



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : UNITED CALIBRATIONS PVT.LTD., FLAT NO 2, SHYAMA ENCLAVE,SECTOR 7,
INDRAYANI NAGAR, BHOSARI, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 04/08/2020 to 03/08/2022 **Last Amended on** 28/10/2021

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) (Source)	AC Current (50Hz)	Using Multifunction Calibrator by Direct Method	0.2 mA to 2 mA	1.3 % to 1.8 %
2	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (50Hz)	Using Multifunction Calibrator by Direct Method	2 A to 10 A	0.6%
3	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (50Hz)	Using Multifunction Calibrator by Direct Method	2 mA to 20 mA	1.8 % to 1.6 %
4	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (50Hz)	Using Multifunction Calibrator by Direct Method	20 mA to 200 mA	1.6 % to 0.5 %
5	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (50Hz)	Using Multifunction Calibrator by Direct Method	200 mA to 2000 mA	0.5 % to 0.6 %



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6	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (50Hz)	Using Multifunction Calibrator and Current Coil by Direct Method	50 A to 900 A	2.4%
7	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by Direct Method	0.2 V to 20 V	0.36 % to 0.93 %
8	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by Direct Method	20 mV to 200 mV	2.64 % to 0.36 %
9	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by Direct Method	20 V to 200 V	0.93 % to 0.6 %
10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by Direct Method	200 V to 900 V	0.6 % to 0.3 %
11	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter By Direct Method	0.1 mA to 1 mA	1.42 % to 1.14 %



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12	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter By Direct Method	1 A to 10 A	1.35 % to 1.31 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter By Direct Method	1 mA to 10 mA	1.14 % to 1.57 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter By Direct Method	10 mA to 100 mA	1.57 % to 1.37 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter By Direct Method	100 mA to 1 A	1.37 % to 1.35 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using Digital Multimeter By Direct Method	1 k Ohm to 10 k Ohm	1.6 % to 1.6 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using Digital Multimeter By Direct Method	1 M Ohm to 30 M Ohm	1.36 % to 2.25 %



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18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using Digital Multimeter By Direct Method	10 k Ohm to 100 k Ohm	1.6 % to 0.74 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using Digital Multimeter By Direct Method	10 Ohm to 100 Ohm	1.56 % to 1.4 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using Digital Multimeter By Direct Method	100 k Ohm to 1 M Ohm	0.74 % to 1.17 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using Digital Multimeter By Direct Method	100 Ohm to 1000 Ohm	1.4 % to 1.6 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter By Direct Method	1 V to 10 V	0.41 % to 0.41 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter By Direct Method	10 mV to 100 mV	0.85 % to 0.28 %



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24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter By Direct Method	10 V to 100 V	0.41 % to 0.16 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter By Direct Method	100 mV to 1 V	0.28 % to 0.41 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter By Direct Method	100 V to 950 V	0.16 % to 0.22 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	0.2 mA to 2 mA	0.69 % to 0.76 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	2 A to 10 A	0.27 % to 0.54 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	2 mA to 20 mA	0.76 % to 0.59 %



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30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	20 mA to 200 mA	0.59 % to 0.83 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	200 mA to 2000 mA	0.83 % to 0.27 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator and Current Coil by Direct Method	50 A to 900 A	1.85 % to 0.6 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box by Direct Method	1 k Ohm to 10 k Ohm	0.27 % to 0.23 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box by Direct Method	1 M Ohm to 1 G Ohm	2.34 % to 3.13 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box by Direct Method	10 kOhm to 100 kOhm	0.54 % to 0.23 %



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36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box by Direct Method	10 Ohm to 100 Ohm	0.8 % to 0.29 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box by Direct Method	100 k Ohm to 1 M Ohm	0.29 % to 2.34 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box by Direct Method	100 Ohm to 1000 Ohm	0.29 % to 0.27 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	0.2 V to 20 V	0.19 % to 0.3 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	20 mV to 200 mV	0.40 % to 0.19 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	20 V to 200 V	0.3 % to 0.19 %



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42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	200 V to 1000 V	0.19 % to 0.18 %
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/ Controller J-Type (T/C)	Using MFC by Simulation Method	30 °C to 750 °C	1.74 °C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/ Controller K-Type (T/C)	Using MFC by Simulation Method	30 °C to 1200 °C	2.43 °C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/ Controller RTD PT-100	Using mV/mA/RTD Calibrator by Simulation Method	(-) 50 °C to 400 °C	0.85°C
46	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Digital Multimeter By Direct Method	100 Hz to 1 kHz	0.74 % to 0.88 %
47	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Digital Multimeter By Direct Method	45 Hz to 100 Hz	0.62 % to 0.74 %



