



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

CALI-LABS PRIVATE LIMITED

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

KHASRA NO. 11/1/1/1/2/2, LAMBAKHEDA, BERASIA ROAD, BHOPAL, MADHYA PRADESH, INDIA

in the field of

CALIBRATION

Certificate Number: NABLC0826MP04893 (In lieu of CC-2280)

Issue Date: 26/07/2026

Valid Until: 25/07/2030

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: CALI LABS PRIVATE LIMITED

Signed for and on behalf of NABL



Anita Rani
Director

Dr. Ramanand N. Shukla
Chief Executive Officer



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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 DMM by Direct Method	100 µA to 100 mA	2 % to 0.6 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ DMM by Direct Method	100 mA to 10 A	0.6 % to 0.7 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with DMM by Direct Method	1 kV to 10 kV	4 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ DMM by Direct Method	1 mV to 100 mV	4.63 % to 0.5 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ DMM by Direct Method	100 mV to 1000 V	0.5 % to 0.11 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 4½ AC / DC Multifunction Site Calibrator with Current Coil (100X) by Direct Method	10 A to 1000 A	1.5 % to 1.9 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multifunction calibrator by Direct Method	1 A to 10 A	0.18 % to 0.40 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multifunction calibrator by Direct Method	100 µA to 1 A	0.45 % to 0.18 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power Single Phase @ 50 Hz, 0.5 A to 10 A ,5 V to 600 V, UPF to 0.2 PF (Lag and Lead)	Using Multifunction calibrator by Direct Method	0.5 W to 6 kW	0.5 % to 2 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multifunction calibrator by Direct Method	1 mV to 10 V	2.42 % to 0.602 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multifunction Calibrator by Direct Method	10 V to 1000 V	0.602 % to 0.211 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multifunction Calibrator by Direct Method	0.5 nF to 100 µF	3 % to 0.72 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using 4½ AC / DC Multifunction Site Calibrator by Direct Method	1 nF to 10 µF	2.45 % to 1.7 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multifunction calibrator by Direct Method	100 µF to 300 µF	0.72 % to 1.2 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using 4½ AC / DC Multifunction Site Calibrator by Direct Method	10 µH to 100 mH	2.59 % to 1.75 %



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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Phase Angle (230 V, 1 A @ 50 Hz)	Using Multifunction Calibrator by Direct Method	0° to 90°	1.02°
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor (Lag & Lead) {230 V, 1 A @ 50 Hz}	Using Multifunction Calibrator by Direct Method	0.2 PF to 1 PF	0.005 PF
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Resistance 2 Wire @ 1 kHz	Using 4½ AC / DC Multifunction Site Calibrator by Direct Method	1 ohm to 10 kohm	1.1 % to 1.2 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Capacitance	Using 6½ DMM by Direct Method	0.5 nF to 100 µF	3.48 % to 2.5 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Capacitance	Using 6½ DMM by Direct Method	100 µF to 300 µF	2.5 % to 1.84 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using by 6½ DMM by Direct Method	10 µA to 10 A	0.7 % to 0.27 %



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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct Method	1 kV to 10 kV	4% to 2.5 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ DMM by Direct Method	0.1 mV to 100 mV	4.06 % to 0.06 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM by Direct Method	100 mV to 1000 V	0.06 % to 0.04 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Low Resistance 4 wire	Using 6½ Digit DMM and Multifunction Calibrator by V/I Method	0.02 mohm to 10 ohm	1.1 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance 4 wire	Using 6½ DMM by Direct Method	10 ohm to 100 kohm	0.7 % to 0.2 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance 2 wire	Using 6½ DMM by Direct Method	100 kohm to 100 Mohm	0.2 % to 2.9 %



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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance 2 wire	Using 6 ½ DMM by Direct Method	100 Mohm to 1 Gohm	2.93 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction calibrator by Direct Method	10 µA to 100 µA	0.6 % to 0.07 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 4½ AC / DC Multifunction Site Calibrator with Current Coil (100X) by Direct Method	10 A to 1000 A	1 % to 1.5 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	100 µA to 100 mA	0.07 % to 0.02 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	100 mA to 10 A	0.02 % to 0.17 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	0.1 mV to 10 mV	4.1 % to 0.1 %



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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using multifunction calibrator by Direct Method	1 V to 1000 V	0.059 % to 0.01 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using multifunction calibrator by Direct Method	10 mV to 1 V	0.1 % to 0.015 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance 2 wire (250 V to 5 kV)	Using Standard Resistance Box by Direct Method	1 Mohm to 100 Gohm	3.4 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance 2 wire	Using Multifunction calibrator by Direct Method	10 Mohm to 100 Mohm	0.08 % to 0.6 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance 2 wire	Using Multifunction Calibrator by Direct Method	100 kohm to 10 Mohm	0.02 % to 0.08 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance 2 wire	Using Multifunction calibrator by direct Method	100 Mohm to 300 Mohm	0.6 % to 1.0 %



