



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	MK BEST CALIBRATION SERVICES, NO. 27, F-2, 1ST FLOOR, 2ND STREET, VARALAKSHMI NAGAR, CHENNAI, TAMIL NADU, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-3340	Page No	1 of 50
Validity	28/12/2023 to 27/12/2025	Last Amended on	19/03/2024

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 Digital Multimeter by Direct Method	1 A to 10 A	0.60 % to 0.28 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50Hz	Using 6½ Digital Multimeter by Direct Method	10 V to 600 V	1.29 % to 0.17 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator by Direct Method	0.2 mA to 100 mA	0.31 % to 0.2 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator by Direct Method	100 mA to 10 A	0.2 % to 0.2 7 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz	Using Multifunction Calibrator With Current Coil by Direct Method	10 A to 1000 A	2.2 % to 1.25 %



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6	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Standard Multifunction Calibrator by Direct Method	10 mV to 1000 V	0.4 % to 0.2 %
7	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	1 A to 10 A	0.12 % to 0.19 %
8	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	1 mA to 10 mA	0.08 %
9	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	10 mA to 100 mA	0.08 % to 0.44 %
10	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	100 µA to 1 mA	0.44 % to 0.08 %
11	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	100 mA to 1 A	0.44 % to 0.12 %



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12	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 mV to 10 mV	0.45 % to 0.086 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 V to 10 V	0.007 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	10 mV to 100 mV	0.086 % to 0.013 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	10 V to 650 V	0.007 % to 0.090 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	100 mV to 1 V	0.013 % to 0.007 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ Digital Multimeter by Direct Method	100 kohm to 1 Mohm	0.014 %



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18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ Digital Multimeter by Direct Method	1 Mohm to 10 Mohm	0.014 % to 0.44 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ Digital Multimeter by Direct Method	10 kohm to 100 kohm	0.02 % to 0.014 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ Digital Multimeter by Direct Method	10 Mohm to 100 Mohm	0.44 % to 0.95 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire/4 Wire)	Using 6½ Digital Multimeter by Direct Method	1 kohm to 10 kohm	0.012 % to 0.02 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 6½ Digital Multimeter by Direct Method	1 ohm to 100 ohm	0.74 % to 0.2 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 6½ Digital Multimeter by Direct Method	100 ohm to 1 kohm	0.2 % to 0.012 %



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24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	0.1 mA to 1 A	0.24 % to 0.23 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	1 A to 10 A	0.23 % to 0.13 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator With Current Coil by Direct Method	10 A to 1000 A	2.13 % to 1.04 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	1 mV to 1000 V	1.3 % to 0.13 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	1 Mohm to 10 Mohm	4 % to 6.28 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	100 kohm to 1 Mohm	3.4 7 % to 4 %



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30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	100, 200, 500, 1000 Mohm	3.55 % to 4.6 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire/ 4 Wire)	Using Decade Resistance Box by Direct Method	100 ohm to 100 kohm	0.92 % to 3.47 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire/ 4 Wire)	Using Standard Multifunction Calibrator by Direct Method	40 ohm to 4000 ohm	0.46 % to 0.025 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Standard Multifunction Calibrator by Direct Method	1 ohm to 40 ohm	0.67 % to 0.46 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	10 ohm to 100 ohm	3.63 % to 0.92 %
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT100)	Using Standard Multifunction Calibrator by Direct Method	(-) 200 °C to 800 °C	0.24 °C



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36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - B Type	Using Standard Multifunction Calibrator by Direct Method	920 °C to 1800 °C	0.94 °C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - J Type	Using Standard Multifunction Calibrator by Direct Method	(-) 190 °C to 750 °C	0.66 °C
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - K Type	Using Standard Multifunction Calibrator by Direct Method	(-) 160 °C to 1200 °C	0.4 °C
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - N Type	Using Standard Multifunction Calibrator by Direct Method	0 °C to 1300 °C	0.40 °C
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - R Type	Using Standard Multifunction Calibrator by Direct Method	150 °C to 1750 °C	0.92 °C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - S Type	Using Standard Multifunction Calibrator by Direct Method	170 °C to 1750 °C	0.76 °C



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42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - T Type	Using Standard Multifunction Calibrator by Direct Method	(-) 130 °C to 400 °C	0.26 °C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT100)	Using Standard Multifunction Calibrator by Direct Method	(-) 200 °C to 800 °C	0.32 °C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B Type	Using Standard Multifunction Calibrator by Direct Method	920 °C to 1800 °C	0.78 °C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E Type	Using Standard Multifunction Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.74 °C
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Standard Multifunction Calibrator by Direct Method	(-) 190 °C to 750 °C	0.44 °C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Standard Multifunction Calibrator by Direct Method	(-) 160 °C to 1200 °C	0.5 °C



