National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : EXCELLENT SERVICES, B-34 -35, G-7, B-54, GANPATI PARADISE, CENTRAL SPINE, VIDHYADHAR NAGAR, JAIPUR, RAJASTHAN, INDIA

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using Fluke 8846A, 6 ½ DMM By Direct Method	100 mA to 10 A	0.25 % to 1.0 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using Fluke 8846A, 6 ½ DMM By Direct Method	10 µA to 100 mA	0.25%
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using Fluke 8846A, 6 ½ DMM By Direct Method	10 mV to 100 mV	1 % to 0.1 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using Fluke 8846A, 6 ½ DMM By Direct Method	100 mV to 1000 V	0.1%

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1kHz	Using LCR Meter Aplab 4910 By Direct Method	1 nF to 100 nF	1.35 % to 0.8 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1kHz	Using LCR Meter Aplab 4910 By Direct Method	100 nF to 1000 µF	0.8%
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 1kHz	Using LCR Meter Aplab 4910 By Direct Method	1 mH to 10 H	1.2%
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using Fluke Multi-product Calibrator 5502A By Direct Method	33 µA to 1 mA	0.55 % to 0.15 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using Fluke Multi-product Calibrator 5502A By Direct Method	1 mA to 20 A	0.15 % to 0.1 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using Fluke Multi-product Calibrator 5502A with Current Coil By Direct Method	20 A to 1000 A	0.37 % to 0.13 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power/Energy 1 ø Phase @50Hz 15V to 300 V 30.5mA to 20A 0.087PF to UPF	Using 1ø Power MPC source By Direct Method	0.04 W to 6000 W	0.19 W to 1.2 W
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power/Energy 3 ø Phase @50Hz 63V to 300 V 80mA to 20A UPF 0 to 18000 W	Using 3ø Power Energy Calibration Source By Direct Method	3 W to 18000 W	0.19 % to 1.2 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz	Using Fluke Multi-product Calibrator 5502A By Direct Method	10 mV to 100 mV	0.35 % to 0.06 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz	Using Fluke Multi-product Calibrator 5502A By Direct Method	3 mV to 10 mV	0.9 % to 0.35 %

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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz	Using Fluke Multi-product Calibrator 5502A By Direct Method	100 mV to 1000 V	0.06%
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	Using Fluke Multi-product Calibrator 5502A /Decade Capacitance Box By Direct Method	100 µF to 1000 µF	0.7 % to 0.6 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	Using Fluke Multi-product Calibrator 5502A /Decade Capacitance Box By Direct Method	100 pF to 100 µF	1.4 % to 0.7 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1kHz	Using Decade Inductance Box By Direct Method	1 mH to 10 H	1.2%
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor	Using 1ø Power MPC By Direct Method	(-)0.087 to 1.0	0.003%

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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor	Using 3ø Power Energy Calibration Source By Direct Method	(-)0.50 to 1.0	0.015%
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor	Using 1ø Power MPC By Direct Method	0.087 to 1	0.003%
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Turn Ratio Meter	Using Ratio Calibration Standard By Direct Method	11 Turn to 220 Turn	0.4 % to 0.3 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Fluke 8846A, 6 ½ DMM By Direct Method	100 mA to 10 A	0.27 % to 0.8 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Fluke 8846A, 6 ½ DMM By Direct Method	20 µA to 100 mA	0.27%

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25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Resistance	Using Std. Resistance Box & Insulation tester By Comparison Method	1 G Ohm to 1000 G Ohm	3.5%
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using Fluke 8846A 6 ½ DMM By Direct Method	1 Ohm to 10 Ohm	0.4 % to 0.05 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using Fluke 8846A 6 ½ DMM By Direct Method	10 Ohm to 100 Ohm	0.05 % to 0.01 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using Fluke 8846A 6 ½ DMM By Direct Method	100 Ohm to 100 M Ohm	0.01 % to 0.5 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using Fluke 8846A 6 ½ DMM By Direct Method	100 M Ohm to 1 G Ohm	0.5 % to 2.33 %

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30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using Std. Resistance Direct / VI Method Fluke 8846A 6 ½ DMM,MPC-5502A	0.1 m Ohm	0.1%
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using Standard Resistance Box/Standard Resistor & Dig. Micro Ohmmeter By Comparison Method	0.1 m Ohm	0.19%
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using Standard Resistance Box/Standard Resistor & Dig. Micro Ohmmeter By Comparison Method	1 m Ohm	0.11%
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using Std. Resistance Direct / VI Method Fluke 8846A 6 ½ DMM/MPC 5502A	1 m Ohm	0.06%
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using Std. Resistance Direct / VI Method Fluke 8846A 6 ½ DMM/MPC 5502A	1 Ohm	0.06%

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35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using Std. Resistance Direct / VI Method Fluke 8846A 6 ½ DMM/MPC 5502A	10 m Ohm	0.06%
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using Standard Resistance Box/Standard Resistor & Dig. Micro Ohmmeter By Comparison Method	10 m Ohm	0.11%
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using Standard Resistance Box/Standard Resistor & Dig. Micro ohmmeter By Comparison Method	100 m Ohm	0.11%
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using Std. Resistance Direct / VI Method Fluke 8846A 6 ½ DMM/MPC 5502A	100 m Ohm	0.06%
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4Wire)	Using Standard Resistance Box/Standard Resistor & Dig Micro ohmmeterBy Comparison Method	1 Ohm	0.11%

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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Fluke 8846A, 6 ½ DMM By Direct Method	1 mV to 10 mV	0.5 % to 0.05 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Fluke 8846A, 6 ½ DMM By Direct Method	10 mV to 100 mV	0.05 % to 0.01 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Fluke 8846A, 6 ½ DMM By Direct Method	100 mV to 1000 V	0.01 % to 0.15 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke Multi-product Calibrator 5502A By Direct Method	1 A to 20 A	0.04 % to 0.1 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke Multi-product Calibrator 5502A By Direct Method	190 µA to 1 A	0.04%

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45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke Multi-product Calibrator 5502A By Direct Method	20 µA to 190 µA	0.3 % to 0.04 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke Multi-product Calibrator 5502A With Current Coil By Direct Method	20 A to 1000 A	0.19 % to 0.26 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power 10V to 200V/1A to 5A 10 W to 1.0 kW	Using Fluke Multi-product Calibrator 5502A By Direct Method	10 W to 1 kW	0.3%
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance 500V to 5kV	Using Standard mega Ohm Box By Direct Method	100 GOhm to 1000 GOhm	5.0%
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance 500V to 5kV	Using Standard mega Ohm Box By Direct Method	2 GOhm to 20 GOhm	3.7%

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50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Fluke Multi-product Calibrator 5502A /Decade Resistance Box By Direct Method	1 MOhm to 10 MOhm	0.02 % to 0.15 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Fluke Multi-product Calibrator 5502A /Decade Resistance Box By Direct Method	1 Ohm to 10 Ohm	1.0 % to 0.13 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Fluke Multi-product Calibrator 5502A /Decade Resistance Box By Direct Method	10 MOhm to 1000 MOhm	0.15 % to 1.8 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Fluke Multi-product Calibrator 5502A /Decade Resistance Box By Direct Method	10 Ohm to 100 Ohm	0.13 % to 0.05 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Fluke Multi-product Calibrator 5502A /Decade Resistance Box By Direct Method	100 Ohm to 1 MOhm	0.05 % to 0.02 %