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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance 4 wire	Using Decade Resistance Box by Direct Method	0.02 mohm to 10 ohm	1 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance 4 wire	Using Multifunction calibrator by Direct Method	10 ohm to 100 kohm	0.2 % to 0.02 %
42	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH Meter	Using Multifunction Calibrator by Simulation Method	0 pH to 14 pH {(-) 421 mV to 421 mV}	1 % to 1.2 %
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B type Thermocouple	Using Multifunction Calibrator by Direct Method	600 °C to 1750 °C	0.81 °C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 100 °C to 1000 °C	0.46 °C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 190 °C to 750 °C	0.44 °C



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46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.75 °C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R type Thermocouple	Using Multifunction Calibrator by Direct Method	300 °C to 1750 °C	0.78 °C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD PT 100 Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 800 °C	0.38 °C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using Multifunction Calibrator by Direct Method	300 °C to 1750 °C	0.83 °C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 190 °C to 400 °C	1.05 °C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B type Thermocouple	Using Multifunction Calibrator by Direct Method	600 °C to 1750 °C	0.81 °C



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52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 100 °C to 1000 °C	0.58 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 190 °C to 750 °C	0.75 °C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.75 °C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R type Thermocouple	Using Multifunction Calibrator by Direct Method	300 °C to 1750 °C	0.79 °C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD PT 100 Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 800 °C	0.41 °C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S type Thermocouple	Using Multifunction Calibrator by Direct Method	300 °C to 1750 °C	0.75 °C



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58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 190 °C to 400 °C	0.80 °C
59	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ DMM by Comparison Method	10 Hz to 1 MHz	0.8 % to 1.40 %
60	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibrator by Comparison Method	5 s to 24 hr	0.69 s to 2 s
61	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction calibrator by Direct Method	10 Hz to 100 kHz	0.3 %
62	MECHANICAL-ACCELERATION AND SPEED	Centrifuge Machine, Magnetic Stirrer - Non - Contact	Using Digital Tachometer by Comparison Method	>500 rpm to 20000 rpm	2.94 %
63	MECHANICAL-ACCELERATION AND SPEED	Centrifuge Machine, Magnetic Stirrer - Non - Contact	Using Digital Tachometer by Comparison Method	100 rpm to 500 rpm	3.2 %



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64	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non - Contact	Using Digital Tachometer, Mechanical Tacho Generator by Comparison Method	> 500 rpm to 20000 rpm	2.94 %
65	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non - Contact	Using Digital Tachometer, Mechanical Tacho Generator by Comparison Method	100 rpm to 500 rpm	4.45 %
66	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	94 dB & 114 dB	1 dB
67	MECHANICAL-DENSITY AND VISCOSITY	Hydrometer	Using Standard Hydrometer and Known Density Liquids by Comparison Method	>1.0 sp.gr. to 1.8 sp.gr.	0.008 sp.gr.
68	MECHANICAL-DENSITY AND VISCOSITY	Hydrometer	Using Standard Hydrometer and Known Density Liquids by Comparison Method	0.7 sp.gr. to 1.0 sp.gr.	0.008 sp.gr.
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Protractor (L.C.: 1°)	Using Angle Gauge Set by Comparison Method	0°-90°-0°	30 Minute of arc



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70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor (L.C.: 5 Minute of arc)	Using Angle Gauge Block & Surface Plate by Comparison Method	0°- 90°- 0°	6 Minutes of arc
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers (Vernier/Dial/Digital) (L.C.: 0.01 mm)	Using Length Bars & Slip Gauge Set by Comparison Method	0 to 1000 mm	18 µm
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers (Vernier/Dial/Digital) (L.C.: 0.01 mm)	Using Caliper Checker & Slip Gauge Set by Comparison Method	0 to 600 mm	13 µm
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers (Vernier/Dial/Digital) (L.C.: 0.02 mm)	Using Length Bar Set & Slip Gauge Set by Comparison Method	0 to 2000 mm	25 µm
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (Vernier/Dial/Digital) (L.C.: 0.02 mm)	Using Slip Gauge & Length Bar Set, Surface Plate by Comparison Method	0 to 300 mm	16.04 µm



