National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SHIVRAJ CALIBRATION & TECHNICAL SERVICES LLP., # 346/1, NEW COLONY, HINDALAGA BELGAVI, BELGAUM, BELAGAVI, KARNATAKA, INDIA

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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 @50Hz	Using 6½ DMM by Direct Method	1 A to 10 A	0.17 % to 0.31 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using MFC and 6½ DMM by Comparison Method	1 mA to 10 mA	0.81 % to 0.52 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using 6½ DMM by Direct Method	1 mA to 100 mA	0.26 % to 0.25 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using 6½ DMM by Direct Method	100 mA to 1 A	0.25 % to 0.17 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @50Hz	Using HV Probe & DMM by Direct Method	1 kV to 10 kV	1.83 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using 6½ DMM by Direct Method	1 V to 100 V	0.13 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using 6½ DMM by Direct Method	10 mV to 100 mV	0.56 % to 0.13 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using 6½ DMM by Direct Method	100 mV to 1 V	0.13 % to 0.11 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using 6½ DMM by Direct Method	100 V to 1000 V	0.13 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using 6½ DMM by Comparison Method	1 A to 10 A	0.18 % to 0.32 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using 6½ DMM by Comparison Method	10 mA to 100 mA	0.52 % to 0.44 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using MFC with Current Coil by Direct Method	100 A to 1000 A	1.75 % to 0.65 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using 6½ DMM by Comparison Method	100 mA to 1 A	0.44 % to 0.8 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz	Using 6½ DMM by Comparison Method	1 V to 100 V	0.28 % to 0.13 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz	Using 6½ DMM by Comparison Method	10 mV to 100 mV	0.88 % to 0.14 %

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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz	Using 6½ DMM by Comparison Method	100 mV to 1 V	0.14 % to 0.28 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz	Using 6½ DMM by Comparison Method	100 V to 1000 V	0.13 % to 0.14 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM by Direct Method	1 A to 10 A	0.091 % to 0.19 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM by Direct Method	1 mA to 24 mA	0.086 % to 0.082 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM by Direct Method	100 mA to 1 A	0.064 % to 0.091 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM by Direct Method	24 mA to 100 mA	0.082 % to 0.064 %

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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe & DMM by Direct Method	1 kV to 10 kV	2.36 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM by Direct Method	1 mV to 100 mV	0.4 % to 0.0089 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM by Direct Method	1 V to 100 V	0.012 % to 0.0059 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM by Direct Method	100 mV to 1 V	0.0089 % to 0.012 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM by Direct Method	100 V to 1000 V	0.0059 % to 0.0071 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ DMM by Direct Method	1 k ohm to 10 k ohm	0.014 % to 0.012 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ DMM by Direct Method	1 M ohm to 10 M ohm	0.33 % to 0.333 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ DMM by Direct Method	1 ohm to 100 ohm	0.023 % to 0.020 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ DMM by Direct Method	10 k ohm to 100 k ohm	0.012 % to 0.013 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ DMM by Direct Method	10 M ohm to 1000 M ohm	0.333 % to 0.34 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ DMM by Direct Method	100 k ohm to 1 M ohm	0.013 % to 0.33 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ DMM by Direct Method	100 ohm to 1 k ohm	0.020 % to 0.014 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 6½ DMM by Comparison Method	1 mV to 10 mV	0.42 % to 0.055 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 6½ DMM by Comparison Method	1 V to 10 V	0.062 % to 0.039 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 6½ DMM by Comparison Method	10 mV to 100 mV	0.055 % to 0.022 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 6½ DMM by Comparison Method	10 V to 100 V	0.039 % to 0.0079 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 6½ DMM by Comparison Method	100 mV to 1 V	0.022 % to 0.062 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 6½ DMM by Comparison Method	100 V to 1000 V	0.0079 % to 0.092 %

