National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VASHISTH CALIBRATION PRIVATE LIMITED, PLOT NO. 6 & 7, RAJIV GANDHI COMPLEX, 21/3 MATHURA ROAD, BALLABGARH, FARIDABAD, HARYANA, 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 @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 mA to 3 A	0.51 % to 0.47 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy @ 50 Hz , 3Ø (110 V to 240 V , 1 A to 5 A @ UPF)	Using Digital Power Analyzer by Direct Method	100 Wh to 900 Wh	1.3 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power @ 50 Hz , 3Ø (110 V to 240 V , 1 A to 5 A @ UPF)	Using Digital Power Analyzer by Direct Method	100 W to 900 W	1.3 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 V to 750 V	0.28 % to 0.58 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 mV to 1 V	0.68 % to 0.28 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using LCR Meter by Direct Method	100 nF to 1 µF	0.31 % to 0.44 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 400 Hz	Using Universal Calibrator by Direct Method	0.1 A to 1 A	0.4 % to 0.34 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 400 Hz	Using Universal Calibrator by Direct Method	1 A to 20 A	0.38 % to 0.25 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 400 Hz	Using Universal Calibrator by Direct Method	100 µA to 0.1 A	2.1 % to 0.24 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 400 Hz	Using Universal Calibrator by Direct Method	1 V to 1000 V	0.61 % to 0.52 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 400 Hz	Using Universal Calibrator by Direct Method	10 mV to 1 V	1 % to 0.61 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Capacitance Box by Direct Method	1 µF to 10 µF	2.32 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 mA to 100 mA	0.74 % to 0.087 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 mA to 3 A	0.087 % to 0.17 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using Low Resistance Meter by Direct Method	0.001 ohm to 1 ohm	2.44 % to 0.48 %

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16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	1 ohm to 10 kohm	0.48 % to 1.5 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	10 kohm to 100 Mohm	3.15 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 mV to 1 V	0.64 % to 0.1 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 V to 1000 V	0.1 % to 0.05 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	1 A to 20 A	0.64 % to 0.37 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	10 µA to 100 mA	0.68 % to 0.14 %

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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	100 mA to 1 A	0.14 % to 0.64 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator & Current Coil by Direct Method	20 A to 900 A	0.71 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Low Resistance Box by Direct Method	0.1 ohm	2.38 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Low Resistance Box by Direct Method	1 mohm	2.7 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Low Resistance Box by Direct Method	1 ohm	0.25 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Low Resistance Box, High Resistance Box by Direct Method	10 ohm to 24 kohm	1.3 % to 0.26 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using High Resistance Box by Direct Method	24 kohm to 24 Mohm	0.52 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	1 mV to 1 V	4.85 % to 0.08 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	1 V to 1000 V	0.08 % to 0.07 %
31	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using Temperature Calibrator by Direct Method	(-) 200 °C to 800 °C	0.5 °C
32	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Temperature Calibrator by Direct Method	(-) 100 °C to 800 °C	0.71 °C
33	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Temperature Calibrator by Direct Method	(-) 100 °C to 1300 °C	0.96 °C

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34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Temperature Calibrator by Direct Method	200 °C to 1600 °C	1.42 °C
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T Type	Using Temperature Calibrator by Direct Method	(-) 100 °C to 400 °C	1 °C
36	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Timer Calibrator by Comparison Method	100 s to 86400 s	10.47 s to 26 s
37	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Function Generator by Direct Method	10 Hz to 1 MHz	0.26 % to 1.22 %
38	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer / Pulse Engine Tachometer / Stroboscope - Non Contact	Using Digital Tachometer with RPM Source by Comparison Method	10 rpm to 10000 rpm	5.4 %
39	MECHANICAL-ACCELERATION AND SPEED	RPM Meter / Tachometer / Pulse Engine Tachometer / Stroboscope - Non Contact	Using Digital Tachometer with RPM Source by Comparison Method	10000 rpm to 50000 rpm	1.2 %

