



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

KOHAV CALIBRATION SERVICES PRIVATE LIMITED, H. NO. 275, KRISHNA NAGAR,
VIJAY NAGAR, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

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Validity

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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	Using 6½ Digit Multimeter by Direct Method	100 µA to 2 mA	0.35 % to 0.32 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	2 mA to 3 A	0.32 % to 0.47 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	3 A to 10 A	0.47 % to 0.54 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter By Direct Method	100 mV to 200 mV	2.68 % to 0.39 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	20 V to 750 V	0.26 % to 0.17 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter By Direct Method	200 mV to 20 V	0.39 % to 0.26 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator 5½ Digit by Direct Method	200 µA to 200 mA	2.56 % to 0.30 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using Multifunction Calibrator 5½ Digit By Direct Method	1 A to 10 A	0.35 % to 0.22 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using Multifunction Calibrator 5½ Digit by Direct Method	200 mA to 1 A	0.30 % to 0.35 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current @50 Hz	Using Multifunction Calibrator 5½ Digit with Current Coil by Direct Method	10 A to 950 A	1.9 % to 1.59 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator 5½ Digit by Direct Method	10 mV to 200 mV	1.5 % to 0.27 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz	Using Multifunction Calibrator 5½ Digit by Direct Method	20 V to 200 V	0.19 % to 0.22 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz	Using Multifunction Calibrator 5½ Digit by Direct Method	200 mV to 20 V	0.27 % to 0.19 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz	Using Multifunction Calibrator 5½ Digit by Direct Method	200 V to 1000 V	0.22 % to 0.21 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct method	1 nF to 100 µF	3.54 % to 2.82 %



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16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct method	10 μ H to 10 H	2.79 % to 2.42 %
17	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	2 mA to 3 A	0.16 % to 0.26 %
18	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	3 A to 10 A	0.26 % to 0.45 %
19	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	100 mV to 200 mV	0.82 % to 0.055 %
20	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	20 V to 1000 V	0.14 % to 0.025 %
21	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	200 mV to 20 V	0.055 % to 0.14 %



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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 6½ Digit Multimeter by Direct Method	10 Mohm to 100 Mohm	0.05 % to 0.94 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 6½ Digit Multimeter by Direct Method	100 kohm to 10 Mohm	0.022 % to 0.05 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ Digit Multimeter by Direct Method	1 ohm to 100 ohm	0.36 % to 0.02 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ Digit Multimeter by Direct Method	100 ohm to 100 kohm	0.02 % to 0.022 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator 5½ Digit by Direct Method	1 A to 10 A	0.35 % to 0.21 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator 5½ Digit by Direct Method	100 µA to 200 mA	0.30 % to 0.25 %



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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator 5½ Digit by Direct Method	200 mA to 1 A	0.25 % to 0.35 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator 5½ Digit by Direct Method	1 mV to 200 mV	1.45 % to 0.20 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator 5½ Digit by Direct Method	20 V to 1000 V	0.13 % to 0.16 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator 5½ Digit by Direct Method	200 mV to 20 V	0.20 % to 0.13 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High DC Current	Using Multifunction Calibrator 5½ Digit With Current Coil by Direct Method	10 A to 950 A	1.91 % to 1.72 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using High Resistance Box by Direct Method	1 Mohm	6.6 %



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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using High Resistance Box by Direct Method	10 Mohm	1.3 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using High Resistance Box by Direct Method	100 Mohm	1.5 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using High Resistance Box by Direct Method	500 Mohm	1.8 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ 1000 V	Using High Resistance Box by Direct Method	1 Gohm	2.4 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ 1000 V	Using High Resistance Box by Direct Method	10 Gohm	2.2 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ 1000 V	Using High Resistance Box by Direct Method	20 Gohm	5.2 %



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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2- wire)	Using Digital Precision Resistance Calibrator by Direct method	1 kohm to 1000 kohm	1.10 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2- wire)	Using High Resistance Standard Box by Direct method	1 Mohm to 100 Mohm	1.50 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Digital Precision Resistance Calibrator by Direct method	1 ohm	0.7 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Digital Precision Resistance Calibrator by Direct method	10 ohm	0.7 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Digital Precision Resistance Calibrator by Direct Method	100 mohm	0.99 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Digital Precision Resistance Calibrator by Direct Method	100 ohm	0.7 %



