National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

UNIQUE CALIBRATION SOLUTIONS LLP

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

5/D3 , EK APARTMENTS ,MEC ROAD ,THRIKKAKARA ,EDAPALLY ,KOCHI, ERNAKULAM, KERALA, INDIA

in the field of

CALIBRATION

Certificate Number: CC-3102

Issue Date: 29/01/2024 **Valid Until:** 28/01/2026

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: UNIQUE CALIBRATION SOLUTIONS LLP

Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	UNIQUE CALIBRATION SOLUTIONS LLP, 5/D3 , EK APARTMENTS ,MEC ROAD ,THRIKKAKARA ,EDAPALLY ,KOCHI, ERNAKULAM, KERALA, 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	0.4 A to 10 A	0.23 % to 0.28 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @50 Hz	Using HV Probe with Digital Multimeter by Comparison method	1 kV to 10 kV	7.88 % to 7.58 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Digital Multimeter by Direct Method	1 mV to 750 V	4.73 % to 0.11 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance@1 kHz	Using Digital LCR Meter by Comparison Method	100 µH to 10 H	0.32 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Resistance@1 kHz	Using Digital LCR Meter by Comparison Method	1 Ohm to 10 kohm	0.25 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø AC Energy @ 50 Hz, 0.5 (Lead/Lag), 50 V to 300 V, 1 A to 6 A	Using 3Ø Power Energy Meter Calibrator by Direct Method	0.025 kWh to 0.90 kWh	3.82 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø AC Energy @ 50 Hz, UPF, 50 V to 300 V, 1 A to 6 A	Using 3Ø Power Energy Meter Calibrator by Direct Method	0.05 kWh to 1.8 kWh	1.65 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø AC Power @50 Hz, 0.5 (Lead/Lag), 50 V to 30 V, 1 A to 6 A)	Using 3Ø Power Energy Meter Calibrator by Direct Method	25 W to 0.9 kW	3.27 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø AC Power @50 Hz, UPF, 50 V to 300 V,1 A to 6 A	Using 3Ø Energy Meter Calibrator by Direct Method	50 W to 1.8 kW	1.65 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø AC Energy @ 50 Hz, 0.5 (Lead/Lag), 50 V to 300 V, 1 A to 6 A	Using 3Ø Power Energy Meter Calibrator by Direct Method	0.075 kWh to 2.70 kWh	1.23 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø AC Energy @ 50 Hz, UPF, 50 V to 300 V, 1 A to 6 A	Using 3Ø Power Energy Meter Calibrator by Direct Method	0.15 kWh to 5.40 kWh	0.72 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø AC Power @50 Hz, 0.5 (Lead/Lag), 50 V to 300 V, 1 A to 6 A	Using 3Ø Power Energy Meter Calibrator by Direct Method	25 W to 0.9 kW	3.27 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø AC Power @50 Hz, UPF, 50 V to 300 V, 1 A to 6 A	Using 3Ø Power Energy Meter Calibrator by Direct Method	50 W to 1.8 kW	1.65 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5½ Digit Multifunction Calibrator by Direct Method	0.2 mA to 400 mA	0.36 % to 0.20 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @1 kHz	Using 5½ Digit Multifunction Calibrator by Direct Method	0.2 mA to 400 mA	0.36 % to 0.20 %

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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @1 kHz	Using 5½ Digit Multifunction Calibrator by Direct Method	0.4 A to 10 A	0.28 % to 0.34 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using 5½ Digit Multifunction Calibrator by Direct Method	0.4 A to 10 A	0.28 % to 0.34 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current @50 Hz	Using 5½ Digit Multifunction Calibrator With Current Coil by Direct Method	20 A to 1000 A	1.41 % to 1.24 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5½ Digit Multifunction Calibrator by Direct Method	100 mV to 1000 V	0.24 % to 0.23 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5½ Digit Multifunction Calibrator by Direct Method	10 mV to 100 mV	0.30 % to 0.24 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @1 kHz	Using 5½ Digit Multifunction Calibrator by Direct Method	10 mV to 100 mV	0.30 % to 0.19 %

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22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1 kHz	Using Decade Capacitance Box by Direct Method	1 nF to 100 µF	1.22 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance@1 kHz	Using Decade Inductance Box by Direct Method	100 µH to 10 H	1.38 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor 1Ø at 300 V/ 6 A / 50 Hz	Using 3Ø Power Energy Meter Calibrator by Direct Method	0.5 (Lead/Lag) to UPF	0.0071 PF
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor 3Ø at 300 V/ 6 A/ 50 H z	Using 3Ø Power Energy Meter Calibrator by Direct Method	0.5 (Lead/Lag) to UPF	0.0071 PF
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Digital Multimeter by Direct Method.	0.4 A to 10 A	0.094 % to 0.18 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Digital Multimeter by Direct Method	10 µA to 400 mA	0.38 % to 0.094 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Current	Using 6½ Digit Digital Multimeter & Shunt by direct method	10 A to 300 A	3.73 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with Digital Multimeter by Comparison Method	1 kV to 20 kV	5.99 % to 9.07 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Digital Multimeter by Direct Method.	1 kohm to 1 Mohm	0.017 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Digital Multimeter by Direct Method.	1 Mohm to 100 Mohm	0.017 % to 4.1 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Digital Multimeter by Direct Method.	1 Ohm to 1 kohm	0.047 % to 0.017 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Digit Multifunction Calibrator by Direct Method.	0.2 mA to 400 mA	0.19 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Digit Multifunction Calibrator by Direct Method.	0.4 A to 10 A	0.19 % to 0.25 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	Using 5½ Digit Multifunction Calibrator With Current Coil by Direct Method.	20 A to 1000 A	1 .23 % to 1 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Standard Resistance Box by Direct Method	1000 Gohm	10.23 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Decade Resistance Box by Direct Method.	1 kohm to 1 Mohm	0.14 % to 0.15 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Decade Resistance Box by Direct Method.	1 Mohm to 1 Gohm	0.15 % to 2.37 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Decade Resistance Box by Direct Method.	1 Ohm to 10 Ohm	5.79 % to 0.62 %

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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Decade Resistance Box by Direct Method.	10 Ohm to 1 kohm	0.62 % to 0.14 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Standard Resistance Box by Direct Method	10 Gohm	8.76 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Standard Resistance Box by Direct Method	100 Gohm	10.23 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(4 Wire)	Using Low Resistance Standard Box by Direct Method	1 mohm	1.1 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(4 Wire)	Using Low Resistance Standard Box by Direct Method	10 mohm	0.92 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(4 Wire)	Using Low Resistance Standard Box by Direct Method	100 µohm	1.4 %

