National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

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

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz	Using 6 ½ Digit Multimeter By Direct Method	10 µA to 100 mA	0.36 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz	Using 6 ½ Digit Multimeter By Direct Method	100 mA to 10 A	0.36 % to 1.0 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz	Using 6 ½ Digit Multimeter By Direct Method	10 mV to 100 mV	1 % to 0.1 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz	Using 6 ½ Digit Multimeter By Direct Method	100 mV to 1000 V	0.1 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @1 kHz	Using LCR Meter By Direct Method	1 nF to 100 nF	1.35 % to 1.33 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @1 kHz	Using LCR Meter By Direct Method	100 nF to 1000 µF	1.33 %

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @1 kHz	Using LCR Meter By Direct Method	1 mH to 10 H	1.2 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1 Phase AC Active Energy @ 50 Hz (63 V to 300 V, 80 mA to 20 A, UPF)	Using Three Phase Calibration Source By Direct Method	12 Wh to 6000 Wh	0.19 % to 1.2 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1 Phase AC Active Power @ 50 Hz (63 V to 300 V, 80 mA to 20 A, (UPF to ± 0.5)	Using Three Phase Calibration Source By Direct Method	5 W to 18000 W	0.19 % to 1.2 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1 Phase AC Active Power @50 Hz (15 V to 600 V, 30.5 mA to 20 A, 0.087 PF to UPF)	Using MPC By Direct Method	2.4 W to 12000 W	0.19 % to 1.2 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3 Phase AC Active Energy @50 Hz (63 V to 300 V, 80 mA to 20 A, UPF)	Using Three Phase Calibration Source By Direct Method	12 Wh to 6000 Wh	0.19 % to 1.2 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3 Phase AC Active Power @50 Hz (63 V to 300 V, 80 mA to 20 A, (UPF to ±0.5)	Using Three Phase Calibration Source By Direct Method	5 W to 18000 W	0.19 % to 1.2 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using Multiproduct Calibrator By Direct Method	1 mA to 20 A	0.17 % to 0.1 %

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14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using Multiproduct Calibrator with Current Coil By Direct Method	20 A to 1000 A	2.1 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using Multiproduct Calibrator By Direct Method	33 µA to 1 mA	0.57 % to 0.15 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz	Using Multiproduct Calibrator By Direct Method	10 mV to 100 mV	0.35 % to 0.06 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz	Using Multiproduct Calibrator By Direct Method	100 mV to 1000 V	0.06 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz	Using Multiproduct Calibrator By Direct Method	3 mV to 10 mV	0.9 % to 0.35 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1 kHz	Using Decade Capacitance Box By Direct Method	100 µF to 1000 µF	0.7% to 0.6%
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1 kHz	Using Decade Capacitance Box By Direct Method	100 pF to 100 µF	1.4 % to 0.7 %

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21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @1 kHz	Using Decade Inductance Box By Direct Method	10 µH to 10 H	1.21 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 230 V, 10 A, 50 Hz	Using Three Phase Calibration Source By Direct Method	0.5PF to 1PF	0.015PF
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 230 V,10 A, 50 Hz	Using Three Phase Calibration Source By Direct Method	-0.5PF to 1PF	0.015 PF
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 240 V , 5 A , 50 Hz	Using Multi Product Calibrator By Direct Method	-0.087 PF to 1 PF	0.003 PF
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 240 V, 5 A, 50 Hz	Using Multi Product Calibrator By Direct Method	0.087PF to 1PF	0.003 PF
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Turn Ratio	Using Ratio Calibration Standard, 6½ DMM & 5½ DMM By V/V Method	11 Turn to 220 Turn	0.58 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digit Multimeter By Direct Method	100 mA to 10 A	0.27 % to 0.8 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digit Multimeter By Direct Method	20 µA to 100 mA	0.27 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Resistance (2 wire) @ 500 V , 1000 V & 2500 V	Using Insulation Tester , Standard Resistance Box By comparison method	1 Gohm to 100 Gohm	3.5 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Resistance (2 wire) @ 5000 V	Using Insulation Tester, Standard Resistance Box By comparison Method	100 Gohm to 1000 Gohm	6.86 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6 ½ Digit Multimeter By Direct Method	1 Ohm to 10 Ohm	0.4 % to 0.05 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6 ½ Digit Multimeter By Direct Method	10 Ohm to 100 Ohm	0.05 % to 0.01 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6 ½ Digit Multimeter By Direct Method	100 Mohm to 1 Gohm	0.5 % to 2.33 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6 ½ Digit Multimeter By Direct Method	100 Ohm to 100 Mohm	0.01 % to 0.5 %

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35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Multimeter with Source by VI Method	1 mohm to 1 ohm	0.06 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Multimeter with Source by VI Method	0.1 mohm	0.13 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6½ Digit Multimeter with Source by VI Method	10 µohm to 100 µohm	0.56 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digit Multimeter By Direct Method	1 mV to 10 mV	0.5 % to 0.05 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digit Multimeter By Direct Method	10 mV to 100 mV	0.05 % to 0.01 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digit Multimeter By Direct Method	100 mV to 1000 V	0.01 % to 0.15 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi product Calibrator By Direct Method	1 A to 20 A	0.04 % to 0.13 %

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42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator By Direct Method	190 µA to 1 A	0.07 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator By Direct Method	20 µA to 190 µA	0.3 % to 0.07 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator With Current Coil By Direct Method	20 A to 1000 A	1.64 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power 10 V to200 V, 1 A to 5 A	Using Multiproduct Calibrator By Direct Method	10 W to 1 kW	0.3 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multiproduct Calibrator By Direct Method	1 Mohm to 10 Mohm	0.02 % to 0.15 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multiproduct Calibrator By Direct Method	1 Ohm to 10 Ohm	1 % to 0.13 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multiproduct Calibrator By Direct Method	10 Mohm to 1000 Mohm	0.15 % to 1.93 %

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49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multiproduct Calibrator By Direct Method	10 Ohm to 100 Ohm	0.13 % to 0.05 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multiproduct Calibrator By Direct Method	100 Ohm to 1 Mohm	0.05 % to 0.02 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire) @ 2500 V	Using Standard megohm Box By Direct Method	2 Mohm to 100 Gohm	6.30 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire) @ 500 V & @1000 V	Using Standard megohm Box By Direct Method	1 Mohm to 50 Gohm	3.6 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire) @5000 V	Using Standard megohm Box By Direct Method	100 Gohm to 1000 Gohm	6 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistance Box By Direct Method	0.1 mohm	0.16 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor By Direct Method	1 mohm	0.11 %

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56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor By Direct Method	1 Ohm	0.11 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor By Direct Method	10 mohm	0.11 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor By Direct Method	100 mohm	0.11 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator By Direct Method	1 mV to 10 mV	0.6 % to 0.04 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator By Direct Method	10 mV to 330 mV	0.04 % to 0.014 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator By Direct Method	330 mV to 1000 V	0.014 % to 0.01 %
62	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Magnetic Rods / Magnetic Grill / Magnetic Plate / Magnetic bar / Magnetic Grid / Magnets	Using Gaussmeter by Direct Method	100 G to 10000 G	5 %

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63	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Conductivity Meter	Using Multi Product Calibrator By Simulation Method	1 µs/cm to 1000 ms/cm (1 Mohm to 1 Ohm)	0.8 %
64	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Gaussmeter (Magnetic Flux Density)	Using Gaussmeter, Standard Reference Magnets by Direct Method	100 G to 10000 G	5 %
65	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH Meter	Using Multi Product Calibrator By Simulation Method	0 to 14 pH ((-) 416.90 mV DC to 416.90 mV DC)	0.5 %
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B- Type thermocouple	Using MPC By Direct Method	600 °C to 1800 °C	0.8 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E- Type thermocouple	Using MPC By Direct Method	(-) 200 °C to 1000 °C	0.58 °C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J- Type thermocouple	Using MPC By Direct Method	(-) 200 °C to 750 °C	0.31 °C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K- Type thermocouple	Using Universal MPC By Direct Method	(-) 200 °C to 1300 °C	0.53 °C

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70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N- Type thermocouple	Using MPC By Direct Method	(-) 200 °C to 1300 °C	0.71 °C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R- Type thermocouple	Using MPC By Direct Method	200 °C to 1750 °C	0.69 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT-100)	Using Universal Calibrator /MPC By Direct Method	(-) 160 °C to 800 °C	0.07 °C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S- Type thermocouple	Using MPC By Direct Method	200 °C to 1750 °C	0.75 °C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T- Type Thermocouple	Using MPC By Direct Method	30 °C to 400 °C	0.4 °C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B- Type thermocouple	Using MPC By Direct Method	450 °C to 1800 °C	0.8 °C
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E- Type thermocouple	Using MPC By Direct Method	(-) 200 °C to 1000 °C	0.58 °C