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40	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Comparison Method	94 dB &114 dB	0.8 dB
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector (L.C.: 5 minute of arc)	Using Angle Gauge Set by Direct Method	Up to 180°	3 minute of arc
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Dial / Digital / Vernier (L.C.: 0.01 mm)	Using Slip Gauge Set & Caliper Checker by Comparison Method	0 to 300 mm	8 µm
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Dial / Digital / Vernier (L.C.: 0.01 mm)	Using Slip Gauge Set & Caliper Checker by Comparison Method	0 to 600 mm	11 µm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge - Dial / Digital / Vernier (L.C.: 0.01 mm)	Using Slip Gauge Set by Comparison Method	0 to 150 mm	13 µm

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45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer - Analog / Digital (L.C.: 0.01 mm)	Using Slip Gauge Set by Comparison Method	0 to 100 mm	8 µm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Comparator Stand - Flatness	Using Height Gauge, Lever Dial, Surface Plate, Precision Level by Comparison Method	Up to 300 mm	3.52 µm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator Lever Type (L.C.: 0.01 mm)	Using Dial Calibration Tester by Comparison Method	0 to 0.8 mm	11 µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator Plunger Type (L.C.: 0.01 mm)	Using Dial Calibration Tester by Comparison Method	0 to 25 mm	10 µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.01 mm)	Using Slip Gauge Set by Comparison Method	0 to 25 mm	7.3 µm

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50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Digital (L.C.: 0.001 mm & Coarser)	Using Slip Gauge Set by Comparison Method	0 to 100 mm	2.3 µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Electronic Probe with Indicator by Comparison Method	0.5 mm to 3 mm	3.4 µm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Digital (L.C.: 0.01 mm & Coarser)	Using Slip Gauge Set & Caliper Checker & Surface Plate by Comparison Method	0 to 600 mm	13 µm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Digital (L.C.: 0.01 mm & Coarser)	Using Slip Gauge Set & Caliper Checker & Surface Plate by Comparison Method	0 to 300 mm	12 µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Dial Caliper (L.C.: 0.01 mm)	Using Slip Gauge Block & Slip Gauge Accessories Set by Comparison Method	4 mm to 100 mm	9.2 µm

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55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using Slip Gauge Set & Electronic Probe by Comparison Method	0.5 mm to 20 mm	0.81 µm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head (L.C.: 0.001 mm)	Using Surface Plate & Electronic Probe with Indicator by Comparison Method	0 to 25 mm	1.5 µm
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Slip Gauge Set & Electronic Probe with Indicator by Comparison Method	3 mm to 200 mm	5.2 µm
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge / Radius Template	Using Profile Projector by Comparison Method	1 mm to 100 mm	4.8 µm
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rod	Using Surface Plate, Slip Gauge Block & Electronic Probe with Indicator by Comparison Method	25 mm to 100 mm	2.0 µm

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60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Slip Gauge Set & Slip Gauge Accessories Set by Comparison Method	1 mm to 250 mm	4.9 µm
61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultra Sonic Thickness Gauge (L.C.: 0.01 mm)	Using Slip Gauge Block by Comparison Method	0 to 100 mm	50 µm
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using Profile Projector by Comparison Method	0.21 mm to 3 mm	5.2 µm
63	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester (L.C.: 0.001 mm)	Using Slip Gauge Block & Electronic Probe with Indicator by Comparison Method	0 to 25 mm	1.8 µm
64	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe (L.C.: 0.1 µm)	Using Slip Gauge Block by Comparison Method	0 to 25 mm	0.9 µm