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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(4 Wire)	Using Low Resistance Standard Box by Direct Method	100 mohm	0.92 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Digit Multifunction Calibrator by Direct Method.	1 mV to 200 mV	1.60 % to 0.13 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Digit Multifunction Calibrator by Direct Method.	200 mV to 1000 V	0.13 % to 0.15 %
49	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Conductivity Meter	Using Universal Calibrator by Simulation Method	1 µs to 1000 µs (1 Mohm to 1 kohm)	0.88 % to 5.81 %
50	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude@1 kHz (Sine Wave)	Using Function/Arbitrary waveform generator by direct method	1 mVpp to 20 Vpp	0.02 % to 0.35 %
51	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude@1 kHz (Square Wave)	Using Function/Arbitrary waveform generator by direct method	1 mVpp to 20 Vpp	0.02 % to 0.35 %

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52	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth	Using Function/Arbitrary waveform generator by direct method	50 kHz to 200 MHz	3.5 %
53	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time Base(Marker)	Using Function/Arbitrary waveform generator by direct method	5 ns to 10 s	0.15 % to 0.01 %
54	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH Meter	Using Universal Calibrator by Simulation Method	0 to 14 pH (- 414.12 mV to 414.12 mV)	0.1 %
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B -Type Thermocouple	Using Temperature Universal Calibrator by Direct Method	600 °C to 1800 °C	4.76 °C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J -Type Thermocouple	Using Temperature Universal Calibrator by Direct Method	(-)200 °C to 1200 °C	1.71 °C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-Type Thermocouple	Using Temperature Universal Calibrator by Direct Method	(-)200 °C to 1300 °C	1.84 °C

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58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-Type Thermocouple	Using Temperature Universal Calibrator by Direct Method	(-)200 °C to 1300 °C	1.84 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type Thermocouple	Using Temperature Universal Calibrator by Direct Method	100 °C to 1750 °C	4.78 °C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT -100)	Using Temperature Universal Calibrator by Direct Method	(-)200 °C to 800 °C	1.84 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S-Type Thermocouple	Using Temperature Universal Calibrator by Direct Method	100 °C to 1750 °C	4.77 °C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T -Type Thermocouple	Using Temperature Universal Calibrator by Direct Method	(-)200 °C to 400 °C	1.28 °C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B-Type Thermocouple	Using Temperature Universal Calibrator by Direct Method.	600 °C to 1200 °C	4.33 °C

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64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type Thermocouple	Using Temperature Universal Calibrator by Direct Method	(-)200 °C to 1200 °C	1.55 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type Thermocouple	Using Temperature Universal Calibrator by Direct Method	(-)200 °C to 1300 °C	1.58 °C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type Thermocouple	Using Temperature Universal Calibrator by Direct Method.	(-)200 °C to 1300 °C	1.41 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type Thermocouple	Using Temperature Universal Calibrator by Direct Method	0 °C to 1750 °C	4.66 °C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT -100)	Using Temperature Universal Calibrator by Direct Method	(-)200 °C to 800 °C	0.82 °C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S-Type Thermocouple	Using Temperature Universal Calibrator by Direct Method	0 °C to 1750 °C	4.71 °C

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70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-Type Thermocouple	Using Temperature Universal Calibrator by Direct Method	(-)200 °C to 400 °C	1.18 °C
71	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Digital Multimeter by Direct Method	10 Hz to 100 kHz	0.58 % to 0.07 %
72	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	0.1 s to 5 s	0.01 s to 0.13 s
73	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	3600 s to 86400 s	2.32 s to 3.0 s
74	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	5 s to 600 s	0.13 s to 0.71 s
75	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	600 s to 3600 s	0.71 s to 2.32 s

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76	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using 5½ Digit Multifunction Calibrator by Direct Method	45 Hz to 1000 Hz	0.32 % to 0.073 %
77	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate : Rotameter, Sampler (Medium-Gas)	Using LFE Gas Flow Calibrator by Comparison Method	1 LPM to 100 LPM	1.7 %
78	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Centrifuge (Non Contact Type)	Using Digital Tachometer Non contract type by Comparison Method	10 rpm to 15000 rpm	0.6 %
79	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Mode (Contact Type)	Using Tachometer & RPM Source by Comparison method	10 rpm to 1000 rpm	5.04 %
80	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Mode (Contact Type)	Using Tachometer & RPM Source by Comparison method	1000 rpm to 6000 rpm	0.1 %
81	MECHANICAL-ACCELERATION AND SPEED	Tachometer-Non-Contact Mode (Non Contact Type)	Using Tachometer & RPM Source by Comparison method	10 rpm to 1000 rpm	4.1 %
82	MECHANICAL-ACCELERATION AND SPEED	Tachometer-Non-Contact Mode (Non Contact Type)	Using Tachometer & RPM Source by Comparison method	1000 rpm to 90000 rpm	0.1 %
83	MECHANICAL-ACOUSTICS	Sound Level Meter Frequency Range @1kHz	Using Sound Level Calibrator by Direct Method	94 dB & 114 dB	0.7 dB

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84	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometers	Using Standard Hydrometers & Liquids of Known Densities by Comparison Method	0.6 g/ml to 1.0 g/ml	0.00045 g/ml
85	MECHANICAL-DENSITY AND VISCOSITY	Lactometer	Using Standard Hydrometers & Liquids of Known Densities by Comparison Method	1.0 g/ml to 1.04 g/ml	0.00066 g/ml
86	MECHANICAL-DENSITY AND VISCOSITY	Specific Gravity Hydrometers	Using Standard Hydrometers & Liquids of Known Densities by Comparison Method	1.0 g/ml to 2.0 g/ml	0 .0 0 0 71 g/ml
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Aggregate Crushing Value Apparatus (Diameter)	Using Digital Vernier Caliper By Comparison Method	0 mm to 150 mm	19 µm
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Aggregate Impact Value Apparatus (Diameter and Height)	Using Digital Vernier Caliper, Digital Height Gauge by Comparison method	6 mm to 385 mm	42 µm

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89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor/ Combination set(L.C 5')	Using Profile Projector by Comparison Method	0 ° to 360 °	4.2 min
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Dial / Digital / Vernier Caliper) L.C. :- 0.01 mm	Long Gauge Blocks by Comparison method	0 mm to 1000 mm	15 µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Dial / Digital / Vernier Caliper) L.C. :- 0.01 mm	Using Slip Gauge Blocks & Caliper Checker by Comparison Method	0 mm to 300 mm	12.2 µm
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Dial / Digital / Vernier Caliper) L.C. :- 0.01 mm	Using Slip Gauge Blocks & Caliper Checker by Comparison Method	0 mm to 600 mm	12.8 µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge(Ferrous & Non- Ferrous Type) LC-0.1 µm	Using Standard Foils By Comparison Method	0.011 mm to 3.24 mm	1.9 µm