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77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J- Type thermocouple	Using MPC By Direct Method	(-) 200 °C to 750 °C	0.32 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K- Type thermocouple	Using Universal MPC By Direct Method	(-) 200 °C to 1350 °C	0.47 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N- Type thermocouple	Using MPC By Direct Method	(-) 200 °C to 1300 °C	0.71 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R- Type thermocouple	Using MPC By Direct Method	200 °C to 1750 °C	0.62 °C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100)	Using MPC By Direct Method	(-) 160 °C to 800 °C	0.05 °C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S- Type thermocouple	Using MPC By Direct Method	200 °C to 1750 °C	0.69 °C
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T- Type thermocouple	Using MPC By Direct Method	30 °C to 400 °C	0.4 °C

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84	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digit Multimeter By Direct Method	1 kHz to 1000 kHz	0.29 %
85	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digit Multimeter By Direct Method	45 Hz to 1000 Hz	0.15 % to 0.29 %
86	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time (Mechanical / Digital)	Using Digital Time Calibrator By Direct Method	1 s to 600 s	0.5 s
87	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time (Mechanical / Digital)	Using Digital Time Calibrator By Direct Method	600 s to 24 Hrs.	0.5 s to 7.11 s
88	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator By Direct Method	1 kHz to 1000 kHz	0.08 % to 0.27 %
89	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator By Direct Method	1 MHz to 2 MHz	0.27 % to 0.3 %
90	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator By Direct Method	10 Hz to 45 Hz	0.12 %

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91	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator By Direct Method	45 Hz to 1000 Hz	0.08 %
92	FLUID FLOW-FLOW MEASURING DEVICES	Air Volume Flow rate of Rotameter / Flow measuring devices (Medium - Air)	Using Air Flow Calibrator By Comparison Method	0.2 lpm to 20 lpm	2.9 %
93	MECHANICAL-ACCELERATION AND SPEED	Stroboscope(Non Contact type)	Using Digital Tachometer by Comparison Method	10 rpm to 100 rpm	2.5 %
94	MECHANICAL-ACCELERATION AND SPEED	Stroboscope(Non Contact Type)	Using Digital Tachometer by Comparison Method	15000 rpm to 90000 rpm	0.05 %
95	MECHANICAL-ACCELERATION AND SPEED	Stroboscope(Non Contact Type)	Using Digital Tachometer by Comparison Method	100 rpm to 15000 rpm	0.36 %
96	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer & rpm Source by Comparison Method	10 rpm to 100 rpm	2.59 %
97	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer & rpm Source by Comparison Method	15000 rpm to 90000 rpm	0.05 %
98	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer & rpm Source by Comparison Method	10 rpm to 100 rpm	3.0 %
99	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer & rpm Source by Comparison Method	100 rpm to 1000 rpm	0.93 %

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100	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer & rpm Source by Comparison Method	1000 rpm to 15000 rpm	0.29 %
101	MECHANICAL-ACCELERATION AND SPEED	Tachometer(Non Contact Type)	Using Digital Tachometer Comparison Method	100 rpm to 15000 rpm	1.6 %
102	MECHANICAL-ACOUSTICS	Sound Level Meter @1 kHz	Using Sound Level Calibrator by Direct Method	114 dB	0.8 dB
103	MECHANICAL-ACOUSTICS	Using Sound Level Meter @1 kHz	Sound Level Calibrator by Direct Method	94 dB	0.8 dB
104	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometer, Twaddle Hydrometer, Baume Hydrometer, Specific Hydrometer, Gravity Hydrometer, Brix Hydrometer, Lactometer, Alcometer.	Using Precision Balance (Readability - 0.0001g) By Hydrostatic Weighing By (Cuckow's) Method as per NISP SP 250-78.	0.600 g/ml to 2.000 g/ml	0.0005 g/ml
105	MECHANICAL-DENSITY AND VISCOSITY	Hydrometer	Using Standard Hydrometer and Standard Liquid By Comparison Method	0.700 g/ml to 1.000 g/ml	0.0030 g/ml
106	MECHANICAL-DENSITY AND VISCOSITY	Hydrometer	Using Standard Hydrometer and Standard Liquid By Comparison Method	1.000 g/ml to 2.000 g/ml	0.0037 g/ml
107	MECHANICAL-DENSITY AND VISCOSITY	Viscosity cup/Flow cup(ford, john, sheen. Shell)	Using Viscosity Reference Standard (Oil) & Stop Watch by direct method:	0 cSt to 325 cSt(Approx)@20°C	0.5 cSt

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108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Aggregate Impact Value / Aggregate Crushing Value (Dimension measurement of Part)	Using Digital Caliper by Direct method	5 mm to 400 mm	80 µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Beam Mould (Dimension Inspection)	Using Digital Caliper, Depth Caliper by Direct Method	0 to 800 mm	95 µm
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel/ Angle Protector /Combination Set (Angle) L.C. 1Minute	Using Angle Gauge Set by Comparison Method	0 - 360 °	4.0 Min
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (Dial / Digital) L.C.: 0.001mm	Using Dial Calibration Tester by Comparison Method	0 to 2.0 mm	4.0 µm
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Dig.) L.C.: 0.01mm	Using Caliper Checker/ Slip Gauge set by Comparison Method	0 to 150 mm	11 µm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Dig.) L.C.: 0.01mm	Using Caliper Checker/ Slip Gauge set by Comparison Method	0 to 600 mm	13 µm

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114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Dig.)L. C.: 0.01mm	Using Caliper Checker, Gauge Blocks, Micrometer, by Direct Method	0 to 1000 mm	16.5 µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Dig.)L. C.: 0.01mm	Using Caliper Checker/ Slip Gauge set by Comparison Method	0 to 300 mm	11 µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CBR Mould	Using Digital Caliper, Depth Caliper by Direct method	20 mm to 300 mm	37.2 µm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Chamfer Gauge/Weld fillet gauge/Hi-Lo gauge/ Bridge cam gauge-length	Using profile Projector by Direct Method	0 to 60 mm	4.2µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Chamfer Gauge/Weld fillet Gauge/Hi-Lo Gauge/ Bridge cam Gauge-Angle	Using profile Projector by Direct Method	1 ° to 90 °	7.0 '
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge L.C.: 0.1µm	Using Standard Foil by Direct Method	9 µm to 5.50 mm	2.3 µm

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120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness of Base)	Using Lever Dial with Screw Jack by Direct Method	Upto 300 x 200 mm	5.2 µm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould	Using Digital Caliper and depth gauge by Direct method	20 mm to 300 mm	43µm
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (Dig./Dial/Vernier L.C.: 0.01mm	Using Gauge block Set, V Block & Dial Indicator by Direct Method	0 to 300 mm	9 µm
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator (Plunger Type) (Analog / Dial / Digital) L.C.: 0.001mm	Using Dial Calibration Tester & Slip Gauge set by Direct Method	0 to 25 mm	2.0 µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator (Plunger Type) (Analog / Dial / Digital) L.C.: 0.01mm	Using Dial Calibration Tester & Slip Gauge set by Direct Method	0 to 100 mm	8 µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C.:0.001mm	Using Slip Gauge Set by Direct Method	0 to 10 mm	1.3 µm

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126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C.:0.01mm	Using Slip Gauge Set by Direct Method	0 to 25 mm	6 µm
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Index Apparatus	Using Digital Caliper by Direct Method	14.70 mm to 81.00 mm	30 µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square / Tri - Square / Right Angle / Angle Plate (Parallelism)	Using Digital Dial Indicator, Surface Plate by Comparison Method	Up to 300 mm	5 µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square / Tri - Square / Right Angle / Angle Plate (Squareness)	Using Granite Square, Gauge Block Set and Dial Indicator By Comparison Method	upto to 300 mm	6 µm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer class 0.5, 1 and 2	Using Height gauge with plunger Dial Gauge and Fixture as per IS-12872, ISO-9513 and ASTM-E83 By Comparison Method	0 to 10 mm	2.2 µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer LC 0.001 mm	Using Slip Gauge Block set, Slip Gauge Accessories, Optical Parallel Set by direct method	25 mm to 300 mm	4.2 µm

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132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer LC:0.001 mm	Using Gauge Block set, Optical Flat Set by direct method	0 to 25 mm	1.2 µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Dial Indicator with Comparator Stand by direct Method	0.03 mm to 1 mm	2.2 µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Index Apparatus	Using Digital Caliper by Direct Method	4.89 mm to 33.90 mm	30 µm
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman gauge depth measurement	Using Plunger dial gauge with Comparator Stand by Direct Method	0 to 100 µm	5.6 µm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) L.C.: 0.01mm	Using Caliper Checker,Gauge Blocks, Surface Plate and Lever Dial by Direct method	0 to 1000 mm	14 µm
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier / Dial / Digital) L.C.: 0.01mm	Using Caliper Checker, Puppy Dial by Direct method	0 to 300 mm	9 µm