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48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - N Type	Using Standard Multifunction Calibrator by Direct Method	0 °C to 1300 °C	0.4 °C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Standard Multifunction Calibrator by Direct Method	150 °C to 1750 °C	0.70 °C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Standard Multifunction Calibrator by Direct Method	170 °C to 1750 °C	0.8 °C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - T Type	Using Standard Multifunction Calibrator by Direct Method	(-) 130 °C to 400 °C	0.28 °C
52	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct Method	10 Hz to 100 Hz	0.082 % to 0.014 %
53	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct Method	100 Hz to 10 kHz	0.014 % to 0.02 %



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54	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Totalizer by Comparison Method	1800 s to 7200 s	0.8 s to 5.14 s
55	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Totalizer by Comparison Method	22000 s to 36000 s	4.88 s to 5.98 s
56	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Totalizer by Comparison Method	300 s to 1800 s	0.54 s to 0.8 s
57	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Totalizer by Comparison Method	36000 s to 86400 s	5.98 s to 11.22 s
58	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Totalizer by Comparison Method	5 s to 300 s	0.59 s to 0.54 s
59	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Totalizer by Comparison Method	7200 s to 22000 s	5.14 s to 4.88 s



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60	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Standard Multifunction Calibrator by Direct Method	10 Hz to 10 kHz	0.11 % to 0.04 %
61	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1kHz	Using Sound Level calibrator by Direct Method	114 dB	0.75 dB
62	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1kHz	Using Sound Level calibrator by Direct Method	94 dB	0.72 dB
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge - Transmission Error L.C.: 0.001 mm and Coarser	Using Dial Calibration Tester by Comparison Method	0 to 2 mm	1.6 µm
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge L.C.: 0.1µm/ L.C.: 1 µm and Coarser	Using Coating Thickness Foil by Comparison Method	23 µm to 700 µm	5.6 µm
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator stand - Flatness	Using Dial Gauge by Comparison Method	100 mm X 100 mm to 200 mm X 150 mm	2.8 µm



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66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pin	Using Gauge block, LVDT and Comparator Stand by Comparison Method	0.5 mm to 20 mm	1.6 µm
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper (Mech/ Electronic/ Dial) L.C.: 0.01 mm and Coarser	Using Gauge block and Long Gauge block by Comparison Method	0 to 300 mm	11.8 µm
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C.: 0.01 mm and Coarser	Using Gauge block by Comparison Method	0 to 150 mm	7.8 µm
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C.: 0.01 mm and Coarser	Using Gauge block by Comparison Method	0 to 12 mm	6.6 µm
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe with DRO/ LVDT Probe With DRO L.C.: 0.0001 mm and Coarser	Using Gauge block by Comparison Method	0 to 10 mm	0.5 µm



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71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 0.001 mm and Coarser	Using Gauge block by Comparison Method	0 to 75 mm	1.1 µm
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 0.01 mm and Coarser	Using Gauge block and Long Gauge block by Comparison Method	75 mm to 400 mm	7.4 µm
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using LVDT with Indicator by Comparison Method	0.03 mm to 1 mm	1.6 µm
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Groove Dial Gauge (External/ Internal) L.C.: 0.01 mm and Coarser	Using Gauge block by Comparison Method	10 mm to 90 mm	9 µm
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/ Dial/ Digital) L.C.: 0.01 mm and Coarser	Using Gauge block, Long Gauge block and Surface Plate by Comparison Method	0 to 1000 mm	15.6 µm



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76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) L.C.: 0.01 mm and Coarser	Using Caliper Checker and Surface Plate by Comparison Method	0 to 600 mm	8.4 µm
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial (Analog/Digital) L.C.: 0.001 mm and Coarser	Using Dial Calibration Tester by Comparison Method	0 to 0.14 mm	1.6 µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial (Analog/Digital) L.C.: 0.01 mm and Coarser	Using Dial Calibration Tester by Comparison Method	0 to 1.0 mm	6 µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauge (Flush Pin Gauge/Height Piece)	Using Gauge block, LVDT and Comparator Stand by Comparison Method	5 mm to 9 mm	3.2 µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Gauge block, Long Gauge block and LVDT by Comparison Method	100 mm to 300 mm	3.2 µm



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81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Gauge block and LVDT by Comparison Method	25 mm to 100 mm	2 µm
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Gauge block, Long Gauge block and LVDT by Comparison Method	300 mm to 600 mm	6.4 µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper L.C.: 0.1 mm and Coarser	Using Gauge block by Comparison Method	0 to 65 mm	72 µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Gauge	Using Profile Projector by Comparison Method	0.25 mm to 6 mm	20 µm
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Gauge block, Dial Gauge, Comparator Stand and LVDT Probe by Comparison Method	5 mm to 132 mm	3.4 µm



