



# 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, RAJASTHAN, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-2597

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**Validity**

07/08/2024 to 04/03/2025

**Last Amended on**

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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 6 ½ Digit Multimeter By Direct Method	10 µA to 100 mA	0.25 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using 6 ½ Digit Multimeter By Direct Method	100 mA to 10 A	0.25 % to 1.0 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	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 @50Hz	Using 6 ½ Digit Multimeter 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 By Direct Method	1 nF to 100 nF	1.35 % to 1.33 %
6	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1kHz	Using LCR Meter By Direct Method	100 nF to 1000 µF	1.33 %
7	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Inductance @ 1kHz	Using LCR Meter By Direct Method	1 mH to 10 H	1.2 %
8	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using Multiproduct Calibrator By Direct Method	1 mA to 20 A	0.15 % to 0.1 %
9	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using Multiproduct Calibrator with Current Coil By Direct Method	20 A to 1000 A	1.9 %



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10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using Multiproduct Calibrator By Direct Method	33 $\mu$ A to 1 mA	0.57 % to 0.15 %
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Energy 1 $\emptyset$ & 3 Phase @50Hz 63V to300 V 80mA to 20A (UPF)	Using 3 $\emptyset$ Calibration Source By Direct Method	12 Wh to 6000 Wh	0.19 % to 1.2 %
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power 1 Phase & 3 Phase @50Hz 63V to300 V 80mA to 20A (Unity to $\pm$ 0.5)	Using 3 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 Power 1 Phase @50Hz 15V to600 V 30.5mA to20A 0.087PF to UPF	Using 1 Phase Power MPC source By Direct Method	2.4 W to 12000 W	0.19 W to 1.2 W
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz	Using Multiproduct Calibrator By Direct Method	10 mV to 100 mV	0.35 % to 0.06 %
15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz	Using Multiproduct Calibrator By Direct Method	100 mV to 1000 V	0.06 %



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16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz	Using Multiproduct Calibrator By Direct Method	3 mV to 10 mV	0.9 % to 0.35 %
17	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	Using Multiproduct Calibrator /Decade Capacitance Box By Direct Method	100 µF to 1000 µF	0.7% to 0.6%
18	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	Using Decade Capacitance Box By Direct Method	100 pF to 100 µF	1.4 % to 0.7 %
19	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @ 1kHz	Decade Inductance Box By Direct Method	1 mH to 10 H	1.21 %
20	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor 240 V , 5 A , 50 Hz	Using 1ø Power MPC By Direct Method	-0.087 PF to 1 PF	0.003 PF
21	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @ 230V,10A, 50 Hz	Using 3ø Power Energy Calibration Source By Direct Method	0.5PF to 1PF	0.015PF



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22	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @ 230V,10A, 50 Hz	Using 3ø Power Energy Calibration Source By Direct Method	-0.5PF to 1PF	0.015 PF
23	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @ 240V,5A, 50 Hz	Using 1ø Power MPC By Direct Method	0.087PF to 1PF	0.003 PF
24	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Turn Ratio Meter	Using Ratio Calibration Standard, 6.5 DMM, 5.5 DMM By V/V Method	11 Turn to 220 Turn	0.58 %
25	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Turn Ration Meter	Using Ratio Calibration Standard, 6.5 DMM, 5.5 DMM By V/V Method	220 Turn to 2000 Turn	0.58 %
26	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 %
27	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digit Multimeter By Direct Method	20 µA to 100 mA	0.27 %



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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Resistance @5 kV	Using Insulation tester, Std. Resistance Box By comparison Method	100 Gohm to 1000 Gohm	3.5%
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Resistance 500 V & 1000 V	Using Insulation Tester ,Std. Resistance Box By comparison method	1 Gohm to 100 Gohm	3.5 %
30	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 %
31	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 %
32	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 %
33	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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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6 ½ Digit Multimeter & Multi Product Calibrator VI Method	1 mohm to 1 ohm	0.06 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6 ½ Digit Multimeter & Multi Product Calibrator VI Method	0.1 mohm	0.13 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 6 ½ Digit Multimeter & Multi Product Calibrator by VI Method	10 µohm to 100 µohm	0.56 %
37	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 %
38	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 %
39	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 %



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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi product Calibrator By Direct Method	1 A to 20 A	0.04 % to 0.13 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator By Direct Method	190 $\mu$ A to 1 A	0.07 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator By Direct Method	20 $\mu$ A to 190 $\mu$ A	0.3 % to 0.07 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator With Current Coil By Direct Method	20 A to 1000 A	1.64 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power 10V to 200V, 1A to 5A	Using Multiproduct Calibrator By Direct Method	10 W to 1 kW	0.3 %
45	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 %



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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multiproduct Calibrator By Direct Method	1 Ohm to 10 Ohm	1 % to 0.13 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multiproduct Calibrator By Direct Method	10 Mohm to 1000 Mohm	0.15 % to 1.8 %
48	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 %
49	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 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistance Box/Standard Resistor By Direct Method	0.1 mohm	0.12 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistance Box/Standard Resistor By Direct Method	1 mohm	0.11 %



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52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistance Box/Standard Resistor By Direct Method	10 mohm	0.11 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistance Box/Standard Resistor By Direct Method	100 mohm	0.11 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistance Box/Standard Resistor By Direct Method	1 Ohm	0.11 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance 500V & 1000V	Using Standard megohm Box By Direct Method	1 Mohm to 50 Gohm	3.6 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance 5kV	Using Standard megohm Box By Direct Method	100 Gohm to 1000 Gohm	6 %
57	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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58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator By Direct Method	10 mV to 330 mV	0.04 % to 0.014 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator By Direct Method	330 mV to 1000 V	0.014 % to 0.01 %
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B- Type thermocouple	Using MPC By Direct Method	600 °C to 1800 °C	0.8 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E- Type thermocouple	Using MPC By Direct Method	(-) 200 °C to 1000 °C	0.58 °C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J- Type thermocouple	Using MPC By Direct Method	(-) 200 °C to 750 °C	0.31 °C
63	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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64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N- Type thermocouple	Using MPC By Direct Method	(-) 200 °C to 1300 °C	0.71 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R- Type thermocouple	Using MPC By Direct Method	200 °C to 1750 °C	0.69 °C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT-100)	Using Universal Calibrator /MPC By Direct Method	(-) 160 °C to 800 °C	0.07 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S- Type thermocouple	Using MPC By Direct Method	200 °C to 1750 °C	0.75 °C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T- Type Thermocouple	Using MPC By Direct Method	30 °C to 400 °C	0.4 °C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B- Type thermocouple	Using MPC By Direct Method	450 °C to 1800 °C	0.8 °C



