National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	ACCURATE TESTING & CALIBRATION SERVICES, P. NO. 111, K.NO. 604, FRIST FLOOR ,SHYAM VIHAR, PART -II, Z BLOCK, NEW DELHI, SOUTH WEST, DELHI, 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 Capacitance@1KHz	Using LCR Meter (By Direct Method)	1 µF to 10 µF	0.23 % to 0.48 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Capacitance@1KHz	Using LCR Meter (By Direct Method)	10 pF to 1 µF	0.50 % to 0.23 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz-1KHz	Using Digital Multimeter (By Direct Method)	100 µA to 20 mA	1.26 % to 0.34 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz-1KHz	Using Digital Multimeter By Direct Method)	2 A to 10 A	0.28 % to 0.24 %

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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)(±)
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz-1KHz	Using Digital Multimeter (By Direct Method)	20 mA to 2 A	0.34 % to 0.28 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance@1KHz	Using LCR Meter (By Direct Method)	1 Ohm to 100 Kohm	0.30 % to 0.25 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz-10KHz	Using Digital Multimeter (By Direct Method)	10 V to 1000 V	0.10 % to 0.10 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz-10KHz	Using Digital Multimeter (By Direct Method)	100 mv to 10 V	0.12 % to 0.11 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance@1KHz	Using LCR Meter (By Direct Method)	100 µH to 10 H	0.60 % to 0.24 %

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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)(±)
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz-1KHz	Using Multifunction Calibrator (by Direct Method)	200 µA to 20 mA	0.37 % to 0.27 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz-1KHz	Using Multifunction Calibrator (by Direct Method)	1 A to 10 A	0.36 % to 0.23 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@50Hz-1KHz	Using Multifunction Calibrator (by Direct Method)	20 mA to 1 A	0.27 % to 0.36 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current@50Hz	Using Multifunction Calibrator With Current Coil (by Direct Method)	10 A to 100 A	0.23 % to 1.81 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current@50Hz	Using Multifunction Calibrator with Current Coil (by Direct Method)	100 A to 1000 A	1.50 % to 1.80 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Resistance@1KHz	Using Decade Resistance Box (By Direct Method)	1 Ohm to 10 Kohm	0.82 % to 0.58 %

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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz-1KHz	Using Multifunction Calibrator (by Direct Method)	100 mv to 1000 V	0.20 % to 0.20 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage@50Hz-1KHz	Using Multifunction Calibrator (by Direct Method)	10 mv to 100 mv	0.80 % to 0.20 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1kHz	Using Decade Capacitance Box (By Direct method)	1 µF to 10 µF	1.16 % to 1.23 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance@1kHz	Using Decade Capacitance Box (By Direct method)	10 pF to 1 µF	1.21 % to 1.16 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1KHz	using Decade Inductance Box (By direct method)	100 µH to 10 H	1.16 % to 1.6 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	AC High Voltage @50Hz	Using High Voltage Probe With Digital Multimeter (By Direct Method)	1 KV to 28 KV	6.0 %

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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Capacitance	Using Digital Multimeter (By Direct Method)	1 µF to 10 mF	1.76 % to 1.78 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Capacitance	Using Digital Multimeter (By Direct Method)	1 nF to 1 µF	5.20 % to 1.76 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter (By Direct Method)	1 µA to 100 mA	3.02 % to 0.06 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter (By Direct Method)	1 A to 10 A	0.08 % to 0.20 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter (By Direct Method)	100 mA to 1 A	0.064 % to 0.082 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter (By Direct Method)	20 mA to 1 A	0.12 % to 0.24 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Dc High Voltage	Using High Voltage Probe With Digital Multimeter (By Direct Method)	1 KV to 30 KV	6.45 % to 6.40 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter (By Direct Method)	1 mv to 100 mv	0.48 % to 0.01 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter (By Direct Method)	10 V to 1000 V	0.018 % to 0.006 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter (By Direct Method)	100 mv to 10 V	0.01 % to 0.007 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Low Resistance	Using Digital Multimeter & Multifunction Calibrator (By V/I Method)	1 Milli ohm to 1 Ohm	1.65 % to 1.65 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using Digital Multimeter (By Direct Method)	1 Mohm to 100 Mohm	0.034 % to 0.93 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using Digital Multimeter (By Direct Method)	1 Ohm to 1 Mega Ohm	0.36 % to 0.02 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using Digital Multimeter (By Direct Method)	100 Mohm to 1 Gohm	3.50 % to 3.50 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator (by Direct Method)	1 A to 10 A	0.234 % to 0.143 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator (by Direct Method)	100 µA to 20 mA	0.25 % to 0.12 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	Using Multifunction Calibrator With Current Coil (by Direct Method)	10 A to 1000 A	3.3 % to 1.9 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Resistance	Using standard Mega Ohm Box (By Direct Method)	2 Gohm	3.47 %

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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Resistance	Using standard Megaohm Box (By Direct Method)	2 Mohm	3.47 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Resistance	Using standard Mega Ohm Box (By Direct Method)	20 Gohm	3.60 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Resistance	Using standard Megaohm Box (By Direct Method)	20 Mohm	3.47 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Resistance	Using standard Mega Ohm Box (By Direct Method)	200 Mohm	3.47 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance	Using standard Resistance (By Direct Method)	1 mohm	1.02 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance	Using standard Resistance (By Direct Method)	1 ohm	1.15 %