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94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould	Using Digital Vernier Caliper By Comparison Method	0 mm to 150 mm	46 µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pin	Using Electronic Probe with DRO and Slip Gauge Set by comparison method	1 mm to 20 mm	1.3 µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge/ Depth Caliper LC:0.01mm	Using Gauge Blocks by Comparison method	0 mm to 200 mm	8 µm
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer LC:0.01mm	Using Gauge Blocks by Comparison method	0 mm to 100 mm	7 µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digital Indicator (Plunger Type) L.C.: 0.001 mm	Using Dial Calibration Tester with Electronic Probe by Comparison Method	0 mm to 25 mm	2.4 µm

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99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digital Indicator (Plunger Type) L.C.: 0.01 mm	Using Dial Calibration Tester, Slip Gauge Set & Comparator Stand By Comparison Method	0 mm to 50 mm	7.1 µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digital Thickness Gauges L. C. 0.01 mm	Using Slip Gauge Blocks by Comparison method	0 mm to 25 mm	7 µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Bore Gauge (for Transmission Mechanism)	Using Dial Calibration Tester with Electronic Probe by Comparison Method	0 mm to 2 mm	2.3 µm
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge	Using Digital Vernier Caliper By Comparison Method	0 mm to 81 mm	18.40 µm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer, L.C. :- 0.001mm	Using Slip Gauge Set by Comparison Method	0 mm to 25 mm	1 µm

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104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer, L.C. :- 0.01mm	Using Slip Gauge Set & Steel Gauge Block by Comparison Method	25 mm to 600 mm	8.4 µm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Electronic Probe with Comparator Stand by comparison method	0 mm to 1 mm	1.9 µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Gauge	Using Digital Vernier Caliper By Comparison Method	0 mm to 100 mm	22 µm
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge(Vernier/Dial/ Digital)L.C. 0.01mm	Using Using Slip Gauge Set, Long Gauge Blocks, Dial Test Indicator with Accessories by Comparison Method	0 mm to 1000 mm	14.2 µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge(Vernier/Dial/ Digital)L.C. 0.01mm	Caliper Checker & Dial Test Indicator by Comparison Method	0 mm to 600 mm	12.0 µm

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109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer Two Jaw & Sticks Type L.C.:-0.01mm	Using Slip Gauge Set with slip Accessories by Comparison Method	5 mm to 300 mm	7.9 µm
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge L. C. 0.001 mm	Using Dial Calibration Tester with Electronic Probe with DRO by Comparison Method	0 mm to 1 mm	2.4 µm
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Steel Scale/ Steel Rule LC-0.5 mm/1 mm	Using Measuring Scale & Tape Calibrator By Comparison Method	0 mm to 2000 mm	38 xSqrt(L) µm, where L is in m
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape/Pi Tape LC:1mm	Using Measuring Scale & Tape Calibrator By Comparison Method.	0 m to 50 m	65 xSqrt(L) µm, where L is in m
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Standard Setting Rod	Using Gauge Blocks & Electronic Probe with DRO by comparison method	25 mm to 275 mm	4.6 µm

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114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Standard Setting Rod	Using Gauge Blocks & Electronic Probe with DRO by comparison method	275 mm to 575 mm	6.7 µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Penetrometer L.C : 0.1mm	Using Slip Gauge Blocks by Comparison Method	0 mm to 40 mm	66 µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Gauge (Flank Angle)	Using Profile Projector by Comparison Method	55° to 60°	4 min
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch gauge/pitch measurement - Pitch length	Using Profile Projector by Comparison Method	0 mm to 6 mm	6.0 µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge/ Setting Plug Gauge/ Air Plug Gauge	Using Slip Gauge Blocks, Electronic Probe by comparison method	0 mm to 100 mm	2.1 µm

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119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius gauge	Using Profile Projector by Comparison Method	0 mm to 25 mm	6.0 µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slump Cone Test Apparatus (Diameter, Thickness and Height)	Using Digital Vernier Caliper By Comparison Method	0 mm to 300 mm	25 µm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge (Dial) /Gap Gauge	Using Slip Gauge Blocks by Comparison method	0 mm to 100 mm	1.6 µm
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tamping Rod (Length)	Using Digital Vernier Caliper By Comparison Method	0 mm to 300 mm	18.6 µm
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper scale L.C : 0.1 mm	Using Profile Projector by Comparison method	0 mm to 50 mm	6.0 µm

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124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Profile Projector by Comparison Method	0.032 mm to 4 mm	6.8 µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Digital Vernier Caliper By Comparison Method	4 mm to 150 mm	18.50 µm
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Foils	Using Electronic Probe with DRO & Comparator Stand by comparison method	0.011 mm to 3.24 mm	2.5 µm
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge LC:0.1mm	Using Slip Gauge Blocks by Comparison method	0 mm to 200 mm	66 µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge/ Weld gauge/ Hi-Lo Gauge/ Bridge Cam Gauge/ Chamfer Gauge -Angle	Using Profile Projector by Comparison method	1 ° to 90 °	3 '

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129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire gauge	Using Profile Projector by Comparison Method	0 mm to 10 mm	6.0 µm
130	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester(L.C: 0.2µm)	Using Electronic Probe with DRO by comparison method	0 to 25 mm	2.0 µm
131	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	LVDT Probe With DRO(LC:0.0001 mm)	Using Slip Gauge Blocks by Comparison method	0 to 25 mm	1.4 µm
132	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Optical Microscope/ Metallurgical/Stereo zoom Microscope-Magnification	Using Glass Scale by Comparison method	2 X to 1000 X	1.5 %
133	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tape & Scale Calibrator(L.C:0.001 mm)	Using Slip Gauge Set, Long Gauge Blocks and Lever dial gauge by comparison method	0 to 1000 mm	11 µm
134	MECHANICAL-DUROMETER	Rubber Hardness Tester (Shore A&D)	Using Load Cell with Indicator and Calibration fixture by Comparison Method as per ASTM D2240-05:2021	0 Shore (A&D) to 100 Shore (A&D)	1.3 Shore (A&D)