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138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier / Dial / Digital) L.C.: 0.01mm	Using Caliper Checker, Puppy Dial by Direct method	0 to 600 mm	14 µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer L.C.: 0.001mm	Using Gauge Block set, Caliper Checker with Accessories by Direct Method	upto to 100 mm	5 µm
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer L.C.: 0.001mm	Using Gauge Block set, Caliper Checker with Accessories by Direct Method	100 mm to 300 mm	9.7 µm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer L.C.:0.001mm	Using Gauge Block set, Caliper Checker with Accessories by Direct Method	300 mm to 600 mm	14 µm
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C.: 0.5mm and 1mm)	Using Measuring Scale & Tape Calibrator by Direct method	0 to 50 m	121 Sqrt L µm, where L is in m
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Metric Steel Scale L.C.: 1mm/0.5mm	Using Measuring Scale & Tape Calibrator by Direct method	0 to 2000 mm	121 Sqrt L µm, where L is in mm

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144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Mould (Cylindrical, Proctor, Le-Chatelier, Compaction, Permeability) (Diameter / Depth / Height)	Using Digital Caliper, Depth Caliper by Direct Method	20 mm to 400 mm	37.2 µm
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Penetrometer L.C. : 0.1mm	Using Slip Gauge set by Direct Method	0 to 40 mm	58 µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pi - Tape / Circumference Tape / Diameter Tape (L.C. 0.01mm & Coarser)	Using Measuring Scale & Tape Calibrator by Direct method	0 to 20 m	121 Sqrt L µm, where L is in m
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L. C.: 0.01mm & Coarser)	Using Slip Gauge Set by Direct Method	0 to 200 mm	57 µm
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Gauge - Pitch Length	Using Profile Projector by Direct Method	0.2 mm to 20 mm	7 µm
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Gauge Flank Angle	Using Profile Projector by Direct Method	55 ° to 60 °	2.2 Min

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150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / OD Gauge, Ball Diameter (Sphere) / Go NoGO Gauge / Width Gauge / Pin Gauge / Gap Gauge / Setting Plug Gauge /Air Plug Gauge	Using Gauge Block Set and Plunger Dial Gauge with Comparator Stand /Universal Length Measuring Machine by Comparison Method	1 mm to 150 mm	3.3 µm
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / Setting Ring Gauge / Air Ring Gauge / Cylindrical Ring Gauge / ID Gauge	Using Universal Length Measuring Machine by Comparison method	1 mm to 100 mm	1.3 µm
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / Setting Ring Gauge / Air Ring Gauge / Cylindrical Ring Gauge / ID Gauge	Using Universal Length Measuring Machine by Comparison method	100 mm to 200 mm	2.0 µm
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / Setting Ring Gauge / Air Ring Gauge / Cylindrical Ring Gauge / ID Gauge	Using Universal Length Measuring Machine by Comparison method	200 mm to 300 mm	2.9 µm
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile of Work Piece - Length	Using Digital Caliper by Comparision method	0 to 300 mm	9.5 µm
155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Puppy Dial/Lever Dial L.C.: 0.001mm	Using Dial Calibration Tester & Slip Gauge Set by Direct Method	0 to 1 mm	2.0 µm

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156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector by Direct Method	0.2 mm to 100 mm	7 µm
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Receiving Gauge / Profile Gauge	Using Profile Projector By Direct Method	0 to 200 mm	9.5 µm
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Receiving Gauge / Profile Gauge / Profile of Work Piece-Angle	Using Profile Projector by Direct Method	0 to 360 °	5 ''
159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Receiving Gauge/ Profile Gauge / Profile of Work Piece-Radius	Using Profile Projector by Direct Method	2.5 mm to 50 mm	4.2 µm
160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sand Replacement Cylinder / Sand Pouring Cylinder / Core Cutter (Dimension Measurement of part)	Using Digital Caliper by Direct Method	0 to 600 mm	37.4 µm
161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slump Cone (Dimension Measurement - Diameter / Height)	Using Digital Caliper, Depth Caliper by Comparison Method	0 to 300 mm	37.4 µm

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162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Slip Gauge Set by Direct method	3 mm to 300 mm	3.3 µm
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sprit Level L.C.: 0.01mm/m	Using Electronic Level with Tilting Table by Comparison Method	0 to +/- 2 mm/m	7.0 µm/m
164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Foil	Using Digital Plunger Dial Gauge with Comparator Stand (Readability 0.0001mm) by Direct Method	0.009 mm to 5.50 mm	2 µm
165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge Parallelism of Work Face	Using Surface Plate & Lever Dial by direct method	100 mm to 3000 mm	10.4 µm
166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge - Straightness	Using Electronic Level by Direct Method	100 mm to 3000 mm	5.1XSqrt(L) µm, where L is length of straight edge in m
167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Flatness)	Using Electronic Level by Direct Method	Up to 2000x2000 mm	1.6 x (Sqrt L+W/ 125) where L and W is in metre.

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168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Tester (Portable) - Roughness Measurement (Ra)	Using Roughness Specimen Master (3 Nos. Ra Values) By Direct Method	0 to 3 µm	7.6 %
169	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale L.C.: 0.1mm	Using Profile Projector by Direct Method	0.1 mm to 50 mm	22 µm
170	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective Diameter at Gauge Plane , Step length)	Using Universal Length Measuring Machine by Comparison Method	0 to 100 mm	2.8 µm
171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Temping Rod / Pocking Rod (dimension Measurement)	Using Digital Caliper by Direct Method	0 to 600 mm	37.4 µm
172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector by Direct Method	0.020 mm to 5 mm	9 µm
173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Digital Caliper by Direct Method	0.020 mm to 150 mm	18 µm

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174	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge / Wear Check Ring (Effective Diameter)	Using Universal Length Measuring Machine & Master Ring Gauge by Comparison Method	3 mm to 100 mm	1.0 µm
175	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge L.C. 0.1mm	Using Slip Gauge Set by Direct Method	1 mm to 100 mm	58 µm
176	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Flatness)	Using Dial Indicator & Surface Plate By Comparison Method	20 mm to 200 mm	4.0 µm
177	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Parallelism)	Using Dial Indicator & Surface Plate By Comparison Method	20 mm to 200 mm	4.0 µm
178	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Squareness)	Using Granite Square, Granite Master Angle Plate, Gauge Block Set By Comparison Method	20 mm to 200 mm	4.0 µm
179	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Symmetricity)	Using Dial Indicator, Test Mandrel, Surface Plate By Comparison Method	20 mm to 200 mm	4.0 µm

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180	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vicate Test Apparatus Plunger Diameter (Needle)	Using Dig. Micrometer by Direct Method	0.5 mm to 10 mm	3.0 µm
181	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using Profile Projector by Direct Method	0.19 mm to 7.82 mm	7 µm
182	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	LVDT Probe / Linear Probe / Electronic Probe with indicator (L.C. 0.001mm & Coarser)	Using Slip gauge Block & Comparator Stand /Dial Calibration Tester by Direct Method	0 to 100 mm	2.0 µm
183	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester L.C. 0.0001mm	Using Slip Gauge Block Set By Direct Method	0 to 25 mm	1.0 µm
184	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope (L.C.: 0.01 mm)	Using Glass Scale by Direct Method	0 to 10 mm	10µm
185	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope (Magnification)	Using Glass Scale & Digital Caliper By Direct Method	10x to 1000 X	0.2 %
186	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Optical Microscope / Metallurgical Microscope -Linear Scale (L.C.: 0.01µm)	Using Glass Scale by Direct Method	0 to 1 mm	3.5 µm
187	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Linear Scale)LC: 0.001mm	Using Glass Scale & Gauge Block by Direct Method	0 to 200 mm	4.1 µm

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188	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification)	Using Gauge Block/ Glass Scale/Pin Gauge & Digital Caliper by Direct Method	10 X to 100 X	0.3 %
189	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Angular) LC 1 second	Using Angle Gauge by Direct Method	0 to 360 °	25 ''
190	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Step Gauge	Using Digital Micrometer by Direct Method	0 to 25 mm	2.9 µm
191	MECHANICAL-DUROMETER	Durometer / Rubber Hardness Tester (Shore - A, B, E, O)	Using Load Cell with Indicator & Fixture Based on ASTM D 2240	0 to 100 Shore (A, B, E, O)	0.5 Shore A
192	MECHANICAL-DUROMETER	Durometer/Rubber Hardness Tester (Shore- C, D, DO)	Using Load Cell with Indicator & Fixture Based ISO 18898 & ASTM D 2240	0 to 100 Shore (C, D, DO)	0.5 Shore D
193	MECHANICAL-FORCE PROVING INSTRUMENTS	Proving Rings, Dynamometers, Load Cells, Load cell with Indicator, Proof Ring, Force Gauge (Tension/Compression Mode) Class 0.5 or Coarser	Using Dead Weight Force Calibration Machine (Stainless Steel/Aluminium Newtonian Weights with Hanger) as per IS 4169-2014/ ISO 376-2011	0.5 N to 1000 N	0.05 %