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70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E- Type thermocouple	Using MPC By Direct Method	(-) 200 °C to 1000 °C	0.58 °C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J- Type thermocouple	Using MPC By Direct Method	(-) 200 °C to 750 °C	0.16 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K- Type thermocouple	Using Universal MPC By Direct Method	(-) 200 °C to 1350 °C	0.17 °C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N- Type thermocouple	Using MPC By Direct Method	(-) 200 °C to 1300 °C	0.71 °C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R- Type thermocouple	Using MPC By Direct Method	200 °C to 1750 °C	0.62 °C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100)	Using MPC By Direct Method	(-) 160 °C to 800 °C	0.05 °C



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76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S- Type thermocouple	Using MPC By Direct Method	200 °C to 1750 °C	0.69 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T- Type thermocouple	Using MPC By Direct Method	30 °C to 400 °C	0.4 °C
78	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digit Multimeter By Direct Method	1 kHz to 1000 kHz	0.29 %
79	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digit Multimeter By Direct Method	45 Hz to 1000 Hz	0.15 % to 0.29 %
80	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Stop Watch/ Timer/ Hour Meter (Mechanical/ Digital)	Using Digital Time Calibrator By Direct Method	6 s to 600 s	0.5 s
81	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Stop Watch/ Timer/ Hour Meter (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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82	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator By Direct Method	1 kHz to 1000 kHz	0.08 % to 0.27 %
83	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator By Direct Method	1 MHz to 2 MHz	0.27 % to 0.3 %
84	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator By Direct Method	10 Hz to 45 Hz	0.12 %
85	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator By Direct Method	45 Hz to 1000 Hz	0.08 %
86	FLUID FLOW-FLOW MEASURING DEVICES	Air Volume Flow rate of Rotameter /Flow measuring devices	Using Air Flow Calibrator	0.2 lpm to 20 lpm	2.9 % of Reading
87	MECHANICAL-ACCELERATION AND SPEED	Stroboscope( Non Contact type)	Using Digital Tachometer by Comparison Method	10 rpm to 100 rpm	1.78 %
88	MECHANICAL-ACCELERATION AND SPEED	Stroboscope( Non Contact Type)	Using Digital Tachometer by Comparison Method	15000 rpm to 90000 rpm	0.05 %



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89	MECHANICAL-ACCELERATION AND SPEED	Stroboscope(Non Contact Type)	Using Digital Tachometer by Comparison Method	100 rpm to 15000 rpm	0.36 %
90	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer & rpm Source by Comparison Method	10 rpm to 100 rpm	1.78 %
91	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer & rpm Source by Comparison Method	15000 rpm to 90000 rpm	0.05 %
92	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer & rpm Source by Comparison Method	10 rpm to 100 rpm	1.78 %
93	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer & rpm Source by Comparison Method	100 rpm to 1000 rpm	0.93 %
94	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer & rpm Source by Comparison Method	1000 rpm to 15000 rpm	0.29 %
95	MECHANICAL-ACCELERATION AND SPEED	Tachometer( Non Contact Type)	Using Digital Tachometer Comparison Method	100 rpm to 15000 rpm	1.6 %
96	MECHANICAL-ACOUSTICS	Sound Level Meter	Sound Level Calibrator by Direct Method	114 dB	0.8 dB



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97	MECHANICAL-ACOUSTICS	Sound Level Meter	Sound Level Calibrator by Direct Method	94 dB	0.8 dB
98	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 (Cuckow's) method as per NISP SP 250-78 Standard.	0.600 g/ml to 2.000 g/ml	0.0005 g/ml
99	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
100	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
101	MECHANICAL-DENSITY AND VISCOSITY	Viscosity cup/Flow cup(ford, john, sheen. Shell)	Using Viscosity Reference Standard (Oil) & Stop Watch by direct method:	325 cSt (Approx)@20°C to	0.5 cSt
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Aggregate Impact Machine (Dimension measurement of Part)	Using Dig. Caliper/Height Gauge/Depth Gauge by Direct method	5 mm to 300 mm	80 µm



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103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Beam/Motar Mould (Dimension Inspection)	Using Dig. Caliper/Height Gauge with Lever Dial/Depth Gauge by Direct Method	0 to 800 mm	95 µm
104	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
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge Dial/Digital L.C.:0.001mm	Using Dial Calibration Tester/ Dig Indicator by Comparison Method	0 to 2.0 mm	4.0 µm
106	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
107	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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108	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
109	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
110	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
111	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 '
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge L.C.: 0.1µm	Using Standard Foil by Direct Method	0 to 2000 µm	2.3 µm



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113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness of Base)	Using Lever Dial by Direct Method	Upto 300 x 200 mm	5.2 µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould	Using Digital Caliper and depth gauge by Direct method	20 mm to 300 mm	43µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Mould (Diameter/Depth/Height) CBR Mould, Proctor Mould, Le-Chatelier Mould, Aggregate impact Crushing Mould, Compaction Mould, Vicate Mould, Density basket.	Using Dig. Caliper/Depth gauge /Bore Gauge by Direct Method	20 mm to 300 mm	37.2 µm
116	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



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117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator/ Dial Gauge (Analogue/Dial/Digital) L.C.: 0.01mm	Using Dial Calibration Tester & Slip Gauge set by Direct Method	0 to 100 mm	8 µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator/ Dial Gauge (Analogue/Dial/Digital) L.C.: 0.01mm	Using Dial Calibration Tester & Slip Gauge set by Direct Method	0 to 25 mm	4 µm
119	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
120	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
121	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



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122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square / Right Angle / Tri-Square / Angle Plate (Parallelism)	Using Digital Dial Indicator, Surface Plate by Comparison Method	Up to 300 mm	5 µm
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square / Right Angle / Tri-Square / Angle Plate (Squareness)	Using Granite Square, Gauge Block Set and Dial Indicator By Comparison Method	upto to 300 mm	6 µm
124	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
125	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
126	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



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127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Dial Gauge LC. 0.1µm with Comparator stand by direct Method	0.05 mm to 1 mm	2.2 µm
128	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
129	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
130	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
131	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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132	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
133	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
134	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
135	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
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape/ Pi Tape, L.C.:0.5mm and 1mm	Using Measuring Scale & Tape Calibrator by Direct method	0 to 50 metre	121 Sqrt L µm, where L is in metre



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137	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
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Microscope (Magnification)	Using Glass Scale & Digital Caliper By Direct Method	10x to 1000 X	0.2 %
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Microscope L.C.: 0.01 mm	Using Glass Scale by Direct Method	0 to 10 mm	10µm
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Optical Microscope/ Metallurgical Microscope -Linear Scale (LC: 0.01µm)	Using Glass Scale by Direct Method	0 to 1 mm	3.5 µm
141	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



