National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : R-ONE TECHLABS PRIVATE LIMITED, P NO E-227, ROAD NO. 9E, VKIA, JAIPUR, RAJASTHAN, 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 Digital Multimeter by Direct Method	100 µA to 400 mA	0.25 % to 0.23 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Digital Multimeter by Direct Method	33 µA to 100 µA	0.38 % to 0.25 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Digital Multimeter by Direct Method	400 mA to 10 A	0.23 % to 0.5 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 mV to 100 mV	4.7 % to 0.6 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 mV to 1000 V	0.6 % to 0.1 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Turn Ratio Meter	Using DMM (V/V Method) by Direct Method	11 Turn to 2200 Turn	0.74 % to 1.83 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, AC Power @ 50 Hz (0.1 Lead / Lag to UPF, 40 V to 600 V, 0.1 A to 20 A)	Using Multi Product Calibrator by Direct Method	2.4 W to 12000 W	2.97 % to 0.9 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, Active Energy @ (50 Hz, 0.5 Lead / Lag to UPF, 40 V to 300V, 0.5 A to 6A)	Using 3Ø Power / Energy Meter Calibrator by Direct Method	0.005 kWh to 0.9 kWh	0.0011 kWh to 0.008 kWh
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, Active Power @ (50 Hz, 0.5 Lead / Lag to UPF, 40 V to 300V, 0.5 A to 6A)	Using 3Ø Power / Energy Meter Calibrator by Direct Method	0.01 kW to 1.8 kW	5.86 % to 1.2 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, Active Energy @ (50 Hz, 0.5 Lead / Lag to UPF, 40 V to 300V, 0.5 A to 6A)	Using 3Ø Power / Energy Meter Calibrator by Direct Method	0.015 kWh to 2.7 kWh	0.0033 kWh to 0.0198 kWh
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, Active Power @ (50 Hz,0.5 Lead / Lag to UPF, 40 V to 300V, 0.5 A to 6A)	Using 3Ø Power / Energy Meter Calibrator by Direct Method	0.03 kW to 5.4 kW	2.16 % to 1.2 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi-Product Calibrator & Current Coil by Direct Method	10 A to 1000 A	0.78 % to 0.35 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi-Product Calibrator by Direct Method	33 µA to 330 µA	0.57 % to 0.18 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi-Product Calibrator by Direct Method	330 µA to 330 mA	0.18 % to 0.06 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi-Product Calibrator by Direct Method	330 mA to 20 A	0.06 % to 0.18 %

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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multi-Product Calibrator by Direct Method	1 mV to 330 mV	2.5 % to 0.05 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multi-Product Calibrator by Direct Method	330 mV to 1000 V	0.05 % to 0.06 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	100 pF to 100 µF	1.16 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	100 µH to 10 H	2.31 % to 2.33 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor , 1Ø, 240 V, 5A, 50 Hz (Lead / Lag)	Using Multi-Product Calibrator by Direct Method	0.087 PF to 1 PF	3.52 % to 0.09 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Capacitance	Using 6½ Digit Multimeter by Direct Method	1 nF to 100 µF	5.2 % to 1.85 %

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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	10 µA to 100 µA	0.35 % to 0.1 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 µA to 400 mA	0.1 % to 0.06 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	400 mA to 10 A	0.06 % to 0.18 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	1 Ohm to 100 Ohm	0.4 % to 0.03 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	100 Mohm to 1 Gohm	0.94 % to 2.32 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	100 Ohm to 100 Mohm	0.03 % to 0.94 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 4 Wire	Using 6½ Digit Multimeter & Multi Product Calibrator by V/I Method	0.1 mohm	0.31 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 4 Wire	Using 6½ Digit Multimeter & Multi Product Calibrator by V/I Method	1 mohm to 1 Ohm	0.09 % to 0.07 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 mV to 100 mV	0.4 % to 0.08 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 mV to 1000 V	0.08 % to 0.008 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	1 µA to 330 µA	2.4 % to 0.07 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator & Current Coil by Direct Method	10 A to 1000 A	0.2 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	330 µA to 330 mA	0.07 % to 0.03 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	330 mA to 20 A	0.03 % to 0.13 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Resistance @ 5000 V	Using High Resistance Box by Direct Method	1 Gohm to 1000 Gohm	2.3 % to 2.52 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	1 Ohm to 100 Ohm	0.6 % to 0.12 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Multi-Product Calibrator by Direct Method	1 Ohm to 330 Ohm	0.48 % to 0.02 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	100 kohm to 20 Mohm	0.12 %