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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance	Using standard Resistance (By Direct Method)	10 mohm	0.60 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance	Using standard Resistance (By Direct Method)	10 Ohm	0.70 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance	Using standard Resistance (By Direct Method)	100 mohm	0.60 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance	Using standard Resistance (By Direct Method)	100 ohm	0.58 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using standard Resistance (By Direct Method)	1 Kohm	0.58 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Standard Resistance & Decade Resistance Box (By Direct Method))	1 Ohm to 100 Kohm	0.82 % to 0.58 %

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52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Standard Resistance & Decade Resistance Box (By Direct Method)	100 Kohm to 1 Mohm	0.58 % to 0.58 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator (By Direct Method)	1 mv to 100 mv	1.94 % to 0.13 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction calibrator (By Direct Method)	100 mv to 1000 v	0.132 %
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator)RTD Pt-100	Using Digital Universal calibrator (By Direct Method)	(-)200 °C to 800 °C	0.49 °C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator)Thermocouple B-Type	Using Digital Universal calibrator (By Direct Method)	600 °C to 1800 °C	1.09 °C

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57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator)Thermocouple E-Type	Using Digital Universal calibrator (By Direct Method)	(-)200 °C to 1000 °C	0.72 °C
58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator)Thermocouple J-Type	Using Digital Universal calibrator (By Direct Method)	(-)200 °C to 1200 °C	0.50 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator)Thermocouple K-Type	Using Digital Universal calibrator (By Direct Method)	(-)100 °C to 1350 °C	0.60 °C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator)Thermocouple N-Type	Using Digital Universal calibrator (By Direct Method)	(-)100 °C to 1300 °C	0.46 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator)Thermocouple R-Type	Using Digital Universal calibrator (By Direct Method)	0 °C to 1750 °C	0.89 °C

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62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator)Thermocouple S-Type	Using Digital Universal calibrator (By Direct Method)	0 °C to 1750 °C	1.03 °C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator)Thermocouple T-Type	Using Digital Universal calibrator (By Direct Method)	(-)200 °C to 400 °C	0.50 °C
64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator) Thermocouple B-Type	Using Digital Universal calibrator (By Direct Method)	450 °C to 1800 °C	0.60 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator) Thermocouple E-Type	Using Digital Universal calibrator (By Direct Method)	(-)200 °C to 1000 °C	0.37 °C

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66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator) Thermocouple J-Type	Using Digital Universal calibrator (By Direct Method)	(-)200 °C to 1200 °C	0.36 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator) Thermocouple K-Type	Using Digital Universal calibrator (By Direct Method)	(-)200 °C to 1350 °C	0.36 °C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator) Thermocouple N-Type	Using Digital Universal calibrator (By Direct Method)	(-)200 °C to 1300 °C	0.36 °C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator) Thermocouple T-Type	Using Digital Universal calibrator (By Direct Method)	200 °C to 400 °C	0.36 °C

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70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator)Pt-100	Using Digital Universal calibrator (By Direct Method)	(-)200 °C to 800 °C	0.18 °C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator)Thermocouple R-Type	Using Digital Universal calibrator (By Direct Method)	0 °C to 1750 °C	0.60 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator)Thermocouple S-Type	Using Digital Universal calibrator (By Direct Method)	0 °C to 1750 °C	0.60 °C
73	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Digital Multimeter (By Direct Method)	10 Hz to 1 MHz	0.24 % to 0.011 %
74	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Stop watch / Timer (Digital/Analog)	Using Time Calibration standard (By Comparison Method)	1 Hour to 24 Hour	0.60 Sec. to 23 Sec

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75	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Stop watch / Timer (Digital/Analog)	Using Time Calibration standard (By Comparison Method)	1 Min. to 1 Hour	0.022 Sec. to 0.60 Sec.
76	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Stop watch / Timer (Digital/Analog)	Using Time Calibration Standard (By Comparison Method)	1 Sec. to 1 Min.	0.016 sec. to 0.60 sec.
77	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Digital Process Calibrator (By Direct Method)	1 Hz to 10 KHz	0.10 % to 0.06 %
78	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate : Rotameter, Flow Meter, Flow Calibrator, Dry Gas Meter, Sampler (Medium-Gas)	Using LFG Gas Flow Calibrator by Comparison Method	1 LPM to 100 LPM	1.62 %
79	MECHANICAL-ACCELERATION AND SPEED	RPM (Contact Type) Digital Tachometer	Using Digital Tachometer with RPM Source by Direct/Comparison Method	100 RPM to 6000 RPM	0.7 %

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80	MECHANICAL-ACCELERATION AND SPEED	RPM (Contact Type) RPM Meter, RPM Indicator	Using Digital Tachometer with RPM Source by Direct/Comparison Method:	100 rpm to 6000 rpm	0.04%
81	MECHANICAL-ACCELERATION AND SPEED	RPM (Contact Type) Digital Tachometer	Using Digital Tachometer with RPM Source by Direct/Comparison Method	10 RPM to 100 RPM	7.5 %
82	MECHANICAL-ACCELERATION AND SPEED	RPM (Contact Type) RPM Meter, RPM Indicator	Using Digital Tachometer with RPM Source by Direct/Comparison Method:	10 rpm to 100 rpm	7.5%
83	MECHANICAL-ACCELERATION AND SPEED	RPM (Non-Contact Type) Digital Tachometer, RPM Meter, RPM Indicator	Using Digital Tachometer with RPM Source by Direct/Comparison Method	100 RPM to 10000 RPM	0.4 %
84	MECHANICAL-ACCELERATION AND SPEED	RPM (Non-Contact Type) Digital Tachometer, RPM Meter, RPM Indicator	Using Digital Tachometer with RPM Source by Direct/Comparison Method	10000 rpm to 90000 rpm	0.040 %
85	MECHANICAL-ACCELERATION AND SPEED	RPM (Non-Contact Type) Indicator of Stroboscope/Centrifuge	Using Digital Tachometer by Direct/Comparison Method	100 rpm to 10000 rpm	0.04 %