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48	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timmer / Stop Watch	Using Digital Time Calibrator by Comparision Method	1 Hr to 24 Hrs	11 Sec to 50 Sec
49	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timmer / Stop Watch	Using Digital Time Calibrator by Comparision Method	5 Sec to 1 Hr	0.6 Sec to 11 Sec
50	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction Calibrator by Direct Method	100 Hz to 1 kHz	0.72 % to 0.24 %
51	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction Calibrator by Direct Method	45 Hz to 100 Hz	1.40 % to 0.72 %
52	MECHANICAL-ACCELERATION AND SPEED	RPM (Contact Type) Tachometers, RPM meters, RPM indicator	Using Master Contact Type Tachometer with Tacho-Generator by Comparison Method	>500 rpm to 5000 rpm	4.7rpm
53	MECHANICAL-ACCELERATION AND SPEED	RPM (Contact Type): Tachometers, RPM meters, RPM indicator	Using Master Contact Type Tachometer with Tacho-Generator by Comparison Method	100 rpm to 500 rpm	2.2rpm



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54	MECHANICAL-ACCELERATION AND SPEED	RPM (Non Contact Type): Tachometers, RPM meters, RPM indicator	Using Master Non-Contact Type Tachometer with Tacho-Generator by Comparison Method	>25000 rpm to 90000 rpm	53.4rpm
55	MECHANICAL-ACCELERATION AND SPEED	RPM (Non Contact Type): Tachometers, RPM meters, RPM indicator	Using Master Non-Contact Type Tachometer with Tacho-Generator by Comparison Method	>5000 rpm to 25000 rpm	21.0rpm
56	MECHANICAL-ACCELERATION AND SPEED	RPM (Non Contact Type): Tachometers, RPM meters, RPM indicator	Using Master Non-Contact Type Tachometer with Tacho-Generator by Comparison Method	100 rpm to 5000 rpm	17.0rpm
57	MECHANICAL-ACOUSTICS	Sound Level Meter	Using sound Level Calibrator By Direct Method	114 dB at 1 kHz	0.61dB
58	MECHANICAL-ACOUSTICS	Sound Level Meter	Using sound Level Calibrator By Direct Method	94 dB at 1kHz	0.61dB
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector L.C.: 5 Min	Using Angle Gauge & Surface Plate by Comparison Method	0 to 360 °	5.8min



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60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge With Dial (For Transmission Mechanism) LC=1µm	Using Dial Calibration Tester & Plunger Dial Gauge by Direct Method	0 to 1 mm	4.4µm
61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers (Vernier/Dial/Digital) L.C.:10 µm	Using Caliper Checker, Slip Gauge & Length Bar by Comparison Method	0 mm to 1000 mm	15.4µm
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set / Angle Protector L.C.: 1°	Using Angle Gauge & Surface Plate by Comparison Method	0 ° to 180 °	41min
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness of Working Face)	Using Digital Dial & Surface Plate by Comparison Method as per IS 7599	Upto 300 mm x 300 mm	6.5µm
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (Vernier/Dial/Digital) L.C.:10 µm	Using Slip Gauge Set, Caliper Checker, Length Bar & Surface Plate by Comparison Method	0 mm to 600 mm	19.8µm



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65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C. 10 µm	Using Slip Gauge Set & Surface Plate by Comparison Method	0 mm to 300 mm	5.86µm
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge L.C.: 1 µm	Using Slip Gauge by Comparison Method	0 mm to 200 mm	3.4µm
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge, L.C.: 10 µm	Using Slip gauge by Comparison Method	0 to 50 mm	5.8µm
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Dial, L.C.: 1 µm	Using Dial Calibration Tester by Direct Method	upto 25 mm	3.5µm
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Height Gauge L.C.:0.1 µm	Using Slip Gauge, Length Bar & Surface Plate by Comparison Method	0 mm to 1000 mm	10.6µm