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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	100 Mohm to 900 Mohm	0.92 % to 0.85 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	100 Ohm to 100 kohm	0.12 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	20 Mohm to 100 Mohm	0.12 % to 0.92 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Multi-Product Calibrator by Direct Method	3.3 kohm to 330 kohm	0.04 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Multi-Product Calibrator by Direct Method	300 Mohm to 1000 Mohm	0.58 % to 2.14 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Multi-Product Calibrator by Direct Method	330 kohm to 300 Mohm	0.04 % to 0.58 %

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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Multi-Product Calibrator by Direct Method	330 Ohm to 3.3 kohm	0.02 % to 0.04 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Standard Resistance Box by Direct Method	1 mohm	0.9 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Standard Resistance Box by Direct Method	1 Ohm	0.7 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Standard Resistance Box by Direct Method	10 mohm	0.76 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Standard Resistance Box by Direct Method	100 µohm	0.95 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Standard Resistance Box by Direct Method	100 mohm	0.78 %

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52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi-Product Calibrator by Direct Method	1 mV to 330 mV	0.8 % to 0.019 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi-Product Calibrator by Direct Method	330 mV to 1000 V	0.019 % to 0.007 %
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD	Using Universal Calibrator by Direct Method	(-) 160 °C to 800 °C	0.3 °C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B Type	Using Universal Calibrator by Direct Method	450 °C to 1800 °C	0.69 °C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 750 °C	0.36 °C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.36 °C

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58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.37 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using Universal Calibrator by Direct Method	200 °C to 1500 °C	0.58 °C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using Universal Calibrator by Direct Method	200 °C to 1500 °C	0.59 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T Type	Using Universal Calibrator by Direct Method	30 °C to 400 °C	0.36 °C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using Universal Calibrator by Direct Method	(-) 160 °C to 800 °C	0.32 °C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B Type	Using Universal Calibrator by Direct Method	450 °C to 1800 °C	0.58 °C

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64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 750 °C	0.36 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.36 °C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N Type	Using Universal Calibrator by Direct Method	-200 °C to 1300 °C	0.36 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Universal Calibrator by Direct Method	200 °C to 1500 °C	0.58 °C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Universal Calibrator by Direct Method	200 °C to 1500 °C	0.58 °C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T Type	Using Universal Calibrator by Direct Method	30 °C to 400 °C	0.35 °C

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70	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	10 Hz to 100 kHz	0.014 %
71	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Standard Digital Time Calibrator by Comparison Method	1 s to 60 s	0.06 s
72	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Standard Digital Time Calibrator by Comparison Method	3600 s to 86400 s	2.6 s to 11.13 s
73	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Standard Digital Time Calibrator by Comparison Method	60 s to 3600 s	0.06 s to 2.6 s
74	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi-Product Calibrator by Direct Method	1 Hz to 45 Hz	0.6 % to 0.017 %
75	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi-Product Calibrator by Direct Method	1 kHz to 1 MHz	0.008 % to 0.006 %

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76	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi-Product Calibrator by Direct Method	45 Hz to 1000 Hz	0.017 % to 0.008 %
77	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Tachometer Calibrator and Digital Tachometer by Comparison Method	> 100 rpm to 1000 rpm	4 rpm
78	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Tachometer Calibrator and Digital Tachometer by Comparison Method	> 1000 rpm to 7000 rpm	26 rpm
79	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Tachometer Calibrator and Digital Tachometer by Comparison Method	50 rpm to 100 rpm	1.9 rpm
80	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Tachometer Calibrator and Digital Tachometer by Comparison Method	> 10000 rpm to 99000 rpm	16 rpm
81	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Tachometer Calibrator and Digital Tachometer by Comparison Method	> 200 rpm to 10000 rpm	4.2 rpm

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82	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Tachometer Calibrator and Digital Tachometer by Comparison Method	50 rpm to 200 rpm	2.2 rpm
83	MECHANICAL-ACOUSTICS	Sound Level Meter @1 kHz	Using Sound Calibrator by Direct Method	114 dB	0.64 dB
84	MECHANICAL-ACOUSTICS	Sound Level Meter @1 kHz	Using Sound Calibrator by Direct Method	94 dB	0.65 dB
85	MECHANICAL-DENSITY AND VISCOSITY	Alcometer	Using Precision Balance (Readability: 0.0001 g) by Hydrostatic Weighing (Cuckow's) Method as per NIST SP 250-78	0.6 g/ml to 2 g/ml	0.0009 g/ml
86	MECHANICAL-DENSITY AND VISCOSITY	Baume Hydrometer	Using Precision Balance (Readability: 0.0001 g) by Hydrostatic Weighing (Cuckow's) Method as per NIST SP 250-78	0.6 g/ml to 2 g/ml	0.0019 g/ml