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86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial (Analog/ Digital) L.C.: 0.001 mm and Coarser	Using Dial Calibration Tester by Comparison Method	0 to 25 mm	1.6 µm
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge/ Gap Gauge (Fixed/ Adjustable)	Using Gauge block and Long Gauge block by Comparison Method	2 mm to 300 mm	2 µm
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Spirit Level by Comparison Method	300 mm X 300 mm to 2000 mm X 2500 mm	1.6 x(Sqrt(L+W)/150) µm, where L & W in mm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve L.C.: 0.001 mm and Coarser	Using Profile Projector by Comparison Method	0.063 mm to 3 mm	70 µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve L.C.: 0.01 mm and Coarser	Using Digital Vernier Caliper by Comparison Method	3 mm to 100 mm	70 µm



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91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Foils	Using LVDT by Comparison Method	10 µm to 2020 µm	2 µm
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block - Flatness	Using Cylindrical Mandrel with Dial gauge by Comparison Method	50 mm X 50 mm X 60 mm to 100 mm X 95 mm x 75 mm	6.4 µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block - Parallelism	Using Cylindrical Mandrel with Dial gauge by Comparison Method	50 mm X 50 mm X 60 mm to 100 mm X 95 mm x 75 mm	5.6 µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block - Symmetricity	Using Cylindrical Mandrel with Dial gauge by Comparison Method	50 mm X 50 mm X 60 mm to 100 mm X 95 mm x 75 mm	11 µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Mech/ Electronic/ Dial) L.C.: 0.01 mm and Coarser	Using Caliper Checker, Gauge block, Pin gauge and Plain Ring gauge by Comparison Method	0 to 300 mm	7.8 µm



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96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Mech/ Electronic/ Dial) L.C.: 0.01 mm and Coarser	Using Gauge block, Long Gauge block, Pin gauge and Plain Ring gauge by Comparison Method	0 to 1000 mm	13 µm
97	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transducer/Transmitter, Pressure Module, Pressure switches, Pressure Calibrator, Digital Pressure Indicator, Transmitter/Transducer with Indicator - Hydraulic Pressure	Using Digital Pressure calibrator, Digital Multimeter & Hydraulic pressure comparator by Comparison Method as per DKD-R 6-1	0 to 1000 bar	1.43 bar
98	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transducer/Transmitter, Oil free Gauge Pressure Module, Pressure switches, Pressure Calibrator, Digital Pressure Indicator, Transmitter/Transducer with Indicator - Pneumatic Pressure	Using Digital Pressure calibrator, Digital Multimeter & Pneumatic pressure comparator by Comparison Method as per DKD-R 6-1	0 to 30 bar	0.05 bar



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99	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transducer/Transmitter, Oil free Gauge Pressure Module, Pressure switch, Pressure Calibrator, Digital Pressure Indicators Transmitter/Transducer with Indicator - Hydraulic Pressure	Using Digital Pressure calibrator, Digital Multimeter & Hydraulic pressure comparator by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.7 bar
100	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transducer/Transmitter, Oil free Gauges Pressure Module, Pressure switches, Manometers, Pressure Calibrator, Digital Pressure Indicator, Transmitter/Transducer with Indicator-Pneumatic Pressure	Using Pressure gauge, Digital Multimeter & Pneumatic pressure comparator by Comparison Method.	(-) 200 mbar to 0	1.3 mbar



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101	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transducer/Transmitter, Oil-free Gauge Pressure Module, Pressure switches Manometer, Pressure Calibrator, Digital Pressure Indicator, Transmitter/Transducer with Indicator - Pneumatic Pressure	Using Pressure gauge, Digital Multimeter & Pneumatic pressure comparator by Comparison Method as per DKD-R 6-1	0 to 200 mbar	1.3 mbar
102	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge, Compound Gauge, Vacuum Transducer, Vacuum Transmitter, Vacuum switch, Vacuum Modules, Vacuum sensor-Pneumatic Pressure	Using Vacuum Pressure gauge by Comparison Method as per ISO 3567 & DKD-R 6-2	(-) 0.9 bar to 0	0.03 bar
103	MECHANICAL-VOLUME	Micropipette (Fixed/Variable)	Using Electronic Balance up to 80 g/ 200 g of readability: 0.01 mg and distilled water of known density as per ISO 8655-6: 2022	100 µl to 1000 µl	7.29 µl