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65	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angle (L.C.: 1 s & Coarser)	Using Angle Gauge Set by Comparison Method	Up to 360 °	14 second of arc
66	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Linear (L.C.: 0.001 mm)	Using Slip Gauge Block by Comparison Method	0 to 300 mm	3.4 µm
67	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Gauge Block & Digital Caliper by Comparison Method	10 x	1.2 %
68	MECHANICAL-DUROMETER	Rubber Hardness Tester - Shore A	Using Shore Hardness Tester Calibrator by Comparison Method	0 to 100 Shore A	1.4 Shore A
69	MECHANICAL-DUROMETER	Rubber Hardness Tester - Shore D	Using Shore Hardness Tester Calibrator by Comparison Method	0 to 100 Shore D	1.4 Shore D
70	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Dial / Digital Pressure Gauge, Pressure Transmitter with Indicator, Pressure Switch	Using Digital Pressure Calibrator & Dig. Pressure Gauge and Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 70 bar	0.12 bar

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71	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Dial / Digital Pressure Gauge, Pressure Transmitter with Indicator, Pressure Switch	Using Digital Pressure Calibrator & Digital Pressure Gauge and Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.54 bar
72	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Dial / Digital Pressure Gauge, Pressure Transmitter with Indicator, Pressure Switch	Using Digital Compound Pressure Calibrator and Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 15 bar	0.006 bar
73	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Dial / Digital Pressure Gauge, Pressure Transmitter with Indicator, Pressure Switch, Manometer, Magnehelic Gauge	Using Digital Compound Pressure Gauge and Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 98 mbar	0.35 mbar
74	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Vacuum - Dial / Digital Vacuum Gauge, Vacuum Transmitter with Indicator, Vacuum Switch	Using Digital Compound Calibrator and Digital Multimeter by Comparison Method as per DKD-R 6-1	(-) 0.9 bar to 0 bar	0.008 bar
75	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class I and Coarser (Readability: 1 mg)	Using E2 Class Weights by Comparison Method as per OIML R-76-1	0 to 200 g	1.0 mg

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76	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class II and Coarser (Readability: 10 mg)	Using E2 & F1 Class Weights by Comparison Method as per OIML R-76-1	0 to 1000 g	83 mg
77	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class III and Coarser (Readability: 0.1 g)	Using F1 Class Weights by Comparison Method as per OIML R-76-1	0 to 10 kg	0.17 g
78	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class III and Coarser (Readability: 1 g)	Using F1 and F2 Class Weights by Comparison Method as per OIML R-76-1	0 to 100 kg	6.3 g
79	MECHANICAL-WEIGHTS	Weight (F1 Class & Coarser)	Using E2 Class Weights and Semi Micro Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	100 g	0.16 mg
80	MECHANICAL-WEIGHTS	Weight (F1 Class & Coarser)	Using E2 Class Weights and Semi Micro Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	50 g	0.1 mg

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81	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weights and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	1 g	0.04 mg
82	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weights and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	10 g	0.07 mg
83	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weights and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	100 mg	0.04 mg

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84	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weights and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	2 g	0.05 mg
85	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weights and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	20 g	0.09 mg
86	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weights and Semi Micro Balance (Readability: 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	200 g	0.5 mg

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87	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weights and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	200 mg	0.04 mg
88	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weights and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	5 g	0.06 mg
89	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weights and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	50 mg	0.04 mg

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90	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weights and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	500 mg	0.04 mg
91	MECHANICAL-WEIGHTS	Weight (M1 Class & Coarser)	Using E2 Class Weights and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	5 mg	0.04 mg
92	MECHANICAL-WEIGHTS	Weight (M1 Class & Coarser)	Using E2 Class Weights and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	1 mg	0.04 mg

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93	MECHANICAL-WEIGHTS	Weight (M1 Class & Coarser)	Using E2 Class Weights and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	10 mg	0.04 mg
94	MECHANICAL-WEIGHTS	Weight (M1 Class & Coarser)	Using E2 Class Weights and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	2 mg	0.04 mg
95	MECHANICAL-WEIGHTS	Weight (M1 Class & Coarser)	Using E2 Class Weights and Semi Micro Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	20 mg	0.04 mg