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55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistance Box/Standard Resistor By Direct Method	1 m Ohm	0.11%
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistance Box/Standard Resistor By Direct Method	1 Ohm	0.11%
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistance Box/Standard Resistor By Direct Method	10 m Ohm	0.11%
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistance Box/Standard Resistor By Direct Method	100 mOhm	0.11%
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4Wire)	Using Standard Resistance Box/Standard Resistor By Direct Method	0.1 m Ohm	0.12%

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60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke Multi-product Calibrator 5502A By Direct Method	1 mV to 10 mV	0.6 % to 0.04 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke Multi-product Calibrator 5502A By Direct Method	10 mV to 330 mV	0.04 % to 0.014 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke Multi-product Calibrator 5502A By Direct Method	330 mV to 1000 V	0.014 % to 0.01 %
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller/Recorder/ Data Logger /Scanner) B- Type	Using Universal Calibrator – Radix/fluke MPC By Direct Method	450 °C to 1800 °C	0.8°C
64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller/Recorder/ Data Logger /Scanner) J- Type	Using Universal Calibrator – Radix/fluke MPC By Direct Method	-200 °C to 750 °C	0.15°C

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65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller/Recorder/ Data Logger /Scanner) K- Type	Using Universal Calibrator – Radix/fluke MPC By Direct Method	-200 °C to 1200 °C	0.17°C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller/Recorder/ Data Logger /Scanner) N- Type	Using Universal Calibrator – Radix/fluke MPC By Direct Method	-200 °C to 1300 °C	0.71°C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller/Recorder/ Data Logger /Scanner) R- Type	Using Universal Calibrator – Radix/fluke MPC By Direct Method	200 °C to 1500 °C	0.62°C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller/Recorder/ Data Logger /Scanner) RTD- Type	Using Universal Calibrator – Radix/fluke MPC By Direct Method	(-)160 °C to 800 °C	0.05°C

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69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller/Recorder/ Data Logger /Scanner) S- Type	Using Universal Calibrator – Radix/fluke MPC By Direct Method	200 °C to 1500 °C	0.69°C
70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller/Recorder/ Data Logger /Scanner) T- Type	Using Universal Calibrator – Radix/fluke MPC By Direct Method	30 °C to 400 °C	0.4°C
71	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Fluke 8846A, 6 ½ DMM By Direct Method	45 Hz to 1000 Hz	0.15 % to 0.29 %
72	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Stop Watch/ Timer/ Hour Meter (Mechanical/ Digital)	Using Digital Time Calibrator Make: Glaxo By Direct Method	6 sec to 600 sec	0.5sec
73	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Stop Watch/ Timer/ Hour Meter (Mechanical/ Digital)	Using Digital Time Calibrator Make: Glaxo By Direct Method	600 sec to 24 hrs	0.5 sec to 2 sec

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74	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Fluke Multi-product Calibrator 5502A By Direct Method	1 kHz to 1000 kHz	0.08 % to 0.27 %
75	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Fluke Multi-product Calibrator 5502A By Direct Method	1 kHz to 2 MHz	0.27 % to 0.30 %
76	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Fluke Multi-product Calibrator 5502A By Direct Method	10 Hz to 45 Hz	0.12%
77	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Fluke Multi-product Calibrator 5502A By Direct Method	45 Hz to 1000 Hz	0.08%
78	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Tachometer Calibrator/ Dig Tachometer by Comparison Method	60 RPM to 15000 RPM	1.6 % to 0.6%
79	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Tachometer Calibrator/ Dig Tachometer by Comparison Method	10 RPM to 60 RPM	1.6 % to 0.6%

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80	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Tachometer Calibrator/ Dig Tachometer by comparison method	60 RPM to 90000 RPM	1.1 % to 0.6%
81	MECHANICAL-ACOUSTICS	Sound Level Meter	Sound Level Calibrator by Direct Method	94 dB to 114 dB	0.8dB
82	MECHANICAL-DENSITY AND VISCOSITY	Hydrometer	Using Standard Hydrometer and Standard Liquid By Comparison Method	0.700 g/ml to 1.000 g/ml	0.0018g/ml
83	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Bevel/ Angle Protector /Combination Set (Angle) L.C. 1Minute	Angle Gauge	0 ° to 180 to 0 °	4.0'
84	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Bore Gauge Dial/Digital L.C.: 0.001mm	Dial Calibrator/ Dig Indicator	Up to 1 mm	3.0µm
85	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper (Vernier/Dial/Dig.) L.C.: 0.01mm	Using standard Caliper Checker	up to 1000 mm	15.0µm
86	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper (Vernier/Dial/Dig.) L.C.: 0.01mm	Caliper Checker/ Slip Gauge set	up to 150 mm	11µm

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87	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper (Vernier/Dial/Dig.) L.C.: 0.01mm	Caliper Checker/ Slip Gauge set	up to 300 mm	11.0µm
88	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper (Vernier/Dial/Dig.) L.C.: 0.01mm	Caliper Checker/ Slip Gauge set	up to 600 mm	13.0µm
89	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Chamfer Gauge Diameter	profile Projector by Comparison Method	0.5 mm to 5.0 mm	4.2µm
90	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Coating Thickness Gauge/Coat Meter L.C.: 0.1µm	Standard Foil	Up to 2000 µm	3.2µm
91	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Comparator Stand (Flatness of Base)	Lever Dial	Up to 300 X 200 mm	5.2µm
92	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Cube Mould	Digital Caliper	20 mm to 300 mm	43µm
93	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Depth Gauge (Dig./Dial/Vernier L.C.: 0.01mm	Slip Gauge Set/Caliper Checker	up to 300 mm	9.0µm

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94	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Indicator/ Dial Gauge (Analogue/Dial/Digital) L.C.: 0.001mm	Dial Calibrator & Slip Gauge set	Up to 25 mm	3.0µm
95	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Indicator/ Dial Gauge (Analogue/Dial/Digital) L.C.: 0.01mm	Dial Calibrator & Slip Gauge set	up to 100 mm	8.0µm
96	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Thickness Gauge L.C.: 0.001mm	Slip Gauge set	up to 10 mm	1.3µm
97	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Thickness Gauge L.C.: 0.01mm	Slip Gauge Set	up to 25 mm	6.0µm
98	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Extensometer	Using Dig. Dial Gauge with Stand Head And Vernier Caliper as per IS-12872, ISO-9513 and ASTM-E83 By Comparison Method	up to 10 mm	6.2µm
99	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	External Micrometer Dig. / Mech. L.C.: 0.001mm	Slip Gauge set	25 mm to 300 mm	4.2µm