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104	MECHANICAL-VOLUME	Micropipette (Fixed/Variable)	Using Electronic Balance up to 80 g/ 200 g of readability: 0.01 mg and distilled water of known density as per ISO 8655-6:2022	10 µl to 100 µl	1.18 µl
105	MECHANICAL-VOLUME	Pipette, Burette, Volume flask, Graduated jar, Conical flask, Syringe (Non medical application only), Dispenser Measuring Jar, Measuring Cylinder, Standard Flask	Using Electronic Balance up to 4000 g readability: 0.01g and distilled water of known density as per ISO 4787: 2021	1000 ml to 2000 ml	0.72 ml
106	MECHANICAL-VOLUME	Pipette, Burette, Volume flask, Graduated jar, Conical flask, Syringe (Non medical application only), Dispenser Measuring Jar, Measuring Cylinder, Standard Flask	Using Digital Balance up to 80 g/ 200 g of readability: 0.1mg and distilled water of known density as per ISO 4787: 2021	0.1 ml to 50 ml	0.02 ml



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107	MECHANICAL-VOLUME	Pipette, Burette, Volume flask, Graduated jar, Conical flask, Syringe (Non medical application only), Dispenser, Measuring Jar, Measuring Cylinder, Standard Flask	Using Digital Balance up to 80 g/ 200 g of readability: 0.1 mg and distilled water of known density as per ISO 4787: 2021	50 ml to 100 ml	0.04 ml
108	MECHANICAL-VOLUME	Pipette, Burette, Volume flask, Graduated jar, Conical flask, Syringe, Dispenser, Measuring Jar, Measuring Cylinder, Standard Flask	Using Electronic Balance up to 22000 g of readability: 0.1 g and distilled water of known density as per ISO 4787: 2021	2000 ml to 20000 ml	4.53 ml
109	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability: 0.01/0.1 mg (Class I and coarser)	Using E2 class Standard weights upto 200 g as per OIML R-76-1	0 to 220 g	0.6 mg
110	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability: 0.1 g (Class III and coarser)	Using E2 class Standard weights upto 200 g and F2 class above up to 20 kg as per OIML R-76-1	1 g to 20000 g	0.5 g



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111	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability: 10 g (Class III and coarser)	Using M1 class Standard weights as per OIML R- 76-1	20 kg to 300 kg	100 g
112	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability: 100 g (Class III and coarser)	Using M1 class Standard weights as per OIML R- 76-1	300 kg to 1000 kg	200 g
113	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability: 0.01 g (Class II and coarser)	Using E2 class Standard weights upto 200 g and F2 class above up to 20 kg as per OIML R-76-1	0 to 4000 g	68 mg
114	MECHANICAL-WEIGHTS	Weight (F1 Class and Coarser)	Using E2 class standard weights up to 200 g with digital weighing balance up to 80 g/ 220 g of Readability: 0.01 mg by Substitution method & ABBA cycle as per OIML R 111	10 g	0.1 mg



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115	MECHANICAL-WEIGHTS	Weight (F1 Class and Coarser)	Using E2 class standard weights up to 200 g with digital weighing balance up to 80 g/ 220 g of Readability: 0.1 mg by Substitution method & ABBA cycle as per OIML R 111	100 g	0.5 mg
116	MECHANICAL-WEIGHTS	Weight (F1 Class and Coarser)	Using E2 class standard weights up to 200 g with digital weighing balance up to 80 g/ 220 g of Readability: 0.01 mg by Substitution method & ABBA cycle as per OIML R 111	20 g	0.1 mg
117	MECHANICAL-WEIGHTS	Weight (F1 Class and Coarser)	Using E2 class standard weights up to 200 g with digital weighing balance up to 80 g/ 220 g of Readability: 0.01 mg by Substitution method & ABBA cycle as per OIML R 111	50 g	0.1 mg



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118	MECHANICAL-WEIGHTS	Weight (F2 Class and Coarser)	Using E2 class standard weights up to 200 g with digital weighing balance up to 80 g/ 220 g of Readability: 0.01 mg by Substitution method & ABBA cycle as per OIML R 111	1 g	0.1 mg
119	MECHANICAL-WEIGHTS	Weight (F2 Class and Coarser)	Using E2 class standard weights up to 200 g with digital weighing balance up to 80 g/ 220 g of Readability: 0.01 mg by substitution method & ABBA cycle as per OIML R 111	100 mg	0.07 mg
120	MECHANICAL-WEIGHTS	Weight (F2 Class and Coarser)	Using E2 class standard weights up to 200 g with digital weighing balance up to 80 g/ 220 g of Readability: 0.01 mg by Substitution method & ABBA cycle as per OIML R 111	2 g	0.1 mg