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135	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: (Dial / Digital Pressure Gauge, Pressure Gauge, Pressure Transmitter, Pressure Switch, Tranducer	Using Digital Pressure Gauge & Pressure Comparator, 6½ digit Multimeter by Comparison Method as per DKD-R6-1	0 bar to 1000 bar	0.69 bar
136	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: (Dial / Digital Pressure Gauge, Pressure Gauge, Pressure Transmitter, Pressure Switch, Transducer	Using Digital Pressure Gauge & Pressure Comparator, 6½ digit Multimeter by Comparison Method as per DKD-R6-1	0 bar to 70 bar	0.16 bar
137	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure : Pneumatic Digital, And Dial Pressure, Gauges/ Pressure Transmitters /Pressure Transducers	Digital Pressure Gauge with Pneumatic Comparator Pump, 6½ digit Multimeter by Comparison Method as per DKD-R 6-1	0 to 20 bar	0.011 bar
138	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Low Pressure Gauge, Manometer/ Magnehelic Gauge	Digital Manometer & Low Pressure Pump by comparison method based on DKD R6-1	0 Pa to 2000 Pa	9.9 Pa

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139	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Pneumatic Digital And Dial Pressure Gauges/Pressure Transmitters/ Pressure Transducers	Digital Pressure Gauge with Pneumatic Comparator Pump, 6½ digit Multimeter by Comparison Method as per DKD-R 6-1	0 to 2 bar	0.006 bar
140	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum-Digital/ Dial Vacuum Gauge, Vacuum Transducer/ Transmitter	Digital Pressure Gauge & Vacuum Pump, 6½ digit Multimeter based on DKD R6-1	(-) 0.93 bar to 0 bar	0.0063 bar
141	MECHANICAL-VOLUME	Dispenser	Using Weighing Balance LC : 0.1 mg & Distilled Water based on ISO 8655-5, 8655-6	0.01 ml to 10 ml	0.06 ml
142	MECHANICAL-VOLUME	Dispenser	Using Weighing Balance LC : 1 mg & Distilled Water based on ISO 8655-5, 8655-6	10 ml to 200 ml	0.5 ml
143	MECHANICAL-VOLUME	Glassware, Glass Pipette, Burette , Measuring Cylinder, Volume Flask.	Using Weighing Balance LC: 1mg & Distiller Water based on IS/ISO 4787	100 ml to 500 ml	0.12 ml

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144	MECHANICAL-VOLUME	Micro pipettes	Using Weighing Balance LC:0.1mg & Distilled Water based on ISO 8655-6	1000 µl to 10000 µl	13 µl
145	MECHANICAL-VOLUME	Micro pipettes, Syringes(Non - medical Purposes)	Using Weighing Balance LC : 0.001 mg & Distilled Water based on ISO 8655-6	>10 µl to 100 µl	0.12 µl
146	MECHANICAL-VOLUME	Micro pipettes, Syringes(Non - medical Purposes)	Digital Weighing Balance LC:0.01 mg & Distilled Water based on ISO 8655-6	100 µl to 1000 µl	0.6 µl
147	MECHANICAL-VOLUME	Micropipettes, Syringes(Non - medical Purposes)	Using Weighing Balance LC : 0.001 mg & Distilled Water based on ISO 8655-6	0.5 µl to 10 µl	0.06 µl
148	MECHANICAL-VOLUME	Volumetric Equipment(Measuring Cylinder, Beaker, Flask)	Using Weighing Balance LC:0.01 g & Distiller Water based on IS/ISO 4787	1 l to 5 l	1.3 ml
149	MECHANICAL-VOLUME	Volumetric Measures(Burette, Pipette, Measuring Cylinder, Beaker, Flask, Glassware)	Using Weighing Balance LC:0.01mg & Distilled Water based on IS/ISO 4787	0.1 ml to 5 ml	0.004 ml
150	MECHANICAL-VOLUME	Volumetric Measures(Burette, Pipette, Measuring Cylinder, Beaker, Flask, Glassware)	Using Weighing Balance LC:0.1mg & Distilled Water based on IS/ISO 4787	5 ml to 100 ml	0.014 ml

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151	MECHANICAL-VOLUME	Volumetric Equipment (Measuring Cylinder, Beaker, Flask)	Using Weighing Balance LC:0.1 g & Distiller Water based on IS/ISO 4787	5 l to 10 l	12 ml
152	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 0.01 mg & coarser) - Accuracy Class I & coarser	Standard weights of E1 Class as per OIML R 76-1	>5 g to 220 g	0.07 mg
153	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 0.001 mg & coarser) - Accuracy Class I & Coarser	Standard weights of E1 Class as per OIML R 76-1	0 to 5 g	0.004 mg
154	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 100g & coarser) - Accuracy Class IV & Coarser	Using standard Weights of Accuracy Class M1 as per OIML-R-76	500 kg to 2000 kg	204 g
155	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 5g & coarser) - Accuracy Class IV & Coarser	Using standard Weights of Accuracy Class M1 as per OIML-R-76	300 kg to 500 kg	30 g
156	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability 0.001 g (Accuracy Class I & Coarser)	Using standard Weights of Accuracy Class E1 as per OIML-R-76	>200 g to 1000 g	1.1 mg
157	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability 0.01 g (Accuracy Class II & Coarser)	Using standard Weights of Accuracy Class F1 as per OIML-R-76	>1 kg to 6 kg	10 mg

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158	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability 0.1 g (Accuracy Class II & Coarser)	Using standard Weights of Accuracy Class F1 as per OIML-R-76	>6 kg to 30 kg	0.2 g
159	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability 1 g (Accuracy Class III & Coarser)	Using standard Weights of Accuracy Class F1 as per OIML-R-76	>30 kg to 50 kg	2 g
160	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability 1 g (Accuracy Class IIII & Coarser)	Using standard Weights of Accuracy Class F1 as per OIML-R-76	>50 kg to 100 kg	12 g
161	MECHANICAL-WEIGHTS	Weight (F1 Accuracy Class & Coarser)	E1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01 mg) by substitution method (ABBA cycle) as per OIML R–111: 2004	1 g	0.02 mg
162	MECHANICAL-WEIGHTS	Weight (E2 Accuracy Class & Coarser)	E1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.001 mg) by substitution method (ABBA cycle) as per OIML R–111: 2004	100 mg	0.003 mg

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163	MECHANICAL-WEIGHTS	Weight (E2 Accuracy Class & Coarser)	E1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.001 mg) by substitution method (ABBA cycle) as per OIML R–111: 2004	20 mg	0.003 mg
164	MECHANICAL-WEIGHTS	Weight (E2 Accuracy Class & Coarser)	E1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.001 mg) by substitution method (ABBA cycle) as per OIML R–111: 2004	200 mg	0.003 mg
165	MECHANICAL-WEIGHTS	Weight (E2 Accuracy Class & Coarser)	E1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.001 mg) by substitution method (ABBA cycle) as per OIML R–111: 2004	50 mg	0.003 mg