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86	MECHANICAL-ACCELERATION AND SPEED	RPM (Non-Contact Type) Indicator of Stroboscope / Centrifuge	Using Digital Tachometer by Direct/Comparison Method	10 rpm to 100 rpm	7.5 %
87	MECHANICAL-ACCELERATION AND SPEED	RPM (Non-Contact Type) Indicator of Stroboscope/Centrifuge	Using Digital Tachometer by Direct/Comparison Method	10000 rpm to 90000 rpm	0.04 %
88	MECHANICAL-ACCELERATION AND SPEED	RPM (Non-Contact Type) Digital Tachometer, RPM Meter, RPM Indicator	Using Digital Tachometer with RPM Source by Direct/Comparison Method	10 RPM to 100 RPM	7.5 %
89	MECHANICAL-DENSITY AND VISCOSITY	Hydrometers, Specific Gravity Hydrometers, Lactometers, Brix Hydrometers, Soil Hydrometer	Using Standard Hydrometer & Liquids of Known Densities	0.600 g/ml to 1.000 g/ml	0.0016 g/ml
90	MECHANICAL-DENSITY AND VISCOSITY	Hydrometers, Specific Gravity Hydrometers, Lactometers, Brix Hydrometers, Soil Hydrometer	Using Standard Hydrometer & Liquids of Known Densities	1.000 g/ml to 1.950 g/ml	0.0016 g/ml

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91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector/Angle protector/Combination Set L.C.: 5 Minute	Using Angle Gauge Set , By Comparison Method	0 ° to 360 °	3.6 min
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould	Using Digital Vernier caliper , By Comparison Method	Up to 150 mm	38 µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth micrometer L.C. 0.01 mm	Using Slip Gauge Set 0 Grade Long Gauge Blocks & Slip gauge Accessories, By Comparison Method	0 to 150 mm	11.0 µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier Caliper L.C. 0.01 mm	Using Slip Gauge Set 0 Grade Long Gauge Blocks & Slip gauge Accessories, By Comparison Method	0 to 300 mm	12.0 µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digimatic Caliper / Dial caliper / Vernier Caliper L.C. 0.01 mm	Using Slip Gauge Set 0 Grade Long Gauge Blocks caliper checker & Slip gauge Accessories ,By Comparison Method	0 to 600 mm	14.3 µm

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96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge	Using Digital Vernier caliper , by Comparison method	0 mm to 81 mm	37 µm
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External micrometer L.C. 0.001 mm	Using Slip Gauge Set 0 Grade, Long Gauge Blocks, By Comparison Method	0 to 100 mm	3.2 µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flenkiness Gauge	Using Digital Vernier caliper , By Comparison Method	0 to 100 mm	37 µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height gauge L.C.: 0.01mm	Using Slip Gauge Set 0 Grade Long Gauge Blocks, lever Type Dial Gauge & caliper checker , By Comparison Method	0 to 600 mm	14.2 µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plan Plug Gauge	Using Slip Gauge Set 0 Grade, Plunger Type Dial gauge & Comparator Stand , By Comparison Method	3 mm to 150 mm	7.5 µm

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101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slump Cone	Using Digital Vernier Caliper , By Comparison Method	Up to 300 mm	37 µm
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Gap Gauge	Using Slip Gauge Set 0 Grade & slip gauge accessories , By Comparison Method	4 mm to 150 mm	2.6 µm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Digital Vernier Caliper , By Comparison Method	4 mm to 150 mm	37 µm
104	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure / Load gauge Pressure Gauge/Vacuum Gauge (Digital Analog), Pressure Switch, Pressure Transmitter, Manometer	Using Digital Pressure Gauge, Universal Calibrator(for Transmitter Output) & Hydraulic Comparator by Comparison Method as per DKD-R6-1	0 bar to 70 bar	0.093 bar

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105	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure / Load gauge Pressure Gauge/Vacuum Gauge (Digital Analog), Pressure Switch, Pressure Transmitter, Manometer	Using Digital Pressure Gauge, Universal Calibrator(for Transmitter Output) & Hydraulic Comparator by Comparison Method as per DKD-R6-1	0 bar to 700 bar	0.15 bar
106	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure / Load gauge Pressure Gauge/Vacuum Gauge (Digital Analog), Pressure Switch, Pressure Transmitter, Manometer	Using Digital Pressure Gauge, Universal Calibrator(for Transmitter Output) & Pneumatic Comparator by Comparison Method as per DKD-R6-1	-0.95 bar to 0 bar	0.0023 bar
107	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure / Load gauge Pressure Gauge/Vacuum Gauge (Digital Analog), Pressure Switch, Pressure Transmitter, Manometer	Using Digital Pressure Gauge, Universal Calibrator(for Transmitter Output) & Pressure Comparator by Comparison Method as per DKD-R6-1	0 bar to 7 bar	0.001 bar