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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using 6½ DMM by Comparison Method	1 A to 10 A	0.42 % to 0.21 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using 6½ DMM by Comparison Method	1 mA to 10 mA	0.12 % to 0.095 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using 6½ DMM by Comparison Method	10 mA to 100 mA	0.095 % to 0.082 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using MFC with Current Coil by Direct Method	100 A to 900 A	1.86 % to 0.71 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using 6½ DMM by Comparison Method	100 mA to 1 A	0.082 % to 0.12 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by direct method	1 k ohm to 100 k ohm	0.62 % to 0.58 %

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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by direct method	1 M ohm to 100 M ohm	0.59 % to 1.12 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by direct method	1 ohm to 100 ohm	0.62 % to 0.58 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by direct method	100 k ohm to 1 M ohm	0.58 % to 0.59 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by direct method	100 M ohm to 1000 M ohm	1.12 % to 1.21 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by direct method	100 ohm to 1 k ohm	0.58 % to 0.62 %
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using MFC by Direct Method	-100 °C to 1000 °C	0.39 °C

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52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using MFC by Direct Method	600 °C to 1800 °C	0.87 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using MFC by Direct Method	-190 °C to 1200 °C	0.41 °C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using MFC by Direct Method	-200 °C to 1300 °C	0.48 °C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using MFC by Direct Method	0 °C to 1300 °C	0.42 °C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using MFC by Direct Method	100 °C to 1750 °C	0.79 °C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD PT-100	Using MFC by Direct Method	-100 °C to 800 °C	0.35 °C

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58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using MFC by Direct Method	100 °C to 1750 °C	0.81 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using MFC by Direct Method	600 °C to 1800 °C	0.91 °C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using MFC by Direct Method	-100 °C to 1000 °C	0.41 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using MFC by Direct Method	0 °C to 1200 °C	0.44 °C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using MFC by Direct Method	-190 °C to 1300 °C	0.45 °C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using MFC by Direct Method	0 °C to 1300 °C	0.48 °C

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64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using MFC by Direct Method	100 °C to 1750 °C	0.83 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD PT-100	Using MFC by Direct Method	-200 °C to 800 °C	0.14 °C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using MFC by Direct Method	100 °C to 1700 °C	0.90 °C
67	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ digit Fluke DMM by Direct Method	10 Hz to 110 kHz	0.07 % to 0.53 %
68	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Stop Watch by comparison Method	1 s to 10 s	0.12 s to 0.60 s
69	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Stop Watch by comparison Method	10 s to 60 s	0.6 s to 0.68 s

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70	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Stop Watch by comparison Method	3600 s to 86400 s	0.80 s to 11.26 s
71	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Stop Watch by comparison Method	60 s to 3600 s	0.68 s to 0.80 s
72	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using MFC by Direct Method	10 Hz to 4000 Hz	0.083 % to 0.12 %
73	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Dial / Digital Pressure Gauges, Pressure Transmitter With indicator	Using Portable Pressure calibrator by Comparison method as per DKD R6 - 1	0 to 400 bar	0.27 bar
74	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Dial / Digital Pressure Gauges, Pressure Transmitter With indicator	Using Pressure Calibrator and Hydraulic Comparator pump by Comparison method as per DKD R6 - 1	0 to 700 bar	0.45 bar

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75	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Dial / Digital Vacuum Gauges, Pressure Transmitter With indicator	Using Portable Pressure calibrator by Comparison method as per DKD R6 - 1	-0.8 bar to 0	0.0068 bar
76	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Dial / Digital Pressure Gauges, Pressure Transmitter With indicator	Using Portable Pressure calibrator by Comparison method as per DKD R6 - 1	0 to 20 bar	0.016 bar
77	THERMAL-SPECIFIC HEAT & HUMIDITY	Relative Humidity Meters / Digital & Analog Hygrometers / RH Sensors / Transmitter / Temperature / RH Data Logger	Using Standard Temperature & Relative humidity Sensor with Indicator and Humidity Generator, DMM By Comparison Method	5 °C @ 50% RH to 50 °C @ 50% RH	0.45 °C
78	THERMAL-SPECIFIC HEAT & HUMIDITY	Relative Humidity Meters, Digital & Analog Hygrometers, RH Sensors, Transmitter, Temperature / RH Data Logger	Using Standard Temperature & Relative humidity Sensor with Indicator using Humidity Generator, DMM By Comparison Method	20 % RH @ 25°C to 90 % RH @ 25 °C	2.14 % RH