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194	MECHANICAL-FORCE PROVING INSTRUMENTS	Proving Rings, Dynamometers, Load Cells, Load cell with Indicator, Proof Ring, Force Gauge (Tension/Compression Mode) Class 0.5 or Coarser	Using Dead Weight Force Calibration Machine Auto loaded & Auto Unloaded (Chrome Plated Mild Steel Newtonian Weights with Hanger) as per IS 4169-2014/ ISO 376-2011	1 kN to 100 kN	0.05 %
195	MECHANICAL-FORCE PROVING INSTRUMENTS	Proving Rings, Dynamometers, Load Cells, Load cell with Indicator, Proof Ring, Force Gauge (Tension/Compression Mode) Class 0.5 or Coarser	Using Dead Weight Force Calibration Machine (Stainless Steel / Aluminium Newtonian Weights with Hanger) Calibrated at NPL for Reference Value as per Euramet cg-4	5 N to 500 N	0.02 %
196	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge (Push & Pull Mode) / Force Gauge	Using Dead Weight Force Standard Machine (Newtonian Calibrated Weights) & Frame Fixtures and Hanger As per ADI/VDE 2624 Blatt 2.1/Part 2.1	1 N to 50 N	0.91 %
197	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge (Push & Pull Mode) / Force Gauge	Using Dead Weight Force Standard Machine (Newtonian Calibrated Weights) & 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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198	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge (Push & Pull Mode) / Force Gauge	Using Dead Weight Force Standard Machine (Newtonian Calibrated Weights) & Frame Fixtures and Hanger As per ADI/VDE 2624 Blatt 2.1/Part 2.1	500 N to 2000 N	0.98 %
199	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Pressure Gauge, Indicator ,Manometer, Magnehelic Gauge, Differential Pressure Transmitter, Pressure Switches	Using Digital Manometer, Universal Calibrator with Pump By Comparison Method as per DKD R-6-1	0 to 50 mbar	0.13 mbar
200	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge(Absolute) Barometers, Manometers	Using Digital Pressure Calibrator , a barometer calibration system By Comparison Method as per DKD R-6-1	150 mbar to 1050 mbar	0.88 mbar
201	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic Dial and Digital Pressure Gauge, Pressure Transmitters/Transducer/ Pressure switch	Using Digital Pressure Gauge, Universal Calibrator with Hydraulic Pump By Direct Method based on DKD-R-6-1	0 to 1000 bar	1.3 bar
202	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic Dial and Digital Pressure Gauge, Pressure Transmitters/Transducer/ Pressure switch	Using Digital Pressure Gauge, Universal Calibrator with Hydraulic Pump By Direct Method based on DKD-R-6-1	0 to 600 bar	0.2 bar

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203	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic Dial and Digital Pressure Gauge, Pressure Transmitters/Transducer/ Pressure switch	Using Digital Pressure Gauge, Universal Calibrator with Hydraulic Pump By Direct Method based on DKD-R-6-1	up to 60 bar	0.04 bar
204	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Dial and Digital Pressure / Vacuum Gauge, Pressure Transmitters / Transducer / Pressure switch	Using Digital Pressure Gauge, Universal Calibrator with Pneumatic Pump By Direct Method based on DKD-R-6-1	(-) 0.9 bar to 0 bar	0.007 bar
205	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Dial and Digital Pressure / Vacuum Gauge, Pressure Transmitters / Transducer / Pressure switch	Using Digital Pressure Gauge, Universal Calibrator with Pneumatic Pump By Direct Method based on DKD-R-6-1	0 to 3 bar	0.006 bar
206	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Dial and Digital Pressure / Vacuum Gauge, Pressure Transmitters / Transducer / Pressure switch	Using Digital Pressure Gauge, Universal Calibrator with Pneumatic Pump By Direct Method based on DKD-R-6-1	Up to 10 bar	0.03 bar
207	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches / Torque Generating Tools Analogue / Digital / Pneumatic / Electrical Screw Drivers / Torque Gauges, Torque Driver (Type I & II) Class A B, C, D, E)	Using Servo Controlled Torque Tool Calibration System and Torque Sensors with Data Acquisition System as per ISO 6789 : 2017 by Comparison Method	5 Nm to 2000 Nm	0.5 %

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208	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches / Torque Generating Tools Analogue / Digital / Pneumatic / Electrical Screw Drivers / Torque Gauges, Torque Driver (Type I & II) Class A, B, C, D, E)	Using Servo Controlled Torque Tool Calibration System and Torque Sensors with Data Acquisition System as per ISO 6789 : 2017 by Comparison Method	0.1 Nm to 5 Nm	0.7 %
209	MECHANICAL-VOLUME	Volumetric Measurement : (Burette, Pipette, Volumetric/Conical/Le- Chatelier Flask, Measuring Cylinder, Measuring Jar, Beaker & Container, Pycnometer, Clevenger, Dispenser, Hydrometer	Using Precision Balance (L.C. 0.00001g), distilled Water of know density By Gravimetric method As per ISO 4787	10 ml to 100 ml	2.47 µl
210	MECHANICAL-VOLUME	Volumetric Measurement : (Burette, Pipette, Volumetric/Conical/Le- Chatelier Flask, Measuring Cylinder, Measuring Jar, Beaker & Container, Pycnometer, Clevenger, Dispenser, Hydrometer	Using Precision Balance (L.C. 0.001g), distilled Water of know density By Gravimetric method As per ISO 4787	100 ml to 200 ml	2.8 µl

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211	MECHANICAL-VOLUME	Volumetric Measurement : (Burette, Pipette, Volumetric/Conical/Le- Chatelier Flask, Measuring Cylinder, Measuring Jar, Beaker & Container, Pycnometer, Clevenger, Dispenser, Hydrometer	Using Precision Balance (L.C. 0.01g), distilled Water of know density By Gravimetric method As per ISO 4787	1000 ml to 2000 ml	75 µl
212	MECHANICAL-VOLUME	Volumetric Measurement : (Burette, Pipette, Volumetric/Conical/Le- Chatelier Flask, Measuring Cylinder, Measuring Jar, Beaker & Container, Pycnometer, Clevenger, Dispenser, Hydrometer	Using Precision Balance (L.C. 0.01 g), distilled Water of know density By Gravimetric method As per ISO 4787	200 ml to 1000 ml	63 µl
213	MECHANICAL-VOLUME	Volumetric Measurement : (Micropipette, Burette, Pipette, Volumetric/Conical/Le- Chatelier Flask, Measuring Cylinder, Measuring Jar, Beaker & Container, Pycnometer, Clevenger, Dispenser, Hydrometer	Using Precision Balance (L.C. 0.00001g), distilled Water of know density By Gravimetric method As per ISO 4787	1 ml to 10 ml	0.72 µl

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214	MECHANICAL-VOLUME	Volumetric Measurement : (Micropipette, Pipette)	Using Precision Balance (L.C. 0.00001g), distilled Water of know density By Gravimetric method As per ISO 8655	100 µl to 1000 µl	0.24 µl
215	MECHANICAL-VOLUME	Volumetric Measurement : (Micropipette, Pipette)	Using Precision Balance (L.C. 0.00001g), distilled Water of know density By Gravimetric method As per ISO 8655	20 µl to 100 µl	0.09 µl
216	MECHANICAL-VOLUME	Volumetric Apparatus / Bulk Density Apparatus	Using Precision Balance (L.C. 1g), distilled Water of know density By Gravimetric method As per ISO 4787	15 L to 30 L	65 ml
217	MECHANICAL-VOLUME	Volumetric Apparatus / Measuring cylinder / Measuring Jar / Beaker / Pycnometer / Flask / Bulk Density Apparatus	Using Precision Balance (L.C. 0.1g), distilled Water of know density By Gravimetric method As per ISO 4787	2 L to 15 L	15 ml
218	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance-Class IV & Coarser (Readability : 100g & Coarser)	Using F1 & M1 Class Weights by direct comparison method as per OIML R -76-1 & IS 16514 (Part 1 & 2)	0 to 5000 kg	290 g

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219	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance-Class IV & Coarser (Readability : 50 g & Coarser)	Using F1 & M1 Class Weights by direct comparison method as per OIML R -76-1 & IS 16514 (Part 1 & 2)	0 to 100 kg	29 g
220	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance-Class IV & Coarser (Readability: 50 g & Coarser)	Using F1 & M1 Class Weights by direct comparison method. as per OIML R -76-1 & IS 16514 (Part 1 & 2)	0 to 1000 kg	289 g
221	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class I and Coarser (Readability : 0.001 mg & Coarser)	Using E1 Class Weights by direct comparison method as per OIML R -76-1	0 to 5 g	0.008 mg
222	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class I and Coarser (Readability : 0.01 mg & Coarser)	Using E1 Class Weights by direct comparison method as per OIML R -76-1	0 to 82 g	0.09 mg
223	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class I and Coarser (Readability : 0.1 mg & Coarser)	Using E1 & E2 Class Weights by direct comparison method as per OIML R -76-1	0 to 500 g	0.1 mg
224	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class II and Coarser (Readability : 1 mg & Coarser)	Using E1 Class Weights by direct comparison method as per OIML R -76-1	0 to 1000 g	0.9 mg
225	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class II and Coarser (Readability : 10 mg & Coarser)	Using E1 & E2 Class Weights by direct comparison method as per OIML R -76-1	0 to 30 kg	0.08 g