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108	MECHANICAL-VOLUME	Burette / Pipette / Volumetric Flask / Measuring Cylinder / Beaker / Dispenser / Syringe / Pycnometer / Glass Wares	Using E2 Accuracy Class Standard Weights, F1 Accuracy Class Standard Weights, Weighing Balance (Readability 0.01 mg & 1 mg) & Distilled Water of Known Density by Gravimetric Method As per ISO 4787-2010	1 ml to 10 ml	1.34 µl
109	MECHANICAL-VOLUME	Burette / Pipette / Volumetric Flask / Measuring Cylinder / Beaker / Dispenser / Syringe / Pycnometer / Glass Wares	Using E2 Accuracy Class Standard Weights, F1 Accuracy Class Standard Weights, Weighing Balance (Readability 0.01 mg & 1 mg) & Distilled Water of Known Density by Gravimetric Method As per ISO 4787-2010	10 ml to 100 ml	3.9 µl

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110	MECHANICAL-VOLUME	Burette / Pipette / Volumetric Flask / Measuring Cylinder / Beaker / Dispenser / Syringe / Pycnometer / Glass Wares	Using E2 Accuracy Class Standard Weights, F1 Accuracy Class Standard Weights, Weighing Balance (Readability 0.01 mg & 1 mg) & Distilled Water of Known Density by Gravimetric Method As per ISO 4787-2010	100 ml to 500 ml	0.25 ml
111	MECHANICAL-VOLUME	Burette / Pipette / Volumetric Flask / Measuring Cylinder / Beaker / Dispenser / Syringe / Pycnometer / Glass Wares	Using E2 Accuracy Class Standard Weights, F1 Accuracy Class Standard Weights, Weighing Balance (Readability 1 mg & 0.01 g) & Distilled Water of Known Density by Gravimetric Method As per ISO 4787-2010	1000 ml to 5000 ml	0.65 ml

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112	MECHANICAL-VOLUME	Burette / Pipette / Volumetric Flask / Measuring Cylinder / Beaker / Dispenser / Syringe / Pycnometer / Glass Wares	Using E2 Accuracy Class Standard Weights, F1 Accuracy Class Standard Weights, Weighing Balance (Readability 1 mg & 0.01 g) & Distilled Water of Known Density by Gravimetric Method As per ISO 4787-2010	500 ml to 1000 ml	0.65
113	MECHANICAL-VOLUME	Micro Pipette	Using E2 Accuracy Class Standard Weights, Weighing Balance (Readability 0.01 mg) & Distilled Water of Known Density by Gravimetric Method As per ISO 8655-6	10 µl to 100 µl	0.24 µl
114	MECHANICAL-VOLUME	Micro Pipette	Using E2 Accuracy Class Standard Weights, Weighing Balance (Readability 0.01 mg) & Distilled Water of Known Density by Gravimetric Method As per ISO 8655-6	100 µl to 1000 µl	1.36 µl

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115	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=0.1 g and Coarser(Class III & Coarser)	Using F1 Accuracy Class Standard Weights As per OIML R-76-1	0 to 20 kg	0.3 g
116	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=1 mg and Coarser(Class II & Coarser)	Using F1 Accuracy Class Standard Weights As per OIML R-76-1	0 to 1 kg	8 mg
117	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=10 mg and Coarser (Class II & Coarser)	Using F1 Accuracy Class Standard Weights As per OIML R-76-1	0 to 6 Kg	50 mg
118	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d= 1 g and Coarser(Class III & Coarser)	Using F1 Accuracy Class Standard Weights As per OIML R-76-1	0 to 30 kg	1.6 g
119	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d= 10 g and Coarser(Class IV & Coarser)	Using F1 Accuracy Class Standard Weights As per OIML R-76-1	0 to 100 kg	10 g
120	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=0.01 mg and Coarser(Class I & Coarser)	Using E2 Accuracy Class Standard Weights As per OIML R-76-1	0 to 62 g	0.09 mg
121	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=0.1 mg and Coarser(Class I & Coarser)	Using E2 Accuracy Class Standard Weights As per OIML R-76-1	0 to 220 g	0.4 mg

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122	MECHANICAL-WEIGHTS	F1 Class & Coarser	Using E2 Accuracy Class Standard Weights, Weighing Balance (Readability 0.01 mg) By Substitution Method of Weighing & ABBA Weighing Cycle As per OIML R-111	10 g	0.05 mg
123	MECHANICAL-WEIGHTS	F1 Class & Coarser	Using E2 Accuracy Class Standard Weights, Weighing Balance (Readability 0.01 mg) By Substitution Method of Weighing & ABBA Weighing Cycle As per OIML R-111	100 g	0.12 mg
124	MECHANICAL-WEIGHTS	F1 Class & Coarser	Using E2 Accuracy Class Standard Weights, Weighing Balance (Readability 0.01 mg) By Substitution Method of Weighing & ABBA Weighing Cycle As per OIML R-111	20 g	0.06 mg