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79	THERMAL-TEMPERATURE	Dial Thermometer / Digital Thermometer / RTD / Thermocouple with Indicator / Controllers / Scanner / Recorder / Thermocouple Without Indicators.	Using SSPRT sensor with Indicator using Dry Bath and DMM by Comparison Method	50 °C to 600 °C	0.2 °C
80	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Dial Thermometer, Digital Thermometer / Controllers / Scanner / Recorder / RTD / Thermocouple with/without indicators.	Using SSPRT sensor with indicator Using Liquid Cold Bath and DMM, by Comparison Method	(-)37 °C to 50 °C	0.26 °C
81	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Oven, Muffle Furnace, Furnace and Dry Block Furnace	Using S Type Thermocouple with Indicator by Comparison Method (Single position Calibration).	600 °C to 1200 °C	1.83 °C
82	THERMAL-TEMPERATURE	Thermocouple with Indicator / Controllers / Scanner / Recorder / Thermocouple without indicators	Using high temp. Bath , 6 ½ DMM and S type Thermocouple by Comparison Method.	1200 °C to 1450 °C	3.65 °C

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83	THERMAL-TEMPERATURE	Thermocouple with Indicator / Controllers / Scanner/ Recorder / Thermocouple Without Indicators	Using S type Thermocouple with Indicator using Dry Bath, DMM by Comparison Method	600 °C to 1200 °C	1.76 °C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using 6½ DMM by Direct Method	1 A to 10 A	0.17 % to 0.31 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using MFC and 6½ DMM by Comparison Method	1 mA to 10 mA	0.81 % to 0.52 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using 6½ DMM by Direct Method	1 mA to 100 mA	0.26 % to 0.25 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using 6½ DMM by Direct Method	100 mA to 1 A	0.25 % to 0.17 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @50Hz	Using HV Probe & DMM by Direct Method	1 kV to 10 kV	1.83 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using 6½ DMM by Direct Method	1 V to 100 V	0.13 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using 6½ DMM by Direct Method	10 mV to 100 mV	0.56 % to 0.13 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using 6½ DMM by Direct Method	100 mV to 1 V	0.13 % to 0.11 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using 6½ DMM by Direct Method	100 V to 1000 V	0.13 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using 6½ DMM by Comparison Method	1 A to 10 A	0.18 % to 0.32 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using 6½ DMM by Comparison Method	10 mA to 100 mA	0.52 % to 0.44 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using MFC with Current Coil by Direct Method	100 A to 1000 A	1.75 % to 0.65 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using 6½ DMM by Comparison Method	100 mA to 1 A	0.44 % to 0.8 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz	Using 6½ DMM by Comparison Method	1 V to 100 V	0.28 % to 0.13 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz	Using 6½ DMM by Comparison Method	10 mV to 100 mV	0.88 % to 0.14 %

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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz	Using 6½ DMM by Comparison Method	100 mV to 1 V	0.14 % to 0.28 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz	Using 6½ DMM by Comparison Method	100 V to 1000 V	0.13 % to 0.14 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM by Direct Method	1 A to 10 A	0.091 % to 0.19 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM by Direct Method	1 mA to 24 mA	0.086 % to 0.082 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM by Direct Method	100 mA to 1 A	0.064 % to 0.091 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM by Direct Method	24 mA to 100 mA	0.082 % to 0.064 %