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96	MECHANICAL-WEIGHTS	Weight (M2 Class & Coarser)	Using F1 Class Weights and Weighing Balance (Readability: 0.01 g) by Substitution Method (ABBA Cycle) as per OIML R-111	1 kg	10.6 mg
97	MECHANICAL-WEIGHTS	Weight (M2 Class & Coarser)	Using F1 Class Weights and Weighing Balance (Readability: 0.01 g) by Substitution Method (ABBA Cycle) as per OIML R-111	500 g	10 mg
98	MECHANICAL-WEIGHTS	Weight (M3 Class & Coarser)	Using F1 Class Weights and Weighing Balance (Readability: 0.2 g) by Substitution Method (ABBA Cycle) as per OIML R-111	10 kg	0.25 g

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99	MECHANICAL-WEIGHTS	Weight (M3 Class & Coarser)	Using F1 Class Weights and Weighing Balance (Readability: 0.2 g) by Substitution Method (ABBA Cycle) as per OIML R-111	2 kg	0.2 g
100	MECHANICAL-WEIGHTS	Weight (M3 Class & Coarser)	Using F2 Class Weights and Weighing Balance (Readability: 5 g) by Substitution Method (ABBA Cycle) as per OIML R-111	20 kg	5 g
101	MECHANICAL-WEIGHTS	Weight (M3 Class & Coarser)	Using F1 Class Weights and Weighing Balance (Readability: 0.2 g) by Substitution Method (ABBA Cycle) as per OIML R-111	5 kg	0.2 g
102	MECHANICAL-WEIGHTS	Weight (M3 Class & Coarser)	Using F2 Class Weights and Weighing Balance (Readability: 5 g) by Substitution Method (ABBA Cycle) as per OIML R-111	50 kg	5 g

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103	THERMAL-SPECIFIC HEAT & HUMIDITY	Hygrometer - Digital / Analog, RH Sensor with Indicator / Logger /Controller with sensor	Using Digital Temperature & Humidity Indicator with Sensor and Temperature & Humidity Chamber by Comparison Method	20 %RH to 95 %RH @ 25°C	2.12 %RH
104	THERMAL-TEMPERATURE	IR Thermometer, Non Contact Thermometer, Radiation Thermometer, Thermal Imager (only Temperature) (Emissivity 0.95)	Using Pyrometer with Black Body Source by Comparison Method	50 °C to 500 °C	2.88 °C
105	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using PRT with Temperature Indicator & Oil Bath by Comparison Method	(-)40 °C to 45 °C	0.75 °C
106	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using PRT with Temperature Indicator & Oil Bath by Comparison Method	> 45 °C to 250 °C	1.23 °C

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107	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Temperature Indicator / Data Logger / Temperature Transmitter	Using PRT with Temperature Indicator, 6½ Digit Multimeter & Oil Bath by Comparison Method	> 45 °C to 250 °C	0.7 °C
108	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Temperature Indicator / Data Logger / Temperature Transmitter with sensor	Using PRT with Temperature Indicator, 6½ Digit Multimeter & Oil Bath by Comparison Method	(-) 40 °C to 45 °C	0.51 °C
109	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Oven / Incubator / Bath - Single Position (For Non Medical Purpose Only)	Using PRT with Indicator by Comparison Method	0 to 250 °C	1.0 °C
110	THERMAL-TEMPERATURE	Thermocouple with or without Indicator / Data Logger, Temperature Transmitter / Digital Thermometer with sensor	Using S Type Thermocouple with Indicator, 6½ Digit Multimeter & Dry Block Bath by Comparison Method	250 °C to 1200 °C	2.5 °C