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142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper L.C.: 0.01mm/0.1mm	Using Slip Gauge Set by Direct Method	0 to 200 mm	57 µm
143	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
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Gauge Flank Angle	Using Profile Projector by Direct Method	55 ° to 60 °	2.2 Min
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge/Pin Gauge/ OD Gauge, Ball Diameter.	Using Gauge Block Set and Plunger Dial Gauge with Comparator Stand by Comparison Method	1 mm to 150 mm	3.3 µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Puppy Dial/Lever Dial L.C.: 0.01mm	Using Dial Calibration Tester & Slip Gauge Set by Direct Method	0 to 1 mm	3.5 µm



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147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector by Direct Method	0.2 mm to 100 mm	7 μm
148	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 "
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Receiving Gauge/ Profile Gauge / Profile of Work Piece-Length	Profile Projector/Gauge Block/Digital Caliper/Plunger dial gauge/lever dial gauge/Comparator Stand by Direct & Comparison Method	0 to 300 mm	9.5 μm
150	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



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151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sand Replacement Cylinder/ Temping Rod/ Pocking Rod (dimension Measurement) (Diameter/Length/ measurement of Part)	Using Dig. Caliper/Height Gauge/Depth Gauge/Dial gauge with comparator stand by Direct Method	0 to 600 mm	37.4 µm
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slump Cone/Core Cutter (Inspection) (Diameter/Height)	Using Digital Caliper/Height Gauge/Depth Gauge by Comparison Method	0 to 300 mm	37.4 µm
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Slip Gauge Set by Direct method	3 mm to 300 mm	3.3 µm
154	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



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155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Foil	Using Digital Plunger Dial Gauge with Comparator Stand (Readability 0.0001mm) by Direct Method	0.010 to 5 mm	2 µm
156	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
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge - Straightness	Using Electronic Level by Direct Method	100 mm to 3000 mm	5.1X $\sqrt{L}$ µm, where L is length of straight edge in m
158	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.
159	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



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160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector by Direct Method	20 µm to 5 mm	9 µm
161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Digital Caliper by Direct Method	5 mm to 150 mm	18 µm
162	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
163	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
164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using Profile Projector by Direct Method	0.19 mm to 7.82 mm	7 µm



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165	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
166	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 %
167	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Angular) LC 1 second	Using Angle Gauge by Direct Method	0 to 360 °	25 "
168	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Step Gauge	Using Digital Micrometer/Profile Projector by Direct Method	0 to 25 mm	2.9 μm
169	MECHANICAL-DUROMETER	Durometer/Rubber Hardness Tester (Shore- A, B, E, O)	Using Load Cell with Indicator & Fixture Based on ISO18898 & ASTM D 2240 on ISO 18898 & ASTM D 2240	0 to 100 Shore (A, B, E, O)	0.5 Shore A
170	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



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171	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	0.04 %
172	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 %
173	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 %
174	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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175	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	500 N to 2000 N	0.98 %
176	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Pressure Gauge, Indicator ,Manometer, Magnehelic Gauge, Differential Pressure Transmitter, Pressure Switches	Using Digital Manometer By Comparison Method as per DKD R-6-1	0 to 50 mbar	0.13 mbar
177	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
178	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



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179	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
180	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
181	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Dial and Digital Pressure/Vacuum Gauge, Pressure Transmitters/Transducer/ Pressure switch/ Compound Gauge	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
182	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Dial and Digital Pressure/Vacuum Gauge, Pressure Transmitters/Transducer/ Pressure switch/ Compound Gauge	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



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183	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Dial and Digital Pressure/Vacuum Gauge, Pressure Transmitters/Transducer/ Pressure switch/Compound Gauge	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
184	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench/ Torque Generating Tools Analogue/Digital (Type I & II), Rotary Torque Tools, Torque Driver, Nut Runner (Class: A,B,C,D,E,F)	Using Torque Transducer with Indicator, Torque Wrench Calibration System IS: 16906-2018	200 Nm to 1000 Nm	1.0 % rdg.
185	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench/ Torque Generating Tools Analogue/Digital (Type I & II), Rotary Torque Tools, Torque Driver, Nut Runner (Class: A,B,C,D,E,F)	Using Torque Transducer with Indicator, Torque Wrench Calibration System IS: 16906-2018	5 Nm to 50 Nm	1.8 % rdg.



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186	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench/ Torque Generating Tools Analogue/Digital (Type I & II), Rotary Torque Tools, Torque Driver, Nut Runner (Class: A,B,C,D,E,F)	Using Torque Transducer with Indicator, Torque Wrench Calibration System IS: 16906-2018	50 Nm to 200 Nm	1.6 % rdg
187	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench/ Torque Generating Tools Analogue/Digital (Type I & II), Rotary Torque Tools, Torque Driver, Nut Runner	Using Torque Transducer with Indicator, Torque Wrench Calibration System IS: 16906-2018	0.2 Nm to 5 Nm	2.3 %
188	MECHANICAL-VOLUME	Volumetric Apparatus/Bulk Density Apparatus	Using Precision Balance, distilled Water of know density Based on ISO 4787 By Gravimetric method LC 0.1g	15 L to 30 L	65 ml
189	MECHANICAL-VOLUME	Volumetric Apparatus/Measuring cylinder/Measuring Jar/Beaker/ Pycnometer/Flask/Bulk Density Apparatus	Using Precision Balance, distilled Water of know density Based on ISO 4787 By Gravimetric method LC 0.1g	2 L to 15 L	15 ml



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190	MECHANICAL-VOLUME	Volumetric Measurement: ( Burette, Pipette, Volumetric/Conical/L e- Chatelier Flask, Measuring Cylinder, Measuring Jar, Beaker & Container, Pycnometer, Clevenger, Dispenser, Specific Gravity Bottle, Dean stark Apparatus	Using Precision Balance, distilled Water of know density Based on ISO 4787 By Gravimetric method LC 0.00001g	10 ml to 100 ml	2.47 µl
191	MECHANICAL-VOLUME	Volumetric Measurement: ( Burette, Pipette, Volumetric/Conical/L e- Chatelier Flask, Measuring Cylinder, Measuring Jar, Beaker & Container, Pycnometer, Clevenger, Dispenser, Specific Gravity Bottle, Dean stark Apparatus	Using Precision Balance, distilled Water of know density Based on ISO 4787 By Gravimetric method LC 0.0001g	100 ml to 200 ml	2.8 µl