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121	MECHANICAL-WEIGHTS	Weight (F2 Class and Coarser)	Using E2 class standard weights up to 200 g with digital weighing balance up to 80 g/ 220 g of Readability: 0.1 mg by substitution method & ABBA cycle as per OIML R 111	200 g	1 mg
122	MECHANICAL-WEIGHTS	Weight (F2 Class and Coarser)	Using E2 class standard weights up to 200 g with digital weighing balance up to 80 g/ 220 g of Readability: 0.01 mg by Substitution method & ABBA cycle as per OIML R 111	200 mg	0.07 mg
123	MECHANICAL-WEIGHTS	Weight (F2 Class and Coarser)	Using E2 class standard weights up to 200 g with digital weighing balance up to 80 g/ 220 g of Readability: 0.01 mg by Substitution method & ABBA cycle as per OIML R 111	5 g	0.1 mg



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124	MECHANICAL-WEIGHTS	Weight (F2 Class and Coarser)	Using E2 class standard weights up to 200 g with digital weighing balance up to 80 g/ 220 g of Readability: 0.01 mg by Substitution method & ABBA cycle as per OIML R 111	500 mg	0.07 mg
125	MECHANICAL-WEIGHTS	Weight (M1 Class and Coarser)	Using F1 class weights (10 kg) and up to 22 kg with Readability: 100 mg by Substitution method & ABBA cycle as per OIML R 111	10 kg	200 mg
126	MECHANICAL-WEIGHTS	Weight (M1 Class and Coarser)	Using E2 class standard weights up to 200 g with digital weighing balance up to 80 g/ 220 g of Readability: 0.01 mg by Substitution method & ABBA cycle as per OIML R 111	10 mg	0.07 mg



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127	MECHANICAL-WEIGHTS	Weight (M1 Class and Coarser)	Using F2 class weights (1 kg) and balance up to 4 kg with Readability: 10 mg by Substitution method & ABBA cycle as per OIML R 111	1000 g	19 mg
128	MECHANICAL-WEIGHTS	Weight (M1 Class and Coarser)	Using F1 class weights (20 kg) with digital weighing balance up to 22 kg of Readability: 100 mg by Substitution method & ABBA cycle as per OIML R 111	20 kg	400 mg
129	MECHANICAL-WEIGHTS	Weight (M1 Class and Coarser)	Using E2 class standard weights up to 200 g with digital weighing balance up to 80 g/ 220 g of Readability: 0.01 mg by Substitution method & ABBA cycle as per OIML R 111	20 mg	0.07 mg



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130	MECHANICAL-WEIGHTS	Weight (M1 Class and Coarser)	Using F2 class weights (2000g) and up to 4 kg with Readability: 10 mg by Substitution method & ABBA cycle as per OIML R 111	2000 g	30 mg
131	MECHANICAL-WEIGHTS	Weight (M1 Class and Coarser)	Using E2 class standard weights up to 200 g with digital weighing balance up to 80 g/ 220 g of Readability: 0.01 mg by substitution method & ABBA cycle as per OIML R 111	50 mg	0.07 mg
132	MECHANICAL-WEIGHTS	Weight (M1 Class and Coarser)	Using F2 class weights (5kg) and balance up to 22 kg with Readability: 100 mg by Substitution method & ABBA cycle as per OIML R 111	5000 g	100 mg



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133	MECHANICAL-WEIGHTS	Weight (M2 Class and Coarser)	Using F1 class weights (500g) and balance up to 4 kg with Readability: 10 mg by Substitution method & ABBA cycle as per OIML R 111	500 g	30 mg
134	THERMAL-SPECIFIC HEAT & HUMIDITY	(Analog/ Digital) Thermohygrometer, Humidity Sensor with Indicator, Humidity Data logger, Transmitter @ 25 °C	Using Humidity Indicator with probe and Humidity Chamber by Comparison Method	25 %rh to 95 %rh	2.08 %rh
135	THERMAL-SPECIFIC HEAT & HUMIDITY	(Analog/ Digital) Thermohygrometer, Humidity Sensor with Indicator, Humidity Data logger, Transmitter @ 50 %rh	Using Humidity Indicator with probe and Humidity Chamber by Comparison Method	10 °C to 50 °C	1.42 °C



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136	THERMAL-TEMPERATURE	Indicator with sensor of Hot Air oven, Oil bath, Temperature Bath, Water bath, Dry block calibrator, Furnace, Incubator, Autoclave (Non medical purpose only) (Single Position)	Using Standard SSPRT with DMM by Comparison Method	10 °C to 150 °C	0.5 °C
137	THERMAL-TEMPERATURE	Indicator with sensor of Oil bath, Temperature Bath, Furnace, Dry block calibrator (Single Position)	Using Standard SSPRT with DMM by Comparison Method	150 °C to 600 °C	0.32 °C
138	THERMAL-TEMPERATURE	Indicator with sensor of Temperature Bath, Furnace, Dry block calibrator (Single Position)	Using Standard Multifunction Calibrator with S-Type Thermocouple by Comparison Method	600 °C to 1200 °C	2.06 °C