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75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.001 mm)	Using Slip Gauge & Length Bar Set, Surface Plate by Comparison Method	0 to 300 mm	9 µm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.001 mm)	Using Slip Gauge Set by Comparison Method	0 to 25 mm	2 µm
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge & Length Bar Set by Comparison Method	> 100 mm to 300 mm	7 µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge by Comparison Method	0 to 100 mm	4 µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.01 mm)	Using Slip Gauge & Length Bar Set by Comparison Method	> 300 mm to 500 mm	9 µm



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80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.01 mm)	Using Slip Gauge & Length Bar Set by Comparison Method	> 500 mm to 1000 mm	15.1 µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler / Leaf Gauge	Using comparator stand with digital Dial by Comparison Method	0.05 mm to 2 mm	3 µm
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier/Dial/Digital (L.C.: 0.01 mm)	Using Slip Gauge, Length Bar Set & Surface Plate by Comparison Method	0 to 1000 mm	15.6 µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier/Dial/Digital (L.C.: 0.01 mm)	Using Caliper Checker, Slip Gauge & Surface Plate by Comparison Method	0 to 600 mm	12.7 µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (Extension Rods)	Using Slip Gauge Set, Comparator Stand with Digital Dial by Comparison Method	50 mm to 100 mm	1.86 µm



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85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (L.C.: 0.01 mm)	Using Slip Gauge Set, Length Bar & Comparator Stand with Digital Dial by Comparison Method	> 50 mm to 1000 mm	12.1 µm
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer - Two Point (L.C.: 0.001 mm)	Using Slip Gauge Set, Comparator Stand with Digital Dial by Comparison Method	5 mm to 50 mm	7 µm
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 1 mm	2 µm
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.01 mm)	Using Dial Calibration Tester by Comparison Method	0 to 1.6 mm	6.1 µm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using Comparator stand with Digital Dial by Comparison Method	0.1 mm to 20 mm	1.2 µm



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90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C.: 1 mm)	Using Scale & Tape Calibrator by Comparison Method	0 to 1000 mm	118 µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C.: 1 mm)	Using Tape & Scale Calibrator by Comparison Method	0 to 50 meter	126x Sqrt (L) µm, where L is in meter
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer - Ball Type (L.C.: 0.001 mm)	Using Slip Gauge Set Grade 0 by Comparison Method	0 to 25 mm	2 µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer - Point Type (L.C.: 0.001 mm)	Using Slip Gauge Set by Comparison Method	0 to 25 mm	2 µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Comparator Stand with Digital Dial, Slip Gauges and Length Bar by Comparison Method	> 25 mm to 100 mm	1.8 µm



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95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Comparator Stand with Digital Dial, Slip Gauges and Length Bar by Comparison Method	>100 mm to 300 mm	4 µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Comparator Stand with Digital Dial, Slip Gauges and Length Bar by Comparison Method	>300 mm to 500 mm	6 µm
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Comparator Stand with Digital Dial, Slip Gauges and Length Bar by Comparison Method	>500 mm to 975 mm	12 µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pi-Tape (L.C.: - 0.01 mm & 0.1 mm)	Using Tape & Scale Calibrator by Comparison Method	0 to 3 m	126x Sqrt (L) µm where L is in Meter
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C.: 0.1 mm)	Using Slip Gauge Set by Comparison Method	0 to 100 mm	75 µm



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100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Comparator Stand with Digital Dial & Slip Gauge Set by Comparison Method	>100 mm to 250 mm	3 µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Comparator Stand with Digital Dial & Slip Gauge Set by Comparison Method	3 mm to 100 mm	3 µm
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 25 mm	4 µm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge (L.C.: 0.01 mm)	Using Dial Calibration Tester by Comparison Method	0 to 25 mm	5.9 µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level (Sensitivity 0.01 mm/m)	Using Surface Plate, Tilting Fixture & Digital Dial Gauge by Comparison Method	(±) 1 mm	9 µm/m



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105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge - Parallelism of Working Face	Using Digital Dial Indicator, Slip Gauge Set & Surface Plate by Comparison Method	0 to 2 m	22 µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge - Straightness of Working Face	Using Slip Gauge Set, Surface Plate & Spirit level by Comparison Method	0 to 2 m	18 µm
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Digital Vernier Caliper By Comparison Method	4 mm to 80 mm	40 µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Foils	Using Comparator Stand with Digital Dial by Comparison Method	0.009 mm to 2 mm	1.2 µm
109	MECHANICAL-PRESSURE INDICATING DEVICES	Dial / Digital - Pressure Gauge, Pressure Indicator - Hydraulic Pressure	Using Digital Pressure Gauge with Pressure Comparator by Comparison Method as per DKD R 6-1	0 to 30 bar	0.8 % of rdg