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166	MECHANICAL-WEIGHTS	Weight (E2 Accuracy Class & Coarser)	E1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.001 mg) by substitution method (ABBA cycle) as per OIML R–111: 2004	500 mg	0.003 mg
167	MECHANICAL-WEIGHTS	Weight (E2 Accuracy Class & Coarser)	E1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.001 mg) by substitution method (ABBA cycle) as per OIML R–111: 2004	1 mg	0.003 mg
168	MECHANICAL-WEIGHTS	Weight (E2 Accuracy Class & Coarser)	E1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.001 mg) by substitution method (ABBA cycle) as per OIML R–111: 2004	10 mg	0.003 mg

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169	MECHANICAL-WEIGHTS	Weight (E2 Accuracy Class & Coarser)	E1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.001 mg) by substitution method (ABBA cycle) as per OIML R–111: 2004	2 mg	0.003 mg
170	MECHANICAL-WEIGHTS	Weight (E2 Accuracy Class & Coarser)	E1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.001 mg) by substitution method (ABBA cycle) as per OIML R–111: 2004	5 mg	0.003 mg
171	MECHANICAL-WEIGHTS	Weight (F1 Accuracy Class & Coarser)	E1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01 mg) by substitution method (ABBA cycle) as per OIML R–111: 2004	10 g	0.03 mg

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172	MECHANICAL-WEIGHTS	Weight (F1 Accuracy Class & Coarser)	E1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.1mg) by substitution method (ABBA cycle) as per OIML R–111: 2004	100 g	0.1 mg
173	MECHANICAL-WEIGHTS	Weight (F1 Accuracy Class & Coarser)	E1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01 mg) by substitution method (ABBA cycle) as per OIML R–111: 2004	2 g	0.03 mg
174	MECHANICAL-WEIGHTS	Weight (F1 Accuracy Class & Coarser)	E1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.1mg) by substitution method (ABBA cycle) as per OIML R–111: 2004	200 g	0.2 mg

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175	MECHANICAL-WEIGHTS	Weight (F1 Accuracy Class & Coarser)	E1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01 mg) by substitution method (ABBA cycle) as per OIML R–111: 2004	5 g	0.03 mg
176	MECHANICAL-WEIGHTS	Weight (F1 Accuracy Class & Coarser)	E1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01 mg) by substitution method (ABBA cycle) as per OIML R–111: 2004	50 g	0.05 mg
177	MECHANICAL-WEIGHTS	Weight (F1 Accuracy Class & Coarser)	E1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01 mg) by substitution method (ABBA cycle) as per OIML R–111: 2004	20 g	0.03 mg

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178	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class & Coarser)	Using F1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.001 g) by substitution method (ABBA cycle) as per OIML R–111: 2004	1 kg	2 mg
179	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class & Coarser)	Using F1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.001 g) by substitution method (ABBA cycle) as per OIML R–111: 2004	500 g	2 mg
180	MECHANICAL-WEIGHTS	Weight (M1 Accuracy Class & Coarser)	Using F1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.1 g) by substitution method (ABBA cycle) as per OIML R–111: 2004	10 kg	113 mg

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181	MECHANICAL-WEIGHTS	Weight (M1 Accuracy Class & Coarser)	Using F1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.1 g) by substitution method (ABBA cycle) as per OIML R–111: 2004	20 kg	200 mg
182	MECHANICAL-WEIGHTS	Weight F2 Accuracy Class & Coarser	Using F1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.01 g) by substitution method (ABBA cycle) as per OIML R–111: 2004	2 kg	10 mg
183	MECHANICAL-WEIGHTS	Weight F2 Accuracy Class & Coarser	Using F1 Accuracy Class Standard Weights with Weighing Balance (Readability: 0.1 g) by substitution method (ABBA cycle) as per OIML R–111: 2004:	5 kg	20 mg

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184	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital /Analog Hygrometer, RH Indicators / Controller with or Inbuilt/External Sensor / Data logger/ Recorder @25°C	Using RH Sensor with Indicator and Humidity & Temperature Generator by comparison method	15 % rh to 95 % rh	2.12 % rh
185	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature of RH Indicators with or In built/External Sensor , Thermo hygrometer, data logger with RH sensor@ 50%RH	Using RH & Temperature Sensor with Indicator and Humidity Temperature Generator by comparison method	10 °C to 60 °C @ 50% rh	1.02 °C
186	THERMAL-TEMPERATURE	IR Thermometer/ Pyrometer	Using IR Thermometer with Black Body Source(Emissivity : 0.95) by comparison method	50 °C to 500 °C	2.61 °C
187	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD (4W) ,6½ Digital Multimeter and Liquid Bath by comparison method	(-)40 °C to 50 °C	0.615 °C
188	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD (4W) ,6½ Digital Multimeter and Oil Bath by comparison method	50 °C to 250 °C	0.63 °C

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189	THERMAL-TEMPERATURE	RTD / Thermocouples with or without Temperature Indicators /controllers/ Data Loggers / Recorders, Temperature Gauges, Temperature Transmitters, Digital Thermometers	Using RTD (4W),6½ Digital Multimeter and Liquid Bath by comparison method	(-)40 °C to 50 °C	0.32 °C
190	THERMAL-TEMPERATURE	RTD / Thermocouples with or without Temperature Indicators /controllers/ Data Loggers / Recorders, Temperature Gauges, Temperature Transmitters, Digital Thermometers	Using RTD (4W),6½ Digital Multimeter and Dry block by comparison method	50 °C to 400 °C	0.34 °C