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87	MECHANICAL-DENSITY AND VISCOSITY	Brix Hydrometer	Using Precision Balance (Readability: 0.0001 g) by Hydrostatic Weighing (Cuckow's) Method as per NIST SP 250-78	0.6 g/ml to 2 g/ml	0.0017 g/ml
88	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometer	Using Precision Balance (Readability: 0.0001 g) by Hydrostatic Weighing (Cuckow's) Method as per NIST SP 250-78	0.6 g/ml to 2 g/ml	0.0009 g/ml
89	MECHANICAL-DENSITY AND VISCOSITY	Lactometer	Using Precision Balance (Readability: 0.0001 g) by Hydrostatic Weighing (Cuckow's) Method as per NIST SP 250-78	0.6 g/ml to 2 g/ml	0.0017 g/ml
90	MECHANICAL-DENSITY AND VISCOSITY	Specific Gravity Hydrometer	Using Precision Balance (Readability: 0.0001 g) by Hydrostatic Weighing (Cuckow's) Method as per NIST SP 250-78	0.6 g/ml to 2 g/ml	0.0009 g/ml

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91	MECHANICAL-DENSITY AND VISCOSITY	Twaddle Hydrometer	Using Precision Balance (Readability: 0.0001 g) by Hydrostatic Weighing (Cuckow's) Method as per NIST SP 250-78	0.6 g/ml to 2 g/ml	0.0011 g/ml
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge	Using Digital Vernier Caliper by Comparison Method	0 to 100 mm	34.5 µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor / Angle Protractor / Combination Set - Angle (L.C.: 5')	Using Angle Gauges by Comparison Method	0 to 360 °	210.8 s
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge - Transmission Error (L.C.: 0.01 mm)	Using Dial Calibration Tester by Comparison Method	0 to 1 mm	1.7 µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Caliper Checker & Slip Gauge Block Set by Comparison Method	0 to 300 mm	12.8 µm

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96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Caliper Checker & Slip Gauge Block Set by Comparison Method	0 to 150 mm	7.4 µm
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Caliper Checker & Slip Gauge Block Set by Comparison Method	0 to 600 mm	13 µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge / Coat Meter (L.C.: 0.1 µm)	Using Standard Foils by Comparison Method	52 µm to 990 µm	8.4 µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould	Using Digital Vernier Caliper by Comparison Method	0 to 300 mm	26.6 µm
100	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	3.5 µm

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101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator Plunger Type - Analog / Digital (L.C.: 0.01 mm)	Using Slip Gauge Set & Comparator Stand by Comparison Method	0 to 25 mm	2.5 µm
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.001 mm)	Using Slip Gauge Block Set by Comparison Method	0 to 10 mm	1.3 µm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.01 mm)	Using Slip Gauge Block Set by Comparison Method	0 to 25 mm	6 µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Digital / Analog (L.C.: 0.001 mm)	Using Slip Gauge Block Set by Comparison Method	0 to 25 mm	1.2 µm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Digital / Analog (L.C.: 0.001 mm)	Using Slip Gauge Block Set, Slip Gauge Accessories, Optical Parallel Set by Comparison Method	0 to 150 mm	4.2 µm

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106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Micrometer by Comparison Method	Upto 1 mm	3 µm
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Gauge	Using Digital Vernier Caliper by Comparison Method	0 to 100 mm	35.2 µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Caliper Checker & Surface Plate by Comparison Method	0 to 300 mm	9 µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Caliper Checker & Surface Plate by Comparison Method	0 to 600 mm	14 µm
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C.: 0.5 / 1 mm)	Using Tape & Scale Calibrator by Comparison Method	0 to 1000 mm	589.1*(L) µm, Where L is in metre

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111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape / Pi Tape (L.C.: 1 mm)	Using Tape & Scale Calibrator by Comparison Method	0 to 50000 mm	117 * Sqrt (L) µm, Where L is in metre
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C.: 0.01 mm)	Using Slip Gauge Set by Comparison Method	Upto 200 mm	72.8 µm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Gauge - Angle	Using Profile Projector by Direct Method	55° & 60°	4 minute of arc
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Gauge / Pitch Measurement - Length	Using Profile Projector by Direct Method	0.2 mm to 20 mm	7 µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector by Comparison Method	0 to 25 mm	7 µm

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116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Step Gauge	Using Digital Micrometer by Comparison Method	Upto 25 mm	9.4 µm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale	Using Profile Projector by Comparison Method	0.1 mm to 30 mm	22 µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector by Comparison Method	20 µm to 4.75 mm	9 µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Digital Vernier Caliper by Comparison Method	4.75 mm to 150 mm	26 µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C.: 0.1 mm)	Using Slip Gauge Set by Comparison Method	0 to 100 mm	59 µm