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110	MECHANICAL-PRESSURE INDICATING DEVICES	Dial / Digital - Pressure Gauge, Pressure Indicator - Hydraulic Pressure	Using Digital Pressure Gauge with Pressure Comparator by Comparison Method as per DKD R 6-1	0 to 600 bar	0.8 % of rdg
111	MECHANICAL-PRESSURE INDICATING DEVICES	Dial / Digital - Vacuum Gauge, Vacuum Indicator - Pneumatic Pressure	Using Digital vacuum Gauge with Vacuum Comparator by Comparison Method as per DKD R 6-1	(-) 0.9 bar to 0	0.8 % of rdg
112	MECHANICAL-VOLUME	Glassware (Burettes, Single - Volume Pipettes, Graduated Pipettes, One - Mark Volumetric Flasks, Graduated Measuring Cylinders, Graduated Beaker).	Using Digital Electronic Balance (Readability: 0.1 mg) With Distilled Water of Known Density by Gravimetric Method as per ISO 4787:2021	10 ml to 100 ml	0.05 ml
113	MECHANICAL-VOLUME	Glassware (Burettes, Single - Volume Pipettes, Graduated Pipettes, One - Mark Volumetric Flasks, Graduated Measuring Cylinders, Graduated Beaker).	Using Digital Electronic Balance (Readability: 0.1 mg) With Distilled Water of Known Density by Gravimetric Method as per ISO 4787:2021	100 µl to 10 ml	0.6 µl



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114	MECHANICAL-VOLUME	Glassware (One - Mark Volumetric Flasks, Graduated Measuring Cylinders, Graduated Beaker).	Using Digital Electronic Balance (Readability: 0.01 g) With Distilled Water of Known Density by Gravimetric Method as per ISO 4787:2021	>1000 ml to 2000 ml	0.06 ml
115	MECHANICAL-VOLUME	Glassware (One - Mark Volumetric Flasks, Graduated Measuring Cylinders, Graduated Beaker).	Using Digital Electronic Balance (Readability: 0.001 g) With Distilled Water of Known Density by Gravimetric Method as per ISO 4787:2021	200 ml to 1000 ml	0.05 ml
116	MECHANICAL-VOLUME	Micro Pipette Fixed, Variable, Multi Channel	Using Digital Electronic Balance (Readability: 0.01 mg) With Distilled Water of Known Density by Gravimetric Method as per ISO 8655 - 6 : 2022	20 µl to 200 µl	0.55 µl



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117	MECHANICAL-VOLUME	Micro Pipette, Fixed, Variable, Multi Channel	Using Digital Electronic Balance (Readability: 0.01 mg) With Distilled Water of Known Density by Gravimetric Method as per ISO 8655 - 6 : 2022	200 µl to 1000 µl	0.8 µl
118	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance : 0.1 g Class III and Coarser	Using E1, F1 & F2 Accuracy Class Weights by Comparison Method as per OIML R 76-1	0 to 21 kg	87 mg
119	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class I and Coarser (Readability: 0.01 mg)	Using E1 Accuracy Class Weights by Comparison Method as per OIML R 76-1	0 to 80 g	0.03 mg
120	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class I and Coarser (Readability: 0.1 mg)	Using E1 Accuracy Class Weights by Comparison Method as per OIML R 76 - 1	0 to 200 g	0.3 mg
121	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class II and Coarser (Readability: 0.001 g)	Using E1 Accuracy Class Weights by Comparison Method as per OIML R 76-1	0 to 1020 g	0.82 mg



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122	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class II and Coarser (Readability: 0.01 g)	Using E1 Accuracy Class Weights by Comparison Method as per OIML R 76-1	0 to 5000 g	8.42 mg
123	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class II and Coarser (Readability: 1g)	Using F1 & F2 Accuracy Class Weights by Comparison Method as per OIML R 76-1	0 to 30 kg	2 g
124	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Accuracy Class Weights, Semi-Micro Balance (Readability: 0.00001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	1 g	0.03 mg
125	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Accuracy Class Weights, Semi-Micro Balance (Readability: 0.00001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	10 g	0.04 mg



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126	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Accuracy Class Weights & Electronic Balance (Readability: 0.0001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	100 g	0.09 mg
127	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Accuracy Class Weights, Semi-Micro Balance (Readability: 0.00001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	2 g	0.04 mg
128	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Accuracy Class Weights, Semi-Micro Balance (Readability: 0.00001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	20 g	0.04 mg



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129	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Accuracy Class Weights & Electronic Balance (Readability: 0.0001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	200 g	0.1 mg
130	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Accuracy Class Weights, Semi-Micro Balance (Readability: 0.00001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	200 mg	0.02 mg
131	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Accuracy Class Weights, Semi-Micro Balance (Readability: 0.00001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	5 g	0.04 mg