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139	THERMAL-TEMPERATURE	Indicator with sensor of Ultra Low Temperature Freezer, Low Temperature bath, Oil bath, Temperature Bath, Dry block calibrators, Deep freezer, Refrigerator (Single Position)	Using Standard SSPRT with DMM by Comparison Method	(-) 80 °C to 10 °C	1.2 °C
140	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using Standard SSPRT with DMM, Liquid and Oil bath by Comparison Method	(-) 40 °C to 250 °C	0.67 °C
141	THERMAL-TEMPERATURE	Non-Contact type thermometer (IR Thermometer / Digital Pyrometer) (Non medical purpose only)	Using IR Thermometer and Black body source (Emissivity: 0.95) by Comparison Method	0 °C to 50 °C	2.46 °C
142	THERMAL-TEMPERATURE	Non-Contact type Thermometer (IR Thermometer/ Digital Pyrometer)	Using IR Thermometer and Black body source (Emissivity: 0.95) by Comparison Method	50 °C to 500 °C	4.74 °C



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143	THERMAL-TEMPERATURE	Non-Contact type thermometer (IR Thermometer/ Digital Pyrometer)	Using IR Thermometer and Black body source (Emissivity: 0.95) by Comparison Method	500 °C to 1200 °C	5.08 °C
144	THERMAL-TEMPERATURE	RTD (with or without Indicator), Thermocouple (with or without Indicator), Data Logger with sensor, Thermometers, Temperature Indicator with sensor	Using Standard SSPRT with DMM, Liquid Bath by Comparison Method	(-) 40 °C to 50 °C	0.56 °C
145	THERMAL-TEMPERATURE	RTD (with or without Indicator), Thermocouple (with or without Indicator), Data Logger with sensors, Thermometers, Temperature Indicators with sensor	Using Standard SSPRT with DMM, Temperature Calibrator by Comparison Method	50 °C to 600 °C	0.3 °C
146	THERMAL-TEMPERATURE	Thermocouple (with or without Indicator), Data Logger with sensor, Thermometers, Temperature Indicator with sensor	Using Standard Multifunction Calibrator with S-Type Thermocouple, Dry block Calibrator by Comparison Method	600 °C to 1200 °C	2.5 °C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz	Using 6½ Digital Multimeter by Direct Method	1 A to 10 A	0.60 % to 0.28 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50Hz	Using Standard Multimeter with HV Probe by Comparison Method	0.7 kV to 28 kV	6.5 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50Hz	Using 6½ Digital Multimeter by Direct Method	10 V to 600 V	1.29 % to 0.17 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator by Direct Method	0.2 mA to 100 mA	0.31 % to 0.2 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator by Direct Method	100 mA to 10 A	0.2 % to 0.2 7 %



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6	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz	Using Multifunction Calibrator With Current Coil by Direct Method	10 A to 1000 A	2.2 % to 1.25 %
7	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Standard Multifunction Calibrator by Direct Method	10 mV to 1000 V	0.4 % to 0.2 %
8	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	1 A to 10 A	0.12 % to 0.19 %
9	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	1 mA to 10 mA	0.08 %
10	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	10 mA to 100 mA	0.08 % to 0.44 %
11	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	100 µA to 1 mA	0.44 % to 0.08 %



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12	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	100 mA to 1 A	0.44 % to 0.12 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 mV to 10 mV	0.45 % to 0.086 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 V to 10 V	0.007 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	10 mV to 100 mV	0.086 % to 0.013 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	10 V to 650 V	0.007 % to 0.090 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	100 mV to 1 V	0.013 % to 0.007 %



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18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ Digital Multimeter by Direct Method	100 kohm to 1 Mohm	0.014 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ Digital Multimeter by Direct Method	1 Mohm to 10 Mohm	0.014 % to 0.44 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ Digital Multimeter by Direct Method	10 kohm to 100 kohm	0.02 % to 0.014 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ Digital Multimeter by Direct Method	10 Mohm to 100 Mohm	0.44 % to 0.95 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire/ 4 Wire)	Using 6½ Digital Multimeter by Direct Method	1 kohm to 10 kohm	0.012 % to 0.02 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 6½ Digital Multimeter by Direct Method	1 ohm to 100 ohm	0.74 % to 0.2 %