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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe & DMM by Direct Method	1 kV to 10 kV	2.36 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM by Direct Method	1 mV to 100 mV	0.4 % to 0.0089 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM by Direct Method	1 V to 100 V	0.012 % to 0.0059 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM by Direct Method	100 mV to 1 V	0.0089 % to 0.012 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM by Direct Method	100 V to 1000 V	0.0059 % to 0.0071 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ DMM by Direct Method	1 k ohm to 10 k ohm	0.014 % to 0.012 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ DMM by Direct Method	1 M ohm to 10 M ohm	0.33 % to 0.333 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ DMM by Direct Method	1 ohm to 100 ohm	0.023 % to 0.020 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ DMM by Direct Method	10 k ohm to 100 k ohm	0.012 % to 0.013 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ DMM by Direct Method	10 M ohm to 1000 M ohm	0.333 % to 0.34 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ DMM by Direct Method	100 k ohm to 1 M ohm	0.013 % to 0.33 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ DMM by Direct Method	100 ohm to 1 k ohm	0.020 % to 0.014 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 6½ DMM by Comparison Method	1 mV to 10 mV	0.42 % to 0.055 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 6½ DMM by Comparison Method	1 V to 10 V	0.062 % to 0.039 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 6½ DMM by Comparison Method	10 mV to 100 mV	0.055 % to 0.022 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 6½ DMM by Comparison Method	10 V to 100 V	0.039 % to 0.0079 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 6½ DMM by Comparison Method	100 mV to 1 V	0.022 % to 0.062 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 6½ DMM by Comparison Method	100 V to 1000 V	0.0079 % to 0.092 %

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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using 6½ DMM by Comparison Method	1 A to 10 A	0.42 % to 0.21 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using 6½ DMM by Comparison Method	1 mA to 10 mA	0.12 % to 0.095 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using 6½ DMM by Comparison Method	10 mA to 100 mA	0.095 % to 0.082 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using MFC with Current Coil by Direct Method	100 A to 900 A	1.86 % to 0.71 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using 6½ DMM by Comparison Method	100 mA to 1 A	0.082 % to 0.12 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by direct method	1 k ohm to 100 k ohm	0.62 % to 0.58 %

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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by direct method	1 M ohm to 100 M ohm	0.59 % to 1.12 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by direct method	1 ohm to 100 ohm	0.62 % to 0.58 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by direct method	100 k ohm to 1 M ohm	0.58 % to 0.59 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by direct method	100 M ohm to 1000 M ohm	1.12 % to 1.21 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by direct method	100 ohm to 1 k ohm	0.58 % to 0.62 %
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using MFC by Direct Method	-100 °C to 1000 °C	0.39 °C

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52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using MFC by Direct Method	600 °C to 1800 °C	0.87 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using MFC by Direct Method	-190 °C to 1200 °C	0.41 °C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using MFC by Direct Method	-200 °C to 1300 °C	0.48 °C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using MFC by Direct Method	0 °C to 1300 °C	0.42 °C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using MFC by Direct Method	100 °C to 1750 °C	0.79 °C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD PT-100	Using MFC by Direct Method	-100 °C to 800 °C	0.35 °C

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58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using MFC by Direct Method	100 °C to 1750 °C	0.81 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using MFC by Direct Method	600 °C to 1800 °C	0.91 °C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using MFC by Direct Method	-100 °C to 1000 °C	0.41 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using MFC by Direct Method	0 °C to 1200 °C	0.44 °C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using MFC by Direct Method	-190 °C to 1300 °C	0.45 °C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using MFC by Direct Method	0 °C to 1300 °C	0.48 °C

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64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using MFC by Direct Method	100 °C to 1750 °C	0.83 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD PT-100	Using MFC by Direct Method	-200 °C to 800 °C	0.14 °C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using MFC by Direct Method	100 °C to 1700 °C	0.90 °C
67	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ digit Fluke DMM by Direct Method	10 Hz to 110 kHz	0.07 % to 0.53 %
68	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Stop Watch by comparison Method	1 s to 10 s	0.12 s to 0.60 s
69	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Stop Watch by comparison Method	10 s to 60 s	0.6 s to 0.68 s

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70	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Stop Watch by comparison Method	3600 s to 86400 s	0.80 s to 11.26 s
71	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Stop Watch by comparison Method	60 s to 3600 s	0.68 s to 0.80 s
72	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using MFC by Direct Method	10 Hz to 4000 Hz	0.083 % to 0.12 %
73	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Dial / Digital Pressure Gauges, Pressure Transmitter With indicator	Using Portable Pressure calibrator by Comparison method as per DKD R6 - 1	0 to 400 bar	0.27 bar
74	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Dial / Digital Pressure Gauges, Pressure Transmitter With indicator	Using Pressure Calibrator and Hydraulic Comparator pump by Comparison method as per DKD R6 - 1	0 to 700 bar	0.45 bar