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132	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Accuracy Class Weights, Semi-Micro Balance (Readability: 0.00001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	50 g	0.06 mg
133	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E1 Accuracy Class Weights, Semi-Micro Balance (Readability: 0.00001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	500 mg	0.02 mg
134	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E1 Accuracy Class Weights, Electronic Balance (Readability: 0.001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	1 kg	0.8 mg



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135	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E1 Accuracy Class Weights, Semi-Micro Balance (Readability: 0.00001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	1 mg	0.02 mg
136	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E1 Accuracy Class Weights, Semi-Micro Balance (Readability: 0.00001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	10 mg	0.02 mg
137	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E1 Accuracy Class Weights, Semi-Micro Balance (Readability: 0.00001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	100 mg	0.02 mg



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138	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E1 Accuracy Class Weights, Semi-Micro Balance (Readability: 0.00001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	2 mg	0.02 mg
139	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E1 Accuracy Class Weights, Semi-Micro Balance (Readability: 0.00001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	20 mg	0.02 mg
140	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E1 Accuracy Class Weights, Semi-Micro Balance (Readability: 0.00001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	5 mg	0.02 mg



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141	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E1 Accuracy Class Weights, Semi-Micro Balance (Readability: 0.00001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	50 mg	0.02 mg
142	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E1 Accuracy Class Weights, Electronic Balance (Readability: 0.001 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	500 g	1 mg
143	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using F1 Accuracy Class Weights, Electronic Balance (Readability: 0.1 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	10 kg	91 mg



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144	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using E1 Accuracy Class Weights, Electronic Balance (Readability: 0.01 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	2 kg	10.1 mg
145	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using F1 Accuracy Class Weights, Electronic Balance (Readability: 0.1 g) by Substitution Method (ABBA Cycle) as per OIML R 111-1:2004	5 kg	90 mg
146	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity/Temperature Meter with in Built or external sensor, Thermo-Hygrometer	Using Digital Temperature/Humidity data logger, Stability Chamber by comparison method	10 °C to 50 °C @ 50 % RH	0.87 °C
147	THERMAL-SPECIFIC HEAT & HUMIDITY	Temp/Humidity Meter with inbuilt or external sensor, Thermo-Hygrometer	Using Temp/ RH indicator with sensor, Temperature and Humidity Generator by Comparison Method	20 % RH to 95 % RH @ 25 °C	1.97 % RH



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148	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD (PT 100), 6½ Digit Multimeter, Liquid Bath by Comparison Method	(-) 30 °C to 25 °C	0.69 °C
149	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD (PT 100), 6½ Digit Multimeter, Liquid Bath by Comparison Method.	>25 °C to 300 °C	0.8 °C
150	THERMAL-TEMPERATURE	RTD with or without Indicator, Thermocouple with or without Indicator	Using RTD (PT 100), 6½ Digit Multimeter, Dry Well Temperature Bath by Comparison Method	(-) 25 °C to 80 °C	0.52 °C
151	THERMAL-TEMPERATURE	RTD with or without Indicator, Thermocouple with or without Indicator	Using RTD (PT 100), 6½ Digit Multimeter, Dry Well Temperature Bath by Comparison Method	> 80 °C to 300 °C	0.52 °C
152	THERMAL-TEMPERATURE	RTD with or without Indicator	Using RTD (PT 100), 6½ Digit Multimeter, Liquid Bath by Comparison Method	(-) 30 °C to 25 °C	0.46 °C



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153	THERMAL-TEMPERATURE	Temperature Indicator/Controller of Climatic Chamber/Hot Air Oven/Incubator/B.O. D./C.O.D, Auto Clave(Non Medical Purpose)/Liquid Bath/Dry Bath/Dry Block Furnace/Water Bath (Single Position)	Using RTD (PT 100), 6½ Digit Multimeter by Comparison Method	30 °C to 300 °C	1.12 °C
154	THERMAL-TEMPERATURE	Temperature Indicator/Controller of Cold Chambers/Climatic Chamber/Incubator/ B.O.D/C.O.D (Non Medical Purpose) Deep Freezer/Liquid Bath/Dry Bath/Cold Room/Refrigerator/Centrifuge Machine /Curing Tank (Single Position)	Using RTD (PT 100), 6½ Digit Multimeter by Comparison Method	(-) 25 °C to 30 °C	0.94 °C
155	THERMAL-TEMPERATURE	Temperature Indicator/Controller of Muffle Furnace, Dry Block Furnace (Single Position)	Using S Type Thermocouple with Indicator by Comparison Method	300 °C to 1000 °C	2.3 °C