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192	MECHANICAL-VOLUME	Volumetric Measurement: ( Burette, Pipette, Volumetric/Conical/L e- Chatelier Flask, Measuring Cylinder, Measuring Jar, Beaker & Container, Pycnometer, Clevenger, Dispenser, Specific Gravity Bottle, Dean stark Apparatus	Using Precision Balance, distilled Water of know density Based on ISO 4787 By Gravimetric method LC 0.01g	1000 ml to 2000 ml	75 µl
193	MECHANICAL-VOLUME	Volumetric Measurement: ( Burette, Pipette, Volumetric/Conical/L e- Chatelier Flask, Measuring Cylinder, Measuring Jar, Beaker & Container, Pycnometer, Clevenger, Dispenser, Specific Gravity Bottle, Dean stark Apparatus	Using Precision Balance, distilled Water of know density Based on ISO 4787 By Gravimetric method LC 0.001g	200 ml to 1000 ml	25 µl



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194	MECHANICAL-VOLUME	Volumetric Measurement: (Micropipette, Burette, Pipette, Volumetric/Conical/L e- Chatelier Flask, Measuring Cylinder, Measuring Jar, Beaker & Container, Pycnometer, Clevenger, Dispenser, Specific Grav	Using Precision Balance, distilled Water of know density Based on ISO 4787 By Gravimetric method LC 0.00001g	1 ml to 10 ml	0.72 µl
195	MECHANICAL-VOLUME	Volumetric Measurement: (Micropipette,Pipette )	Using Precision Balance, distilled Water of know density Based on ISO 8655 By Gravimetric method Readability 0.00001g	10 µl to 100 µl	0.09 µl
196	MECHANICAL-VOLUME	Volumetric Measurement: (Micropipette,Pipette )	Using Precision Balance, distilled Water of know density Based on ISO 8655 By Gravimetric method Readability 0.00001g	100 µl to 1000 µl	0.24 µl



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197	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Accuracy I & Coarser Scale & Balance Readability: 0.01mg & Coarser	Using Weights of Accuracy E1, E2, Class Procedure is based on OIML R-76by Direct Method	1 mg to 200 g	0.09 mg
198	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Accuracy I & Coarser Readability: 0.001mg, 0.0005mg & Coarser	Using Weights of Accuracy E1, E2, Class Procedure is based on OIML R-76by Direct Method	1 mg to 5 g	0.008 mg
199	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Accuracy I & Coarser Readability: 0.1mg & Coarser	Using Weights of Accuracy E1, E2, Class Procedure is based on OIML R-76by Direct Method	1 mg to 500 g	0.1 mg
200	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Accuracy II & Coarser Readability: 1 mg & Coarser	Using Weights of Accuracy E1, E2, F1 Class Procedure is based on OIML R-76by Direct Method	20 mg to 1000 g	0.9 mg
201	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Accuracy II & Coarser Readability: 10 mg & Coarser	Using Weights of Accuracy E1, E2 & F1 Class Procedure is based on OIML R-76by Direct Method	100 mg to 5 kg	8 mg



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202	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Accuracy II & Coarser Readability: 100 mg & Coarser	Using Weights of Accuracy E1, E2 & F1 Class Procedure is based on OIML R-76 by Direct Method	2 g to 30 kg	0.08 g
203	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance/Spring Balance Accuracy IV & Coarser Readability: 1g & Coarser	Using Weights of Accuracy E1, E2 & F1 Class Procedure is based on OIML R-76 by Direct Method	20 g to 100 kg	1.0 g
204	MECHANICAL-WEIGHTS	Weights (Conventional Mass), For calibration F1 class weights and coarser	Using Standard Weights of Accuracy Class E1 & E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 Readability 0.00001g	1 g	0.03 mg
205	MECHANICAL-WEIGHTS	Weights (Conventional Mass), For calibration F1 class weights and coarser	Using Standard Weights of Accuracy Class E1 & E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 Readability 0.001g	1 kg	1.6 mg



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206	MECHANICAL-WEIGHTS	Weights (Conventional Mass), For calibration F1 class weights and coarser	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 Readability 0.00001g	1 mg	0.01 mg
207	MECHANICAL-WEIGHTS	Weights (Conventional Mass), For calibration F1 class weights and coarser	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 Readability 0.00001g	10 g	0.03 mg
208	MECHANICAL-WEIGHTS	Weights (Conventional Mass), For calibration F1 class weights and coarser	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 Readability 0.00001g	10 mg	0.01 mg



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209	MECHANICAL-WEIGHTS	Weights (Conventional Mass), For calibration F1 class weights and coarser	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 Readability 0.0001g	100 g	0.2 mg
210	MECHANICAL-WEIGHTS	Weights (Conventional Mass), For calibration F1 class weights and coarser	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 Readability 0.00001g	100 mg	0.02 mg
211	MECHANICAL-WEIGHTS	Weights (Conventional Mass), For calibration F1 class weights and coarser	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 Readability 0.00001g	2 g	0.013 mg



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212	MECHANICAL-WEIGHTS	Weights (Conventional Mass), For calibration F1 class weights and coarser	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 Readability 0.00001g	2 mg	0.01 mg
213	MECHANICAL-WEIGHTS	Weights (Conventional Mass), For calibration F1 class weights and coarser	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 Readability 0.00001g	20 g	0.02 mg
214	MECHANICAL-WEIGHTS	Weights (Conventional Mass), For calibration F1 class weights and coarser	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 Readability 0.00001g	20 mg	0.01 mg



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215	MECHANICAL-WEIGHTS	Weights (Conventional Mass), For calibration F1 class weights and coarser	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 Readability 0.0001g	200 g	0.2 mg
216	MECHANICAL-WEIGHTS	Weights (Conventional Mass), For calibration F1 class weights and coarser	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 Readability 0.00001g	200 mg	0.02 mg
217	MECHANICAL-WEIGHTS	Weights (Conventional Mass), For calibration F1 class weights and coarser	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 Readability 0.00001g	5 g	0.03 mg



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218	MECHANICAL-WEIGHTS	Weights (Conventional Mass), For calibration F1 class weights and coarser	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 Readability 0.00001g	5 mg	0.006 mg
219	MECHANICAL-WEIGHTS	Weights (Conventional Mass), For calibration F1 class weights and coarser	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 Readability 0.00001g	50 g	0.03 mg
220	MECHANICAL-WEIGHTS	Weights (Conventional Mass), For calibration F1 class weights and coarser	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 Readability 0.00001g	50 mg	0.013 mg



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221	MECHANICAL-WEIGHTS	Weights (Conventional Mass), For calibration F1 class weights and coarser	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 Readability 0.001g	500 g	1 mg
222	MECHANICAL-WEIGHTS	Weights (Conventional Mass), For calibration F1 class weights and coarser	Using Standard Weights of Accuracy Class E1& E2 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 Readability 0.00001g	500 mg	0.03 mg
223	MECHANICAL-WEIGHTS	Weights (Conventional Mass), For calibration F2 class weights and coarser	Using Standard Weights of Accuracy Class F1 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 Readability 0.01g	2 kg	10 mg



