °C	0.85°C
70	THERMAL-TEMPERATURE	RTD / Thermocouples with or Without Indicator/ Controller/Recorder/ Data logger Temperature Transmitter with indicator	4 Wire RTD Sensor with Indicator & Liquid Bath By Comparison Method	(-) 30 °C to 250 °C	0.50°C
71	THERMAL-TEMPERATURE	Temperature Gauge, Glass Thermometer, Dial Thermometer	4 Wire RTD Sensor with Indicator & Liquid Bath By Comparison Method	(-) 30 °C to 250 °C	0.61°C



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72	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Furnace,Dry block bath (Single Position)	R Type Thermocouple with Indicator By Comparison Method	600 °C to 1200 °C	1.92 °C to 1.92 °C
73	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid bath, Autoclave, Oven (Single Position)	4 Wire RTD Sensor with Indicator By Comparison Method	-30 °C to 250 °C	0.31°C
74	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid bath, Freezer, cold room chamber (Single Position)	4 Wire RTD Sensor with Indicator By Comparison Method	(-) 30 °C to 30 °C	0.31°C
75	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid bath, Oven,Furnace, Dry block bath, (Single Position)	R Type Thermocouple with Indicator By Comparison Method	250 °C to 600 °C	0.48°C
76	THERMAL-TEMPERATURE	Thermocouples with or Without Indicator/ Controller/Recorder/ Data logger Temperature Transmitter with indicator	R Type Thermocouple with Indicator & Dry Block Temp. Furnace By Comparison Method	600 °C to 1200 °C	1.97°C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6 ½ Precision Multimeter By Direct Method	0.4 A to 10 A	0.24 % to 0.25 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6 ½ Precision Multimeter By Direct Method	1 mA to 400 mA	0.20 % to 0.24 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current @ 50 Hz	Using 6 ½ Digit Multimeter by Direct Method	10 A to 500 A	2.75 % to 1.31 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using 6 ½ Digit Multimeter By Direct Method	1 kV to 40 kV	2.51 % to 2.88 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Precision Multimeter By Direct Method	0.1 V to 10 V	0.42 % to 0.12 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Precision Multimeter By Direct Method	1 mV to 100 mV	4.79 % to 0.12 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Precision Multimeter By Direct Method	10 V to 100 V	0.12%
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Precision Multimeter By Direct Method	100 V to 1000 V	0.12 % to 0.10 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator By Direct Method	0.2 A to 20 A	0.80 % to 0.16 %



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10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator By Direct Method	1 mA to 200 mA	1.47 % to 0.80 %
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Universal Calibrator And Current coil By Direct Method	20 A to 1000 A	0.79 % to 0.78 %
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator By Direct Method	0.2 V to 10 V	0.54 % to 0.13 %
13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator By Direct Method	10 V to 1000 V	0.13%
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator By Direct Method	5 mV to 200 mV	2.92 % to 0.54 %
15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box By Direct Method	10 pF to 10 μF	1.16%



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16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box By Direct Method	100 µH to 10 H	1.18 % to 1.16 %
17	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance @ 1 kHz	Using Decade Low Resistance Box By Direct Method	1 mohm to 1000 ohm	5.77 % to 0.12 %
18	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Precision Multimeter By Direct Method	0.4 A to 10 A	0.12 % to 0.19 %
19	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Precision Multimeter By Direct Method	1 mA to 400 mA	0.09 % to 0.12 %
20	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC High Current	Using 6 ½ Digit Multimeter by Direct Method	10 A to 500 A	2.75 % to 1.25 %
21	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC High Voltage	Using 6 ½ Digit Multimeter By Direct Method	1 kV to 40 kV	1.73 % to 2.31 %



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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire) Discrete	Using Universal Calibrator & 6 ½ Digit Multimeter	1 mohm	0.65%
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire) Discrete	Using Universal Calibrator & 6 ½ Digit Multimeter	10 µohm	0.60%
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire) Discrete	Using Universal Calibrator & 6 ½ Digit Multimeter	10 mohm	0.09%
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire) Discrete	Using Universal Calibrator & 6 ½ Digit Multimeter	100 µohm	0.05%
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire) Discrete	Using Universal Calibrator & 6 ½ Digit Multimeter	100 mohm	0.01%
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire) Discrete	Using Universal Calibrator & 6 ½ Digit Multimeter	1000 mohm	0.01%



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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire) Discrete	Using Universal Calibrator & 6 ½ Digit Multimeter	50 µohm	0.10%
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Precision Multimeter By Direct Method	0.1 V to 10 V	0.06 % to 0.004 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Precision Multimeter By Direct Method	1 mV to 100 mV	0.42 % to 0.01 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Precision Multimeter By Direct Method	10 V to 100 V	0.004 % to 0.005 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Precision Multimeter By Direct Method	100 V to 1000 V	0.005 % to 0.005 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Precision Multimeter By Direct Method	1 Ohm to 100 kOhm	0.36 % to 0.01 %



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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Precision Multimeter By Direct Method	100 kOhm to 100 Mohm	0.01 % to 0.94 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Precision Multimeter By Direct Method	100 Mohm to 1 Gohm	0.94 % to 3.23 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator By Direct Method	0.2 A to 20 A	1.00 % to 0.11 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator By Direct Method	1 mA to 20 mA	0.76 % to 0.19 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator And Current coil By Direct Method	20 A to 1000 A	0.88 % to 0.87 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator By Direct Method	20 mA to 200 mA	0.19 % to 1.0 %