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121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using Gauge Block, Comparator Stand with Dial Gauge by Comparison Method	Upto 7 mm	4.9 µm
122	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	LVDT Probe, Electronic Probe with Indicator (L.C.: 0.01 mm)	Using Slip Gauge Block Set by Comparison Method	0 to 100 mm	17.4 µm
123	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	LVDT Probe, Electronic Probe with Indicator, Digital Dial Gauge (L.C.: 0.001 mm)	Using Slip Gauge Block Set by Comparison Method	0 to 25 mm	3 µm
124	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope - Magnifcation	Using Glass Scale & Digital Vernier Caliper by Comparison Method	Upto 100 X	0.2 %
125	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure : Digital / Analog Pressure Gauge	Using Digital Pressure Gauge with Hydraulic Pump by Comparison Method as per DKD R-6-1	0 to 700 bar	1.16 bar
126	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Dial and Digital Pressure Gauge	Using Digital Pressure Indicator with Hydraulic Pump by Comparison Method based on DKD-R-6-1	0 to 60 bar	0.07 bar

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127	MECHANICAL-PRESSURE INDICATING DEVICES	Manometer, Pressure Gauge (Absolute), Barometer	Using Digital Pressure Calibrator, Barometer Calibration System by Comparison Method based on DKD-R-6-1	200 mbar (abs) to 1200 mbar (abs)	0.88 mbar
128	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure : Dial and Digital Pressure Gauge	Using Digital Pressure Indicator with Hydraulic Pump by Comparison Method based on DKD-R-6-1	0 to 7 bar	0.0093 bar
129	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge - Dial and Digital	Using Digital Pressure Indicator with Pneumatic Pump by Comparison Method based on DKD-R-6-1	(-) 0.9 bar to 0	0.0093 bar
130	MECHANICAL-VOLUME	Burette, Pipette, Volumetric Flask, Measuring Cylinder & Container	Using Precision Balance(Readability: 0.0001 g) Distilled Water by Gravimetric Method Based as per ISO 4787:2021	> 10 ml to 100 ml	6.2 µl

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131	MECHANICAL-VOLUME	Burette, Pipette, Volumetric Flask, Measuring Cylinder & Container	Using Precision Balance(Readability: 0.00001 g) Distilled Water by Gravimetric Method Based as per ISO 4787:2021	1 ml to 10 ml	5 µl
132	MECHANICAL-VOLUME	Burette, Pipette, Volumetric Flask, Measuring Cylinder, Beaker & Container	Using Precision Balance(Readability: 0.0001 g) Distilled Water by Gravimetric Method Based as per ISO 4787:2021	> 100 ml to 500 ml	75 µl
133	MECHANICAL-VOLUME	Burette, Pipette, Volumetric Flask, Measuring Cylinder, Beaker & Container	Using Precision Balance(Readability: 0.01 g) Distilled Water by Gravimetric Method Based as per ISO 4787:2021	> 1000 ml to 2000 ml	60 µl
134	MECHANICAL-VOLUME	Micropipette	Using Precision Balance (Readability: 0.00001 g) Distilled Water as per ISO 8655-6:2022	> 10 µl to 100 µl	0.4 µl

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135	MECHANICAL-VOLUME	Micropipette	Using Precision Balance (Readability: 0.00001 g) Distilled Water as per ISO 8655-6:2022	> 100 µl to 1000 µl	4 µl
136	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class I and Coarser (Readability: 10 mg)	Using F1 Class Weights by Comparison Method as per OIML R-76-1	0 to 1 kg	12 mg
137	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 220 g	0.72 mg
138	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class II and Coarser (Readability: 1 g)	Using F1 Class Weights by Comparison Method as per OIML R-76-1	0 to 20 kg	7.3 g
139	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class IIII (Readability: 5 g)	Using F1 Class Weights by Comparison Method as per OIML R-76-1	0 to 100 kg	10 g
140	MECHANICAL-WEIGHTS	Weight (F1 Class & Coarser)	Using E2 Class Weights and Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	1 g	0.013 mg

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141	MECHANICAL-WEIGHTS	Weight (F1 Class & Coarser)	Using E2 Class Weights and Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	10 g	0.06 mg
142	MECHANICAL-WEIGHTS	Weight (F1 Class & Coarser)	Using E2 Class Weights and Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	100 g	0.13 mg
143	MECHANICAL-WEIGHTS	Weight (F1 Class & Coarser)	Using E2 Class Weights and Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	100 mg	0.016 mg
144	MECHANICAL-WEIGHTS	Weight (F1 Class & Coarser)	Using E2 Class Weights and Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	2 g	0.02 mg