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224	MECHANICAL-WEIGHTS	Weights (Conventional Mass), For calibration M1 class weights and coarser	Using Standard Weights of Accuracy Class F1 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 Readability 0.1g	10 kg	100 mg
225	MECHANICAL-WEIGHTS	Weights (Conventional Mass), For calibration M1 class weights and coarser	Using Standard Weights of Accuracy Class F1 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 Readability 0.1g	20 kg	100 mg
226	MECHANICAL-WEIGHTS	Weights (Conventional Mass), For calibration M1 class weights and coarser	Using Standard Weights of Accuracy Class F1 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 Readability 1g	50 kg	1 g



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227	MECHANICAL-WEIGHTS	Weights (Conventional Mass), For calibration M2 class weights and coarser	Using Standard Weights of Accuracy Class F1 Precision Balance, by substitution Method ABBA weight Cycle based on OIML R-111 Readability 0.1g	5 kg	100 mg
228	MECHANICAL-WEIGHTS	Weights (of Aggregate Impact Machine)	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
229	OPTICAL-EQUIPMENTS	Digital Lux Meter /Light Meter / Illuminance Meter	Digital Illuminance Meter & Source	10 lx to 10000 lx	2.95 % of rdg
230	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital & Analog Thermo Hygrometer /RH Sensor/RH Transmitters with/without Controller /Indicator /Recorder/Data Logger/ Dry and wet Bulb Thermometer	Using Standard Thermo Hygrometer with Sensor & Universal Calibrator with Temp & Humidity Generator & Comparison Method	20 %RH to 95 %RH @ 25°C	1.2 %RH



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231	THERMAL-TEMPERATURE	Digital & Analog Thermo Hygrometer /Temperature Sensor/Temperature Transmitters with & Without Controller /Indicator /Recorder/Data Logger/ Dry and wet Bulb Thermometer	Using Standard digital thermo hygrometer with Sensor, SPRT, RTD with Indicator and Temp & Humidity Generator by Comparison Method,	5 °C to 50 °C	0.26 °C
232	THERMAL-TEMPERATURE	IR Thermometer/IR Gun/ Pyrometer/optical Thermometer/Thermal Imagers/ Laser Pointed/Radiation Pyrometer at Emissivity 0.95	Using Infrared Thermometer & Black Body Source & Comparison Method,	10 °C to 45 °C	2.46 °C
233	THERMAL-TEMPERATURE	IR Thermometer / IR Gun / Pyrometer/ optical Thermometer /Thermal Imagers/ 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



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234	THERMAL-TEMPERATURE	IR Thermometer/ IR Gun / Pyrometer/ optical Thermometer /Thermal Imagers/ 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
235	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SPRT/RTD Sensor with Super DAQ Scanner and Liquid bath source by Comparison Method	(-) 30 °C to 50 °C	0.21 °C
236	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SPRT/RTD Sensor with Super DAQ Scanner & oil bath Source by Comparison Method	50 °C to 250 °C	0.17 °C
237	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



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238	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 and S & R - Type Thermocouple with Indicator, Universal calibrator & Dry Block Furnace by Comparison Method	>250 °C to 650 °C	0.2 °C
239	THERMAL-TEMPERATURE	RTD's, Thermocouples with & without controller/indicator/ Temperature Gauge, Digital Thermometer, Glass Thermometer, Temperature Transmitter, Data logger /Recorder	Using SPRT Sensor with Super DAQ Scanner & RTD Sensor with Indicator, Universal Calibrator and Dry Block Furnace by Comparison Method	50 °C to 250 °C	0.21 °C



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240	THERMAL-TEMPERATURE	Temperature Indicator/DTC/PID with Sensor of Liquid Bath/ Water Bath/ Annealing Tank/Thawing Bath/Oil Bath/Viscosity Bath/Dry Block Furnace/Viscosity Bath/Low Temp. Bath/Constant Temp. Bath	Using SPRT/ RTD Sensor with Super DAQ Scanner/Indicator For Single Position Calibration by Comparison Method	(-) 40 °C to 250 °C	0.34 °C
241	THERMAL-TEMPERATURE	Thermocouples with & without controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder	Using S & R Type Thermocouple with Indicator & Super DAQ/Universal Calibrator & Dry Block Furnace By Comparison Method	>650 °C to 900 °C	1.7 °C
242	THERMAL-TEMPERATURE	Thermocouples with & without controller/ indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder	Using S & R Type Thermocouple with Indicator & Super DAQ/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)	AC Current @50Hz	Using 6 ½ Digit Multimeter By Direct Method	10 µA to 100 mA	0.25 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using 6 ½ Digit Multimeter with CT By Direct Method	100 A to 2000 A	1.8 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using 6 ½ Digit Multimeter By Direct Method	100 mA to 10 A	0.25 % to 1.0 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy 1 Phase & 3 Phase @50Hz 100V to 320 V, 1A to120A (UPF)	Using 3 Ø, Energy Logger By Direct Method	40 Wh to 11 kWh	0.65 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage@ 50 Hz	Using HV Probe/Divider with Digit Multimeter By Direct Method	1 kV to 28 kV	1.9 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage@ 50 Hz	Using HV Divider with Digit Multimeter By Direct Method	100 kV to 200 kV	3.47 % to 3.8 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage@ 50 Hz	Using HV Probe/Divider with Digit Multimeter By Direct Method	28 kV to 100 kV	1.9 % to 3.47 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power 1 Phase & 3 Phase 40 Hz to 60 Hz 100 V to 320 V 1 A to120 A (Unity to ±0.1)	Using 3 ø Energy Logger By Direct Method	40 W to 18 kW	0.65 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using 6 ½ Digit Multimeter By Direct Method	10 mV to 100 mV	1 % to 0.1 %



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10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using 6 ½ Digit Multimeter By Direct Method	100 mV to 1000 V	0.1 %
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1kHz	Using LCR Meter By Direct Method	1 nF to 100 nF	1.35 % to 1.33 %
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1kHz	Using LCR Meter By Direct Method	100 nF to 1000 µF	1.33 %
13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Inductance @ 1kHz	Using LCR Meter By Direct Method	1 mH to 10 H	1.2 %
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using Multiproduct Calibrator By Direct Method	1 mA to 20 A	0.15 % to 0.1 %