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100	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	External Micrometer Dig. / Mech. L.C.: 0.001mm	Slip Gauge set	up to 25 mm	1.2µm
101	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Feeler Gauge	Dig. Micrometer	Up to 1 mm	2.2µm
102	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Flakiness Index/ Elongation -Index Apparatus	Using Digital Vernier Caliper by Comparison Method	Up to 100 mm	30µm
103	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Gauge (Vernier/Dial/Digital) L.C.: 0.01mm	Caliper Checker/ Puppy Dial	up to 1000 mm	14.0µm
104	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Gauge (Vernier/Dial/Digital) L.C.: 0.01mm	Caliper Checker/ Puppy Dial	up to 300 mm	9.0µm
105	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Gauge (Vernier/Dial/Digital) L.C.: 0.01mm	Caliper Checker/ Puppy Dial	up to 600 mm	14µm
106	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Internal Micrometer Dig. / Mech. L.C.: 0.01mm	Slip Gauge set & Caliper Checker	100 mm to 300 mm	9.7µm

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107	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Internal Micrometer Dig. / Mech. L.C.: 0.01mm	Slip Gauge set & Caliper Checker	300 mm to 600 mm	14.0µm
108	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Internal Micrometer Dig. / Mech. L.C.: 0.01mm	Slip Gauge set & Caliper Checker	Up to 100 mm	5.0µm
109	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Measuring Scale L.C.: 1mm/0.5mm	Measuring Scale & Tape Calibrator	up to 1000 mm	117.0µm
110	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Measuring Tape/Pi Tape L.C.: 1mm	Measuring Scale & Tape Calibrator	up to 30000 mm	117 * Lµm where L is in metre.
111	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope (Magnification)	Using Glass Scale & Dig. Vernier Caliper By Comparison Method	up to 1000 X	0.2%
112	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Pistol Caliper L.C.: 0.01mm/0.1mm	Slip Gauge Block	up to 200 mm	57µm
113	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Pitch Gauge Flank angle	Profile Projector	55 ° to 60 °	4'

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114	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Pitch Gauge/ Pitch Measurement-Pitch Length	Profile Projector	0.2 mm to 20 mm	7µm
115	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Plain Plug Gauge/Pin Gauge /wire gauge	Using Gauge Block Comparator Stand With Dial Gauge by Comparison Method	Up to 150 mm	3.3µm
116	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Angular) LC 0.001mm	Angle Gauge	0 to 360 °	22"
117	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Dimension)LC 0.001mm	Glass Scale & Gauge Block	0 to 200 mm	3.0µm
118	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification) LC 0.001mm	Gauge Block , Glass Scale & Digital Vernier Caliper	10 X to 100 X	0.2%
119	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Puppy Dial L.C.: 0.001mm	Dial Calibrator & Slip Gauge set	Up to 1 mm	3.5µm
120	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Radius Gauge	Profile Projector	Up to 100 mm	7.0µm

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121	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Receiving Gauge/ Profile Gauge / Profile of Work Piece-Length	Profile Projector/Gauge Block	0 to 300 mm	9.5µm
122	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Receiving Gauge/ Profile Gauge / Profile of Work Piece-Radius	Profile Projector	2.5 mm to 50 mm	4.2µm
123	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Snap Gauge (Dial/Digital)	Slip Gauge Set	up to 300 mm	3.3µm
124	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Sprit Level L.C.: 0.01mm/m	Electronic Level	+/-0.05 mm/m to +/-2.0 mm/m	7.0µm/m
125	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Standard Foil	Digital dial Gauge with comparator (Readability 0.0001mm) by comparison method	Up to 2000 µm	2µm
126	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Step Gauge	Dig. Micrometer/Profile Projector	Up to 25 mm	2.9µm

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127	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Straight Edge - Straightness	Electronic Level	up to 3000 mm	5.1 + 1.5(L-1)µm where L is length of straight edge in metre.
128	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Plate (Flatness)	Electronic Level	Up to 2000x2000 mm	(5.5+4.5LW)µm where L and W is in metre.
129	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Taper Scale	Profile Projector	0.1 mm to 50 mm	22µm
130	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Test Sieves	Profile Projector/ Dig. Vernier Caliper	20 µm to 10 mm	9.0µm
131	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Test Sieves	Dig. Vernier Caliper	5 mm to 150 mm	9.0 µm to 18.0 µm
132	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Ultrasonic Thickness Gauge	Slip Gauge Set	Up to 100 mm	58.0µm
133	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Wire Gauge	Profile Projector	0.19 mm to 7.82 mm	7µm

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134	MECHANICAL-DUROMETER	Durometer/Rubber Hardness Tester	Weighing Balance & Fixture Based on ISO 18898 & ASTM D 2240	0 to 100 Shore A	2.0Shore A
135	MECHANICAL-DUROMETER	Durometer/Rubber Hardness Tester	Weighing Balance & Fixture Based on ISO 18898 & ASTM D 2240	0 to 100 Shore D	2.0Shore D
136	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge(Push & Pull Mode)/Force Gauge	Using Dead Weight Force Standard Machine & Frame Fixtures and Hanger As per ADI/VDE 2624 Blatt 2.1/Part 2.1	1 N to 50 N	0.91%
137	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge(Push & Pull Mode)/Force Gauge	Using Dead Weight Force Standard Machine & Frame Fixtures and Hanger As per ADI/VDE 2624 Blatt 2.1/Part 2.1	200 N to 2000 N	0.98%
138	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge(Push & Pull Mode)/Force Gauge	Using Dead Weight Force Standard Machine & Frame Fixtures and Hanger As per ADI/VDE 2624 Blatt 2.1/Part 2.1	50 N to 500 N	0.91%

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139	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge(Absolute) Barometers, Manometers	Using Digital Pressure Calibrator By Comparison Method as per DKD R-6-1	100 mbar to 1050 mbar	0.88mbar
140	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic Dial and Digital Pressure Gauge, Pressure Transmitters/Transducer	Using Digital Pressure Indicator with Hydraulic Pump By Direct Method based on DKD-R-6-1	60 bar to 600 bar	0.2bar
141	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic Dial and Digital Pressure Gauge, Pressure Transmitters/Transducer	Digital Pressure Indicator with Hydraulic Pump By Direct Method based on DKD-R-6-1	600 bar to 1000 bar	1.3bar
142	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic Dial and Digital Pressure Gauge, Pressure Transmitters/Transducer	Using Digital Pressure Indicator with Hydraulic Pump By Direct Method based on DKD-R-6-1	up to 60 bar	0.04bar
143	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Digital/Dial Pressure Gauge, Pressure/Vacuum Transmitters/Transducer	Using Digital Pressure Indicator with pneumatic pump By Direct Method based on DKD-R-6-1	(-) 0.90 bar to 0 bar	0.004bar