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226	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class II and Coarser (Readability : 10 mg & Coarser)	Using Weights of Accuracy E1, E2 Class by direct comparison method based on OIML R-76-1	0 to 5 kg	8 mg
227	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance / Spring balance - Class III and Coarser (Readability : 1 g & Coarser)	Using E1 & E2 Class Weights by direct comparison method as per OIML R -76-1 & IS 16514 (Part 1 & 2)	0 to 100 kg	1.0 g
228	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weights, Precision Balance (Readability : 0.01mg) by Substitution Method & ABBA Cycle as per OIML R -111-1	1 g	0.03 mg
229	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weights, Precision Balance (Readability : 0.001 g) by Substitution Method & ABBA Cycle as per OIML R -111-1	1 kg	1.6 mg
230	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weights, Precision Balance (Readability : 0.01mg) by Substitution Method & ABBA Cycle as per OIML R -111-1	10 g	0.03 mg

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231	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weights, Precision Balance (Readability : 0.1mg) by Substitution Method & ABBA Cycle as per OIML R -111-1	100 g	0.2 mg
232	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weights, Precision Balance (Readability : 0.01mg) by Substitution Method & ABBA Cycle as per OIML R -111-1	100 mg	0.02 mg
233	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 & E2 Class Weights, Precision Balance (Readability : 0.01mg) by Substitution Method & ABBA Cycle as per OIML R -111-1	2 g	0.013 mg
234	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weights, Precision Balance (Readability : 0.01mg) by Substitution Method & ABBA Cycle as per OIML R -111-1	20 g	0.03 mg
235	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weights, Precision Balance (Readability : 0.01mg) by Substitution Method & ABBA Cycle as per OIML R -111-1	20 mg	0.01 mg

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236	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weights, Precision Balance (Readability : 0.1mg) by Substitution Method & ABBA Cycle as per OIML R -111-1	200 g	0.2 mg
237	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 & E2 Class Weights, Precision Balance (Readability : 0.01mg) by Substitution Method & ABBA Cycle as per OIML R -111-1	200 mg	0.02 mg
238	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weights, Precision Balance (Readability : 0.01mg) by Substitution Method & ABBA Cycle as per OIML R -111-1	5 g	0.03 mg
239	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weights, Precision Balance (Readability : 0.01mg) by Substitution Method & ABBA Cycle as per OIML R -111-1	50 mg	0.013 mg
240	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 & E2 Class Weights, Precision Balance (Readability : 0.01mg) by Substitution Method & ABBA Cycle as per OIML R -111-1	500 mg	0.03 mg

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241	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E1 Class Weights, Precision Balance (Readability : 0.01 mg) by Substitution Method & ABBA Cycle as per OIML R -111-1	1 mg	0.015 mg
242	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E1 Class Weights, Precision Balance (Readability : 0.01mg) by Substitution Method & ABBA Cycle as per OIML R -111-1	10 mg	0.02 mg
243	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E2 Class Weights, Precision Balance (Readability : 0.01g) by Substitution Method & ABBA Cycle as per OIML R -111-1	2 kg	10 mg
244	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E1 Class Weights, Precision Balance (Readability : 0.01mg) by Substitution Method & ABBA Cycle as per OIML R -111-1	2 mg	0.02 mg
245	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E1 Class Weights, Precision Balance (Readability : 0.01mg) by Substitution Method & ABBA Cycle as per OIML R -111-1	5 mg	0.02 mg

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246	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E1 Class Weights, Precision Balance (Readability : 0.01mg) by Substitution Method & ABBA Cycle as per OIML R -111-1	50 g	0.03 mg
247	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E1 Class Weights, Precision Balance (Readability : 0.001 g) by Substitution Method & ABBA Cycle as per OIML R -111-1	500 g	1 mg
248	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using E2 Class Weights, Precision Balance (Readability : 0.1g) by Substitution Method & ABBA Cycle as per OIML R -111-1	10 kg	100 mg
249	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using E2 Class Weights, Precision Balance (Readability : 0.1g) by Substitution Method & ABBA Cycle as per OIML R -111-1	20 kg	100 mg
250	MECHANICAL-WEIGHTS	Accuracy class M2 & coarser	Using E2 Class Weights, Precision Balance (Readability : 0.1 g) by Substitution Method & ABBA Cycle as per OIML R -111-1	5 kg	110 mg

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251	MECHANICAL-WEIGHTS	Accuracy class M3 & coarser	Using E2 Class Weights, Precision Balance (Readability : 1g) by Substitution Method & ABBA Cycle as per OIML R -111-1	50 kg	1000 mg
252	MECHANICAL-WEIGHTS	Weight (non-standard dead weight)	Using Standard Weights of Accuracy Class F1 Precision Balance by substitution Method ABBA weight Cycle Readability 0.1g	13.2 kg to 14 kg	0.2 g
253	OPTICAL-EQUIPMENTS	Digital Lux Meter /Light Meter / Illuminance Meter	Digital Illuminance Meter & Source	10 lx to 10000 lx	2.95 % of rdg
254	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital & Analog Thermo Hygrometer / RH Sensor / RH Transmitters with / without Controller / Indicator / Recorder / Data Logger	Using Standard Thermo Hygrometer with Sensor & Universal Calibrator with Temp & Humidity Generator & Comparison Method	20 %RH to 95 %RH @ 25°C	1.2 %RH
255	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital & Analog Thermo Hygrometer /Temperature Sensor / Temperature Transmitters with & Without Controller / Indicator / Recorder / Data Logger	Using Standard digital thermo hygrometer with Sensor, SPRT, RTD with Indicator and Temp & Humidity Generator by Comparison Method,	5 °C to 50 °C	0.3 °C

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256	THERMAL-TEMPERATURE	IR Thermometer / IR Gun / Pyrometer / optical Thermometer / Thermal Imagers (Temperature Only) / Laser Pointed Pyrometer/ Radiation Pyrometer at Emissivity 0.95	Using Infrared Thermometer & Black Body Source & Comparison Method,	10 °C to 45 °C	2.87 °C
257	THERMAL-TEMPERATURE	IR Thermometer / IR Gun / Pyrometer / optical Thermometer / Thermal Imagers (Temperature Only) / Laser Pointed Pyrometer/ Radiation Pyrometer at Emissivity 0.95	Using Infrared Thermometer & Black Body Source & Comparison Method,	45 °C to 500 °C	3.33 °C
258	THERMAL-TEMPERATURE	IR Thermometer / IR Gun / Pyrometer / optical Thermometer / Thermal Imagers (Temperature Only) / Laser Pointed Pyrometer/ Radiation Pyrometer at Emissivity 0.99	Using Infrared Thermometer & Black Body Source & Comparison Method	500 °C to 1300 °C	5.47 °C
259	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SPRT Sensor with Super DAQ Scanner and Liquid bath source by Comparison Method	(-) 30 °C to 50 °C	0.21 °C
260	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SPRT Sensor with Super DAQ Scanner & oil bath Source by Comparison Method	50 °C to 250 °C	0.19 °C

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261	THERMAL-TEMPERATURE	RTD's, Thermocouples with & without controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder	Using SPRT Sensor with Super DAQ Scanner, Liquid Bath, Universal Calibrator & Comparison Method	(-) 30 °C to 50 °C	0.19 °C
262	THERMAL-TEMPERATURE	RTD's, Thermocouples with & without controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder	Using SPRT Sensor with Super DAQ Scanner , Universal calibrator & Dry Block Furnace by Comparison Method	>250 °C to 650 °C	0.2 °C
263	THERMAL-TEMPERATURE	RTD's, Thermocouples with & without controller/indicator/ Temperature Gauge,DigitalThermometer,Temperature Transmitter, Data logger /Recorder	Using SPRT Sensor with Super DAQ Scanner, Universal Calibrator and Dry Block Furnace by Comparison Method	50 °C to 250 °C	0.21 °C

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264	THERMAL-TEMPERATURE	Temperature Indicator/DTC/PID with Sensor of Liquid bath, Furnace, Oven, Freezer, Dry block Bath, Cold Room, Environmental Chamber / Curing Tank -Single Position Calibration	Using SPRT Super DAQ Scanner by Comparison Method	(-) 40 °C to 250 °C	0.34 °C
265	THERMAL-TEMPERATURE	Thermocouples with & without controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder	Using S Type Thermocouple with Indicator, Universal Calibrator & Dry Block Furnace By Comparison Method	>650 °C to 900 °C	1.9 °C
266	THERMAL-TEMPERATURE	Thermocouples with & without controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder	Using S Type Thermocouple with Indicator, Universal Calibrator & 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)	1 Phase AC Active Energy @ 50 Hz (100 V to 320 V, 1 A to 120 A, UPF)	Using Energy Logger By Direct Method	100 Wh to 11 kWh	0.65 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase AC Active Power @ 50 Hz (100 V to 320 V, 1 A to 120 A, Unity to ± 0.1)	Using Energy Logger By Direct Method	40 W to 18 kW	0.65 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase AC Active Energy @ 50 Hz (100 V to 320 V, 1 A to 120 A, UPF)	Using Energy Logger By Direct Method	40 Wh to 11 kWh	0.65 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase AC Active Power @ 50 Hz (100 V to 320 V, 1 A to 120 A, Unity to ± 0.1)	Using Energy Logger By Direct Method	40 W to 18 kW	0.65 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz	Using 6 ½ Digit Multimeter By Direct Method	10 µA to 100 mA	0.36 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz	Using 6 ½ Digit Multimeter with CT By Direct Method	100 A to 2000 A	1.8 %