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191	THERMAL-TEMPERATURE	Thermocouples with or without Temperature Indicators /controllers/ Data Loggers / Recorders, Temperature Gauges, Temperature Transmitters, Digital Thermometers	Using S Type Thermocouple ,6½ Digital Multimeter and Dry Block by comparison method	400 °C to 1200 °C	1.75 °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	0.4 A to 10 A	0.23 % to 0.28 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy Single/Three Phase, Active, 0.5(Lead/Lag) to UPF, 30 V to 240 V, 50 mA to 40 A @50 Hz	Using Three Phase Power Analyser by Comparison Method	0.75 Wh to 30 kWh	0.38 % to 0.89 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @50 Hz	Using HV Probe with Digital Multimeter by Comparison method	1 kV to 10 kV	7.88 % to 7.58 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power Single/Three Phase, Active, 0.5(Lead/Lag) to UPF, 30 V to 320 V, 50 mA to 6 A @50 Hz	Using Three Phase Power Analyser by Comparison Method	0.75 W to 5.4 kW	0.38 % to 0.97 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Digital Multimeter by Direct Method	1 mV to 750 V	4.73 % to 0.11 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance@1 kHz	Using Digital LCR Meter by Comparison Method	100 µH to 10 H	0.32 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ 240 V, 1 A, 50 Hz	Using Three Phase Power Analyser by Comparison Method	0.5 (Lead/Lag) to UPF	0.002 PF
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Resistance@1 kHz	Using Digital LCR Meter by Comparison Method	1 Ohm to 10 kohm	0.25 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø AC Energy @ 50 Hz, 0.5 (Lead/Lag), 50 V to 300 V, 1 A to 6 A	Using 3Ø Power Energy Meter Calibrator by Direct Method	0.025 kWh to 0.90 kWh	3.82 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø AC Energy @ 50 Hz, UPF, 50 V to 300 V, 1 A to 6 A	Using 3Ø Power Energy Meter Calibrator by Direct Method	0.05 kWh to 1.8 kWh	1.65 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø AC Power @50 Hz, 0.5 (Lead/Lag), 50 V to 30 V, 1 A to 6 A)	Using 3Ø Power Energy Meter Calibrator by Direct Method	25 W to 0.9 kW	3.27 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1Ø AC Power @50 Hz, UPF, 50 V to 300 V,1 A to 6 A	Using 3Ø Energy Meter Calibrator by Direct Method	50 W to 1.8 kW	1.65 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø AC Energy @ 50 Hz, 0.5 (Lead/Lag), 50 V to 300 V, 1 A to 6 A	Using 3Ø Power Energy Meter Calibrator by Direct Method	0.075 kWh to 2.70 kWh	1.23 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø AC Energy @ 50 Hz, UPF, 50 V to 300 V, 1 A to 6 A	Using 3Ø Power Energy Meter Calibrator by Direct Method	0.15 kWh to 5.40 kWh	0.72 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø AC Power @50 Hz, 0.5 (Lead/Lag), 50 V to 300 V, 1 A to 6 A	Using 3Ø Power Energy Meter Calibrator by Direct Method	25 W to 0.9 kW	3.27 %

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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3Ø AC Power @50 Hz, UPF, 50 V to 300 V, 1 A to 6 A	Using 3Ø Power Energy Meter Calibrator by Direct Method	50 W to 1.8 kW	1.65 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5½ Digit Multifunction Calibrator by Direct Method	0.2 mA to 400 mA	0.36 % to 0.20 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @1 kHz	Using 5½ Digit Multifunction Calibrator by Direct Method	0.2 mA to 400 mA	0.36 % to 0.20 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @1 kHz	Using 5½ Digit Multifunction Calibrator by Direct Method	0.4 A to 10 A	0.28 % to 0.34 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using 5½ Digit Multifunction Calibrator by Direct Method	0.4 A to 10 A	0.28 % to 0.34 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current @50 Hz	Using 5½ Digit Multifunction Calibrator With Current Coil by Direct Method	20 A to 1000 A	1.41 % to 1.24 %

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22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5½ Digit Multifunction Calibrator by Direct Method	100 mV to 1000 V	0.24 % to 0.23 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5½ Digit Multifunction Calibrator by Direct Method	10 mV to 100 mV	0.30 % to 0.24 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @1 kHz	Using 5½ Digit Multifunction Calibrator by Direct Method	10 mV to 100 mV	0.30 % to 0.19 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1 kHz	Using Decade Capacitance Box by Direct Method	1 nF to 100 µF	1.22 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance@1 kHz	Using Decade Inductance Box by Direct Method	100 µH to 10 H	1.38 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor 1Ø at 300 V/ 6 A / 50 Hz	Using 3Ø Power Energy Meter Calibrator by Direct Method	0.5 (Lead/Lag) to UPF	0.0071 PF

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28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor 3Ø at 300 V/ 6 A/ 50 H z	Using 3Ø Power Energy Meter Calibrator by Direct Method	0.5 (Lead/Lag) to UPF	0.0071 PF
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Digital Multimeter by Direct Method.	0.4 A to 10 A	0.094 % to 0.18 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Digital Multimeter by Direct Method	10 µA to 400 mA	0.38 % to 0.094 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Current	Using 6½ Digit Digital Multimeter & Shunt by direct method	10 A to 300 A	3.73 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with Digital Multimeter by Comparison Method	1 kV to 20 kV	5.99 % to 9.07 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Digital Multimeter by Direct Method.	1 kohm to 1 Mohm	0.017 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Digital Multimeter by Direct Method.	1 Mohm to 100 Mohm	0.017 % to 4.1 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Digital Multimeter by Direct Method.	1 Ohm to 1 kohm	0.047 % to 0.017 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Digit Multifunction Calibrator by Direct Method.	0.2 mA to 400 mA	0.19 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Digit Multifunction Calibrator by Direct Method.	0.4 A to 10 A	0.19 % to 0.25 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	Using 5½ Digit Multifunction Calibrator With Current Coil by Direct Method.	20 A to 1000 A	1 .23 % to 1 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Standard Resistance Box by Direct Method	1000 Gohm	10.23 %

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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Decade Resistance Box by Direct Method.	1 kohm to 1 Mohm	0.14 % to 0.15 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Decade Resistance Box by Direct Method.	1 Mohm to 1 Gohm	0.15 % to 2.37 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Decade Resistance Box by Direct Method.	1 Ohm to 10 Ohm	5.79 % to 0.62 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Decade Resistance Box by Direct Method.	10 Ohm to 1 kohm	0.62 % to 0.14 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Standard Resistance Box by Direct Method	10 Gohm	8.76 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Standard Resistance Box by Direct Method	100 Gohm	10.23 %

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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(4 Wire)	Using Low Resistance Standard Box by Direct Method	1 mohm	1.1 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(4 Wire)	Using Low Resistance Standard Box by Direct Method	10 mohm	0.92 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(4 Wire)	Using Low Resistance Standard Box by Direct Method	100 µohm	1.4 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(4 Wire)	Using Low Resistance Standard Box by Direct Method	100 mohm	0.92 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Digit Multifunction Calibrator by Direct Method.	200 mV to 1000 V	0.13 % to 0.15 %
51	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude@1 kHz (Sine Wave)	Using Function/Arbitrary waveform generator by direct method	1 mVpp to 20 Vpp	0.02 % to 0.35 %

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52	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude@1 kHz (Square Wave)	Using Function/Arbitrary waveform generator by direct method	1 mVpp to 20 Vpp	0.02 % to 0.35 %
53	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth	Using Function/Arbitrary waveform generator by direct method	50 kHz to 200 MHz	3.5 %
54	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time Base(Marker)	Using Function/Arbitrary waveform generator by direct method	5 ns to 10 s	0.15 % to 0.01 %
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B -Type Thermocouple	Using Temperature Universal Calibrator by Direct Method	600 °C to 1800 °C	4.76 °C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J -Type Thermocouple	Using Temperature Universal Calibrator by Direct Method	(-)200 °C to 1200 °C	1.71 °C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-Type Thermocouple	Using Temperature Universal Calibrator by Direct Method	(-)200 °C to 1300 °C	1.84 °C