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125	MECHANICAL-WEIGHTS	F1 Class & Coarser	Using E2 Accuracy Class Standard Weights, Weighing Balance (Readability 0.01 mg) By Substitution Method of Weighing & ABBA Weighing Cycle As per OIML R-111	200 g	0.21 mg
126	MECHANICAL-WEIGHTS	F1 Class & Coarser	Using E2 Accuracy Class Standard Weights, Weighing Balance (Readability 0.01 mg) By Substitution Method of Weighing & ABBA Weighing Cycle As per OIML R-111	5 g	0.05 mg
127	MECHANICAL-WEIGHTS	F1 Class & Coarser	Using E2 Accuracy Class Standard Weights, Weighing Balance (Readability 0.01 mg) By Substitution Method of Weighing & ABBA Weighing Cycle As per OIML R-111	50 g	0.08 mg

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128	MECHANICAL-WEIGHTS	F2 Class & Coarser	Using E2 Accuracy Class Standard Weights, Weighing Balance (Readability 0.01 mg) By Substitution Method of Weighing & ABBA Weighing Cycle As per OIML R-111	1 g	0.05 mg
129	MECHANICAL-WEIGHTS	F2 Class & Coarser	Using F1 Accuracy Class Standard Weights, Weighing Balance (Readability 0.001 g & 0.01 g) By Substitution Method of Weighing & ABBA Weighing Cycle As per OIML R-111	1 Kg	0.010 g
130	MECHANICAL-WEIGHTS	F2 Class & Coarser	Using E2 Accuracy Class Standard Weights, Weighing Balance (Readability 0.01 mg) By Substitution Method of Weighing & ABBA Weighing Cycle As per OIML R-111	1 mg	0.03 mg

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131	MECHANICAL-WEIGHTS	F2 Class & Coarser	Using E2 Accuracy Class Standard Weights, Weighing Balance (Readability 0.01 mg) By Substitution Method of Weighing & ABBA Weighing Cycle As per OIML R-111	10 mg	0.03 mg
132	MECHANICAL-WEIGHTS	F2 Class & Coarser	Using E2 Accuracy Class Standard Weights, Weighing Balance (Readability 0.01 mg) By Substitution Method of Weighing & ABBA Weighing Cycle As per OIML R-111	100 mg	0.03 mg
133	MECHANICAL-WEIGHTS	F2 Class & Coarser	Using E2 Accuracy Class Standard Weights, Weighing Balance (Readability 0.01 mg) By Substitution Method of Weighing & ABBA Weighing Cycle As per OIML R-111	2 g	0.05 mg

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134	MECHANICAL-WEIGHTS	F2 Class & Coarser	Using F1 Accuracy Class Standard Weights, Weighing Balance (Readability 0.001 g & 0.01 g) By Substitution Method of Weighing & ABBA Weighing Cycle As per OIML R-111	2 Kg	0.010 g
135	MECHANICAL-WEIGHTS	F2 Class & Coarser	Using E2 Accuracy Class Standard Weights, Weighing Balance (Readability 0.01 mg) By Substitution Method of Weighing & ABBA Weighing Cycle As per OIML R-111	2 mg	0.03 mg
136	MECHANICAL-WEIGHTS	F2 Class & Coarser	Using E2 Accuracy Class Standard Weights, Weighing Balance (Readability 0.01 mg) By Substitution Method of Weighing & ABBA Weighing Cycle As per OIML R-111	20 mg	0.03 mg

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137	MECHANICAL-WEIGHTS	F2 Class & Coarser	Using E2 Accuracy Class Standard Weights, Weighing Balance (Readability 0.01 mg) By Substitution Method of Weighing & ABBA Weighing Cycle As per OIML R-111	200 mg	0.03 mg
138	MECHANICAL-WEIGHTS	F2 Class & Coarser	Using F1 Accuracy Class Standard Weights, Weighing Balance (Readability 0.001 g & 0.01 g) By Substitution Method of Weighing & ABBA Weighing Cycle As per OIML R-111	5 kg	0.016 g
139	MECHANICAL-WEIGHTS	F2 Class & Coarser	Using E2 Accuracy Class Standard Weights, Weighing Balance (Readability 0.01 mg) By Substitution Method of Weighing & ABBA Weighing Cycle As per OIML R-111	5 mg	0.03 mg

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140	MECHANICAL-WEIGHTS	F2 Class & Coarser	Using E2 Accuracy Class Standard Weights, Weighing Balance (Readability 0.01 mg) By Substitution Method of Weighing & ABBA Weighing Cycle As per OIML R-111	50 mg	0.03 mg
141	MECHANICAL-WEIGHTS	F2 Class & Coarser	Using M1 Accuracy Class Standard Weights, Weighing Balance (Readability 0.001 g & 0.01 g) By Substitution Method of Weighing & ABBA Weighing Cycle As per OIML R-111	500 g	0.009 g
142	MECHANICAL-WEIGHTS	F2 Class & Coarser	Using E2 Accuracy Class Standard Weights, Weighing Balance (Readability 0.01 mg) By Substitution Method of Weighing & ABBA Weighing Cycle As per OIML R-111	500 mg	0.03 mg

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143	MECHANICAL-WEIGHTS	M1 Class & Coarser	Using F1 Accuracy Class Standard Weights, Weighing Balance (Readability 5 g & 10 g) By Substitution Method of Weighing & ABB Weighing Cycle As per OIML R-111	20 Kg	8.0 g
144	MECHANICAL-WEIGHTS	M1 Class & Coarser	Using F1 Accuracy Class Standard Weights, Weighing Balance (Readability 5 g & 10 g) By Substitution Method of Weighing & ABB Weighing Cycle As per OIML R-111	50 Kg	8.2 g
145	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental Chamber/Humidity Chamber @10 °C to 50 °C	Using Wire Less Logger With RH Sensor (Multi Position Calibration with minimum 9 sensors)	15 %RH to 95 %RH	2 %RH
146	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity/ Temperature Indicator /Controller With sensor Of Environmental Chamber/Humidity Chamber	Using Digital temperature & Humidity Indicator With sensor (Single position Calibration)	10 %RH to 95 %RH @ 25°C	1.60 %RH