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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Digital Precision Resistance Calibrator by Direct Method	1000 ohm	0.7 %
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B - Type Thermocouple	Using Digital Temperature Calibrator by Direct Method	600 °C to 1750 °C	2.67 °C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Thermocouple	Using Digital Temperature Calibrator by Direct Method	(-) 200 °C to 740 °C	1.19 °C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using Digital Temperature Calibrator by Direct Method	(-) 200 °C to 1300 °C	1.83 °C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100 Type)	Using Digital Temperature Calibrator by Direct Method	(-) 200 °C to 800 °C	1.14 °C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T - Type Thermocouple	Using Digital Temperature Calibrator by Direct Method	(-) 200 °C to 400 °C	1.54 °C



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52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Digital Temperature Calibrator by Direct Method	(-) 200 °C to 1200 °C	1.16 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Digital Temperature Calibrator by Direct Method	(-) 200 °C to 1300 °C	1.5 °C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Digital Temperature Calibrator by Direct Method	0 °C to 1750 °C	2.23 °C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Digital Temperature Calibrator by Direct Method	0 °C to 1750 °C	2.33 °C
56	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	10 Hz to 300 kHz	0.58 % to 0.019 %
57	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer Calibrator by Comparison Method	10 s to 3600 s	0.152 s to 2.25 s



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58	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer Calibrator by Comparison Method	3600 s to 86400 s	2.25 s to 22.67 s
59	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Digital Precision Frequency Calibrator by Direct Method	1 kHz to 1000 kHz	0.05 % to 0.02 %
60	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Digital Precision Frequency Calibrator by Direct Method	10 Hz to 1000 Hz	0.58 % to 0.05 %
61	MECHANICAL-ACOUSTICS	Sound Level Meter, Noise Meter @ 1 kHz	Using Sound Level Calibrator by Comparison Method	94 dB	0.97 dB
62	MECHANICAL-ACOUSTICS	Sound Level Meter, Noise Meter @ 1 kHz	Using Sound Level Calibrator by Comparison Method	114 dB	1.14 dB
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper-Vernier/Digital/ Dial L.C.: 0.01 mm	Using ('0' Grade) Slip Gauge Set with Accessories by Comparison Method	0 to 150 mm	8.64 μ m



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64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper-Vernier/Digital/ Dial L.C.: 0.01 mm	Using ('0' Grade) Slip Gauge Set with Accessories, Gauge Block by Comparison Method	0 to 300 mm	10.0 μ m
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper-Vernier/Digital/ Dial L.C.: 0.01 mm	Using ('0' Grade) Slip Gauge Set with Accessories, Gauge Block by Comparison Method	0 to 600 mm	13.93 μ m
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge L.C: 1 μ m	Using Standard Test Foils by Comparison Method	10 μ m to 722 μ m	1.59 μ m
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould	Using Digital Vernier Caliper by Comparison Method	150 mm x 150 mm x 150 mm	15.22 μ m
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper - L.C.: 0.02 mm	Using ('0' Grade) Slip Gauge Set & Long Gauge Block with Accessories by Comparison Method	0 to 200 mm	12.48 μ m



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69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator (Digital / Plunger) - L.C.: 0.001 mm	Using ('0' Grade) Slip Gauge Set by Comparison Method	0 to 25 mm	1.51 μ m
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge, L.C.: 0.01 mm	Using ('0' Grade) Slip Gauge Set by Comparison Method	0 to 10 mm	5.27 μ m
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge (Length)	Using Digital Vernier Caliper by comparison method	0 to 81 mm	10.73 μ m
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Digital / Digimatic / Ball Point) L.C.: 0.001 mm	Using ('0' Grade) Slip Gauge Set with Accessories by Comparison Method	0 to 25 mm	1.99 μ m
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Digital / Digimatic) - L.C.: 0.01 mm	Using ('0' Grade) Slip Gauge Set with Accessories by Comparison Method	25 mm to 100 mm	4.45 μ m