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75	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Dial / Digital Vacuum Gauges, Pressure Transmitter With indicator	Using Portable Pressure calibrator by Comparison method as per DKD R6 - 1	-0.8 bar to 0	0.0068 bar
76	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Dial / Digital Pressure Gauges, Pressure Transmitter With indicator	Using Portable Pressure calibrator by Comparison method as per DKD R6 - 1	0 to 20 bar	0.016 bar
77	THERMAL-SPECIFIC HEAT & HUMIDITY	Relative Humidity Meters / Digital & Analog Hygrometers / RH Sensors / Transmitter / Temperature / RH Data Logger	Using Standard Temperature & Relative humidity Sensor with Indicator and Humidity Generator, DMM By Comparison Method	5 °C @ 50% RH to 50 °C @ 50% RH	0.45 °C
78	THERMAL-SPECIFIC HEAT & HUMIDITY	Relative Humidity Meters, Digital & Analog Hygrometers, RH Sensors, Transmitter, Temperature / RH Data Logger	Using Standard Temperature & Relative humidity Sensor with Indicator using Humidity Generator, DMM By Comparison Method	20 % RH @ 25°C to 90 % RH @ 25 °C	2.14 % RH

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79	THERMAL-TEMPERATURE	"Deep Freezer, Oven, Chambers, Furnace Room, Autoclaves & Incubators(For nin medical purpose only)	Using RTD's with Data logger by Comparison method (Multi position calibration using minimum 9 sensors)	(-)80 °C to 300 °C	2.50 °C
80	THERMAL-TEMPERATURE	Dial Thermometer / Digital Thermometer / RTD / Thermocouple with Indicator / Controllers / Scanner / Recorder / Thermocouple Without Indicators.	Using SSPRT sensor with Indicator using Dry Bath and DMM by Comparison Method	50 °C to 600 °C	0.2 °C
81	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Dial Thermometer, Digital Thermometer / Controllers / Scanner / Recorder / RTD / Thermocouple with/without indicators.	Using SSPRT sensor with indicator Using Liquid Cold Bath and DMM, by Comparison Method	(-)37 °C to 50 °C	0.26 °C

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82	THERMAL-TEMPERATURE	Oven, Chambers, Furnace Room	Using N type Thermocouples with Data logger by Comparison Method (Multi position calibration using minimum 9 sensors)	300 °C to 1200 °C	4.17 °C
83	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Freezers, Oven, Environmental Chamber, Liquid Bath, BOD and Incubator	Using SSPRT with Indicator by Comparison Method (Single Position Calibration)	(-)37 °C to 50 °C	0.29 °C
84	THERMAL-TEMPERATURE	Temperature indicator with sensor of Oven, Environmental Chamber, Liquid Bath, Incubator, BOD, Muffle Furnace and Dry Block Furnace	Using SSPRT with Indicator by Comparison Method (Single Position Calibration)	50 °C to 600 °C	0.25 °C
85	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Oven, Muffle Furnace, Furnace and Dry Block Furnace	Using S Type Thermocouple with Indicator by Comparison Method (Single position Calibration).	600 °C to 1200 °C	1.83 °C

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86	THERMAL-TEMPERATURE	Thermocouple with Indicator / Controllers / Scanner / Recorder / Thermocouple without indicators	Using high temp. Bath , 6 ½ DMM and S type Thermocouple by Comparison Method.	1200 °C to 1450 °C	3.65 °C
87	THERMAL-TEMPERATURE	Thermocouple with Indicator / Controllers / Scanner/ Recorder / Thermocouple Without Indicators	Using S type Thermocouple with Indicator using Dry Bath, DMM by Comparison Method	600 °C to 1200 °C	1.76 °C

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