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145	MECHANICAL-WEIGHTS	Weight (F1 Class & Coarser)	Using E2 Class Weights and Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	20 g	0.08 mg
146	MECHANICAL-WEIGHTS	Weight (F1 Class & Coarser)	Using E2 Class Weights and Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	20 mg	0.01 mg
147	MECHANICAL-WEIGHTS	Weight (F1 Class & Coarser)	Using E2 Class Weights and Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	200 g	0.13 mg
148	MECHANICAL-WEIGHTS	Weight (F1 Class & Coarser)	Using E2 Class Weights and Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	200 mg	0.02 mg

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149	MECHANICAL-WEIGHTS	Weight (F1 Class & Coarser)	Using E2 Class Weights and Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	5 g	0.05 mg
150	MECHANICAL-WEIGHTS	Weight (F1 Class & Coarser)	Using E2 Class Weights and Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	50 g	0.085 mg
151	MECHANICAL-WEIGHTS	Weight (F1 Class & Coarser)	Using E2 Class Weights and Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	50 mg	0.01 mg
152	MECHANICAL-WEIGHTS	Weight (F1 Class & Coarser)	Using E2 Class Weights and Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	500 mg	0.015 mg

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153	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using F1 Class Weights and Balance (Readability: 0.001 g) by Substitution Method (ABBA Cycle) as per OIML R-111	1 kg	1.5 mg
154	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weights and Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	1 mg	0.009 mg
155	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weights and Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	10 mg	0.02 mg
156	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weights and Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	2 mg	0.03 mg

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157	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using F1 Class Weights and Balance (Readability: 0.01 g) by Substitution Method (ABBA Cycle) as per OIML R-111	5 kg	20 mg
158	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using E2 Class Weights and Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	5 mg	0.015 mg
159	MECHANICAL-WEIGHTS	Weight (F2 Class & Coarser)	Using F1 Class Weights and Balance (Readability: 1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	500 g	1.5 mg
160	MECHANICAL-WEIGHTS	Weight (M1 Class & Coarser)	Using F1 Class Weights and Balance (Readability: 0.1 g) by Substitution Method (ABBA Cycle) as per OIML R-111	10 kg	110 mg

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161	MECHANICAL-WEIGHTS	Weight (M1 Class & Coarser)	Using F1 Class Weights and Balance (Readability: 0.01 g) by Substitution Method (ABBA Cycle) as per OIML R-111	2 kg	13 mg
162	MECHANICAL-WEIGHTS	Weight (M2 Class & Coarser)	Using F1 Class Weights, Weighing Balance (Readability: 10 g) by Substitution Method (ABBA Cycle) as per OIML R-111	100 kg	0.166 g
163	MECHANICAL-WEIGHTS	Weight (M2 Class & Coarser)	Using F1 Class Weights, Weighing Balance (Readability: 10 g) by Substitution Method (ABBA Cycle) as per OIML R-111	50 kg	2 g
164	MECHANICAL-WEIGHTS	Weight (M3 Class)	Using F1 Class Weights and Balance (Readability: 0.1 g) by Substitution Method (ABBA Cycle) as per OIML R-111	20 kg	110 mg

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165	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo Hygrometer - Digital & Analog RH Sensor with Indicator / Recorder / Data Logger - @ 50 %RH	Using Standard RH Sensor with Temperature & Humidity Generator by Comparison Method	5 °C to 50 °C	0.58 °C
166	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo Hygrometer - Digital & Analog RH Sensor with Indicator / Recorder / Data Logger - @ 25°C	Using Standard RH Sensor with Temperature & Humidity Generator by Comparison Method	20 %RH to 95 %RH	1.63 %RH
167	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD Sensor with Indicator, Liquid Bath by Comparison Method	(-) 80 °C to 50 °C	0.31 °C
168	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD Sensor with Indicator, Liquid Bath by Comparison Method	50 °C to 250 °C	0.2 °C
169	THERMAL-TEMPERATURE	RTD, Thermocouple with and without Controller / Indicator / Temperature Gauge, Digital Thermometer, Data Logger / Recorder with Sensor	Using RTD with Indicator, Universal Calibrator, Liquid Bath by Comparison Method	(-) 80 °C to 250 °C	0.21 °C