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147	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature/Humidity Indicator /Controller/Data Logger With sensor, Thermo-Hygrometer (Dial/Digital)	Using Digital temperature & Humidity Indicator With sensor & Humidity Chamber (by Comparison Method)	22 %RH to 95 %RH@25 °C	1.60 %RH
148	THERMAL-TEMPERATURE	Liquid Bath, Refrigerator Environmental Chamber; BOD Incubator , Autoclave & Incubator (non-medical purpose only)	Using 16 Channel Universal Scanner Logger With RTD (pt-100) 3Wire Sensor (Multi Position Calibration with minimum 9 sensors)	0 °C to 100 °C	0.97 °C
149	THERMAL-TEMPERATURE	Liquid Bath, Deep Freezer, Refrigerator, Cold Chamber	Using 16 Channel Universal Scanner Logger With RTD (pt-100) 3Wire Sensor (Multi Position Calibration with minimum 9 sensors)	-40 °C to 0 °C	1.07 °C

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150	THERMAL-TEMPERATURE	Liquid Bath, Oven , Furnace, Environmental Chamber ; Autoclave & Incubator (non-medical purpose only)	Using 16 Channel Universal Scanner Logger With RTD (pt-100) 3Wire Sensor (Multi Position Calibration with minimum 9 sensors)	100 °C to 250 °C	0.96 °C
151	THERMAL-TEMPERATURE	Liquid-In-Glass Thermometer, RTD, Thermocouple, Temperature Transmitter With/Without Sensor, Digital Thermometer with sensor, Temperature Gauge, Data Logger/Scanner/Recorder	Using Digital Thermometer With RTD (PT-100) 4Wire Sensor, Universal Calibrator(for Transmitter Output)& Liquid Bath	100 °C to 250 °C	1.38 °C
152	THERMAL-TEMPERATURE	Liquid-In-Glass Thermometer, RTD, Thermocouple, Temperature Transmitter With/Without Sensor, Digital Thermometer with sensor, Temperature Gauge, Data Logger/Scanner/Recorder	Using Digital Thermometer With RTD (PT-100) 4Wire Sensor, Universal Calibrator(for Transmitter Output) & Temperature source((Methanol oil Bath & Silicon Oil)	-40 °C to 100 °C	1.01 °C

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153	THERMAL-TEMPERATURE	Temperature Indicator/Controller With Sensor Of Bath, Water Bath, Oven, Furnace, Chamber , Autoclave (non Medical Purpose only)	Using Digital Thermometer With RTD (PT-100) 4Wire Sensor (Single Position Calibration)	100 °C to 300 °C	0.59 °C
154	THERMAL-TEMPERATURE	Temperature Indicator/Controller With Sensor Of Bath, Deep Freezer Water Bath, Refrigerator, Cold Room, Oven, Chamber, BOD Incubator; Incubator & Autoclave (Non medical Purpose only)	Using Digital Thermometer With RTD (PT-100) 4Wire Sensor (Single Position Calibration)	-80 °C to 100 °C	0.26 °C
155	THERMAL-TEMPERATURE	Temperature Indicator/Controller With Sensor Of Dry Block Furnace/Heating Block/Muffle Furnace	Using Digital Thermometer With S Type Thermocouple (Single Position Calibration)	250 °C to 500 °C	1.09 °C
156	THERMAL-TEMPERATURE	Temperature Indicator/Controller With Sensor Of Dry Block Furnace/Heating Block/Muffle Furnace	Using Digital Thermometer With S Type Thermocouple (Single Position Calibration)	500 °C to 1200 °C	1.82 °C

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157	THERMAL-TEMPERATURE	Thermocouple, Temperature Indicator/Controller Digital Thermometer With/Without indicator, Temperature Gauge, Data Logger/Scanner/Recorder Temperature Transmitter With indicator	Using Digital Thermometer With S type Thermocouple, Universal Calibrator(for Transmitter Output)& Dry Block Furnace (By comparison Method)	250 °C to 500 °C	1.02 °C
158	THERMAL-TEMPERATURE	Thermocouple, Temperature Indicator/Controller Digital Thermometer With/Without indicator, Temperature Gauge, Data Logger/Scanner/Recorder Temperature Transmitter With indicator	Using Digital Thermometer With S Type Thermocouple, Universal Calibrator(for Transmitter Output) & Dry Block Furnace (By Direct Method)	500 °C to 1200 °C	2.16 °C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Capacitance@1KHz	Using LCR Meter (By Direct Method)	1 µF to 10 µF	0.23 % to 0.48 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Capacitance@1KHz	Using LCR Meter (By Direct Method)	10 pF to 1 µF	0.50 % to 0.23 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz-1KHz	Using Digital Multimeter (By Direct Method)	100 µA to 20 mA	1.26 % to 0.34 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz-1KHz	Using Digital Multimeter By Direct Method)	2 A to 10 A	0.28 % to 0.24 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz-1KHz	Using Digital Multimeter (By Direct Method)	20 mA to 2 A	0.34 % to 0.28 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance@1KHz	Using LCR Meter (By Direct Method)	1 Ohm to 100 Kohm	0.30 % to 0.25 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz-10KHz	Using Digital Multimeter (By Direct Method)	10 V to 1000 V	0.10 % to 0.10 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz-10KHz	Using Digital Multimeter (By Direct Method)	100 mv to 10 V	0.12 % to 0.11 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance@1KHz	Using LCR Meter (By Direct Method)	100 µH to 10 H	0.60 % to 0.24 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz-1KHz	Using Multifunction Calibrator (by Direct Method)	200 µA to 20 mA	0.37 % to 0.27 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50Hz-1KHz	Using Multifunction Calibrator (by Direct Method)	1 A to 10 A	0.36 % to 0.23 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@50Hz-1KHz	Using Multifunction Calibrator (by Direct Method)	20 mA to 1 A	0.27 % to 0.36 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current@50Hz	Using Multifunction Calibrator With Current Coil (by Direct Method)	10 A to 100 A	0.23 % to 1.81 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current@50Hz	Using Multifunction Calibrator with Current Coil (by Direct Method)	100 A to 1000 A	1.50 % to 1.80 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Resistance@1KHz	Using Decade Resistance Box (By Direct Method)	1 Ohm to 10 Kohm	0.82 % to 0.58 %