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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Resistance Box By Direct Method	1 Ohm to 1000 Mohm	2.31%
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (Discrete)	Using Low Resistance Jig By Direct Method	1 mohm	1.33%
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (Discrete)	Using Low Resistance Jig By Direct Method	10 µohm	4.00%
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (Discrete)	Using Low Resistance Jig By Direct Method	10 mohm	1.16%
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (Discrete)	Using Low Resistance Jig By Direct Method	100	1.22
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (Discrete)	Using Low Resistance Jig By Direct Method	100 mohm	1.16%



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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (Discrete)	Using Low Resistance Jig By Direct Method	1000 mohm	1.16%
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (Discrete)	Using Low Resistance Jig By Direct Method	50 µohm	2.31%
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator By Direct Method	0.2 V to 10 V	1.99 % to 0.07 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator By Direct Method	10 V to 1000 V	0.07 % to 0.07 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator By Direct Method	5 mV to 200 mV	1.51 % to 0.07 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @ Test voltage upto 1000 V	Using High Resistance Jig By Direct Method	1 Mohm to 50 Gohm	2.4 % to 3.1 %



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52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance @ Test voltage upto 1000 V	Using High Resistance Box By Direct Method	100 Gohm to 1000 Gohm	2.50 % to 2.50 %
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/Recorder) RTD (Pt-100)	Using Digital Calibrator By Direct Method	(-) 100 °C to 400 °C	0.60°C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/Recorder) Thermocouple J-Type	Using Digital Calibrator By Direct Method	0 °C to 700 °C	0.60°C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/Recorder) Thermocouple K-Type	Using Digital Calibrator By Direct Method	0 °C to 1200 °C	0.60°C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller/Recorder) Thermocouple S-Type	Using Digital Calibrator By Direct Method	100 °C to 1700 °C	1.16°C



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57	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Precision Multimeter By Direct Method	3 Hz to 1 MHz	0.13 % to 0.19 %
58	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stopwatch	Using Digital Time Interval Meter By Direct Method	360 sec to 3600 sec	0.58 sec to 3.5 sec
59	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer/ Stopwatch	Using Digital Time Interval Meter By Direct Method	1 sec to 360 sec	0.01 sec to 0.58 sec
60	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure (Digital/Dial/ Pressure Gauges , Pressure Transmitters, Pressure Switch)	Using Digital Pressure Gauge & Hydraulic Pressure Pump By Comparison Method as per DKD R-6-1	70 bar to 700 bar	0.097bar
61	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure (Digital/Dial/ Pressure Gauges, Pressure Transmitters , Pressure Switch)	Using Digital Pressure Gauge & Hydraulic Pressure Pump By Comparison Method as per DKD R-6-1	0 bar to 70 bar	0.011bar



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62	MECHANICAL-PRESSURE INDICATING DEVICES	Negative Pressure Gauge (Digital & Dial Vacuum Gauges, Vacuum Transmitters)	Using Digital Vacuum Gauge with Vacuum Pump & By Comparison Method (DKD-R6-01)	(-)0.80 bar to 0 bar	0.0015bar
63	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure (Digital/Dial/Pressure Gauges,Pressure Transmitters)	Using Digital Pressure Gauge & Pneumatic Pressure Pump By Comparison Method as per DKD R-6-1	0 bar to 7 bar	0.0012bar
64	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure (Digital / Dial / Pressure Transmitters / Pressure Gauges)	Using Digital Pressure Guage & Pneumatic Pressure Pump By Comparison Method as per DKD R-6-1	0 mbar to 40 mbar	0.070mbar
65	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator of Humidity Chamber, Environmental Chamber, Humidity Generator	Using Temp. & humidity Meter with Sensor By comparison method	20 % RH @ 25 °C to 95 % RH @ 25 °C	1.0% RH
66	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator of Humidity Chamber, Environmental Chamber, Humidity Generator	Using Temp. & humidity Meter with Sensor By comparison method	5 °C @ 50 % RH to 50 °C @ 50 % RH	0.25°C



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67	THERMAL-TEMPERATURE	RTD / Thermocouples with or Without Indicator/ Controller/Recorder/ Data logger Temperature Transmitter with indicator	R Type Thermocouple with Indicator & Dry Block Temp. Furnace By Comparison Method	250 °C to 600 °C	0.85°C
68	THERMAL-TEMPERATURE	RTD / Thermocouples with or Without Indicator/ Controller/Recorder/ Data logger Temperature Transmitter with indicator	4 Wire RTD Sensor with Indicator & Liquid Bath By Comparison Method	(-) 30 °C to 250 °C	0.50°C
69	THERMAL-TEMPERATURE	Temperature Gauge, Glass Thermometer, Dial Thermometer	4 Wire RTD Sensor with Indicator & Liquid Bath By Comparison Method	(-) 30 °C to 250 °C	0.61°C
70	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Furnace, Dry block bath (Single Position)	R Type Thermocouple with Indicator By Comparison Method	600 °C to 1200 °C	1.92 °C to 1.92 °C



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71	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid bath, Autoclave, Oven (Single Position)	4 Wire RTD Sensor with Indicator By Comparison Method	-30 °C to 250 °C	0.31°C
72	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid bath, Freezer, cold room chamber (Single Position)	4 Wire RTD Sensor with Indicator By Comparison Method	(-) 30 °C to 30 °C	0.31°C
73	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid bath, Oven, Furnace, Dry block bath, (Single Position)	R Type Thermocouple with Indicator By Comparison Method	250 °C to 600 °C	0.48°C
74	THERMAL-TEMPERATURE	Thermocouples with or Without Indicator/ Controller/Recorder/ Data logger Temperature Transmitter with indicator	R Type Thermocouple with Indicator & Dry Block Temp. Furnace By Comparison Method	600 °C to 1200 °C	1.97°C

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