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz	Using 6 ½ Digit Multimeter By Direct Method	100 mA to 10 A	0.36 % to 1.0 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with DMM By Direct Method	1 kV to 28 kV	1.9 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Divider with DMM By Direct Method	100 kV to 200 kV	3.91 % to 3.8 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Divider with DMM By Direct Method	28 kV to 100 kV	1.9 % to 3.91 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz	Using 6 ½ Digit Multimeter By Direct Method	10 mV to 100 mV	1 % to 0.1 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz	Using 6 ½ Digit Multimeter By Direct Method	100 mV to 1000 V	0.1 %

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13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @1 kHz	Using LCR Meter By Direct Method	1 nF to 100 nF	1.35 % to 1.33 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @1 kHz	Using LCR Meter By Direct Method	100 nF to 1000 µF	1.33 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @1 kHz	Using LCR Meter By Direct Method	1 mH to 10 H	1.2 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1 Phase AC Active Energy @ 50 Hz (63 V to 300 V, 80 mA to 20 A, UPF)	Using Three Phase Calibration Source By Direct Method	12 Wh to 6000 Wh	0.19 % to 1.2 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1 Phase AC Active Power @ 50 Hz (63 V to 300 V, 80 mA to 20 A, (UPF to ± 0.5)	Using Three Phase Calibration Source By Direct Method	5 W to 18000 W	0.19 % to 1.2 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1 Phase AC Active Power @50 Hz (15 V to 600 V, 30.5 mA to 20 A, 0.087 PF to UPF)	Using MPC By Direct Method	2.4 W to 12000 W	0.19 % to 1.2 %

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19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3 Phase AC Active Energy @50 Hz (63 V to 300 V, 80 mA to 20 A, UPF)	Using Three Phase Calibration Source By Direct Method	12 Wh to 6000 Wh	0.19 % to 1.2 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3 Phase AC Active Power @50 Hz (63 V to 300 V, 80 mA to 20 A, (UPF to ±0.5)	Using Three Phase Calibration Source By Direct Method	5 W to 18000 W	0.19 % to 1.2 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using Multiproduct Calibrator By Direct Method	1 mA to 20 A	0.17 % to 0.1 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using Multiproduct Calibrator with Current Coil By Direct Method	20 A to 1000 A	2.1 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using Multiproduct Calibrator By Direct Method	33 µA to 1 mA	0.57 % to 0.15 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz	Using Multiproduct Calibrator By Direct Method	10 mV to 100 mV	0.35 % to 0.06 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz	Using Multiproduct Calibrator By Direct Method	100 mV to 1000 V	0.06 %

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26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz	Using Multiproduct Calibrator By Direct Method	3 mV to 10 mV	0.9 % to 0.35 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1 kHz	Using Decade Capacitance Box By Direct Method	100 µF to 1000 µF	0.7% to 0.6%
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1 kHz	Using Decade Capacitance Box By Direct Method	100 pF to 100 µF	1.4 % to 0.7 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @1 kHz	Using Decade Inductance Box By Direct Method	10 µH to 10 H	1.21 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 230 V, 10 A, 50 Hz	Using Three Phase Calibration Source By Direct Method	0.5PF to 1PF	0.015PF
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 230 V,10 A, 50 Hz	Using Three Phase Calibration Source By Direct Method	-0.5PF to 1PF	0.015 PF
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 240 V , 5 A , 50 Hz	Using Multi Product Calibrator By Direct Method	-0.087 PF to 1 PF	0.003 PF

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33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 240 V, 5 A, 50 Hz	Using Multi Product Calibrator By Direct Method	0.087PF to 1PF	0.003 PF
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Turn Ratio	Using Ratio Calibration Standard, 6½ DMM & 5½ DMM By V/V Method	11 Turn to 220 Turn	0.58 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Turn Ratio	Using Ratio Calibration Standard, 6½ DMM & 5½ DMM By V/V Method	220 Turn to 2200 Turn	0.58 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digit Multimeter By Direct Method	100 mA to 10 A	0.27 % to 0.8 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digit Multimeter By Direct Method	20 µA to 100 mA	0.27 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current (Current Source/Welding Machine etc)	Using 6 ½ Digit Multimeter With Std Shunt by Direct Method	10 A to 750 A	1.2 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Resistance (2 wire) @ 500 V , 1000 V & 2500 V	Using Insulation Tester , Standard Resistance Box By comparison method	1 Gohm to 100 Gohm	3.5 %

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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Resistance (2 wire) @ 5000 V	Using Insulation Tester, Standard Resistance Box By comparison Method	100 Gohm to 1000 Gohm	6.86 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with Digit Multimeter By Direct Method	1 kV to 28 kV	2.8 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6 ½ Digit Multimeter By Direct Method	1 Ohm to 10 Ohm	0.4 % to 0.05 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6 ½ Digit Multimeter By Direct Method	10 Ohm to 100 Ohm	0.05 % to 0.01 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6 ½ Digit Multimeter By Direct Method	100 Mohm to 1 Gohm	0.5 % to 2.33 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6 ½ Digit Multimeter By Direct Method	100 Ohm to 100 Mohm	0.01 % to 0.5 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digit Multimeter By Direct Method	1 mV to 10 mV	0.5 % to 0.05 %

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47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digit Multimeter By Direct Method	10 mV to 100 mV	0.05 % to 0.01 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digit Multimeter By Direct Method	100 mV to 1000 V	0.01 % to 0.15 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi product Calibrator By Direct Method	1 A to 20 A	0.04 % to 0.13 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator By Direct Method	190 µA to 1 A	0.07 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator By Direct Method	20 µA to 190 µA	0.3 % to 0.07 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator With Current Coil By Direct Method	20 A to 1000 A	1.64 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power 10 V to200 V, 1 A to 5 A	Using Multiproduct Calibrator By Direct Method	10 W to 1 kW	0.3 %

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54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multiproduct Calibrator By Direct Method	1 Mohm to 10 Mohm	0.02 % to 0.15 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multiproduct Calibrator By Direct Method	1 Ohm to 10 Ohm	1 % to 0.13 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multiproduct Calibrator By Direct Method	10 Mohm to 1000 Mohm	0.15 % to 1.93 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multiproduct Calibrator By Direct Method	10 Ohm to 100 Ohm	0.13 % to 0.05 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multiproduct Calibrator By Direct Method	100 Ohm to 1 Mohm	0.05 % to 0.02 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire) @ 2500 V	Using Standard megohm Box By Direct Method	2 Mohm to 100 Gohm	6.30 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire) @ 500 V & @1000 V	Using Standard megohm Box By Direct Method	1 Mohm to 50 Gohm	3.6 %

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61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire) @5000 V	Using Standard megohm Box By Direct Method	100 Gohm to 1000 Gohm	6 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistance Box By Direct Method	0.1 mohm	0.16 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor By Direct Method	1 mohm	0.11 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor By Direct Method	1 Ohm	0.11 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor By Direct Method	10 mohm	0.11 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor By Direct Method	100 mohm	0.11 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator By Direct Method	1 mV to 10 mV	0.6 % to 0.04 %

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68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator By Direct Method	10 mV to 330 mV	0.04 % to 0.014 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator By Direct Method	330 mV to 1000 V	0.014 % to 0.01 %
70	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Magnetic Rods / Magnetic Grill / Magnetic Plate / Magnetic bar / Magnetic Grid / Magnets	Using Gaussmeter by Direct Method	100 G to 10000 G	5 %
71	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Conductivity Meter	Using Multi Product Calibrator By Simulation Method	1 µs/cm to 1000 ms/cm (1 Mohm to 1 Ohm)	0.8 %
72	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Gaussmeter (Magnetic Flux Density)	Using Gaussmeter, Standard Reference Magnets by Direct Method	100 G to 10000 G	5 %
73	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH Meter	Using Multi Product Calibrator By Simulation Method	0 to 14 pH ((-) 416.90 mV DC to 416.90 mV DC)	0.5 %
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B- Type thermocouple	Using MPC By Direct Method	600 °C to 1800 °C	0.8 °C

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75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E- Type thermocouple	Using MPC By Direct Method	(-) 200 °C to 1000 °C	0.58 °C
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J- Type thermocouple	Using MPC By Direct Method	(-) 200 °C to 750 °C	0.31 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K- Type thermocouple	Using Universal MPC By Direct Method	(-) 200 °C to 1300 °C	0.53 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N- Type thermocouple	Using MPC By Direct Method	(-) 200 °C to 1300 °C	0.71 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R- Type thermocouple	Using MPC By Direct Method	200 °C to 1750 °C	0.69 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT-100)	Using Universal Calibrator /MPC By Direct Method	(-) 160 °C to 800 °C	0.07 °C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S- Type thermocouple	Using MPC By Direct Method	200 °C to 1750 °C	0.75 °C