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15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using Multiproduct Calibrator with Current Coil By Direct Method	20 A to 1000 A	1.9 %
16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using Multiproduct Calibrator By Direct Method	33 $\mu$ A to 1 mA	0.57 % to 0.15 %
17	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Energy 1 $\emptyset$ & 3 Phase @50Hz 63V to300 V 80mA to 20A (UPF)	Using 3 $\emptyset$ Calibration Source By Direct Method	12 Wh to 6000 Wh	0.19 % to 1.2 %
18	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power 1 Phase & 3 Phase @50Hz 63V to300 V 80mA to 20A (Unity to $\pm$ 0.5)	Using 3 Phase Calibration Source By Direct Method	5 W to 18000 W	0.19 % to 1.2 %
19	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power 1 Phase @50Hz 15V to600 V 30.5mA to20A 0.087PF to UPF	Using 1 Phase Power MPC source By Direct Method	2.4 W to 12000 W	0.19 W to 1.2 W
20	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz	Using Multiproduct Calibrator By Direct Method	10 mV to 100 mV	0.35 % to 0.06 %



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21	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz	Using Multiproduct Calibrator By Direct Method	100 mV to 1000 V	0.06 %
22	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz	Using Multiproduct Calibrator By Direct Method	3 mV to 10 mV	0.9 % to 0.35 %
23	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	Using Multiproduct Calibrator /Decade Capacitance Box By Direct Method	100 $\mu$ F to 1000 $\mu$ F	0.7% to 0.6%
24	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	Using Decade Capacitance Box By Direct Method	100 pF to 100 $\mu$ F	1.4 % to 0.7 %
25	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @ 1kHz	Decade Inductance Box By Direct Method	1 mH to 10 H	1.21 %
26	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor 240 V , 5 A , 50 Hz	Using 1 $\emptyset$ Power MPC By Direct Method	-0.087 PF to 1 PF	0.003 PF



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27	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @ 230V,10A, 50 Hz	Using 3ø Power Energy Calibration Source By Direct Method	0.5PF to 1PF	0.015PF
28	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @ 230V,10A, 50 Hz	Using 3ø Power Energy Calibration Source By Direct Method	-0.5PF to 1PF	0.015 PF
29	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @ 240V,5A, 50 Hz	Using 1ø Power MPC By Direct Method	0.087PF to 1PF	0.003 PF
30	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Turn Ratio Meter	Using Ratio Calibration Standard, 6.5 DMM, 5.5 DMM By V/V Method	11 Turn to 220 Turn	0.58 %
31	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Turn Ration Meter	Using Ratio Calibration Standard, 6.5 DMM, 5.5 DMM By V/V Method	220 Turn to 2000 Turn	0.58 %
32	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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33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digit Multimeter By Direct Method	20 µA to 100 mA	0.27 %
34	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 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Resistance @5 kV	Using Insulation tester, Std. Resistance Box By comparison Method	100 Gohm to 1000 Gohm	3.5%
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Resistance 500 V & 1000 V	Using Insulation Tester ,Std. Resistance Box By comparison method	1 Gohm to 100 Gohm	3.5 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with Digit Multimeter By Direct Method	1 kV to 28 kV	2.8 %
38	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 %



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39	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 %
40	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 %
41	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 %
42	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 %
43	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 %
44	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 %



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45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi product Calibrator By Direct Method	1 A to 20 A	0.04 % to 0.13 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator By Direct Method	190 $\mu$ A to 1 A	0.07 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator By Direct Method	20 $\mu$ A to 190 $\mu$ A	0.3 % to 0.07 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator With Current Coil By Direct Method	20 A to 1000 A	1.64 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power 10V to 200V, 1A to 5A	Using Multiproduct Calibrator By Direct Method	10 W to 1 kW	0.3 %
50	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 %



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51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multiproduct Calibrator By Direct Method	1 Ohm to 10 Ohm	1 % to 0.13 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multiproduct Calibrator By Direct Method	10 Mohm to 1000 Mohm	0.15 % to 1.8 %
53	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 %
54	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 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistance Box/Standard Resistor By Direct Method	0.1 mohm	0.12 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistance Box/Standard Resistor By Direct Method	1 mohm	0.11 %



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57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistance Box/Standard Resistor By Direct Method	10 mohm	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 (4 wire)	Using Standard Resistance Box/Standard Resistor By Direct Method	1 Ohm	0.11 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance 500V & 1000V	Using Standard megohm Box By Direct Method	1 Mohm to 50 Gohm	3.6 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance 5kV	Using Standard megohm Box By Direct Method	100 Gohm to 1000 Gohm	6 %
62	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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63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator By Direct Method	10 mV to 330 mV	0.04 % to 0.014 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator By Direct Method	330 mV to 1000 V	0.014 % to 0.01 %
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B- Type thermocouple	Using MPC By Direct Method	600 °C to 1800 °C	0.8 °C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E- Type thermocouple	Using MPC By Direct Method	(-) 200 °C to 1000 °C	0.58 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J- Type thermocouple	Using MPC By Direct Method	(-) 200 °C to 750 °C	0.31 °C
68	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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69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N- Type thermocouple	Using MPC By Direct Method	(-) 200 °C to 1300 °C	0.71 °C
70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R- Type thermocouple	Using MPC By Direct Method	200 °C to 1750 °C	0.69 °C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT-100)	Using Universal Calibrator /MPC By Direct Method	(-) 160 °C to 800 °C	0.07 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S- Type thermocouple	Using MPC By Direct Method	200 °C to 1750 °C	0.75 °C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T- Type Thermocouple	Using MPC By Direct Method	30 °C to 400 °C	0.4 °C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B- Type thermocouple	Using MPC By Direct Method	450 °C to 1800 °C	0.8 °C



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75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E- Type thermocouple	Using MPC By Direct Method	(-) 200 °C to 1000 °C	0.58 °C
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J- Type thermocouple	Using MPC By Direct Method	(-) 200 °C to 750 °C	0.16 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K- Type thermocouple	Using Universal MPC By Direct Method	(-) 200 °C to 1350 °C	0.17 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N- Type thermocouple	Using MPC By Direct Method	(-) 200 °C to 1300 °C	0.71 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R- Type thermocouple	Using MPC By Direct Method	200 °C to 1750 °C	0.62 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100)	Using MPC By Direct Method	(-) 160 °C to 800 °C	0.05 °C



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81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S- Type thermocouple	Using MPC By Direct Method	200 °C to 1750 °C	0.69 °C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T- Type thermocouple	Using MPC By Direct Method	30 °C to 400 °C	0.4 °C
83	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digit Multimeter By Direct Method	1 kHz to 1000 kHz	0.29 %
84	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digit Multimeter By Direct Method	45 Hz to 1000 Hz	0.15 % to 0.29 %
85	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Stop Watch/ Timer/ Hour Meter (Mechanical/ Digital)	Using Digital Time Calibrator By Direct Method	6 s to 600 s	0.5 s
86	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Stop Watch/ Timer/ Hour Meter (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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87	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator By Direct Method	1 kHz to 1000 kHz	0.08 % to 0.27 %
88	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator By Direct Method	1 MHz to 2 MHz	0.27 % to 0.3 %
89	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator By Direct Method	10 Hz to 45 Hz	0.12 %
90	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator By Direct Method	45 Hz to 1000 Hz	0.08 %
91	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate-(liquid flow meter/Water Flow Meter & flow measuring equipments)	Using ultrasonic flow meter (mediumwater) by comparison method	1.5 m <sup>3</sup> /hr to 700 m <sup>3</sup> /hr	1.7 %