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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50Hz-1KHz	Using Multifunction Calibrator (by Direct Method)	100 mv to 1000 V	0.20 % to 0.20 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage@50Hz-1KHz	Using Multifunction Calibrator (by Direct Method)	10 mv to 100 mv	0.80 % to 0.20 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1kHz	Using Decade Capacitance Box (By Direct method)	1 µF to 10 µF	1.16 % to 1.23 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance@1kHz	Using Decade Capacitance Box (By Direct method)	10 pF to 1 µF	1.21 % to 1.16 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1KHz	using Decade Inductance Box (By direct method)	100 µH to 10 H	1.16 % to 1.6 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	AC High Voltage @50Hz	Using High Voltage Probe With Digital Multimeter (By Direct Method)	1 KV to 28 KV	6.0 %

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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Capacitance	Using Digital Multimeter (By Direct Method)	1 µF to 10 mF	1.76 % to 1.78 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Capacitance	Using Digital Multimeter (By Direct Method)	1 nF to 1 µF	5.20 % to 1.76 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter (By Direct Method)	1 µA to 100 mA	3.02 % to 0.06 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter (By Direct Method)	1 A to 10 A	0.08 % to 0.20 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter (By Direct Method)	100 mA to 1 A	0.064 % to 0.082 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter (By Direct Method)	20 mA to 1 A	0.12 % to 0.24 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Dc High Voltage	Using High Voltage Probe With Digital Multimeter (By Direct Method)	1 KV to 30 KV	6.45 % to 6.40 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter (By Direct Method)	1 mv to 100 mv	0.48 % to 0.01 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter (By Direct Method)	10 V to 1000 V	0.018 % to 0.006 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter (By Direct Method)	100 mv to 10 V	0.01 % to 0.007 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Low Resistance	Using Digital Multimeter & Multifunction Calibrator (By V/I Method)	1 Milli ohm to 1 Ohm	1.65 % to 1.65 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using Digital Multimeter (By Direct Method)	1 Mohm to 100 Mohm	0.034 % to 0.93 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using Digital Multimeter (By Direct Method)	1 Ohm to 1 Mega Ohm	0.36 % to 0.02 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using Digital Multimeter (By Direct Method)	100 Mohm to 1 Gohm	3.50 % to 3.50 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator (by Direct Method)	1 A to 10 A	0.234 % to 0.143 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator (by Direct Method)	100 µA to 20 mA	0.25 % to 0.12 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	Using Multifunction Calibrator With Current Coil (by Direct Method)	10 A to 1000 A	3.3 % to 1.9 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Resistance	Using standard Mega Ohm Box (By Direct Method)	2 Gohm	3.47 %

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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Resistance	Using standard Megaohm Box (By Direct Method)	2 Mohm	3.47 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Resistance	Using standard Mega Ohm Box (By Direct Method)	20 Gohm	3.60 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Resistance	Using standard Megaohm Box (By Direct Method)	20 Mohm	3.47 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Resistance	Using standard Mega Ohm Box (By Direct Method)	200 Mohm	3.47 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance	Using standard Resistance (By Direct Method)	1 mohm	1.02 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance	Using standard Resistance (By Direct Method)	1 ohm	1.15 %

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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance	Using standard Resistance (By Direct Method)	10 mohm	0.60 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance	Using standard Resistance (By Direct Method)	10 Ohm	0.70 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance	Using standard Resistance (By Direct Method)	100 mohm	0.60 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Low Resistance	Using standard Resistance (By Direct Method)	100 ohm	0.58 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using standard Resistance (By Direct Method)	1 Kohm	0.58 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Standard Resistance & Decade Resistance Box (By Direct Method))	1 Ohm to 100 Kohm	0.82 % to 0.58 %

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52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Standard Resistance & Decade Resistance Box (By Direct Method)	100 Kohm to 1 Mohm	0.58 % to 0.58 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator (By Direct Method)	1 mv to 100 mv	1.94 % to 0.13 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction calibrator (By Direct Method)	100 mv to 1000 v	0.132 %
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator)RTD Pt-100	Using Digital Universal calibrator (By Direct Method)	(-)200 °C to 800 °C	0.49 °C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator)Thermocouple B-Type	Using Digital Universal calibrator (By Direct Method)	600 °C to 1800 °C	1.09 °C