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156	THERMAL-TEMPERATURE	Thermocouple with or without Indicator	Using S Type Thermocouple, 6½ Digit Multimeter, Tubular Furnace by Comparison Method	300 °C to 1000 °C	1.48 °C
157	THERMAL-TEMPERATURE	Thermometer-Dial/Digital, Temperature Gauge	Using RTD (PT 100), 6½ Digit Multimeter, Liquid Bath by Comparison Method	(-) 30 °C to 25 °C	0.52 °C
158	THERMAL-TEMPERATURE	Thermometer-Dial/Digital, Temperature Gauge	Using RTD (PT 100), 6½ Digit Multimeter, Liquid Bath by Comparison Method	>25 °C to 80 °C	0.68 °C
159	THERMAL-TEMPERATURE	Thermometer-Dial/Digital, Temperature Gauge	Using RTD (PT 100), 6½ Digit Multimeter, Liquid Bath by Comparison Method	>80 °C to 300 °C	0.70 °C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ DMM by Direct Method	100 µA to 100 mA	2 % to 0.6 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ DMM by Direct Method	100 mA to 10 A	0.6 % to 0.7 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with DMM by Direct Method	1 kV to 10 kV	4 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Divider with kV Meter by Direct Method	1 kV to 100 kV	2.8 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ DMM by Direct Method	1 mV to 100 mV	4.63 % to 0.5 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ DMM by Direct Method	100 mV to 1000 V	0.5 % to 0.11 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 4½ AC / DC Multifunction Site Calibrator with Current Coil (100X) by Direct Method	10 A to 1000 A	1.5 % to 1.9 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multifunction calibrator by Direct Method	1 A to 10 A	0.18 % to 0.40 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multifunction calibrator by Direct Method	100 µA to 1 A	0.45 % to 0.18 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power Single Phase @ 50 Hz, 0.5 A to 10 A ,5 V to 600 V, UPF to 0.2 PF (Lag and Lead)	Using Multifunction calibrator by Direct Method	0.5 W to 6 kW	0.5 % to 2 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multifunction calibrator by Direct Method	1 mV to 10 V	2.42 % to 0.602 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multifunction Calibrator by Direct Method	10 V to 1000 V	0.602 % to 0.211 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multifunction Calibrator by Direct Method	0.5 nF to 100 μ F	3 % to 0.72 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using 4½ AC / DC Multifunction Site Calibrator by Direct Method	1 nF to 10 μ F	2.45 % to 1.7 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multifunction calibrator by Direct Method	100 μ F to 300 μ F	0.72 % to 1.2 %



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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Phase Angle (230 V, 1 A @ 50 Hz)	Using Multifunction Calibrator by Direct Method	0° to 90°	1.02°
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor (Lag & Lead) {230 V, 1 A @ 50 Hz}	Using Multifunction Calibrator by Direct Method	0.2 PF to 1 PF	0.005 PF
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Resistance 2 Wire @ 1 kHz	Using 4½ AC / DC Multifunction Site Calibrator by Direct Method	1 ohm to 10 kohm	1.1 % to 1.2 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Capacitance	Using 6½ DMM by Direct Method	0.5 nF to 100 µF	3.48 % to 2.5 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Capacitance	Using 6½ DMM by Direct Method	100 µF to 300 µF	2.5 % to 1.84 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using by 6½ DMM by Direct Method	10 µA to 10 A	0.7 % to 0.27 %



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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct Method	1 kV to 10 kV	4% to 2.5 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Divider with kV Meter by Direct Method	1 kV to 70 kV	2 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ DMM by Direct Method	0.1 mV to 100 mV	4.06 % to 0.06 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM by Direct Method	100 mV to 1000 V	0.06 % to 0.04 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Low Resistance 4 wire	Using 6½ Digit DMM and Multifunction Calibrator by V/I Method	0.02 mohm to 10 ohm	1.1 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance 4 wire	Using 6½ DMM by Direct Method	10 ohm to 100 kohm	0.7 % to 0.2 %



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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance 2 wire	Using 6½ DMM by Direct Method	100 kohm to 100 Mohm	0.2 % to 2.9 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance 2 wire	Using 6 ½ DMM by Direct Method	100 Mohm to 1 Gohm	2.93 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction calibrator by Direct Method	10 µA to 100 µA	0.6 % to 0.07 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 4½ AC / DC Multifunction Site Calibrator with Current Coil (100X) by Direct Method	10 A to 1000 A	1 % to 1.5 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	100 µA to 100 mA	0.07 % to 0.02 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	100 mA to 10 A	0.02 % to 0.17 %