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70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe with DRO L.C.: 1 µm	Using Dial Calibration Tester by Direct Method	upto 25 mm	3.5µm
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.:1 µm	Using Slip Gauge Set & Length Bar by Comparison Method	>100 mm to 300 mm	8.2µm
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.:1 µm	Using Slip Gauge Set by Comparison Method	0 to 100 mm	1.4µm
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.:10 µm	Using Slip Gauge Set & Length Bar by Comparison Method	> 300 mm to 1000 mm	10.1µm
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge / Thickness Foils	Using Electronics Comparator with stand by Comparison Method	0.01 mm to 2 mm	1.8µm



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75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) L.C.:10 µm	Using Caliper Checker, Slip Gauge, Length Bar & Surface Plate by Comparison Method	0 mm to 1000 mm	16.0µm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height master / setting master	Using Slip Gauge, Length bar, Digital Dial & Comparator by Comparison Method	> 150 mm to 500 mm	6.0µm
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height master / setting master	Using Slip Gauge, Electronic Comparator by Comparison Method	3 mm to 150 mm	2µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer L.C.: 10 µm	Using Slip Gauge Set & Digital Dial by Comparison Method	50 mm to 1000 mm	11.24µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length bar / Master Bar	Using Slip Gauge, Length bar, Digital Dial & Comparator by Comparison Method	>150 to 400 mm	5.3µm



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80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Bar / Master Bar	Using Slip Gauge, Length Bar, Electronic Probe Comparator by comparison method.	400 mm to 775 mm	10.3µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Bar / Master Bar	Using Slip Gauge, Electronic probe Comparator by Comparison Method	Upto 150 mm	2.0µm
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge L.C. : 1 µm	Using Dial Calibration Tester by Direct Method	0 to 1 mm	3.6µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using Slip Gauge, Electronics Comparator with stand by Comparison Method	0.5 mm to 20 mm	1.5µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C.: 0.05 mm)	Using Tape and Scale Calibration Tester By Comparison Method	0 to 2000 mm	128 Sqrt (L) µm Where L in meter



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85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C.: 0.05mm)	Using Tape and Scale Calibration Tester By Comparison Method	0 to 2000 mm	(128* Square root of L) μm where L in meter
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape, L. C. 1 mm	Using Tape and Scale Calibration Tester By Comparison Method	0 to 50 m	128 Sqrt (L) μm where L in meter
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standards	Using Slip Gauge, Length bar, Digital Dial & Comparator by Comparison Method	>150 mm to 400 mm	5.3 μm
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standards	Using Slip Gauge, Length bar, Electronic probe Comparator by Comparison Method	400 mm to 775 mm	10.3 μm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standards.	Using Slip Gauge, Electronic probe Comparator by Comparison Method as per IS 2967	Upto 150 mm	2.0 μm



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90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	OD master / Plain Mandril (Diameter)	Using Slip Gauge, Electronic Comparator by Comparison Method	3 mm to 150 mm	4.9µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Parallel Thread Plug Gauge (For Effective & Major Dia.)	Using FCDM, Cylindrical Setting Master & Thread Measuring Wires by Comparison Method	2 mm to 100 mm	4.2µm
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pie Tape, L. C. 1 mm	Using Tape and Scale Calibration Tester By Comparison Method	0 to 50 m	128 Sqrt (L)µm where L in meter
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper L.C.: 10 µm	Using Slip gauge by Comparison Method	0 to 50 mm	57.74µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Width Gauge	Using Slip Gauge, Length bar, Digital Dial & Comparator by Comparison Method	>150 mm to 500 mm	6.0µm



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95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Width Gauge	Using Slip Gauge, Electronic Comparator by Comparison Method	3 mm to 150 mm	2.0µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / Setting Ring / Master Ring (Inner Diameter)	Using LMM and Master Ring Gauge By Comparison Method	2 mm to 100 mm	2.4µm
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial, L.C.: 1 µm	Using Dial Calibration Tester by Direct Method	upto 25 mm	3.5µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector by Comparison Method	0.5 mm to 40 mm	20.0µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Template	Using Profile Projector by Comparison Method	0.5 mm to 40 mm	20µm



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100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Gap Gauge	Using Slip Gauge by Comparison Method as per IS 3455	> 100 mm to 234 mm	4.8µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Gap Gauge	Using Slip Gauge by Comparison Method as per IS 3455	2 mm to 100 mm	2µm
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Spirit Level (L.C.:10 µm/mtr) by Direct Method as per IS 7327 & IS 2285	Upto 1000 mm X 1000 mm	2.5 (Sqrt (L+W)/125)µm where L& W in mm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale	Using Profile Projector by Comparison Method	Upto 15 mm	117.0 µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Angle)	Using Profile Projector	55 ° to 60 °	4.4min