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74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Micrometer by Comparison Method	0.03 mm to 2.00 mm	2.0 μ m
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Gauge	Using Digital Vernier Caliper by Comparison Method	6.3 mm to 63 mm	18 μ m
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Digital, Dial, Vernier) - L.C.: 0.01 mm	Using 0 Grade Slip Gauge Set, Long Gauge Block and Surface Plate by Comparison Method	0 to 300 mm	11.0 μ m
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge - L.C.: 0.001 mm	Using ('0' Grade) Slip Gauge Set by Comparison Method	0 to 0.14 mm	2.42 μ m
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge - L.C.: 0.01 mm	Using ('0' Grade) Slip Gauge Set and Comparator Stand by Comparison Method	0 to 0.8 mm	6.06 μ m



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79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge (Plain/ Dial)	Using ('0' Grade) Slip Gauge Set with Accessories by Comparison Method	3 mm to 250 mm	8.0 µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Digital Vernier Caliper by Comparison Method	4 mm to 125 mm	17.0 µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge - LC.: 0.1 mm	Using ('0' Grade) Slip Gauge Set by Comparison Method	1 mm to 100 mm	57.8 µm
82	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Digital / Analog), Pressure Indicator, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder	Using Advance Pressure Gauge, Digital Multimeter and Comparator Stand by Comparison Method as per DKD-R 6-1	0 to 40 bar	0.074 bar



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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)(±)
83	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Digital / Analog), Pressure Indicator, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder	Using Advance Pressure Gauge, Digital Multimeter and Comparator Stand by Comparison Method as per DKD-R 6-1	0 to 700 bar	1.18 bar
84	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge (Digital / Analog), Pressure Indicator, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder	Using Advance Pressure Gauge, Digital Multimeter and Comparator Stand by Comparison Method as per DKD- R 6-1	0 to 7 bar	0.09 bar
85	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge	Using Advance Pressure Gauge and Comparator pump by Comparison Method as per DKD- R 6-1	(-) 0.9 bar to 0	0.0097 bar



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 µA to 2 mA	0.35 % to 0.32 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	2 mA to 3 A	0.32 % to 0.47 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	3 A to 10 A	0.47 % to 0.54 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter By Direct Method	100 mV to 200 mV	2.68 % to 0.39 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	20 V to 750 V	0.26 % to 0.17 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter By Direct Method	200 mV to 20 V	0.39 % to 0.26 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator 5½ Digit by Direct Method	200 µA to 200 mA	2.56 % to 0.30 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using Multifunction Calibrator 5½ Digit By Direct Method	1 A to 10 A	0.35 % to 0.22 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using Multifunction Calibrator 5½ Digit by Direct Method	200 mA to 1 A	0.30 % to 0.35 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current @50 Hz	Using Multifunction Calibrator 5½ Digit with Current Coil by Direct Method	10 A to 950 A	1.9 % to 1.59 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator 5½ Digit by Direct Method	10 mV to 200 mV	1.5 % to 0.27 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz	Using Multifunction Calibrator 5½ Digit by Direct Method	20 V to 200 V	0.19 % to 0.22 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz	Using Multifunction Calibrator 5½ Digit by Direct Method	200 mV to 20 V	0.27 % to 0.19 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz	Using Multifunction Calibrator 5½ Digit by Direct Method	200 V to 1000 V	0.22 % to 0.21 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct method	1 nF to 100 µF	3.54 % to 2.82 %



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16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct method	10 µH to 10 H	2.79 % to 2.42 %
17	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	2 mA to 3 A	0.16 % to 0.26 %
18	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	3 A to 10 A	0.26 % to 0.45 %
19	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	100 mV to 200 mV	0.82 % to 0.055 %
20	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	20 V to 1000 V	0.14 % to 0.025 %
21	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	200 mV to 20 V	0.055 % to 0.14 %



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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 6½ Digit Multimeter by Direct Method	10 Mohm to 100 Mohm	0.05 % to 0.94 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 6½ Digit Multimeter by Direct Method	100 kohm to 10 Mohm	0.022 % to 0.05 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ Digit Multimeter by Direct Method	1 ohm to 100 ohm	0.36 % to 0.02 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ Digit Multimeter by Direct Method	100 ohm to 100 kohm	0.02 % to 0.022 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator 5½ Digit by Direct Method	1 A to 10 A	0.35 % to 0.21 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator 5½ Digit by Direct Method	100 µA to 200 mA	0.30 % to 0.25 %