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58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-Type Thermocouple	Using Temperature Universal Calibrator by Direct Method	(-)200 °C to 1300 °C	1.84 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type Thermocouple	Using Temperature Universal Calibrator by Direct Method	100 °C to 1750 °C	4.78 °C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT -100)	Using Temperature Universal Calibrator by Direct Method	(-)200 °C to 800 °C	1.84 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S-Type Thermocouple	Using Temperature Universal Calibrator by Direct Method	100 °C to 1750 °C	4.77 °C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T -Type Thermocouple	Using Temperature Universal Calibrator by Direct Method	(-)200 °C to 400 °C	1.28 °C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B-Type Thermocouple	Using Temperature Universal Calibrator by Direct Method.	600 °C to 1200 °C	4.33 °C

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64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type Thermocouple	Using Temperature Universal Calibrator by Direct Method	(-)200 °C to 1200 °C	1.55 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type Thermocouple	Using Temperature Universal Calibrator by Direct Method	(-)200 °C to 1300 °C	1.58 °C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type Thermocouple	Using Temperature Universal Calibrator by Direct Method.	(-)200 °C to 1300 °C	1.41 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type Thermocouple	Using Temperature Universal Calibrator by Direct Method	0 °C to 1750 °C	4.66 °C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT -100)	Using Temperature Universal Calibrator by Direct Method	(-)200 °C to 800 °C	0.82 °C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S-Type Thermocouple	Using Temperature Universal Calibrator by Direct Method	0 °C to 1750 °C	4.71 °C

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70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-Type Thermocouple	Using Temperature Universal Calibrator by Direct Method	(-)200 °C to 400 °C	1.18 °C
71	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Digital Multimeter by Direct Method	10 Hz to 100 kHz	0.58 % to 0.07 %
72	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	0.1 s to 5 s	0.01 s to 0.13 s
73	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	3600 s to 86400 s	2.32 s to 3.0 s
74	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	5 s to 600 s	0.13 s to 0.71 s
75	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	600 s to 3600 s	0.71 s to 2.32 s

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76	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using 5½ Digit Multifunction Calibrator by Direct Method	45 Hz to 1000 Hz	0.32 % to 0.073 %
77	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate : Flow Meters (Medium- Liquid)	Using Ultrasonic Water Flow Meter by Comparison Method	0.9 m3/hr to 1100 m3/hr	1.9 %
78	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Centrifuge (Non Contact Type)	Using Digital Tachometer Non contract type by Comparison Method	10 rpm to 15000 rpm	0.6 %
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Aggregate Crushing Value Apparatus (Diameter)	Using Digital Vernier Caliper By Comparison Method	0 mm to 150 mm	19 µm
80	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Optical Microscope/ Metallurgical/Stereo zoom Microscope-Magnification	Using Glass Scale by Comparison method	2 X to 1000 X	1.5 %
81	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angle Measurement L.C : 1")	Using Angle Graticules by Comparison method	0 to 360 °	18 minute of arc

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82	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Linear Scale(L.C: 0.001mm)	Using Slip Gauge Blocks, Glass Scale by Comparison Method	0 to 200 mm	5.2 µm
83	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Slip Gauge Blocks & Digital Caliper by Comparison method	10 X to 100 X	6.2 %
84	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tape & Scale Calibrator(L.C:0.001 mm)	Using Slip Gauge Set, Long Gauge Blocks and Lever dial gauge by comparison method	0 to 1000 mm	11 µm
85	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machines	Using Standard Reference Test Blocks as per IS-1500 (Part-2):2021 by Indirect Method	HBW 10/3000	1.6 %
86	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machines	Using Standard Reference Test Blocks as per IS-1500 (Part-2):2021 by Indirect Method	HBW 5/750	1.8 %
87	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Reference Test Blocks as per IS 1586-2:2018 by Indirect Method	HRA	0.72 HRA

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88	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Reference Test Blocks as per IS 1586-2:2018 by Indirect Method	HRB	0.79 HRB
89	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Reference Test Blocks as per IS 1586-2:2018 by Indirect Method	HRC	0.81 HRC
90	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machines	Using Standard Reference Test Blocks as per IS-1501 (Part-2):2020 by Indirect Method	HV 10	1.83 %
91	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machines	Using Reference Test Blocks as per IS-1501 (Part-2):2020 by Indirect Method	HV 30	1.59 %
92	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: (Dial / Digital Pressure Gauge, Pressure Gauge, Pressure Transmitter, Pressure Switch, Tranducer	Using Digital Pressure Gauge & Pressure Comparator, 6½ digit Multimeter by Comparison Method as per DKD-R6-1	0 bar to 1000 bar	0.69 bar

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93	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: (Dial / Digital Pressure Gauge, Pressure Gauge, Pressure Transmitter, Pressure Switch, Transducer	Using Digital Pressure Gauge & Pressure Comparator, 6½ digit Multimeter by Comparison Method as per DKD-R6-1	0 bar to 70 bar	0.16 bar
94	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure : Pneumatic Digital, And Dial Pressure, Gauges/ Pressure Transmitters /Pressure Transducers	Digital Pressure Gauge with Pneumatic Comparator Pump, 6½ digit Multimeter by Comparison Method as per DKD-R 6-1	0 to 20 bar	0.011 bar
95	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Low Pressure Gauge, Manometer/ Magnehelic Gauge	Digital Manometer & Low Pressure Pump by comparison method based on DKD R6-1	0 Pa to 2000 Pa	9.9 Pa
96	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Pneumatic Digital And Dial Pressure Gauges/Pressure Transmitters/ Pressure Transducers	Digital Pressure Gauge with Pneumatic Comparator Pump, 6½ digit Multimeter by Comparison Method as per DKD-R 6-1	0 to 2 bar	0.006 bar

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97	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum-Digital/ Dial Vacuum Gauge, Vacuum Transducer/ Transmitter	Digital Pressure Gauge & Vacuum Pump, 6½ digit Multimeter based on DKD R6-1	(-) 0.93 bar to 0 bar	0.0063 bar
98	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Compression / Universal Testing Machine, Load Testing Machine, Spring Testing Machine, Flexural Testing Machine Mode : Compression	Using Class 1 Force Proving Instruments based on IS 1828 (Part I) :2022	10 N to 3000 kN	0.43 %
99	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Tensile / Universal Testing Machine, Load Testing Machine, Spring Testing Machine, Tensometer, Flexural Testing Machine Mode : Tension	Using Class 1 Force Proving Instruments based on IS 1828 (Part I):2022	10 N to 100 kN	0.40 %
100	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Tensile / Universal Testing Machine, Load Testing Machine, Spring Testing Machine, Tensometer, Flexural Testing Machine Mode : Tension	Using Newton Weights as per IS 1828 (Part I) :2022 by Comparison Method	1 N to 10 N	0.40 %