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105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Pitch)	Using Profile Projector	0.25 mm to 6 mm	18.0µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge - Effective Diameter	Using LMM and Master Setting Ring Gauge By Comparison Method as per IS2334, 4218, 14962, 2643, 10216, ANSI B1.1, 1.2	3 mm to 100 mm	2.5µm
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge L.C.: 0.1 µm	Using Slip Gauge Set and Height Block by Comparison Method	0 to 200 mm	107.0µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block - Squareness	Using Mandrel, Plunger Dial Gauge & Cylindrical Square by Direct Method as per IS 2949	Upto 300 mm	12.1µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block Parallelism	Using Mandrel, Plunger Dial Gauge & Cylindrical Square by Direct Method as per IS 2949	Upto 300 mm	10.1µm



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110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block Symmetry	Using Mandrel, Plunger Dial Gauge & Cylindrical Square by Direct Method as per IS 2949	upto 300 mm	10.1µm
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge	Using Profile Projector By Direct Method	0 ° to 90 °	18min
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge	Using Profile Projector By Direct Method	upto 50 mm	117µm
113	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine / Microscope (Magnification)	Using Slip Gauge, Digital Vernier caliper By Comparison Method	10X to 100X	0.8%
114	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine / Microscope L.C. - 0.0001 mm (Linear)	Using Glass linear scale, angular scale, Digital Vernier caliper By Comparison Method	0 mm to 200 mm	7.0µm



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115	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine / Microscope L.C. - 1 sec (Angular)	Using Glass angular scale By Comparison Method	0 ° to 360 °	2min
116	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Digital and Dial Pressure Gauges)	Using Digital Pressure Indicator & Hydraulic Pump by Comparison Method as Per DKD-R-6-1	0 bar to 700 bar	1.2bar
117	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Dial and Digital Vacuum Gauges	Using Digital Vacuum Indicator & Vacuum Pump by Comparison Method as Per DKD-R-6-2	(-) 0.8 bar to 0 bar	0.02bar



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	By Using High Voltage Probe and Digital Multimeter	1 kV to 40 kV	6.44 % to 6.28 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50Hz)	Using Multifunction Calibrator by Direct Method	0.2 mA to 2 mA	1.3 % to 1.8 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50Hz)	Using Multifunction Calibrator by Direct Method	2 A to 10 A	0.6%
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50Hz)	Using Multifunction Calibrator by Direct Method	2 mA to 20 mA	1.8 % to 1.6 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50Hz)	Using Multifunction Calibrator by Direct Method	20 mA to 200 mA	1.6 % to 0.5 %



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6	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (50Hz)	Using Multifunction Calibrator by Direct Method	200 mA to 2000 mA	0.5 % to 0.6 %
7	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (50Hz)	Using Multifunction Calibrator and Current Coil by Direct Method	50 A to 900 A	2.4%
8	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by Direct Method	0.2 V to 20 V	0.36 % to 0.93 %
9	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by Direct Method	20 mV to 200 mV	2.64 % to 0.36 %
10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by Direct Method	20 V to 200 V	0.93 % to 0.6 %
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by Direct Method	200 V to 900 V	0.6 % to 0.3 %



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12	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter By Direct Method	0.1 mA to 1 mA	1.42 % to 1.14 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter By Direct Method	1 A to 10 A	1.35 % to 1.31 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter By Direct Method	1 mA to 10 mA	1.14 % to 1.57 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter By Direct Method	10 mA to 100 mA	1.57 % to 1.37 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter By Direct Method	100 mA to 1 A	1.37 % to 1.35 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	By Using High Voltage Probe and Digital Multimeter	1 kV to Upto 40 KV	4.52 % to 6.39 %



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18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using Digital Multimeter By Direct Method	1 k Ohm to 10 k Ohm	1.6 % to 1.6 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using Digital Multimeter By Direct Method	1 M Ohm to 30 M Ohm	1.36 % to 2.25 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using Digital Multimeter By Direct Method	10 k Ohm to 100 k Ohm	1.6 % to 0.74 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using Digital Multimeter By Direct Method	10 Ohm to 100 Ohm	1.56 % to 1.4 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using Digital Multimeter By Direct Method	100 k Ohm to 1 M Ohm	0.74 % to 1.17 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using Digital Multimeter By Direct Method	100 Ohm to 1000 Ohm	1.4 % to 1.6 %