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144	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Digital/Dial Pressure Gauge, Pressure/Vacuum Transmitters/Transducer	Using Digital Pressure Indicator with pneumatic pump By Direct Method based on DKD-R-6-1	up to 10 bar	0.03bar
145	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Digital/Dial Pressure Gauge, Pressure/Vacuum Transmitters/Transducer	Using Digital Pressure Indicator with pneumatic pump By Direct Method based on DKD-R-6-1	up to 3 bar	0.006bar
146	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench Analogue/Digital Type II/ Class A,B,C,D,E,F,	Using Torque Transducer with Indicator, Torque Wrench Calibration System IS/ISO: 6789:2003	200 Nm to 1000 Nm	1.0% rdg
147	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench Analogue/Digital Type II/ Class A,B,C,D,E,F,	Using Torque Transducer with Indicator, Torque Wrench Calibration System IS/ISO: 6789:2003	5 Nm to 50 Nm	1.8% rdg

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148	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench Analogue/Digital Type II/ Class A,B,C,D,E,F,	Using Torque Transducer with Indicator, Torque Wrench Calibration System IS/ISO: 6789:2003	50 Nm to 200 Nm	1.6% rdg
149	MECHANICAL-VOLUME	Volumetric Measurement: (Burette, Pipette, Volumetric Flask, Measuring Cylinder & Container)	Using Standard Weights of Accuracy Class E1, &E2, Precision Balance, distilled Water of know density Based on ISO 8655 By Gravimetric method LC 0.0001g	10 ml to 100 ml	0.44 µl to 2.47 µl
150	MECHANICAL-VOLUME	Volumetric Measurement: (Burette, Pipette, Volumetric Flask, Measuring Cylinder, Beaker & Container)	Using Standard Weights of Accuracy Class E1, E2 & F1, Precision Balance, distilled Water of know density Based on ISO 8655 By Gravimetric method LC 0.0001g	100 ml to 1000 ml	2.47 µl to 25.0 µl

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151	MECHANICAL-VOLUME	Volumetric Measurement: (Micropipette, Burette, Pipette, Volumetric Flask, Measuring Cylinder & Container	Using Standard Weights of Accuracy Class E1, & E2, Precision Balance, distilled Water of know density Based on ISO 8655 By Gravimetric method LC 0.00001g	1 ml to 10 ml	0.24 µl to 0.44 µl
152	MECHANICAL-VOLUME	Volumetric Measurement: (Micropipette,Pipette ,	Using Standard Weights of Accuracy Class E2, &E1, Precision Balance, distilled Water of know density LC 0.00001g	10 µl to 100 µl	0.03µl
153	MECHANICAL-VOLUME	Volumetric Measurement: (Micropipette,Pipette ,	Using Standard Weights of Accuracy Class E1, & E2, Precision Balance, distilled Water of know density Based on ISO 8655 By Gravimetric method LC 0.00001g	100 µl to 1000 µl	0.24µl

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154	MECHANICAL-VOLUME	Volumetric Measurement: Volumetric Flask, Measuring Cylinder, Beaker & Container)	Using Standard Weights of Accuracy Class F1, Precision Balance, distilled Water of know density Based on ISO 8655 By Gravimetric method LC 0.01g	1000 ml to 2000 ml	25.0 µl to 75.0 µl
155	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Readability: 0.1g & Corser	Using Weights of Accuracy F1, Class Procedure is based on OIML R-76by Direct Method	0 to 30 kg	0.24g
156	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Readability: 10 mg & Corser	Using Weights of Accuracy E2 & F1, Class Procedure is based on OIML R-76by Direct Method	0 to 2 kg	12.0mg
157	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Readability: 1g & Corser	Using Weights of Accuracy F1 & M1 Class Procedure is based on OIML R-76by Direct Method	0 to 120 kg	7.3g

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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)(±)
158	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Readability: 1mg & Corser	Using Weights of Accuracy E2 & F1, Class Procedure is based on OIML R-76by Direct Method	0 to 600 g	2.0mg
159	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Readability:0.01mg & Corser	Using Weights of AccuracyE1, E2, & F1 Class Procedure is based on OIML R-76by Direct Method	0 to 220 g	0.06mg
160	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Readability:0.1mg & Corser	Using Weights of AccuracyE1, E2, Class Procedure is based on OIML R-76by Direct Method	0 to 120 g	0.03mg
161	MECHANICAL-WEIGHTS	Weights (Conventional Mass) (F1, F2, M1, M2 Class)	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 LC 0.00001g	1 g	0.013mg

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162	MECHANICAL-WEIGHTS	Weights (Conventional Mass) (F1, F2, M1, M2 Class)	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 LC 0.00001g	1 mg	0.02mg
163	MECHANICAL-WEIGHTS	Weights (Conventional Mass) (F1, F2, M1, M2 Class)	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 LC 0.00001g	10 g	0.02mg
164	MECHANICAL-WEIGHTS	Weights (Conventional Mass) (F1, F2, M1, M2 Class)	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 LC 0.00001g	10 mg	0.02mg

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165	MECHANICAL-WEIGHTS	Weights (Conventional Mass) (F1, F2, M1, M2 Class)	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 LC 0.0001g	100 g	0.13mg
166	MECHANICAL-WEIGHTS	Weights (Conventional Mass) (F1, F2, M1, M2 Class)	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 LC 0.00001g	100 mg	0.02mg
167	MECHANICAL-WEIGHTS	Weights (Conventional Mass) (F1, F2, M1, M2 Class)	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 LC 0.00001g	2 g	0.013mg

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168	MECHANICAL-WEIGHTS	Weights (Conventional Mass) (F1, F2, M1, M2 Class)	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 LC 0.00001g	2 mg	0.02mg
169	MECHANICAL-WEIGHTS	Weights (Conventional Mass) (F1, F2, M1, M2 Class)	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 LC 0.00001g	20 g	0.02mg
170	MECHANICAL-WEIGHTS	Weights (Conventional Mass) (F1, F2, M1, M2 Class)	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 LC 0.00001g	20 mg	0.02mg

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171	MECHANICAL-WEIGHTS	Weights (Conventional Mass) (F1, F2, M1, M2 Class)	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 LC 0.00001g	200 g	0.13mg
172	MECHANICAL-WEIGHTS	Weights (Conventional Mass) (F1, F2, M1, M2 Class)	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 LC 0.00001g	200 mg	0.02mg
173	MECHANICAL-WEIGHTS	Weights (Conventional Mass) (F1, F2, M1, M2 Class)	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 LC 0.00001g	5 g	0.02mg

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174	MECHANICAL-WEIGHTS	Weights (Conventional Mass) (F1, F2, M1, M2 Class)	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 LC 0.00001g	5 mg	0.02mg
175	MECHANICAL-WEIGHTS	Weights (Conventional Mass) (F1, F2, M1, M2 Class)	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 LC 0.0001g	50 g	0.085mg
176	MECHANICAL-WEIGHTS	Weights (Conventional Mass) (F1, F2, M1, M2 Class)	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 LC 0.00001g	50 mg	0.02mg