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92	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 15000 rpm	1.6 %
93	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 %
94	MECHANICAL-ACCELERATION AND SPEED	Stroboscope( Non Contact type)	Using Digital Tachometer by Comparison Method	10 rpm to 100 rpm	1.78 %
95	MECHANICAL-ACCELERATION AND SPEED	Stroboscope( Non Contact Type)	Using Digital Tachometer by Comparison Method	15000 rpm to 90000 rpm	0.05 %
96	MECHANICAL-ACCELERATION AND SPEED	Stroboscope(Non Contact Type)	Using Digital Tachometer by Comparison Method	100 rpm to 15000 rpm	0.36 %
97	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer & rpm Source by Comparison Method	10 rpm to 100 rpm	1.78 %



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98	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer & rpm Source by Comparison Method	15000 rpm to 90000 rpm	0.05 %
99	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer & rpm Source by Comparison Method	10 rpm to 100 rpm	1.78 %
100	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer & rpm Source by Comparison Method	100 rpm to 1000 rpm	0.93 %
101	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer & rpm Source by Comparison Method	1000 rpm to 15000 rpm	0.29 %
102	MECHANICAL-ACCELERATION AND SPEED	Tachometer( Non Contact Type)	Using Digital Tachometer Comparison Method	100 rpm to 15000 rpm	1.6 %
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Aggregate Impact Machine (Dimension measurement of Part)	Using Dig. Caliper/Height Gauge/Depth Gauge by Direct method	5 mm to 300 mm	80 µm



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104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness of Base)	Using Lever Dial by Direct Method	Upto 300 x 200 mm	5.2 µm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Mould (Diameter/Depth/Height) CBR Mould, Proctor Mould, Le-Chatelier Mould, Aggregate impact Crushing Mould, Compaction Mould, Vicate Mould, Density basket.	Using Dig. Caliper/Depth gauge /Bore Gauge by Direct Method	20 mm to 300 mm	37.2 µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Displacement Measuring equipment of Testing Machines L.C. : 0.001mm and coarse( Encoder, Actuator)	Using Standard Digital Height Gauge by comparison Method	0 to 600 mm	21 µm
107	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



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108	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
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Microscope (Magnification)	Using Glass Scale & Digital Caliper By Direct Method	10x to 1000 X	0.2 %
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Optical Microscope/ Metallurgical Microscope -Linear Scale (LC: 0.01µm)	Using Glass Scale by Direct Method	0 to 1 mm	3.5 µm
111	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
112	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



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113	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.
114	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
115	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 %
116	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Angular) LC 1 second	Using Angle Gauge by Direct Method	0 to 360 °	25 "
117	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Blocks Based on IS 1500-2-2021	10/3000 HBW	1.5 %
118	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Blocks Based on IS 1500-2-2021	5/750 HBW	1.5 %



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119	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Hardness Blocks Based on IS 1501-2:-2020	HV0.1	4.5 %
120	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Hardness Blocks Based on IS 1501-2:-2020	HV0.5	3.7 %
121	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Hardness Blocks Based on IS 1501-2:-2020	HV1	3 %
122	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester/Portable Hardness Tester	Using Standard Hardness Blocks Based on IS 1586-2	HRBW	0.96 HRBW
123	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester/Portable Hardness Tester	Using Standard Hardness Blocks Based on IS 1586-2-2018	HRC	0.96 HRC
124	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Blocks Based on IS 1586-2-2018	HRA	0.8 HRA
125	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine Superficial	Using Standard Hardness Blocks Based on IS 1586-2-2018	HR15N	0.95HR 15N



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126	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Blocks Based on IS 1501-2:-2020	HV30	2.5 %
127	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Blocks Based on IS 1501-2:-2020	HV10	2.5 %
128	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Blocks Based on IS 1501-2:-2020	HV5	2.5 %
129	MECHANICAL-IMPACT TESTING MACHINE	Impact Testing Machine (Charpy)	By Using Clinometer, Load Cell, Stop Watch Bevel Protector and other Measuring Instruments/Gauges as per ISO 148-2, ASTM E23-18 and IS 3766: 1977 ( Direct Method and Indirect Method))	0 to 300 J	0.4 %



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130	MECHANICAL-IMPACT TESTING MACHINE	Impact Testing Machine (Izod)	By Using Clinometer, Load Cell, Stop Watch Bevel Protector and other Measuring Instruments/Gauges as per ISO 148-2, ASTM E23-18 and IS 3766: 1977 ( Direct Method and Indirect Method))	0 to 170 J	0.4 %
131	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Pressure Gauge, Indicator ,Manometer, Magnehelic Gauge, Differential Pressure Transmitter, Pressure Switches	Using Digital Manometer By Comparison Method as per DKD R-6-1	0 to 50 mbar	0.13 mbar
132	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



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133	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
134	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
135	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Dial and Digital Pressure/Vacuum Gauge, Pressure Transmitters/Transducer/ Pressure switch/ Compound Gauge	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
136	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Dial and Digital Pressure/Vacuum Gauge, Pressure Transmitters/Transducer/ Pressure switch/ Compound Gauge	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



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137	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Dial and Digital Pressure/Vacuum Gauge, Pressure Transmitters/Transducer/ Pressure switch/Compound Gauge	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
138	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 %
139	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 %
140	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Accuracy I & Coarser Scale & Balance Readability: 0.01mg & Coarser	Using Weights of Accuracy E1, E2, Class Procedure is based on OIML R-76by Direct Method	1 mg to 200 g	0.09 mg



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141	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance of Batching/Cement/Mix Plant Readability:0.001 50 g,100, & Coarser	Using Weights of Accuracy E1, E2 & F1 Class Procedure is based on OIML R-76by Direct Method	50 g to 10 kg	1.2 g
142	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Accuracy I & Coarser Readability: 0.001mg, 0.0005mg & Coarser	Using Weights of Accuracy E1, E2, Class Procedure is based on OIML R-76by Direct Method	1 mg to 5 g	0.008 mg
143	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Accuracy I & Coarser Readability: 0.1mg & Coarser	Using Weights of Accuracy E1, E2, Class Procedure is based on OIML R-76by Direct Method	1 mg to 500 g	0.1 mg
144	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Accuracy II & Coarser Readability: 1 mg & Coarser	Using Weights of Accuracy E1, E2, F1 Class Procedure is based on OIML R-76by Direct Method	20 mg to 1000 g	0.9 mg
145	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Accuracy II & Coarser Readability: 10 mg & Coarser	Using Weights of Accuracy E1, E2 & F1 Class Procedure is based on OIML R-76by Direct Method	100 mg to 5 kg	8 mg