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82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T- Type Thermocouple	Using MPC By Direct Method	30 °C to 400 °C	0.4 °C
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B- Type thermocouple	Using MPC By Direct Method	450 °C to 1800 °C	0.8 °C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E- Type thermocouple	Using MPC By Direct Method	(-) 200 °C to 1000 °C	0.58 °C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J- Type thermocouple	Using MPC By Direct Method	(-) 200 °C to 750 °C	0.32 °C
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K- Type thermocouple	Using Universal MPC By Direct Method	(-) 200 °C to 1350 °C	0.47 °C
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N- Type thermocouple	Using MPC By Direct Method	(-) 200 °C to 1300 °C	0.71 °C
88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R- Type thermocouple	Using MPC By Direct Method	200 °C to 1750 °C	0.62 °C

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89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100)	Using MPC By Direct Method	(-) 160 °C to 800 °C	0.05 °C
90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S- Type thermocouple	Using MPC By Direct Method	200 °C to 1750 °C	0.69 °C
91	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T- Type thermocouple	Using MPC By Direct Method	30 °C to 400 °C	0.4 °C
92	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digit Multimeter By Direct Method	1 kHz to 1000 kHz	0.29 %
93	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digit Multimeter By Direct Method	45 Hz to 1000 Hz	0.15 % to 0.29 %
94	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time (Mechanical / Digital)	Using Digital Time Calibrator By Direct Method	1 s to 600 s	0.5 s
95	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time (Mechanical / Digital)	Using Digital Time Calibrator By Direct Method	600 s to 24 Hrs.	0.5 s to 7.11 s

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96	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator By Direct Method	1 kHz to 1000 kHz	0.08 % to 0.27 %
97	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator By Direct Method	1 MHz to 2 MHz	0.27 % to 0.3 %
98	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator By Direct Method	10 Hz to 45 Hz	0.12 %
99	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator By Direct Method	45 Hz to 1000 Hz	0.08 %
100	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate - (liquid flow meter/Water Flow Meter & flow measuring equipments) (Medium - Water)	Using Ultrasonic Flow Meter by Comparison Method	1.5 m^3/hr to 700 m^3/hr	1.7 %
101	MECHANICAL-ACCELERATION AND SPEED	RPM Measurement of Equipment Vibrating Machine/Bitumen Extractor/Starrier/Mixture /Centrifuge Machine (Non-Contact Type)	Using Digital Tachometer by Comparison Method	10 rpm to 25000 rpm	1.6 %

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102	MECHANICAL-ACCELERATION AND SPEED	Speed Measurement of Material Testing Machines (UTM, CTM, TTM, CBR etc)	Using Digital Height Gauge with Lever Dial& Stop Watch Based on ASTM E 2309 comparison Method	0 to 600 mm/minute	0.7 %
103	MECHANICAL-ACCELERATION AND SPEED	Stroboscope(Non Contact type)	Using Digital Tachometer by Comparison Method	10 rpm to 100 rpm	2.5 %
104	MECHANICAL-ACCELERATION AND SPEED	Stroboscope(Non Contact Type)	Using Digital Tachometer by Comparison Method	15000 rpm to 90000 rpm	0.05 %
105	MECHANICAL-ACCELERATION AND SPEED	Stroboscope(Non Contact Type)	Using Digital Tachometer by Comparison Method	100 rpm to 15000 rpm	0.36 %
106	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer & rpm Source by Comparison Method	10 rpm to 100 rpm	2.59 %
107	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer & rpm Source by Comparison Method	15000 rpm to 90000 rpm	0.05 %
108	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer & rpm Source by Comparison Method	10 rpm to 100 rpm	3.0 %
109	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer & rpm Source by Comparison Method	100 rpm to 1000 rpm	0.93 %
110	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer & rpm Source by Comparison Method	1000 rpm to 15000 rpm	0.29 %

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111	MECHANICAL-ACCELERATION AND SPEED	Tachometer(Non Contact Type)	Using Digital Tachometer Comparison Method	100 rpm to 15000 rpm	1.6 %
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Aggregate Impact Value / Aggregate Crushing Value (Dimension measurement of Part)	Using Digital Caliper by Direct method	5 mm to 400 mm	80 µm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Displacement of Universal Testing Machines, Tensile Testing Machine, Compression Testing Machine, CBR Testing Machine, L.C. : 0.001mm and coarse (Encoder, Actuator)	Using Standard Digital Height Gauge by comparison Method	0 to 600 mm	21 µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer class 0.5, 1 and 2	Using Height gauge with plunger Dial Gauge and Fixture as per IS-12872, ISO-9513 and ASTM-E83 By Comparison Method	0 to 10 mm	2.2 µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Index Apparatus	Using Digital Caliper by Direct Method	4.89 mm to 33.90 mm	30 µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge Parallelism of Work Face	Using Surface Plate & Lever Dial by direct method	100 mm to 3000 mm	10.4 µm

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117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge - Straightness	Using Electronic Level by Direct Method	100 mm to 3000 mm	5.1XSqrt(L) µm, where L is length of straight edge in m
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Flatness)	Using Electronic Level by Direct Method	Up to 2000x2000 mm	1.6 x (Sqrt L+W/ 125) where L and W is in metre.
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Tester (Portable) - Roughness Measurement (Ra)	Using Roughness Specimen Master (3 Nos. Ra Values) By Direct Method	0 to 3 µm	7.6 %
120	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope (Magnification)	Using Glass Scale & Digital Caliper By Direct Method	10x to 1000 X	0.2 %
121	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Optical Microscope / Metallurgical Microscope -Linear Scale (L.C.: 0.01µm)	Using Glass Scale by Direct Method	0 to 1 mm	3.5 µm
122	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Linear Scale)LC: 0.001mm	Using Glass Scale & Gauge Block by Direct Method	0 to 200 mm	4.1 µm
123	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification)	Using Gauge Block/ Glass Scale/Pin Gauge & Digital Caliper by Direct Method	10 X to 100 X	0.3 %

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124	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Angular) LC 1 second	Using Angle Gauge by Direct Method	0 to 360 °	25 ''
125	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Blocks Based on IS 1500-2-2021	10/3000 HBW	1.5 %
126	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Blocks Based on IS 1500-2-2021	5/750 HBW	1.5 %
127	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Hardness Blocks Based on IS 1501-2:-2020	HV0.1	4.5 %
128	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Hardness Blocks Based on IS 1501-2:-2020	HV0.5	3.7 %
129	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Hardness Blocks Based on IS 1501-2:-2020	HV1	3 %
130	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester/Portable Hardness Tester	Using Standard Hardness Blocks Based on IS 1586-2	HRBW	0.96 HRBW
131	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester/Portable Hardness Tester	Using Standard Hardness Blocks Based on IS 1586-2-2018	HRC	0.96 HRC
132	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Blocks Based on IS 1586-2-2018	HRA	0.8 HRA

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133	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine Superficial	Using Standard Hardness Blocks Based on IS 1586-2-2018	HR15N	0.95HR 15N
134	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Blocks Based on IS 1501-2:-2020	HV30	2.5 %
135	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Blocks Based on IS 1501-2:-2020	HV10	2.5 %
136	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Blocks Based on IS 1501-2:-2020	HV5	2.5 %
137	MECHANICAL-IMPACT TESTING MACHINE	Verification of Impact Testing Machine (Charpy)	Using Load Cell, Clinometer, Height Gauge & Sprit Level as per ISO 148 (part-2) : 2016 - Direct Method, IS 3766, ASTM E-23, BS 131 Part-4, ASTM D 256	0 to 300 J	0.4 %
138	MECHANICAL-IMPACT TESTING MACHINE	Verification of Impact Testing Machine (Izod)	Using Load Cell, Clinometer, Height Gauge & Sprit Level as per ISO 148 (part-2) : 2016 - Indirect Method, IS 3766, ASTM E-23, BS 131 Part-4, ASTM D 256	0 to 170 J	0.4 %

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139	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Pressure Gauge, Indicator ,Manometer, Magnehelic Gauge, Differential Pressure Transmitter, Pressure Switches	Using Digital Manometer, Universal Calibrator with Pump By Comparison Method as per DKD R-6-1	0 to 50 mbar	0.13 mbar
140	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic Dial and Digital Pressure Gauge, Pressure Transmitters/Transducer/ Pressure switch	Using Digital Pressure Gauge, Universal Calibrator with Hydraulic Pump By Direct Method based on DKD-R-6-1	0 to 1000 bar	1.3 bar
141	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic Dial and Digital Pressure Gauge, Pressure Transmitters/Transducer/ Pressure switch	Using Digital Pressure Gauge, Universal Calibrator with Hydraulic Pump By Direct Method based on DKD-R-6-1	0 to 600 bar	0.2 bar
142	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic Dial and Digital Pressure Gauge, Pressure Transmitters/Transducer/ Pressure switch	Using Digital Pressure Gauge, Universal Calibrator with Hydraulic Pump By Direct Method based on DKD-R-6-1	up to 60 bar	0.04 bar
143	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Dial and Digital Pressure / Vacuum Gauge, Pressure Transmitters / Transducer / Pressure switch	Using Digital Pressure Gauge, Universal Calibrator with Pneumatic Pump By Direct Method based on DKD-R-6-1	(-) 0.9 bar to 0 bar	0.007 bar