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170	THERMAL-TEMPERATURE	Thermocouples with and without Controller / Indicator / Temperature Gauge, Digital Thermometer, Data Logger / Recorder with Sensor	Using R Type Thermocouple with Indicator, Universal Calibrator, Dry Block Furnace 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 Digital Multimeter by Direct Method	100 µA to 400 mA	0.25 % to 0.23 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Digital Multimeter by Direct Method	33 µA to 100 µA	0.38 % to 0.25 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Digital Multimeter by Direct Method	400 mA to 10 A	0.23 % to 0.5 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Divider with Digital Multimeter by Direct Method	1 kV to 100 kV	1.9 % to 3.16 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 mV to 100 mV	4.7 % to 0.6 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 mV to 1000 V	0.6 % to 0.1 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Turn Ratio Meter	Using DMM (V/V Method) by Direct Method	11 Turn to 2200 Turn	0.74 % to 1.83 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, AC Power @ 50 Hz (0.1 Lead / Lag to UPF, 40 V to 600 V, 0.1 A to 20 A)	Using Multi Product Calibrator by Direct Method	2.4 W to 12000 W	2.97 % to 0.9 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, Active Energy @ (50 Hz, 0.5 Lead / Lag to UPF, 40 V to 300V, 0.5 A to 6A)	Using 3Ø Power / Energy Meter Calibrator by Direct Method	0.005 kWh to 0.9 kWh	0.0011 kWh to 0.008 kWh

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø, Active Power @ (50 Hz, 0.5 Lead / Lag to UPF, 40 V to 300V, 0.5 A to 6A)	Using 3Ø Power / Energy Meter Calibrator by Direct Method	0.01 kW to 1.8 kW	5.86 % to 1.2 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, Active Energy @ (50 Hz, 0.5 Lead / Lag to UPF, 40 V to 300V, 0.5 A to 6A)	Using 3Ø Power / Energy Meter Calibrator by Direct Method	0.015 kWh to 2.7 kWh	0.0033 kWh to 0.0198 kWh
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø, Active Power @ (50 Hz,0.5 Lead / Lag to UPF, 40 V to 300V, 0.5 A to 6A)	Using 3Ø Power / Energy Meter Calibrator by Direct Method	0.03 kW to 5.4 kW	2.16 % to 1.2 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi-Product Calibrator & Current Coil by Direct Method	10 A to 1000 A	0.78 % to 0.35 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi-Product Calibrator by Direct Method	33 µA to 330 µA	0.57 % to 0.18 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi-Product Calibrator by Direct Method	330 µA to 330 mA	0.18 % to 0.06 %

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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi-Product Calibrator by Direct Method	330 mA to 20 A	0.06 % to 0.18 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multi-Product Calibrator by Direct Method	1 mV to 330 mV	2.5 % to 0.05 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multi-Product Calibrator by Direct Method	330 mV to 1000 V	0.05 % to 0.06 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	100 pF to 100 µF	1.16 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	100 µH to 10 H	2.31 % to 2.33 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor , 1Ø, 240 V, 5A, 50 Hz (Lead / Lag)	Using Multi-Product Calibrator by Direct Method	0.087 PF to 1 PF	3.52 % to 0.09 %

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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Capacitance	Using 6½ Digit Multimeter by Direct Method	1 nF to 100 µF	5.2 % to 1.85 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	10 µA to 100 µA	0.35 % to 0.1 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 µA to 400 mA	0.1 % to 0.06 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	400 mA to 10 A	0.06 % to 0.18 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	1 Ohm to 100 Ohm	0.4 % to 0.03 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	100 Mohm to 1 Gohm	0.94 % to 2.32 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	100 Ohm to 100 Mohm	0.03 % to 0.94 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 4 Wire	Using 6½ Digit Multimeter & Multi Product Calibrator by V/I Method	0.1 mohm	0.31 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 4 Wire	Using 6½ Digit Multimeter & Multi Product Calibrator by V/I Method	1 mohm to 1 Ohm	0.09 % to 0.07 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 mV to 100 mV	0.4 % to 0.08 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 mV to 1000 V	0.08 % to 0.008 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	1 µA to 330 µA	2.4 % to 0.07 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator & Current Coil by Direct Method	10 A to 1000 A	0.2 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	330 µA to 330 mA	0.07 % to 0.03 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	330 mA to 20 A	0.03 % to 0.13 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Resistance @ 5000 V	Using High Resistance Box by Direct Method	1 Gohm to 1000 Gohm	2.3 % to 2.52 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	1 Ohm to 100 Ohm	0.6 % to 0.12 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Multi-Product Calibrator by Direct Method	1 Ohm to 330 Ohm	0.48 % to 0.02 %

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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	100 kohm to 20 Mohm	0.12 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	100 Mohm to 900 Mohm	0.92 % to 0.85 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	100 Ohm to 100 kohm	0.12 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	20 Mohm to 100 Mohm	0.12 % to 0.92 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Multi-Product Calibrator by Direct Method	3.3 kohm to 330 kohm	0.04 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Multi-Product Calibrator by Direct Method	300 Mohm to 1000 Mohm	0.58 % to 2.14 %