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177	MECHANICAL-WEIGHTS	Weights (Conventional Mass) (F1, F2, M1, M2 Class)	Using Standard Weights of Accuracy Class E1, E2 & F1 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 LC 0.001g	500 g	0.02g
178	MECHANICAL-WEIGHTS	Weights (Conventional Mass) (F1, F2, M1, M2 Class)	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 LC 0.00001g	500 mg	0.08mg
179	MECHANICAL-WEIGHTS	Weights (Conventional Mass) (F2, M1, M2 Class)	Using Standard Weights of Accuracy Class F1 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 LC 0.001g	1 kg	0.02g

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180	MECHANICAL-WEIGHTS	Weights (Conventional Mass) (F2, M1, M2 Class)	Using Standard Weights of Accuracy Class F1Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 LC 0.1 g	10 kg	0.089g
181	MECHANICAL-WEIGHTS	Weights (Conventional Mass) (F2, M1, M2 Class)	Using Standard Weights of Accuracy Class F1Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 LC 0.01g	2 kg	0.02g
182	MECHANICAL-WEIGHTS	Weights (Conventional Mass) (F2, M1, M2 Class)	Using Standard Weights of Accuracy Class F1Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 LC 0.1g	20 kg	0.442g

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183	MECHANICAL-WEIGHTS	Weights (Conventional Mass) (F2, M1, M2 Class)	Using Standard Weights of Accuracy Class F1Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111	5 kg	0.089g
184	MECHANICAL-WEIGHTS	Weights (Conventional Mass) (F2, M1, M2 Class)	Using Standard Weights of Accuracy Class F1Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 LC 1g	50 kg	0.56g
185	OPTICAL-EQUIPMENTS	Dig. Lux/Light Meter	Digital Light Meter & Source	100 lx to 10000 lx	2.46% of rdg
186	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital & Analog Thermo Hygrometer /RH Sensor/RH Transmitters with Controller /Indicator /Recorder/Data Logger/ Dry and wet Bulb Thermometer	Using Standard Rotronics RH Sensor with Temp & Humidity Generator & Comparison Method	20 %RH to 95%RH @25°C	1.2%RH

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187	THERMAL-TEMPERATURE	Thermocouples with or without controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder with sensor	Using S-Type Thermocouple, Super DAQ Scanner Fluke 1586A, Dry Block Furnace by Comparison Method	>650°C to 900°C	1.7°C
188	THERMAL-TEMPERATURE	Thermocouples with or without controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder with sensor	Using S-Type Thermocouple, Super DAQ Scanner Fluke 1586A, Dry Block Furnace ,Comparison Method	900 °C to 1200 °C	2.2°C
189	THERMAL-TEMPERATURE	Digital & Analog Thermo Hygrometer /RH Sensor/RH Transmitters with Controller /Indicator /Recorder/Data Logger/ Dry and wet Bulb Thermometer	Using Standard Rotronics RH Sensor with Temp & Humidity Generator & Comparison Method,	5 °C to 50 °C	0.46°C

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190	THERMAL-TEMPERATURE	Infrared Thermometer/ Pyrometer/optical Thermometer	Using Infrared Thermometer & Black Body Source & Comparison Method,	50 °C to 500 °C	2.7°C
191	THERMAL-TEMPERATURE	Infrared Thermometer/ Pyrometer/optical Thermometer	Using Infrared Thermometer & Black Body Source & Comparison Method,	500 °C to 1300 °C	4.06°C
192	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SPRT Sensor with Super DAQ Scanner Fluke 1586A, Liquid bath& oil bath Using Infrared Thermometer & Black Body Source & Comparison Method	(-)30 °C to 50 °C	0.21°C
193	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SPRT Sensor with Super DAQ Scanner Fluke 1586A, Liquid bath& oil bath & Comparison Method	50 °C to 250 °C	0.17°C

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194	THERMAL-TEMPERATURE	RTD's, Thermocouples with controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder	Using SPRT Sensor with Super DAQ Scanner Fluke 1586A, Liquid Bath & Dry Block Furnace & Comparison Method,	(-)30 °C to 250 °C	0.21°C
195	THERMAL-TEMPERATURE	RTD's, Thermocouples with controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder	Using SPRT Sensor with Super DAQ Scanner Fluke 1586A, Liquid Bath & Dry Block Furnace & Comparison Method,	>250 °C to 650 °C	0.20°C
196	THERMAL-TEMPERATURE	RTD's, Thermocouples with or without controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder	Using SPRT Sensor with Super DAQ Scanner Fluke 1586A, Liquid Bath & Dry Block Furnace & Comparison Method,	50 °C to 250 °C	0.21°C

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197	THERMAL-TEMPERATURE	RTD's, Thermocouples without controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder	Using SPRT Sensor with Super DAQ Scanner Fluke 1586A, Liquid Bath & Dry Block Furnace, Universal Calibrator & Comparison Method	>250 °C to 650 °C	0.45°C
198	THERMAL-TEMPERATURE	RTD's, Thermocouples without controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder	Using SPRT Sensor with Super DAQ Scanner Fluke 1586A, Liquid Bath & Dry Block Furnace, Universal Calibrator & Comparison Method	-30 °C to 50 °C	0.19°C

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199	THERMAL-TEMPERATURE	RTD's, Thermocouples without Controller/Indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder	Using SPRT Sensor with Super DAQ Scanner Fluke 1586A, Liquid Bath & Dry Block Furnace, Universal Calibrator & Comparison Method	50 °C to 250 °C	0.35°C
200	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Liquid/ Water Bath/ Dry Block Furnace	Using RTD Sensor with Super DAQ Scanner Fluke 1586A For Single Position Calibration by Comparison Method	(-)40 °C to 250 °C	0.34°C
201	THERMAL-TEMPERATURE	Thermocouples with or without controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder	Using S-Type Thermocouple, Super DAQ Scanner Fluke 1586A, Dry Block Furnace & Comparison Method,	650 °C to 900°C	1.7°C

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202	THERMAL-TEMPERATURE	Thermocouples with or without Controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder with sensor	Using S-Type Thermocouple, Super DAQ Scanner Fluke 1586A, Dry Block Furnace by Comparison Method	>900 °C to 1200 °C	2.2°C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using Fluke 8846A, 6 ½ DMM By Direct Method	100 mA to 10 A	0.25 % to 1.0 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using Fluke 8846A, 6 ½ DMM By Direct Method	10 µA to 100 mA	0.25%
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using Fluke 8846A 6 ½ DMM With CT	100 A to 2000 A	1.8%
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage	Using HV Probe/Divider with DMM By Direct Method	1 kV to 28 kV	1.9 % to 1.7 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage	Using HV Divider with DMM By Direct Method	100 kV to 200 kV	3.0 % to 3.8 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage	Using HV Divider with DMM By Direct Method	28 kV to 100 kV	1.7 % to 3.0 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power / Energy 1ø & 3ø Cosø ±0.10 to 1 40 Hz to 60 Hz 40 V to 640 V 1 A to 150 A 40 W to 18 kW	Using 3ø Energy Logger By Direct Method	40 W to 18 kW	0.65%
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using Fluke 8846A, 6 ½ DMM By Direct Method	10 mV to 100 mV	1 % to 0.1 %