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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 mA to 3 A	0.51 % to 0.47 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy @ 50 Hz , 3Ø (110 V to 240 V , 1 A to 5 A @ UPF)	Using Digital Power Analyzer by Direct Method	100 Wh to 900 Wh	1.3 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power @ 50 Hz , 3Ø (110 V to 240 V , 1 A to 5 A @ UPF)	Using Digital Power Analyzer by Direct Method	100 W to 900 W	1.3 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 V to 750 V	0.28 % to 0.58 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 mV to 1 V	0.68 % to 0.28 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using LCR Meter by Direct Method	100 nF to 1 µF	0.31 % to 0.44 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 400 Hz	Using Universal Calibrator by Direct Method	0.1 A to 1 A	0.4 % to 0.34 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 400 Hz	Using Universal Calibrator by Direct Method	1 A to 20 A	0.38 % to 0.25 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 400 Hz	Using Universal Calibrator by Direct Method	100 µA to 0.1 A	2.1 % to 0.24 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 400 Hz	Using Universal Calibrator by Direct Method	1 V to 1000 V	0.61 % to 0.52 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 400 Hz	Using Universal Calibrator by Direct Method	10 mV to 1 V	1 % to 0.61 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Capacitance Box by Direct Method	1 µF to 10 µF	2.32 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 mA to 100 mA	0.74 % to 0.087 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 mA to 3 A	0.087 % to 0.17 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using Low Resistance Meter by Direct Method	0.001 ohm to 1 ohm	2.44 % to 0.48 %

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16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	1 ohm to 10 kohm	0.48 % to 1.5 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	10 kohm to 100 Mohm	3.15 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 mV to 1 V	0.64 % to 0.1 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 V to 1000 V	0.1 % to 0.05 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	1 A to 20 A	0.64 % to 0.37 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	10 µA to 100 mA	0.68 % to 0.14 %

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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	100 mA to 1 A	0.14 % to 0.64 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator & Current Coil by Direct Method	20 A to 900 A	0.71 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Low Resistance Box by Direct Method	0.1 ohm	2.38 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Low Resistance Box by Direct Method	1 mohm	2.7 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Low Resistance Box by Direct Method	1 ohm	0.25 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Low Resistance Box, High Resistance Box by Direct Method	10 ohm to 24 kohm	1.3 % to 0.26 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using High Resistance Box by Direct Method	24 kohm to 24 Mohm	0.52 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	1 mV to 1 V	4.85 % to 0.08 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	1 V to 1000 V	0.08 % to 0.07 %
31	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using Temperature Calibrator by Direct Method	(-) 200 °C to 800 °C	0.5 °C
32	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Temperature Calibrator by Direct Method	(-) 100 °C to 800 °C	0.71 °C
33	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Temperature Calibrator by Direct Method	(-) 100 °C to 1300 °C	0.96 °C

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34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Temperature Calibrator by Direct Method	200 °C to 1600 °C	1.42 °C
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T Type	Using Temperature Calibrator by Direct Method	(-) 100 °C to 400 °C	1 °C
36	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Timer Calibrator by Comparison Method	100 s to 86400 s	10.47 s to 26 s
37	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Function Generator by Direct Method	10 Hz to 1 MHz	0.26 % to 1.22 %
38	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angle (L.C.: 1 s & Coarser)	Using Angle Gauge Set by Comparison Method	Up to 360 °	14 second of arc
39	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Linear (L.C.: 0.001 mm)	Using Slip Gauge Block by Comparison Method	0 to 300 mm	3.4 µm

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40	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Gauge Block & Digital Caliper by Comparison Method	10 x	1.2 %
41	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Dial / Digital Pressure Gauge, Pressure Transmitter with Indicator, Pressure Switch	Using Digital Pressure Calibrator & Dig. Pressure Gauge and Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 70 bar	0.12 bar
42	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Dial / Digital Pressure Gauge, Pressure Transmitter with Indicator, Pressure Switch	Using Digital Pressure Calibrator & Digital Pressure Gauge and Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.54 bar
43	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Dial / Digital Pressure Gauge, Pressure Transmitter with Indicator, Pressure Switch	Using Digital Compound Pressure Calibrator and Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 15 bar	0.006 bar