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24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter By Direct Method	1 V to 10 V	0.41 % to 0.41 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter By Direct Method	10 mV to 100 mV	0.85 % to 0.28 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter By Direct Method	10 V to 100 V	0.41 % to 0.16 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter By Direct Method	100 mV to 1 V	0.28 % to 0.41 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter By Direct Method	100 V to 950 V	0.16 % to 0.22 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	0.2 mA to 2 mA	0.69 % to 0.76 %



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30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	2 A to 10 A	0.27 % to 0.54 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	2 mA to 20 mA	0.76 % to 0.59 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	20 mA to 200 mA	0.59 % to 0.83 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	200 mA to 2000 mA	0.83 % to 0.27 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator and Current Coil by Direct Method	50 A to 900 A	1.85 % to 0.6 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box by Direct Method	1 k Ohm to 10 k Ohm	0.27 % to 0.23 %



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36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box by Direct Method	1 M Ohm to 1 G Ohm	2.34 % to 3.13 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box by Direct Method	10 kOhm to 100 kOhm	0.54 % to 0.23 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box by Direct Method	10 Ohm to 100 Ohm	0.8 % to 0.29 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box by Direct Method	100 k Ohm to 1 M Ohm	0.29 % to 2.34 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box by Direct Method	100 Ohm to 1000 Ohm	0.29 % to 0.27 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	0.2 V to 20 V	0.19 % to 0.3 %



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42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	20 mV to 200 mV	0.40 % to 0.19 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	20 V to 200 V	0.3 % to 0.19 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	200 V to 1000 V	0.19 % to 0.18 %
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/ Controller J-Type (T/C)	Using MFC by Simulation Method	30 °C to 750 °C	1.74 °C
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/ Controller K-Type (T/C)	Using MFC by Simulation Method	30 °C to 1200 °C	2.43 °C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Indicator/ Controller RTD PT-100	Using mV/mA/RTD Calibrator by Simulation Method	(-) 50 °C to 400 °C	0.85 °C



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48	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Digital Multimeter By Direct Method	100 Hz to 1 kHz	0.74 % to 0.88 %
49	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Digital Multimeter By Direct Method	45 Hz to 100 Hz	0.62 % to 0.74 %
50	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timmer / Stop Watch	Using Digital Time Calibrator by Comparison Method	1 Hr to 24 Hrs	11 Sec to 50 Sec
51	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timmer / Stop Watch	Using Digital Time Calibrator by Comparison Method	5 Sec to 1 Hr	0.6 Sec to 11 Sec
52	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction Calibrator by Direct Method	100 Hz to 1 kHz	0.72 % to 0.24 %
53	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction Calibrator by Direct Method	45 Hz to 100 Hz	1.40 % to 0.72 %



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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)(±)
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Height Gauge L.C.:0.1 µm	Using Slip Gauge, Length Bar & Surface Plate by Comparison Method	0 mm to 1000 mm	10.6µm
55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Spirit Level (L.C.:10 µm/mtr) by Direct Method as per IS 7327 & IS 2285	Upto 1000 mm X 1000 mm	2.5 (Sqrt (L+W)/125)µm where L& W in mm
56	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine / Microscope (Magnification)	Using Slip Gauge, Digital Vernier caliper By Comparison Method	10X to 100X	0.8%
57	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine / Microscope L.C. - 0.0001 mm (Linear)	Using Glass linear scale, angular scale, Digital Vernier caliper By Comparison Method	0 mm to 200 mm	7.0µm
58	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine / Microscope L.C. - 1 sec (Angular)	Using Glass angular scale By Comparison Method	0 ° to 360 °	2min



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59	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Digital and Dial Pressure Gauges)	Using Digital Pressure Indicator & Hydraulic Pump by Comparison Method as Per DKD-R-6-1	0 bar to 700 bar	1.2bar
60	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Dial and Digital Vacuum Gauges	Using Digital Vacuum Indicator & Vacuum Pump by Comparison Method as Per DKD-R-6-2	(-) 0.8 bar to 0 bar	0.02bar

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