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101	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification/Calibration of Displacement Measuring System and Device Used in Material Testing Machine(Encoder/Actuator)	Using Digital Height Gauge As per ASTM E 2309 by Comparison Method	0 to 600 mm	0.35 mm
102	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification/Calibration of Speed of Material Testing Machine	Using Digital Height Gauge ,Lever Dial and Stop Watch as per ASTM E 2658 by Comparison Method	0 mm to 500 mm/min	1.50 mm/min
103	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 0.01 mg & coarser) - Accuracy Class I & coarser	Standard weights of E1 Class as per OIML R 76-1	>5 g to 220 g	0.07 mg
104	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 0.001 mg & coarser) - Accuracy Class I & Coarser	Standard weights of E1 Class as per OIML R 76-1	0 to 5 g	0.004 mg
105	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 100g & coarser) - Accuracy Class IV & Coarser	Using standard Weights of Accuracy Class M1 as per OIML-R-76	500 kg to 2000 kg	204 g

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106	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 5g & coarser) - Accuracy Class IV & Coarser	Using standard Weights of Accuracy Class M1 as per OIML-R-76	300 kg to 500 kg	30 g
107	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability 0.001 g (Accuracy Class I & Coarser)	Using standard Weights of Accuracy Class E1 as per OIML-R-76	>200 g to 1000 g	1.1 mg
108	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability 0.01 g (Accuracy Class II & Coarser)	Using standard Weights of Accuracy Class F1 as per OIML-R-76	>1 kg to 6 kg	10 mg
109	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability 0.1 g (Accuracy Class II & Coarser)	Using standard Weights of Accuracy Class F1 as per OIML-R-76	>6 kg to 30 kg	0.2 g
110	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability 1 g (Accuracy Class III & Coarser)	Using standard Weights of Accuracy Class F1 as per OIML-R-76	>30 kg to 50 kg	2 g
111	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability 1 g (Accuracy Class IIII & Coarser)	Using standard Weights of Accuracy Class F1 as per OIML-R-76	>50 kg to 100 kg	12 g
112	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale of Batching /Mix Plant(Readability: 1g & coarser), Accuracy Class III & Coarser	Using standard Weights of Accuracy Class F1 by comparison method(Ref.IS 4925 & 4926)	200 g to 6000 g	6.0 g

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113	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale of Batching /Mix Plant(Readability: 1kg & coarser), Accuracy Class III & Coarser	Using standard Weights of Accuracy Class M1 by comparison method(Ref.IS 4925 & 4926)	20 kg to 2000 kg	610 g
114	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber/ Environmental Chamber (Multi Position Calibration) @25°C	Using Wireless Data Loggers with inbuilt sensor (minimum 9 sensors) by Comparison Method	20 % rh to 95 % rh	2.64 % rh
115	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator of Humidity Chamber/ Environmental Chamber (Single Position Calibration) @25°C	Using RH Sensor with Indicator by comparison method	15 % rh to 95 % rh	2.16 % rh
116	THERMAL-TEMPERATURE	Deep Freezer,Freezer, Cold Room,Environment Chamber (Multi position Calibration)	Using RTD Sensors (Minimum 9 sensors) with Data Logger by Comparison Method	(-)80 °C to 50 °C	1.51 °C
117	THERMAL-TEMPERATURE	Environmental Chamber, Furnace, Oven, Vacuum Oven, Hot Room, Aging Oven (Multi Position Calibration)	Using RTD Sensors (Minimum 9 sensors) with Data Logger by Comparison Method	50 °C to 400 °C	4.65 °C

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Laboratory Name :	UNIQUE CALIBRATION SOLUTIONS LLP, 5/D3 , EK APARTMENTS ,MEC ROAD ,THRIKKAKARA ,EDAPALLY ,KOCHI, ERNAKULAM, KERALA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
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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)(±)
118	THERMAL-TEMPERATURE	IR Thermometer/ Pyrometer	Using IR Thermometer with Black Body Source(Emissivity : 0.95) by comparison method	50 °C to 500 °C	2.61 °C
119	THERMAL-TEMPERATURE	Oven/ Furnace/ Environmental Chambers (Multi position Calibration)	Using N Type Thermocouples (Minimum 9 sensors) with Data Logger by Comparison Method	400 °C to 1200 °C	4.70 °C
120	THERMAL-TEMPERATURE	RTD / Thermocouples with or without Temperature Indicators /controllers/ Data Loggers / Recorders, Temperature Gauges, Temperature Transmitters, Digital Thermometers	Using RTD (4W), 6½ Digital Multimeter & Dry Bath by comparison method	(-)30 °C to 50 °C	0.34 °C

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121	THERMAL-TEMPERATURE	RTD / Thermocouples with or without Temperature Indicators /controllers/ Data Loggers / Recorders, Temperature Gauges, Temperature Transmitters, Digital Thermometers	Using RTD (4W),6½ Digital Multimeter and Dry block by comparison method	50 °C to 400 °C	0.34 °C
122	THERMAL-TEMPERATURE	Temperature Indicator/ Controller/Recorder of Hot Air Oven / Furnace/ Incubator/Autoclave(non medical use)/ Environmental Chamber (Single Position Calibration)	Using RTD (4W) With Indicator by comparison method	50 °C to 350 °C	0.20 °C

National Accreditation Board for Testing and Calibration Laboratories

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123	THERMAL-TEMPERATURE	Temperature Indicator/ Controller/Recorder of Deep Freezer/ Freezer / Incubator/Cold Room/ Refrigerator/Environment Chamber (Single Position Calibration)	Using RTD (4W) With Indicator by comparison method	(-)80 °C to 50 °C	0.6 °C
124	THERMAL-TEMPERATURE	Temperature Indicator/ Controller/Recorder of Furnace/ Dry Blocks (Single Position Calibration)	Using S Type Thermocouple with Digital Indicator by comparison method	350 °C to 1200 °C	1.21 °C
125	THERMAL-TEMPERATURE	Thermocouples with or without Temperature Indicators /controllers/ Data Loggers / Recorders, Temperature Gauges, Temperature Transmitters, Digital Thermometers	Using S Type Thermocouple ,6½ Digital Multimeter and Dry Block by comparison method	400 °C to 1200 °C	1.75 °C

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