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24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 6½ Digital Multimeter by Direct Method	100 ohm to 1 kohm	0.2 % to 0.012 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	0.1 mA to 1 A	0.24 % to 0.23 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	1 A to 10 A	0.23 % to 0.13 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator With Current Coil by Direct Method	10 A to 1000 A	2.13 % to 1.04 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	1 mV to 1000 V	1.3 % to 0.13 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	1 Mohm to 10 Mohm	4 % to 6.28 %



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30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	100 kohm to 1 Mohm	3.47 % to 4 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	100, 200, 500, 1000 Mohm	3.55 % to 4.6 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire/ 4 Wire)	Using Decade Resistance Box by Direct Method	100 ohm to 100 kohm	0.92 % to 3.47 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire/ 4 Wire)	Using Standard Multifunction Calibrator by Direct Method	40 ohm to 4000 ohm	0.46 % to 0.025 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Standard Multifunction Calibrator by Direct Method	1 ohm to 40 ohm	0.67 % to 0.46 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	10 ohm to 100 ohm	3.63 % to 0.92 %



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36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - K Type	Using Standard Multifunction Calibrator by Direct Method	(-) 160 °C to 1200 °C	0.4 °C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - S Type	Using Standard Multifunction Calibrator by Direct Method	170 °C to 1750 °C	0.76 °C
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Standard Multifunction Calibrator by Direct Method	150 °C to 1750 °C	0.70 °C
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Standard Multifunction Calibrator by Direct Method	170 °C to 1750 °C	0.8 °C
40	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct Method	10 Hz to 100 Hz	0.082 % to 0.014 %
41	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct Method	100 Hz to 10 kHz	0.014 % to 0.02 %



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42	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Totalizer by Comparison Method	1800 s to 7200 s	0.8 s to 5.14 s
43	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Totalizer by Comparison Method	300 s to 1800 s	0.54 s to 0.8 s
44	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Totalizer by Comparison Method	36000 s to 86400 s	5.98 s to 11.22 s
45	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Totalizer by Comparison Method	5 s to 300 s	0.59 s to 0.54 s
46	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Totalizer by Comparison Method	7200 s to 22000 s	5.14 s to 4.88 s
47	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Standard Multifunction Calibrator by Direct Method	10 Hz to 10 kHz	0.11 % to 0.04 %



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48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Spirit Level by Comparison Method	300 mm X 300 mm to 2000 mm X 2500 mm	1.6 x(Sqrt(L+W)/150) μ m, where L & W in mm
49	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ Video Measuring Machine (Angular) L.C.: 1 s	Using Angular Glass Scale by Comparison Method	0 ° to 360 °	5.32 minute of arc
50	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ Video Measuring Machine (Linear) L.C.: 0.001 mm	Using Linear Glass Scale by Comparison Method	0 to 300 mm	18 μ m
51	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ Video Measuring Machine (Magnification)	Using Digital Vernier Caliper by Comparison Method	10 X	1.2 %
52	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transducer/Transmitter, Pressure Module, Pressure switches, Pressure Calibrator, Digital Pressure Indicator, Transmitter/Transducer with Indicator - Hydraulic Pressure	Using Digital Pressure calibrator, Digital Multimeter & Hydraulic pressure comparator by Comparison Method as per DKD-R 6-1	0 to 1000 bar	1.43 bar



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53	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transducer/Transmitter, Oil free Gauge Pressure Module, Pressure switches, Pressure Calibrator, Digital Pressure Indicator, Transmitter/Transducer with Indicator - Pneumatic Pressure	Using Digital Pressure calibrator, Digital Multimeter & Pneumatic pressure comparator by Comparison Method as per DKD-R 6-1	0 to 30 bar	0.05 bar
54	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transducer/Transmitter, Oil free Gauge Pressure Module, Pressure switch, Pressure Calibrator, Digital Pressure Indicators Transmitter/Transducer with Indicator - Hydraulic Pressure	Using Digital Pressure calibrator, Digital Multimeter & Hydraulic pressure comparator by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.7 bar



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55	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transducer/Transmitter, Oil free Gauges Pressure Module, Pressure switches, Manometers, Pressure Calibrator, Digital Pressure Indicator, Transmitter/Transducer with Indicator-Pneumatic Pressure	Using Pressure gauge, Digital Multimeter & Pneumatic pressure comparator by Comparison Method.	(-) 200 mbar to 0	1.3 mbar
56	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transducer/Transmitter, Oil-free Gauge Pressure Module, Pressure switches Manometer, Pressure Calibrator, Digital Pressure Indicator, Transmitter/Transducer with Indicator - Pneumatic Pressure	Using Pressure gauge, Digital Multimeter & Pneumatic pressure comparator by Comparison Method as per DKD-R 6-1	0 to 200 mbar	1.3 mbar