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9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using Fluke 8846A, 6 ½ DMM By Direct Method	100 mV to 1000 V	0.1%
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1kHz	Using LCR Meter Aplab 4910 By Direct Method	1 nF to 100 nF	1.35 % to 0.8 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1kHz	Using LCR Meter Aplab 4910 By Direct Method	100 nF to 1000 µF	0.8%
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 1kHz	Using LCR Meter Aplab 4910 By Direct Method	1 mH to 10 H	1.2%
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using Fluke Multi-product Calibrator 5502A By Direct Method	33 µA to 1 mA	0.55 % to 0.15 %

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14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using Fluke Multi-product Calibrator 5502A By Direct Method	1 mA to 20 A	0.15 % to 0.1 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using Fluke Multi-product Calibrator 5502A with Current Coil By Direct Method	20 A to 1000 A	0.37 % to 0.13 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power/Energy 1 ø Phase @50Hz 15V to 300 V 30.5mA to 20A 0.087PF to UPF	Using 1ø Power MPC source By Direct Method	0.04 W to 6000 W	0.19 W to 1.2 W
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power/Energy 3 ø Phase @50Hz 63V to 300 V 80mA to 20A UPF 0 to 18000 W	Using 3ø Power Energy Calibration Source By Direct Method	3 W to 18000 W	0.19 % to 1.2 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz	Using Fluke Multi-product Calibrator 5502A By Direct Method	10 mV to 100 mV	0.35 % to 0.06 %

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19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz	Using Fluke Multi-product Calibrator 5502A By Direct Method	3 mV to 10 mV	0.9 % to 0.35 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz	Using Fluke Multi-product Calibrator 5502A By Direct Method	100 mV to 1000 V	0.06%
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	Using Fluke Multi-product Calibrator 5502A /Decade Capacitance Box By Direct Method	100 µF to 1000 µF	0.7 % to 0.6 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	Using Fluke Multi-product Calibrator 5502A /Decade Capacitance Box By Direct Method	100 pF to 100 µF	1.4 % to 0.7 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1kHz	Using Decade Inductance Box By Direct Method	1 mH to 10 H	1.2%

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24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor	Using 1ø Power MPC By Direct Method	(-)0.087 to 1.0	0.003%
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor	Using 3ø Power Energy Calibration Source By Direct Method	(-)0.50 to 1.0	0.015%
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor	Using 1ø Power MPC By Direct Method	0.087 to 1	0.003%
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Turn Ratio Meter	Using Ratio Calibration Standard By Direct Method	11 Turn to 220 Turn	0.4 % to 0.3 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Fluke 8846A 6 ½ DMM With Std Shunt by Direct Method	0 A to 750 A	1.2%

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29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Fluke 8846A, 6 ½ DMM By Direct Method	100 mA to 10 A	0.27 % to 0.8 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Fluke 8846A, 6 ½ DMM By Direct Method	20 µA to 100 mA	0.27%
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Resistance	Using Std. Resistance Box & Insulation tester By Comparison Method	1 G Ohm to 1000 G Ohm	3.5%
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM By Direct Method	1 kV to 28 kV	2.8%
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using Fluke 8846A 6 ½ DMM By Direct Method	1 Ohm to 10 Ohm	0.4 % to 0.05 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using Fluke 8846A 6 ½ DMM By Direct Method	10 Ohm to 100 Ohm	0.05 % to 0.01 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using Fluke 8846A 6 ½ DMM By Direct Method	100 Ohm to 100 M Ohm	0.01 % to 0.5 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using Fluke 8846A 6 ½ DMM By Direct Method	100 M Ohm to 1 G Ohm	0.5 % to 2.33 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using Standard Resistance Box/Standard Resistor & Dig. Micro Ohmmeter By Comparison Method	0.1 m Ohm	0.19%
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using Standard Resistance Box/Standard Resistor & Dig. Micro Ohmmeter By Comparison Method	1 m Ohm	0.11%

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39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using Standard Resistance Box/Standard Resistor & Dig. Micro Ohmmeter By Comparison Method	10 m Ohm	0.11%
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using Standard Resistance Box/Standard Resistor & Dig. Micro ohmmeter By Comparison Method	100 m Ohm	0.11%
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4Wire)	Using Standard Resistance Box/Standard Resistor & Dig Micro ohmmeterBy Comparison Method	1 Ohm	0.11%
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Fluke 8846A, 6 ½ DMM By Direct Method	1 mV to 10 mV	0.5 % to 0.05 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Fluke 8846A, 6 ½ DMM By Direct Method	10 mV to 100 mV	0.05 % to 0.01 %

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44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Fluke 8846A, 6 ½ DMM By Direct Method	100 mV to 1000 V	0.01 % to 0.15 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke Multi-product Calibrator 5502A By Direct Method	1 A to 20 A	0.04 % to 0.1 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke Multi-product Calibrator 5502A By Direct Method	190 µA to 1 A	0.04%
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke Multi-product Calibrator 5502A By Direct Method	20 µA to 190 µA	0.3 % to 0.04 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke Multi-product Calibrator 5502A With Current Coil By Direct Method	20 A to 1000 A	0.19 % to 0.26 %

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49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power 10V to 200V/1A to 5A 10 W to 1.0 kW	Using Fluke Multi-product Calibrator 5502A By Direct Method	10 W to 1 kW	0.3%
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance 500V to 5kV	Using Standard mega Ohm Box By Direct Method	100 GOhm to 1000 GOhm	5.0%
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance 500V to 5kV	Using Standard mega Ohm Box By Direct Method	2 GOhm to 20 GOhm	3.7%
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Fluke Multi-product Calibrator 5502A /Decade Resistance Box By Direct Method	1 MOhm to 10 MOhm	0.02 % to 0.15 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Fluke Multi-product Calibrator 5502A /Decade Resistance Box By Direct Method	1 Ohm to 10 Ohm	1.0 % to 0.13 %

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54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Fluke Multi-product Calibrator 5502A /Decade Resistance Box By Direct Method	10 MOhm to 1000 MOhm	0.15 % to 1.8 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Fluke Multi-product Calibrator 5502A /Decade Resistance Box By Direct Method	10 Ohm to 100 Ohm	0.13 % to 0.05 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Fluke Multi-product Calibrator 5502A /Decade Resistance Box By Direct Method	100 Ohm to 1 MOhm	0.05 % to 0.02 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistance Box/Standard Resistor By Direct Method	1 m Ohm	0.11%
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistance Box/Standard Resistor By Direct Method	1 Ohm	0.11%

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59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistance Box/Standard Resistor By Direct Method	10 m Ohm	0.11%
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistance Box/Standard Resistor By Direct Method	100 mOhm	0.11%
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4Wire)	Using Standard Resistance Box/Standard Resistor By Direct Method	0.1 m Ohm	0.12%
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke Multi-product Calibrator 5502A By Direct Method	1 mV to 10 mV	0.6 % to 0.04 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke Multi-product Calibrator 5502A By Direct Method	10 mV to 330 mV	0.04 % to 0.014 %