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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Multi-Product Calibrator by Direct Method	330 kohm to 300 Mohm	0.04 % to 0.58 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Multi-Product Calibrator by Direct Method	330 Ohm to 3.3 kohm	0.02 % to 0.04 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Standard Resistance Box by Direct Method	1 mohm	0.9 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Standard Resistance Box by Direct Method	1 Ohm	0.7 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Standard Resistance Box by Direct Method	10 mohm	0.76 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Standard Resistance Box by Direct Method	100 µohm	0.95 %

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52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Standard Resistance Box by Direct Method	100 mohm	0.78 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi-Product Calibrator by Direct Method	1 mV to 330 mV	0.8 % to 0.019 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi-Product Calibrator by Direct Method	330 mV to 1000 V	0.019 % to 0.007 %
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD	Using Universal Calibrator by Direct Method	(-) 160 °C to 800 °C	0.3 °C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B Type	Using Universal Calibrator by Direct Method	450 °C to 1800 °C	0.69 °C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 750 °C	0.36 °C

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58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.36 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.37 °C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using Universal Calibrator by Direct Method	200 °C to 1500 °C	0.58 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using Universal Calibrator by Direct Method	200 °C to 1500 °C	0.59 °C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T Type	Using Universal Calibrator by Direct Method	30 °C to 400 °C	0.36 °C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using Universal Calibrator by Direct Method	(-) 160 °C to 800 °C	0.32 °C

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64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B Type	Using Universal Calibrator by Direct Method	450 °C to 1800 °C	0.58 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 750 °C	0.36 °C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.36 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N Type	Using Universal Calibrator by Direct Method	-200 °C to 1300 °C	0.36 °C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Universal Calibrator by Direct Method	200 °C to 1500 °C	0.58 °C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Universal Calibrator by Direct Method	200 °C to 1500 °C	0.58 °C

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70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T Type	Using Universal Calibrator by Direct Method	30 °C to 400 °C	0.35 °C
71	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	10 Hz to 100 kHz	0.014 %
72	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Standard Digital Time Calibrator by Comparison Method	1 s to 60 s	0.06 s
73	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Standard Digital Time Calibrator by Comparison Method	3600 s to 86400 s	2.6 s to 11.13 s
74	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Standard Digital Time Calibrator by Comparison Method	60 s to 3600 s	0.06 s to 2.6 s
75	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi-Product Calibrator by Direct Method	1 Hz to 45 Hz	0.6 % to 0.017 %

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76	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi-Product Calibrator by Direct Method	1 kHz to 1 MHz	0.008 % to 0.006 %
77	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi-Product Calibrator by Direct Method	45 Hz to 1000 Hz	0.017 % to 0.008 %
78	MECHANICAL-ACCELERATION AND SPEED	RPM Meter with Sensor, Centrifuge	Using Standard Tachometer by Comparison Method	> 10000 rpm to 99000 rpm	14.4 rpm
79	MECHANICAL-ACCELERATION AND SPEED	RPM Meter with Sensor, Centrifuge	Using Standard Tachometer by Comparison Method	> 200 rpm to 10000 rpm	3.8 rpm
80	MECHANICAL-ACCELERATION AND SPEED	RPM Meter with Sensor, Centrifuge	Using Standard Tachometer by Comparison Method	50 rpm to 200 rpm	1.8 rpm
81	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Tachometer Calibrator and Digital Tachometer by Comparison Method	> 100 rpm to 1000 rpm	4 rpm
82	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Tachometer Calibrator and Digital Tachometer by Comparison Method	> 1000 rpm to 7000 rpm	26 rpm

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83	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Tachometer Calibrator and Digital Tachometer by Comparison Method	50 rpm to 100 rpm	1.9 rpm
84	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Tachometer Calibrator and Digital Tachometer by Comparison Method	> 10000 rpm to 99000 rpm	16 rpm
85	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Tachometer Calibrator and Digital Tachometer by Comparison Method	> 200 rpm to 10000 rpm	4.2 rpm
86	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Tachometer Calibrator and Digital Tachometer by Comparison Method	50 rpm to 200 rpm	2.2 rpm
87	MECHANICAL-ACOUSTICS	Sound Level Meter @1 kHz	Using Sound Calibrator by Direct Method	114 dB	0.64 dB
88	MECHANICAL-ACOUSTICS	Sound Level Meter @1 kHz	Using Sound Calibrator by Direct Method	94 dB	0.65 dB