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57	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge, Compound Gauge, Vacuum Transducer, Vacuum Transmitter, Vacuum switch, Vacuum Modules, Vacuum sensor-Pneumatic Pressure	Using Vacuum Pressure gauge by Comparison Method as per ISO 3567 & DKD-R 6-2	(-) 0.9 bar to 0	0.03 bar
58	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability: 0.01/0.1 mg (Class I and coarser)	Using E2 class Standard weights upto 200 g as per OIML R-76-1	0 to 220 g	0.6 mg
59	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability: 0.1 g (Class III and coarser)	Using E2 class Standard weights upto 200 g and F2 class above up to 20 kg as per OIML R-76-1	1 g to 20000 g	0.5 g
60	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability: 10 g (Class III and coarser)	Using M1 class Standard weights as per OIML R- 76-1	20 kg to 300 kg	100 g
61	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability: 100 g (Class III and coarser)	Using M1 class Standard weights as per OIML R- 76-1	300 kg to 1000 kg	200 g



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62	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability: 0.01 g (Class II and coarser)	Using E2 class Standard weights upto 200 g and F2 class above up to 20 kg as per OIML R-76-1	0 to 4000 g	68 mg
63	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature and Humidity Indicator with sensor of Climatic Chamber, Environmental Chamber, Humidity Chamber (Single Position) @ 25 °C	Using Humidity Indicator with probe by Comparison Method	25 %rh to 95 %rh	1.8 %rh
64	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature and Humidity Indicator with sensor of Climatic Chamber, Environmental Chamber, Humidity Chamber (Single Position) @ 50 %rh	Using Humidity Indicator with probe by Comparison Method	10 °C to 50 °C	1.3 °C



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65	THERMAL-TEMPERATURE	Indicator with sensor of Hot Air oven, Oil bath, Temperature Bath, Water bath, Dry block calibrator, Furnace, Incubator, Autoclave (Non medical purpose only) (Single Position)	Using Standard SSPRT with DMM by Comparison Method	10 °C to 150 °C	0.5 °C
66	THERMAL-TEMPERATURE	Indicator with sensor of Oil bath, Temperature Bath, Furnace, Dry block calibrator (Single Position)	Using Standard SSPRT with DMM by Comparison Method	150 °C to 600 °C	0.32 °C
67	THERMAL-TEMPERATURE	Indicator with sensor of Temperature Bath, Furnace, Dry block calibrator (Single Position)	Using Standard Multifunction Calibrator with S-Type Thermocouple by Comparison Method	600 °C to 1200 °C	2.06 °C



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68	THERMAL-TEMPERATURE	Indicator with sensor of Ultra Low Temperature Freezer, Low Temperature bath, Oil bath, Temperature Bath, Dry block calibrators, Deep freezer, Refrigerator (Single Position)	Using Standard SSPRT with DMM by Comparison Method	(-) 80 °C to 10 °C	1.2 °C
69	THERMAL-TEMPERATURE	RTD (with or without Indicator), Thermocouple (with or without Indicator), Data Logger with sensor, Thermometers, Temperature Indicator with sensor	Using Standard SSPRT with DMM, Liquid Bath by Comparison Method	(-) 40 °C to 50 °C	0.56 °C
70	THERMAL-TEMPERATURE	RTD (with or without Indicator), Thermocouple (with or without Indicator), Data Logger with sensors, Thermometers, Temperature Indicators with sensor	Using Standard SSPRT with DMM, Temperature Calibrator by Comparison Method	50 °C to 600 °C	0.3 °C



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71	THERMAL-TEMPERATURE	Thermal Chamber, Furnace, Oven (Multiposition Calibration)	Using N-Type Thermocouple (minimum 9 sensor) with Standard Multichannel recorder by Comparison Method	250 °C to 1200 °C	7.22 °C
72	THERMAL-TEMPERATURE	Thermal Chamber, Ultra Low Temperature Freezer, Low Temperature bath, Furnace, Oven, Water bath, Deep Freezer, Refrigerator, Incubator (Non medical purpose only), Autoclave (Non medical purpose only) (Multiposition Calibration)	Using Standard RTD (minimum 9 sensor) with Multichannel recorder by Comparison Method	(-) 80 °C to 250 °C	2.82 °C
73	THERMAL-TEMPERATURE	Thermocouple (with or without Indicator), Data Logger with sensor, Thermometers, Temperature Indicator with sensor	Using Standard Multifunction Calibrator with S-Type Thermocouple, Dry block Calibrator by Comparison Method	600 °C to 1200 °C	2.5 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

MK BEST CALIBRATION SERVICES, NO. 27, F-2, 1ST FLOOR, 2ND STREET,
VARALAKSHMI NAGAR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3340

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Validity

28/12/2023 to 27/12/2025

Last Amended on

19/03/2024

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