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64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Fluke Multi-product Calibrator 5502A By Direct Method	330 mV to 1000 V	0.014 % to 0.01 %
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller/Recorder/ Data Logger /Scanner) B- Type	Using Universal Calibrator – Radix/fluke MPC By Direct Method	450 °C to 1800 °C	0.8°C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller/Recorder/ Data Logger /Scanner) J- Type	Using Universal Calibrator – Radix/fluke MPC By Direct Method	-200 °C to 750 °C	0.15°C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller/Recorder/ Data Logger /Scanner) K- Type	Using Universal Calibrator – Radix/fluke MPC By Direct Method	-200 °C to 1200 °C	0.17°C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller/Recorder/ Data Logger /Scanner) N- Type	Using Universal Calibrator – Radix/fluke MPC By Direct Method	-200 °C to 1300 °C	0.71°C

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69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller/Recorder/ Data Logger /Scanner) R- Type	Using Universal Calibrator – Radix/fluke MPC By Direct Method	200 °C to 1500 °C	0.62°C
70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller/Recorder/ Data Logger /Scanner) RTD- Type	Using Universal Calibrator – Radix/fluke MPC By Direct Method	(-)160 °C to 800 °C	0.05°C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller/Recorder/ Data Logger /Scanner) S- Type	Using Universal Calibrator – Radix/fluke MPC By Direct Method	200 °C to 1500 °C	0.69°C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller/Recorder/ Data Logger /Scanner) T- Type	Using Universal Calibrator – Radix/fluke MPC By Direct Method	30 °C to 400 °C	0.4°C
73	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Fluke 8846A, 6 ½ DMM By Direct Method	45 Hz to 1000 Hz	0.15 % to 0.29 %

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74	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Stop Watch/ Timer/ Hour Meter (Mechanical/ Digital)	Using Digital Time Calibrator Make: Glaxo By Direct Method	6 sec to 600 sec	0.5sec
75	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Stop Watch/ Timer/ Hour Meter (Mechanical/ Digital)	Using Digital Time Calibrator Make: Glaxo By Direct Method	600 sec to 24 hrs	0.5 sec to 2 sec
76	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Fluke Multi-product Calibrator 5502A By Direct Method	1 kHz to 1000 kHz	0.08 % to 0.27 %
77	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Fluke Multi-product Calibrator 5502A By Direct Method	1 kHz to 2 MHz	0.27 % to 0.30 %
78	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Fluke Multi-product Calibrator 5502A By Direct Method	10 Hz to 45 Hz	0.12%

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79	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Fluke Multi-product Calibrator 5502A By Direct Method	45 Hz to 1000 Hz	0.08%
80	MECHANICAL-ACCELERATION AND SPEED	Rpm meter/Centrifuge M/c (Non-Contact Type)	Dig Tachometer by comparison Method	60 RPM to 90000 RPM	1.1 % to 0.6%
81	MECHANICAL-ACCELERATION AND SPEED	Speed of Material Testing Machines	Using Height Gauge & Stop Watch by comparison method	up to 500 mm/minute	0.7%
82	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Tachometer Calibrator and Dig Tachometer by Comparison Method	10 RPM to 60 RPM	6.0% to 1.1%
83	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Displacement Measuring System of Material Testing Machines L.C. : 0.1mm	Using Standard Digital Height Gauge	up to 600 mm	21µm
84	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Extensometer	Using Dig. Dial Gauge with Stand Head And Vernier Caliper as per IS-12872, ISO-9513 and ASTM-E83 By Comparison Method	up to 10 mm	6.2µm

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85	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Flakiness Index/ Elongation -Index Apparatus	Using Digital Vernier Caliper by Comparison Method	Up to 100 mm	30µm
86	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope (Magnification)	Using Glass Scale & Dig. Vernier Caliper By Comparison Method	up to 1000 X	0.2%
87	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Angular) LC 0.001mm	Angle Gauge	0 to 360 °	22"
88	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Dimension)LC 0.001mm	Glass Scale & Gauge Block	0 to 200 mm	3.0µm
89	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification) LC 0.001mm	Gauge Block , Glass Scale & Digital Vernier Caliper	10 X to 100 X	0.2%
90	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Straight Edge - Straightness	Electronic Level	up to 3000 mm	5.1 + 1.5(L-1)µm where L is length of straight edge in metre.
91	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Plate (Flatness)	Electronic Level	Up to 2000x2000 mm	(5.5+4.5LW)µm where L and W is in metre.

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92	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Test Sieves	Digital Caliper	5 mm to 150 mm	18µm
93	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Blocks Based on IS 1500-2	10/3000 HBW	1.5%
94	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Blocks Based on IS 1500-2-2013	5/750 HBW	2.5%
95	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Blocks Based on IS 1586-2	0 to 100 HRBW	0.96HRBW
96	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Blocks Based on IS 1586-2	0 to 70 HRC	0.96HRC
97	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester	Using Standard Hardness Blocks Based on IS 1501-2	HV10 HV	2.5%
98	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester	Using Standard Hardness Blocks Based on IS 1501-2	HV30 HV	2.5%

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99	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester	Using Standard Hardness Blocks Based on IS 1501-2	HV5 HV	2.7%
100	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic Dial and Digital Pressure Gauge, Pressure Transmitters/Transducer	Using Digital Pressure Indicator with Hydraulic Pump By Direct Method based on DKD-R-6-1	60 bar to 600 bar	0.2bar
101	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic Dial and Digital Pressure Gauge, Pressure Transmitters/Transducer	Digital Pressure Indicator with Hydraulic Pump By Direct Method based on DKD-R-6-1	600 bar to 1000 bar	1.3bar
102	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic Dial and Digital Pressure Gauge, Pressure Transmitters/Transducer	Using Digital Pressure Indicator with Hydraulic Pump By Direct Method based on DKD-R-6-1	up to 60 bar	0.04bar
103	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Digital/Dial Pressure Gauge, Pressure/Vacuum Transmitters/Transducer	Using Digital Pressure Indicator with pneumatic pump By Direct Method based on DKD-R-6-1	(-) 0.90 bar to 0 bar	0.004bar

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104	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Digital/Dial Pressure Gauge, Pressure/Vacuum Transmitters/Transducer	Using Digital Pressure Indicator with pneumatic pump By Direct Method based on DKD-R-6-1	up to 10 bar	0.03bar
105	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Digital/Dial Pressure Gauge, Pressure/Vacuum Transmitters/Transducer	Using Digital Pressure Indicator with pneumatic pump By Direct Method based on DKD-R-6-1	up to 3 bar	0.006bar
106	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing Machines - Compression	Using Proving Ring/Load Cell with Display (Class I accuracy) Based on 1828.	0.5 kN to 2000 kN	0.60%
107	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing Machines - Tension	Using Proving Ring/Load Cell with Display (Class I accuracy) Based on 1828.	20 N to 200 kN	0.5%
108	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Readability: 0.1g & Corser	Using Weights of Accuracy F1, Class Procedure is based on OIML R-76by Direct Method	0 to 30 kg	0.24g