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44	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Dial / Digital Pressure Gauge, Pressure Transmitter with Indicator, Pressure Switch, Manometer, Magnehelic Gauge	Using Digital Compound Pressure Gauge and Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 98 mbar	0.35 mbar
45	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Vacuum - Dial / Digital Vacuum Gauge, Vacuum Transmitter with Indicator, Vacuum Switch	Using Digital Compound Calibrator and Digital Multimeter by Comparison Method as per DKD-R 6-1	(-) 0.9 bar to 0 bar	0.008 bar
46	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class I and Coarser (Readability: 1 mg)	Using E2 Class Weights by Comparison Method as per OIML R-76-1	0 to 200 g	1.0 mg
47	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class II and Coarser (Readability: 10 mg)	Using E2 & F1 Class Weights by Comparison Method as per OIML R-76-1	0 to 1000 g	83 mg
48	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class III and Coarser (Readability: 0.1 g)	Using F1 Class Weights by Comparison Method as per OIML R-76-1	0 to 10 kg	0.17 g
49	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class III and Coarser (Readability: 1 g)	Using F1 and F2 Class Weights by Comparison Method as per OIML R-76-1	0 to 100 kg	6.3 g

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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)(±)
50	THERMAL-SPECIFIC HEAT & HUMIDITY	Environment Chamber / RH Chamber / RH Generator - Multi Position (Minimum 9 Sensors)	Using Digital Wireless RH Data Loggers by Comparison Method	25 %RH to 90 %RH @ 25°C	4.43 %RH
51	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with Sensor of Environment Chamber / RH Chamber / RH Generator - Single Position	Using Digital Temperature & Humidity Indicator with Sensor by Comparison Method	20 %RH to 95 %RH @ 25°C	2.12 %RH
52	THERMAL-TEMPERATURE	Freezer, Cold Chamber - Multi Position (Minimum 9 Sensors) (For Non Medical Purpose only)	Using Temperature Data Loggers with RTD by Comparison Method	(-) 40 °C to 0 °C	2.25 °C
53	THERMAL-TEMPERATURE	Furnace - Multi Position (Minimum 9 Sensors)	Using Data Logger with K-Type Thermocouples by Comparison Method	250 °C to 1200 °C	6 °C
54	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using PRT with Temperature Indicator & Oil Bath by Comparison Method	(-)40 °C to 45 °C	0.75 °C

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55	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using PRT with Temperature Indicator & Oil Bath by Comparison Method	> 45 °C to 250 °C	1.23 °C
56	THERMAL-TEMPERATURE	Oven / Incubator / Bath - Multi Position (Minimum 9 Sensors) (For Non Medical Purpose only)	Using Temperature Data Loggers with RTD by Comparison Method	0 to 250 °C	2.17 °C
57	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Temperature Indicator / Data Logger / Temperature Transmitter	Using PRT with Temperature Indicator, 6½ Digit Multimeter & Oil Bath by Comparison Method	> 45 °C to 250 °C	0.7 °C
58	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Cold Chamber / Freezer - Single Position (For Non Medical Purpose Only)	Using PRT With Temperature Indicator by Comparison Method	(-) 40 °C to 0 °C	0.79 °C
59	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Furnace - Single Position	Using R Type Thermocouple with Indicator by Comparison Method	250 °C to 1200 °C	2.44 °C

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60	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Oven / Incubator / Bath - Single Position (For Non Medical Purpose Only)	Using PRT with Indicator by Comparison Method	0 to 250 °C	1.0 °C
61	THERMAL-TEMPERATURE	Thermocouple with or without Indicator / Data Logger, Temperature Transmitter / Digital Thermometer with sensor	Using S Type Thermocouple with Indicator, 6½ Digit Multimeter & Dry Block Bath by Comparison Method	250 °C to 1200 °C	2.5 °C

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