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144	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Dial and Digital Pressure / Vacuum Gauge, Pressure Transmitters / Transducer / Pressure switch	Using Digital Pressure Gauge, Universal Calibrator with Pneumatic Pump By Direct Method based on DKD-R-6-1	0 to 3 bar	0.006 bar
145	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Dial and Digital Pressure / Vacuum Gauge, Pressure Transmitters / Transducer / Pressure switch	Using Digital Pressure Gauge, Universal Calibrator with Pneumatic Pump By Direct Method based on DKD-R-6-1	Up to 10 bar	0.03 bar
146	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing Machines - (Compression) Universal/Compression/Horizontal/Flexural/CBR Testing Machine, etc.	Using Proving Ring/Load Cell with Display (Class I accuracy) Based on 1828.	0.1 kN to 2000 kN	0.5 %
147	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing Machines - (Tension) Universal/Tensile/Horizontal Testing Machine, etc.	Using Proving Ring/Load Cell with Display (Class I accuracy) Based on 1828.	10 N to 200 kN	0.5 %
148	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale - Class IV & Coarser (Readability : 0.001 kg & Coarser)	Using E1, E2 & F1 Class Weights by direct comparison method as per OIML R -76-1	0 to 10 kg	1.2 g
149	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class IV & Coarser (Readability : 0.1 kg & Coarser)	Using F1 & M1 Class Weights by direct comparison method as per OIML R -76-1	0 to 1800 kg	250 g

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150	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class I and Coarser (Readability : 0.001 mg & Coarser)	Using E1 Class Weights by direct comparison method as per OIML R -76-1	0 to 5 g	0.008 mg
151	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class I and Coarser (Readability : 0.01 mg & Coarser)	Using E1 Class Weights by direct comparison method as per OIML R -76-1	0 to 82 g	0.09 mg
152	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class I and Coarser (Readability : 0.1 mg & Coarser)	Using E1 & E2 Class Weights by direct comparison method as per OIML R -76-1	0 to 500 g	0.1 mg
153	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class II and Coarser (Readability : 1 mg & Coarser)	Using E1 Class Weights by direct comparison method as per OIML R -76-1	0 to 1000 g	0.9 mg
154	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class II and Coarser (Readability : 10 mg & Coarser)	Using E1 & E2 Class Weights by direct comparison method as per OIML R -76-1	0 to 30 kg	0.08 g
155	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class II and Coarser (Readability : 10 mg & Coarser)	Using Weights of Accuracy E1, E2 Class by direct comparison method based on OIML R-76-1	0 to 5 kg	8 mg
156	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class IV and Coarser (Readability : 0.5 kg & Coarser)	Using F1 & M1 Class Weights by direct comparison method as per OIML R -76-1	0 to 5000 kg	430 g

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157	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class IV and Coarser (Readability : 5 g & Coarser)	Using F1 & M1 Class Weights by direct comparison method as per OIML R -76-1	0 to 350 kg	9.0 g
158	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class IV and Coarser (Readability : 50 g & Coarser)	Using F1 & M1 Class Weights by direct comparison method as per OIML R -76-1	0 to 1800 kg	110 g
159	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance / Spring balance - Class III and Coarser (Readability : 1 g & Coarser)	Using E1 & E2 Class Weights by direct comparison method as per OIML R -76-1 & IS 16514 (Part 1 & 2)	0 to 100 kg	1.0 g
160	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity indicator/controller with Sensor of Humidity Chamber Humidity Calibrator/Humidity Generator /Conditioning chamber/Environmental chamber	Using Standard Thermo Hygrometer Sensor With Indicator (Single Position Calibration) by Comparison Method	20 %RH to 95 %RH@25°C	1.6 %RH
161	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature indicator/controller with Sensor Of Humidity Calibrator / Generator / Conditioning / Chambers - Single Position Calibration	Using Standard Thermo hygrometer with Sensor by Comparison Method	5 °C to 50 °C	0.26 °C

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162	THERMAL-TEMPERATURE	Deep Freezers, Freezers, Cold Chamber	Using RTD Sensor (minimum 9 Sensors) with Super DAQ Scanner By Comparison Method	(-) 30 °C to 25 °C	1.7 °C
163	THERMAL-TEMPERATURE	Furnaces	Using N-Type Thermocouple (minimum 9 Thermocouples) with Super DAQ Scanner By Comparison Method	250 °C to 900 °C	4.0 °C
164	THERMAL-TEMPERATURE	IR Thermometer / IR Gun / Pyrometer / optical Thermometer / Thermal Imagers (Temperature Only) / Laser Pointed Pyrometer/ Radiation Pyrometer at Emissivity 0.95	Using Infrared Thermometer & Black Body Source & Comparison Method,	10 °C to 45 °C	2.87 °C
165	THERMAL-TEMPERATURE	IR Thermometer / IR Gun / Pyrometer / optical Thermometer / Thermal Imagers (Temperature Only) / Laser Pointed Pyrometer/ Radiation Pyrometer at Emissivity 0.95	Using Infrared Thermometer & Black Body Source & Comparison Method,	45 °C to 500 °C	3.33 °C

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166	THERMAL-TEMPERATURE	IR Thermometer / IR Gun / Pyrometer / optical Thermometer / Thermal Imagers (Temperature Only) / Laser Pointed Pyrometer/ Radiation Pyrometer at Emissivity 0.99	Using Infrared Thermometer & Black Body Source & Comparison Method	500 °C to 1300 °C	5.47 °C
167	THERMAL-TEMPERATURE	Oven, Furnace, Chambers	Using RTD Sensor (minimum 9 Sensors) with Super DAQ Scanner By Comparison Method	25 °C to 250 °C	1.7 °C
168	THERMAL-TEMPERATURE	RTD’s, Thermocouples with & without controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter	Using S Type Thermocouple with Indicator & Dry Block Furnace, Universal Calibrator By Comparison Method	>250 °C to 650 °C	2.21 °C
169	THERMAL-TEMPERATURE	RTD’s, Thermocouples with & without controller/indicator/ Temperature Gauge,DigitalThermometer,Temperature Transmitter, Data logger /Recorder	Using SPRT Sensor with Super DAQ Scanner, Universal Calibrator and Dry Block Furnace by Comparison Method	50 °C to 250 °C	0.21 °C

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170	THERMAL-TEMPERATURE	Temperature Indicator / DTC / PID with Sensor of BOD Incubator / Incubator (Non Medical Purpose), Refrigerator - Single Position Calibration	Using RTD Sensor with Indicator by Comparison Method	0 °C to 60 °C	0.33 °C
171	THERMAL-TEMPERATURE	Temperature Indicator / DTC / PID with Sensor of Deep Freezer, Cold Chamber, Plasma Freezer - Single Position Calibration	Using RTD Sensor With Indicator by Comparison Method	(-) 80 °C to 30 °C	0.34 °C
172	THERMAL-TEMPERATURE	Temperature Indicator/DTC/PID with Sensor of Liquid bath, Furnace, Oven, Freezer, Dry block Bath, Cold Room, Environmental Chamber / Curing Tank -Single Position Calibration	Using SPRT Super DAQ Scanner by Comparison Method	(-) 40 °C to 250 °C	0.34 °C
173	THERMAL-TEMPERATURE	Temperature Indicator/DTC/PID with Sensor of Liquid bath, Furnace, Ovens, Baths, Freezer, Dry block Bath, Cold Room, Environmental Chamber - Single Position Calibration	Using RTD Sensor with Indicator by Comparison Method	25 °C to 250 °C	0.33 °C

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174	THERMAL-TEMPERATURE	Temperature Indicator/DTC/PID with Sensor of Muffle Furnace ,Carbon Black Content Furnace - Single Position Calibration	Using S-Type Thermocouple with indicator by Comparison Method	650 °C to 1500 °C	2.6 °C
175	THERMAL-TEMPERATURE	Temperature Indicator/DTC/PID with Sensor of Muffle Furnace, Carbon Black Content Furnace - Single Position Calibration	Using S-Type Thermocouple with indicator by Comparison Method	50 °C to 650 °C	1.75 °C
176	THERMAL-TEMPERATURE	Thermocouples with & without controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder	Using S Type Thermocouple with Indicator, Universal Calibrator & Dry Block Furnace By Comparison Method	>650 °C to 900 °C	1.9 °C
177	THERMAL-TEMPERATURE	Thermocouples with & without controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder	Using S Type Thermocouple with Indicator, Universal Calibrator & Dry Block Furnace By Comparison Method	>900 °C to 1200 °C	2.2 °C

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