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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	0.1 mV to 10 mV	4.1 % to 0.1 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using multifunction calibrator by Direct Method	1 V to 1000 V	0.059 % to 0.01 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using multifunction calibrator by Direct Method	10 mV to 1 V	0.1 % to 0.015 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance 2 wire (250 V to 5 kV)	Using Standard Resistance Box by Direct Method	1 Mohm to 100 Gohm	3.4 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance 2 wire	Using Multifunction calibrator by Direct Method	10 Mohm to 100 Mohm	0.08 % to 0.6 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance 2 wire	Using Multifunction Calibrator by Direct Method	100 kohm to 10 Mohm	0.02 % to 0.08 %



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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance 2 wire	Using Multifunction calibrator by direct Method	100 Mohm to 300 Mohm	0.6 % to 1.0 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance 4 wire	Using Decade Resistance Box by Direct Method	0.02 mohm to 10 ohm	1 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance 4 wire	Using Multifunction calibrator by Direct Method	10 ohm to 100 kohm	0.2 % to 0.02 %
43	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH Meter	Using Multifunction Calibrator by Simulation Method	0 pH to 14 pH {(-) 421 mV to 421 mV}	1 % to 1.2 %
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B type Thermocouple	Using Multifunction Calibrator by Direct Method	600 °C to 1750 °C	0.81 °C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 100 °C to 1000 °C	0.46 °C



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46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 190 °C to 750 °C	0.44 °C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.75 °C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R type Thermocouple	Using Multifunction Calibrator by Direct Method	300 °C to 1750 °C	0.78 °C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD PT 100 Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 800 °C	0.38 °C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using Multifunction Calibrator by Direct Method	300 °C to 1750 °C	0.83 °C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 190 °C to 400 °C	1.05 °C



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52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B type Thermocouple	Using Multifunction Calibrator by Direct Method	600 °C to 1750 °C	0.81 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 100 °C to 1000 °C	0.58 °C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 190 °C to 750 °C	0.75 °C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.75 °C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R type Thermocouple	Using Multifunction Calibrator by Direct Method	300 °C to 1750 °C	0.79 °C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD PT 100 Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 800 °C	0.41 °C



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58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S type Thermocouple	Using Multifunction Calibrator by Direct Method	300 °C to 1750 °C	0.75 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 190 °C to 400 °C	0.80 °C
60	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ DMM by Comparison Method	10 Hz to 1 MHz	0.8 % to 1.40 %
61	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibrator by Comparison Method	5 s to 24 hr	0.69 s to 2 s
62	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction calibrator by Direct Method	10 Hz to 100 kHz	0.3 %
63	MECHANICAL-ACCELERATION AND SPEED	Centrifuge Machine, Magnetic Stirrer - Non - Contact	Using Digital Tachometer by Comparison Method	>500 rpm to 20000 rpm	2.94 %



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64	MECHANICAL-ACCELERATION AND SPEED	Centrifuge Machine, Magnetic Stirrer - Non - Contact	Using Digital Tachometer by Comparison Method	100 rpm to 500 rpm	3.2 %
65	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	94 dB & 114 dB	1 dB
66	MECHANICAL-PRESSURE INDICATING DEVICES	Dial / Digital - Pressure Gauge, Pressure Indicator - Hydraulic Pressure	Using Digital Pressure Gauge with Pressure Comparator by Comparison Method as per DKD R 6-1	0 to 30 bar	0.8 % of rdg
67	MECHANICAL-PRESSURE INDICATING DEVICES	Dial / Digital - Pressure Gauge, Pressure Indicator - Hydraulic Pressure	Using Digital Pressure Gauge with Pressure Comparator by Comparison Method as per DKD R 6-1	0 to 600 bar	0.8 % of rdg
68	MECHANICAL-PRESSURE INDICATING DEVICES	Dial / Digital - Vacuum Gauge, Vacuum Indicator - Pneumatic Pressure	Using Digital vacuum Gauge with Vacuum Comparator by Comparison Method as per DKD R 6-1	(-) 0.9 bar to 0	0.8 % of rdg
69	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machines and Tensile Testing Machine - Tension Mode	Using Standards Newton Weights by Comparison Method as per IS 1828 (Part 1) : 2022, ISO 7500-1: 2018.	1 N to 100 N	0.85%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CALI-LABS PRIVATE LIMITED, KHASRA NO. 11/1/1/1/2/2, LAMBAKHEDA, BERASIA ROAD, BHOPAL, MADHYA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0826MP04893