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89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Digital Vernier Caliper by Comparison Method	4.75 mm to 150 mm	26 µm
90	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope - Magnifcation	Using Glass Scale & Digital Vernier Caliper by Comparison Method	Upto 100 X	0.2 %
91	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angular (L.C.: 1 s)	Using Angular Glass Scale by Direct Method	0 to 360 °	30 s
92	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Linear (L.C.: 0.001 mm)	Using Glass Scale & Gauge Block by Direct Method	0 to 150 mm	6 µm
93	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Gauge Block & Digital Caliper by Direct Method	10 X to 50x X	0.2 %
94	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500-2 : 2021	HBW 10/3000	2.1 %

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95	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500-2 : 2021	HBW 2.5/187.5	2.1 %
96	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Brinell Hardness Tester	Using Standard Hardness Test Blocks by Indirect Method as per IS 1500-2 : 2021	HBW 5/750	2.1 %
97	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Tester	Using Standard Hardness Test blocks by Indirect Method as per IS 1586 : 2018	HRA	0.9 HRA
98	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Tester	Using Standard Hardness Test blocks by Indirect Method as per IS 1586 : 2018	HRBW	1.1 HRBW
99	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Tester	Using Standard Hardness Test blocks by Indirect Method as per IS 1586 : 2018	HRC	0.8 HRC
100	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure : Digital / Analog Pressure Gauge	Using Digital Pressure Gauge with Hydraulic Pump by Comparison Method as per DKD R-6-1	0 to 700 bar	1.16 bar

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101	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Dial and Digital Pressure Gauge	Using Digital Pressure Indicator with Hydraulic Pump by Comparison Method based on DKD-R-6-1	0 to 60 bar	0.07 bar
102	MECHANICAL-PRESSURE INDICATING DEVICES	Manometer, Pressure Gauge (Absolute), Barometer	Using Digital Pressure Calibrator, Barometer Calibration System by Comparison Method based on DKD-R-6-1	200 mbar (abs) to 1200 mbar (abs)	0.88 mbar
103	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure : Dial and Digital Pressure Gauge	Using Digital Pressure Indicator with Hydraulic Pump by Comparison Method based on DKD-R-6-1	0 to 7 bar	0.0093 bar
104	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge - Dial and Digital	Using Digital Pressure Indicator with Pneumatic Pump by Comparison Method based on DKD-R-6-1	(-) 0.9 bar to 0	0.0093 bar
105	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing Machine - Compression	Using Load Cell and Force Proving Ring as per IS 1828 (Part 1) : 2022	50 N to 2000 kN	0.66 %

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106	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing Machine - Tension	Using Load Cell and Force Proving Ring as per IS 1828 (Part 1) : 2022	50 N to 100 kN	0.86 %
107	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 220 g	0.72 mg
108	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class II and Coarser (Readability: 1 g)	Using F1 Class Weights by Comparison Method as per OIML R-76-1	0 to 20 kg	7.3 g
109	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class IIII (Readability: 5 g)	Using F1 Class Weights by Comparison Method as per OIML R-76-1	0 to 100 kg	10 g
110	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with Sensor of Humidity Calibrator / Generator Chamber - Single Position @ 25°C	Using Temperature & RH Sensor with Indicator by Comparison Method	20 %RH to 95 %RH	1.63 %RH
111	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with Sensor of Humidity Calibrator / Generator Chamber - Single Position @ 50 %RH	Using Temperature & RH Sensor with Indicator by Comparison Method	5 °C to 50 °C	0.59 °C

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112	THERMAL-TEMPERATURE	Indicator with Sensor of Oil Bath, Water Bath, Temperature Bath, Dry Block, Hot Air Oven, Chamber, Incubator, Autoclave, BOD, COD, Dry Block, Furnace, Chamber, Deep Freezer, Refrigerator - Single Position	Using RTD with Indicator by Comparison Method	(-) 80 °C to 250 °C	0.2 °C
113	THERMAL-TEMPERATURE	Indicator with Sensor of Temperature Bath, Dry Block, Furnace, Muffle Furnace - Single Position	Using R Type Thermocouple with indicator by Comparison Method	250 °C to 1200 °C	2.5 °C
114	THERMAL-TEMPERATURE	RTD, Thermocouple with and without Controller / Indicator / Temperature Gauge, Digital Thermometer, Data Logger / Recorder with Sensor	Using RTD with Indicator, Universal Calibrator, Liquid Bath by Comparison Method	(-) 80 °C to 250 °C	0.21 °C

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115	THERMAL-TEMPERATURE	Thermocouples with and without Controller / Indicator / Temperature Gauge, Digital Thermometer, Data Logger / Recorder with Sensor	Using R Type Thermocouple with Indicator, Universal Calibrator, Dry Block Furnace 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.**