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146	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Accuracy II & Coarser Readability: 100 mg & Coarser	Using Weights of Accuracy E1, E2 & F1 Class Procedure is based on OIML R-76 by Direct Method	2 g to 30 kg	0.08 g
147	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance of Batching/Cement/Mix Plant Accuracy IV & Coarser Readability: 0.1 kg & Coarser	Using Weight of Accuracy F1 class & M1 Procedure is based on OIML R-76 by Direct Method	5 kg to 1800 kg	250 g
148	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Readability: 5 g, 10, & Coarser	Using Weight of Accuracy F1 class & M1 Procedure is based on OIML R-76 by Direct Method	200 g to 350 kg	9.0 g
149	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance/Spring Balance Accuracy IV & Coarser Readability: 1g & Coarser	Using Weights of Accuracy E1, E2 & F1 Class Procedure is based on OIML R-76 by Direct Method	20 g to 100 kg	1.0 g
150	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance Accuracy IV & Coarser Readability: 50 g & Coarser	Using Weight of Accuracy F1 class & M1 Procedure is based on OIML R-76 by Direct Method	5 kg to 1800 kg	110 g



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151	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
152	THERMAL-TEMPERATURE	Deep Freezers, Freezers, Cold Chamber	Using RTD Sensor with Super DAQ Scanner By Comparison Method Multi position(Mapping/TUS) Calibration By Comparison Method: Based on IEC 60068-3-5	(-) 30 °C to 25 °C	1.7 °C
153	THERMAL-TEMPERATURE	Furnaces, Carbon Test App	Using N-Type Thermocouple with Super DAQ Scanner By Comparison Method Multi Position Calibration (Mapping/TUS): Calibration By Comparison Method Based on IEC 60068-3-5	250 °C to 900 °C	4.0 °C



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154	THERMAL-TEMPERATURE	IR Thermometer/IR Gun/ Pyrometer/optical Thermometer/Thermal Imagers/ Laser Pointed/Radiation Pyrometer at Emissivity 0.95	Using Infrared Thermometer & Black Body Source & Comparison Method,	10 °C to 45 °C	2.46 °C
155	THERMAL-TEMPERATURE	IR Thermometer / IR Gun / Pyrometer/ optical Thermometer /Thermal Imagers/ 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
156	THERMAL-TEMPERATURE	IR Thermometer/ IR Gun / Pyrometer/ optical Thermometer /Thermal Imagers/ 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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157	THERMAL-TEMPERATURE	Oven, Furnace, Conditioning Chamber,	Using RTD Sensor with Super DAQ Scanner By Comparison Method Multi position(Mapping/TU S) Calibration By Comparison Method Based on IEC 60068-3-5	25 °C to 250 °C	1.7 °C
158	THERMAL-TEMPERATURE	RTD's, Thermocouples with & without controller/indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder	Using S & R-Type Thermocouple with Indicator & Dry Block Furnace By Comparison Method,	>250 °C to 650 °C	2.0 °C
159	THERMAL-TEMPERATURE	RTD's, Thermocouples with & without controller/indicator/ Temperature Gauge, Digital Thermometer, Glass Thermometer, Temperature Transmitter, Data logger /Recorder	Using SPRT Sensor with Super DAQ Scanner & RTD Sensor with Indicator, Universal Calibrator and Dry Block Furnace by Comparison Method	50 °C to 250 °C	0.21 °C



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160	THERMAL-TEMPERATURE	Temperature Indicator /DTC/PID with Sensor of BOD Incubator, Platelet Incubator/ Incubator/Blood Bank refrigerator/Refrigerated centrifuge machine/ Curing Tank	Using RTD Sensor with Indicator For Single Position Calibration by Comparison Method	0 °C to 60 °C	0.33 °C
161	THERMAL-TEMPERATURE	Temperature indicator/controller with Sensor Of Humidity Calibrator/Generator / Conditioning/ Chamber	Using Standard Thermo hygrometer with Sensor/RTD With Indicator (Single Position Calibration) by Comparison Method	5 °C to 50 °C	0.26 °C
162	THERMAL-TEMPERATURE	Temperature Indicator/DTC/PID with Sensor of Deep Freezer, Cold Chamber, Plasma Freezer	Using RTD Sensor With Indicator & For Single Position Calibration by Comparison Method	(-) 80 °C to 30 °C	0.34 °C
163	THERMAL-TEMPERATURE	Temperature Indicator/DTC/PID with Sensor of Oven, Thermal Stability, MFI, Hot Set App,, Ageing Oven, Liquid Bath,	Using RTD Sensor with Indicator For Single Position Calibration by Comparison Method	25 °C to 250 °C	0.33 °C



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164	THERMAL-TEMPERATURE	Temperature Indicator/DTC/PID with Sensor of Liquid Bath/ Water Bath/ Annealing Tank/Thawing Bath/Oil Bath/Viscosity Bath/Dry Block Furnace/Viscosity Bath/Low Temp. Bath/Constant Temp. Bath	Using SPRT/ RTD Sensor with Super DAQ Scanner/Indicator For Single Position Calibration by Comparison Method	(-) 40 °C to 250 °C	0.34 °C
165	THERMAL-TEMPERATURE	Temperature Indicator/DTC/PID with Sensor of Muffle Furnace ,CBC, Furnace.	Using R -Type & S-Type Thermocouple with indicator Single Position Calibration by Comparison Method	650 °C to 1500 °C	2.6 °C
166	THERMAL-TEMPERATURE	Temperature Indicator/DTC/PID with Sensor of Muffle Furnace, CBC, Furnace .	Using RTD Sensor, R -Type & S-Type Thermocouple with indicator Single Position Calibration by Comparison Method	50 °C to 650 °C	1.75 °C



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167	THERMAL-TEMPERATURE	Thermocouples with & without controller/indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder	Using S & R Type Thermocouple with Indicator & Super DAQ/Universal Calibrator & Dry Block Furnace By Comparison Method	>650 °C to 900 °C	1.7 °C
168	THERMAL-TEMPERATURE	Thermocouples with & without controller/indicator/ Temperature Gauge, Digital Thermometer, Temperature Transmitter, Data logger /Recorder	Using S & R Type Thermocouple with Indicator & Super DAQ/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.