Validity 26/07/2026 to 25/07/2030

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Last Amended on 06/08/2026

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)(±)
70	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machines and Compression Machine - Compression Mode	Using Force Proving Instrument by Comparison Method as per IS 1828 (Part 1) 2022, ISO 7500-1 2018.	100 kN to 500 kN	0.85 %
71	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machines and Tensile Testing Machine - Tension mode	Using Force Proving Instruments by Comparison Method as per IS 1828 (Part 1) : 2022, ISO 7500-1: 2018.	100 N to 100 kN	0.85%
72	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital Micro/Semi-Micro Electronic Balance: Readability : 0.001 mg (Class I & Coarser)	Using E1 Accuracy Class Weights by Comparison Method as per OIML R 76-1	0 to 3.2 g	0.007 mg
73	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance : 0.1 g Class III and Coarser	Using E1, F1 & F2 Accuracy Class Weights by Comparison Method as per OIML R 76-1	0 to 21 kg	87 mg
74	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class I and Coarser (Readability: 0.01 mg)	Using E1 Accuracy Class Weights by Comparison Method as per OIML R 76-1	0 to 80 g	0.03 mg
75	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class I and Coarser (Readability: 0.1 mg)	Using E1 Accuracy Class Weights by Comparison Method as per OIML R 76 - 1	0 to 200 g	0.3 mg



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76	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class II and Coarser (Readability: 0.001 g)	Using E1 Accuracy Class Weights by Comparison Method as per OIML R 76-1	0 to 1020 g	0.82 mg
77	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class II and Coarser (Readability: 0.01 g)	Using E1 Accuracy Class Weights by Comparison Method as per OIML R 76-1	0 to 5000 g	8.42 mg
78	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class II and Coarser (Readability: 1g)	Using F1 & F2 Accuracy Class Weights by Comparison Method as per OIML R 76-1	0 to 30 kg	2 g
79	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with Sensor of RH Chamber, Conditioning Chamber, Humidity Chamber, Environmental Chamber (Single Position)	Using Digital Hygrometer by Comparison Method	20 % RH to 95 % RH @ 25 °C	1.9 % RH
80	THERMAL-TEMPERATURE	Freezer, Oven, Conditioning Chamber, Autoclave (For Non Medical Purpose Only) - Multi Position	Using RTD (PT 100) with Data Logger (Minimum 9 Sensors) by Comparison Method	0 °C to 250 °C	5.7 °C



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81	THERMAL-TEMPERATURE	RTD with or without Indicator, Thermocouple with or without Indicator	Using RTD (PT 100), 6½ Digit Multimeter, Dry Well Temperature Bath by Comparison Method	(-) 25 °C to 80 °C	0.52 °C
82	THERMAL-TEMPERATURE	RTD with or without Indicator, Thermocouple with or without Indicator	Using RTD (PT 100), 6½ Digit Multimeter, Dry Well Temperature Bath by Comparison Method	> 80 °C to 300 °C	0.52 °C
83	THERMAL-TEMPERATURE	Temperature Indicator/Controller of Climatic Chamber/Hot Air Oven/Incubator/B.O. D./C.O.D, Auto Clave(Non Medical Purpose)/Liquid Bath/Dry Bath/Dry Block Furnace/Water Bath (Single Position)	Using RTD (PT 100), 6½ Digit Multimeter by Comparison Method	30 °C to 300 °C	1.12 °C



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84	THERMAL-TEMPERATURE	Temperature Indicator/Controller of Cold Chambers/Climatic Chamber/Incubator/ B.O.D/C.O.D (Non Medical Purpose) Deep Freezer/Liquid Bath/Dry Bath/Cold Room/Refrigerator/Centrifuge Machine /Curing Tank (Single Position)	Using RTD (PT 100), 6½ Digit Multimeter by Comparison Method	(-) 25 °C to 30 °C	0.94 °C
85	THERMAL-TEMPERATURE	Temperature Indicator/Controller of Muffle Furnace, Dry Block Furnace (Single Position)	Using S Type Thermocouple with Indicator by Comparison Method	300 °C to 1000 °C	2.3 °C
86	THERMAL-TEMPERATURE	Thermocouple with or without Indicator/Controller, Dial Temperature Gauge, Digital Thermometer	Using S Type Thermocouple, 6½ Digital Multimeter, Dry Block Calibrator by Comparison Method	300 °C to 500 °C	2.3 °C
87	THERMAL-TEMPERATURE	Thermometer-Dial/Digital, Temperature Gauge	Using RTD (PT 100), 6½ Digit Multimeter, Liquid Bath by Comparison Method	>25 °C to 80 °C	0.68 °C



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88	THERMAL-TEMPERATURE	Thermometer-Dial/Digital, Temperature Gauge	Using RTD (PT 100), 6½ Digit Multimeter, Liquid Bath by Comparison Method	>80 °C to 300 °C	0.70 °C

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