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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator 5½ Digit by Direct Method	200 mA to 1 A	0.25 % to 0.35 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator 5½ Digit by Direct Method	1 mV to 200 mV	1.45 % to 0.20 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator 5½ Digit by Direct Method	20 V to 1000 V	0.13 % to 0.16 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator 5½ Digit by Direct Method	200 mV to 20 V	0.20 % to 0.13 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High DC Current	Using Multifunction Calibrator 5½ Digit With Current Coil by Direct Method	10 A to 950 A	1.91 % to 1.72 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using High Resistance Box by Direct Method	1 Mohm	6.6 %



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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using High Resistance Box by Direct Method	10 Mohm	1.3 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using High Resistance Box by Direct Method	100 Mohm	1.5 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire)	Using High Resistance Box by Direct Method	500 Mohm	1.8 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ 1000 V	Using High Resistance Box by Direct Method	1 Gohm	2.4 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ 1000 V	Using High Resistance Box by Direct Method	10 Gohm	2.2 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ 1000 V	Using High Resistance Box by Direct Method	20 Gohm	5.2 %



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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2- wire)	Using Digital Precision Resistance Calibrator by Direct method	1 kohm to 1000 kohm	1.10 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2- wire)	Using High Resistance Standard Box by Direct method	1 Mohm to 100 Mohm	1.50 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Digital Precision Resistance Calibrator by Direct method	1 ohm	0.7 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Digital Precision Resistance Calibrator by Direct method	10 ohm	0.7 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Digital Precision Resistance Calibrator by Direct Method	100 mohm	0.99 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Digital Precision Resistance Calibrator by Direct Method	100 ohm	0.7 %



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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Digital Precision Resistance Calibrator by Direct Method	1000 ohm	0.7 %
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B - Type Thermocouple	Using Digital Temperature Calibrator by Direct Method	600 °C to 1750 °C	2.67 °C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Thermocouple	Using Digital Temperature Calibrator by Direct Method	(-) 200 °C to 740 °C	1.19 °C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using Digital Temperature Calibrator by Direct Method	(-) 200 °C to 1300 °C	1.83 °C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100 Type)	Using Digital Temperature Calibrator by Direct Method	(-) 200 °C to 800 °C	1.14 °C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T - Type Thermocouple	Using Digital Temperature Calibrator by Direct Method	(-) 200 °C to 400 °C	1.54 °C



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52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Digital Temperature Calibrator by Direct Method	(-) 200 °C to 1200 °C	1.16 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Digital Temperature Calibrator by Direct Method	(-) 200 °C to 1300 °C	1.5 °C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Digital Temperature Calibrator by Direct Method	0 °C to 1750 °C	2.23 °C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Digital Temperature Calibrator by Direct Method	0 °C to 1750 °C	2.33 °C
56	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	10 Hz to 300 kHz	0.58 % to 0.019 %
57	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer Calibrator by Comparison Method	10 s to 3600 s	0.152 s to 2.25 s



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58	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer Calibrator by Comparison Method	3600 s to 86400 s	2.25 s to 22.67 s
59	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Digital Precision Frequency Calibrator by Direct Method	1 kHz to 1000 kHz	0.05 % to 0.02 %
60	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Digital Precision Frequency Calibrator by Direct Method	10 Hz to 1000 Hz	0.58 % to 0.05 %
61	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Digital / Analog), Pressure Indicator, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder	Using Advance Pressure Gauge, Digital Multimeter and Comparator Stand by Comparison Method as per DKD-R 6-1	0 to 40 bar	0.074 bar



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62	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Digital / Analog), Pressure Indicator, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder	Using Advance Pressure Gauge, Digital Multimeter and Comparator Stand by Comparison Method as per DKD-R 6-1	0 to 700 bar	1.18 bar
63	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge (Digital / Analog), Pressure Indicator, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder	Using Advance Pressure Gauge, Digital Multimeter and Comparator Stand by Comparison Method as per DKD- R 6-1	0 to 7 bar	0.09 bar
64	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge	Using Advance Pressure Gauge and Comparator pump by Comparison Method as per DKD- R 6-1	(-) 0.9 bar to 0	0.0097 bar

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