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109	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Readability: 10 mg & Corser	Using Weights of Accuracy E2 & F1, Class Procedure is based on OIML R-76by Direct Method	0 to 2 kg	12.0mg
110	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Readability: 1g & Corser	Using Weights of Accuracy F1 & M1 Class Procedure is based on OIML R-76by Direct Method	0 to 120 kg	7.3g
111	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Readability: 1mg & Corser	Using Weights of Accuracy E2 & F1, Class Procedure is based on OIML R-76by Direct Method	0 to 600 g	2.0mg
112	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Readability:0.01mg & Corser	Using Weights of AccuracyE1, E2, & F1 Class Procedure is based on OIML R-76by Direct Method	0 to 220 g	0.06mg

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113	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Readability:0.1mg & Corser	Using Weights of AccuracyE1, E2, Class Procedure is based on OIML R-76by Direct Method	0 to 120 g	0.03mg
114	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Readability: 10g & Corser	Using Weight of Accuracy F1 class & M1 Procedure is based on OIML R-76by Direct Method	0 to 350 kg	10.5g
115	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator With Sensor of Humidity Calibrator/Generator / Chamber	Using Standard RH Sensor With Indicator (Single Position Calibration) by Comparison Method	20 to 95%RH @25°C	1.6%RH
116	THERMAL-TEMPERATURE	Deep Freezers, Freezers, Cold Chamber,	Using RTD Sensor with Super DAQ Scanner Fluke 1586A By Comparison Method Multi position Calibration	(-)30 °C to 25 °C	1.7°C

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117	THERMAL-TEMPERATURE	Furnace	Using N-Type Thermocouple with Super DAQ Scanner Fluke 1586A By Comparison Method Multi Position Calibration (Mapping/TUS)	250 °C to 900 °C	4.0°C
118	THERMAL-TEMPERATURE	Infrared Thermometer/ Pyrometer/optical Thermometer	Using Infrared Thermometer & Black Body Source By Comparison Method	50 °C to 500 °C	2.7°C
119	THERMAL-TEMPERATURE	Infrared Thermometer/ Pyrometer/optical Thermometer	Using Infrared Thermometer & Black Body Source by Comparison Method	500 °C to 1300 °C	3.5°C
120	THERMAL-TEMPERATURE	Oven, Furnace, Conditioning Chamber	Using RTD Sensor with Super DAQ Scanner Fluke 1586A By Comparison Method Multi position(Mapping/TUS) Calibration By Comparison Method	25 °C to 250 °C	1.7°C

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121	THERMAL-TEMPERATURE	RTD's, Thermocouples with or without controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder	Using S-Type Thermocouple, with Indicator Dry Block Furnace ,Comparison Method	>250 °C to 650 °C	2.0°C
122	THERMAL-TEMPERATURE	RTD's, Thermocouples with or without controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder	Using 4 wire RTD Sensor with indicator By Comparison Method	50 °C to 250 °C	0.35°C

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123	THERMAL-TEMPERATURE	RTD's, Thermocouples without controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder	Using S-Type Thermocouple, with Indicator Dry Block Furnace ,Comparison Method	>250 °C to 650 °C	2.0°C
124	THERMAL-TEMPERATURE	RTD's, Thermocouples without controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder	Using RTD Sensor with indicator By Comparison Method	50 °C to 250 °C	0.22°C
125	THERMAL-TEMPERATURE	Temperature Indicator with sensor of BOD Incubator, Incubator, Conditioning chamber,	Using RTDSensor with Super DAQ Scanner Fluke 1586A For Single Position Calibration by Comparison Method	0 °C to 60 °C	0.33°C

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126	THERMAL-TEMPERATURE	Temperature Indicator With Sensor of Humidity Chamber/Conditioning Chamber	Using Standard Thermo hygrometer with Sensor With Indicator (Single Position Calibration) by Comparison Method	5 °C to 50 °C	0.24°C
127	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Deep Freezer, Cold Chamber	Using RTD Sensor with Super DAQ Scanner Fluke 1586A For Single Position Calibration by Comparison Method	(-)80 °C to Ambient	0.2°C
128	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Liquid/ Water Bath/ Dry Block Furnace	Using RTD Sensor with Super DAQ Scanner Fluke 1586A For Single Position Calibration by Comparison Method	(-)40 °C to 250 °C	0.34°C
129	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Muffle Furnace ,CBC, Furnace	Using R -Type Thermocouple with indicator Single Position Calibration by Comparison Method	>650 °C to 1500 °C	2.6°C

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130	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Muffle Furnace, CBC, Furnace	Using RTD Sensor & R -Type Thermocouple with indicator Single Position Calibration by Comparison Method	50 °C to 650 °C	1.56°C
131	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Oven, Thermal Stability, MFI, Hot Set App,, Ageing Oven,	Using RTD Sensor with Super DAQ Scanner Fluke 1586A For Single Position Calibration by Comparison Method	Ambient to 250 °C	0.33°C
132	THERMAL-TEMPERATURE	Temperature Transmitter, RTD's, Thermocouples with & without controller/ indicator/data logger/ Recorder, Glass Thermometer, Temperature Gauge, Digital Thermometer	Using SPRT Sensor with Super DAQ Scanner Fluke 1586A, Liquid Bath & Dry Block Furnace by Comparison Method	50 °C to 250 °C	0.35°C

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133	THERMAL-TEMPERATURE	Temperature Transmitter, RTD's, Thermocouples with or without controller/ indicator/data logger/ Recorder, Glass Thermometer, Temperature Gauge, Digital Thermometer	Using SPRT Sensor with Super DAQ Scanner Fluke 1586A Dry Block Furnace by Comparison Method Using S-Type Thermocouple, Super DAQ Scanner Fluke 1586A, Dry Block Furnace by Comparison Method	250 °C to 650 °C	0.18°C
134	THERMAL-TEMPERATURE	Temperature Transmitter, Thermocouples with & without controller/ indicator/data logger/ Recorder, Temperature Gauge, Digital Thermometer	Using SPRT Sensor with Super DAQ Scanner Fluke 1586A Dry Block Furnace by Comparison Method Using S-Type Thermocouple, Super DAQ Scanner Fluke 1586A, Dry Block Furnace by Comparison Method	650°C to 1200°C	2.5°C

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135	THERMAL-TEMPERATURE	Thermocouples with or without Controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder	Using S-Type Thermocouple, with Indicator Dry Block Furnace by Comparison Method	>650 °C to 900 °C	2.2°C
136	THERMAL-TEMPERATURE	Thermocouples with or without controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder with sensor	Using S-Type Thermocouple, with Indicator Dry Block Furnace by Comparison Method	>900 °C to 1200 °C	2.8°C
137	THERMAL-TEMPERATURE	Thermocouples with or without controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder with sensor	Using S-Type Thermocouple, with Indicator Dry Block Furnace ,Comparison Method	>900°C to 1200°C	2.8°C

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138	THERMAL-TEMPERATURE	Thermocouples without controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder	Using S-Type Thermocouple, with Indicator Dry Block Furnace ,Comparison Method	650 °C to 900 °C	2.2°C

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