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57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator)Thermocouple E-Type	Using Digital Universal calibrator (By Direct Method)	(-)200 °C to 1000 °C	0.72 °C
58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator)Thermocouple J-Type	Using Digital Universal calibrator (By Direct Method)	(-)200 °C to 1200 °C	0.50 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator)Thermocouple K-Type	Using Digital Universal calibrator (By Direct Method)	(-)100 °C to 1350 °C	0.60 °C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator)Thermocouple N-Type	Using Digital Universal calibrator (By Direct Method)	(-)100 °C to 1300 °C	0.46 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator)Thermocouple R-Type	Using Digital Universal calibrator (By Direct Method)	0 °C to 1750 °C	0.89 °C

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62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator)Thermocouple S-Type	Using Digital Universal calibrator (By Direct Method)	0 °C to 1750 °C	1.03 °C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator)Thermocouple T-Type	Using Digital Universal calibrator (By Direct Method)	(-)200 °C to 400 °C	0.50 °C
64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator) Thermocouple B-Type	Using Digital Universal calibrator (By Direct Method)	450 °C to 1800 °C	0.60 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator) Thermocouple E-Type	Using Digital Universal calibrator (By Direct Method)	(-)200 °C to 1000 °C	0.37 °C

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66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator) Thermocouple J-Type	Using Digital Universal calibrator (By Direct Method)	(-)200 °C to 1200 °C	0.36 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator) Thermocouple K-Type	Using Digital Universal calibrator (By Direct Method)	(-)200 °C to 1350 °C	0.36 °C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator) Thermocouple N-Type	Using Digital Universal calibrator (By Direct Method)	(-)200 °C to 1300 °C	0.36 °C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator) Thermocouple T-Type	Using Digital Universal calibrator (By Direct Method)	200 °C to 400 °C	0.36 °C

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70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator)Pt-100	Using Digital Universal calibrator (By Direct Method)	(-)200 °C to 800 °C	0.18 °C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator)Thermocouple R-Type	Using Digital Universal calibrator (By Direct Method)	0 °C to 1750 °C	0.60 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicator/Controller/ Calibrator)Thermocouple S-Type	Using Digital Universal calibrator (By Direct Method)	0 °C to 1750 °C	0.60 °C
73	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Digital Multimeter (By Direct Method)	10 Hz to 1 MHz	0.24 % to 0.011 %
74	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Stop watch / Timer (Digital/Analog)	Using Time Calibration standard (By Comparison Method)	1 Hour to 24 Hour	0.60 Sec. to 23 Sec

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75	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Stop watch / Timer (Digital/Analog)	Using Time Calibration standard (By Comparison Method)	1 Min. to 1 Hour	0.022 Sec. to 0.60 Sec.
76	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Stop watch / Timer (Digital/Analog)	Using Time Calibration Standard (By Comparison Method)	1 Sec. to 1 Min.	0.016 sec. to 0.60 sec.
77	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Digital Process Calibrator (By Direct Method)	1 Hz to 10 KHz	0.10 % to 0.06 %
78	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate : Flow Meters ,Rotameters (Medium-Liquid)	Using Transducer Based Portable Ultrasonic Flow Meter	2 m^3/hr to 1100 m^3/hr	2.93 %
79	MECHANICAL-ACCELERATION AND SPEED	RPM (Contact Type) Digital Tachometer	Using Digital Tachometer with RPM Source by Direct/Comparison Method	100 RPM to 6000 RPM	0.7 %
80	MECHANICAL-ACCELERATION AND SPEED	RPM (Contact Type) RPM Meter, RPM Indicator	Using Digital Tachometer with RPM Source by Direct/Comparison Method:	100 rpm to 6000 rpm	0.04%

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81	MECHANICAL-ACCELERATION AND SPEED	RPM (Contact Type) Digital Tachometer	Using Digital Tachometer with RPM Source by Direct/Comparison Method	10 RPM to 100 RPM	7.5 %
82	MECHANICAL-ACCELERATION AND SPEED	RPM (Contact Type) RPM Meter, RPM Indicator	Using Digital Tachometer with RPM Source by Direct/Comparison Method:	10 rpm to 100 rpm	7.5%
83	MECHANICAL-ACCELERATION AND SPEED	RPM (Non-Contact Type) Digital Tachometer, RPM Meter, RPM Indicator	Using Digital Tachometer with RPM Source by Direct/Comparison Method	100 RPM to 10000 RPM	0.4 %
84	MECHANICAL-ACCELERATION AND SPEED	RPM (Non-Contact Type) Digital Tachometer, RPM Meter, RPM Indicator	Using Digital Tachometer with RPM Source by Direct/Comparison Method	10000 rpm to 90000 rpm	0.040 %
85	MECHANICAL-ACCELERATION AND SPEED	RPM (Non-Contact Type) Indicator of Stroboscope/Centrifuge	Using Digital Tachometer by Direct/Comparison Method	100 rpm to 10000 rpm	0.04 %
86	MECHANICAL-ACCELERATION AND SPEED	RPM (Non-Contact Type) Indicator of Stroboscope / Centrifuge	Using Digital Tachometer by Direct/Comparison Method	10 rpm to 100 rpm	7.5 %

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87	MECHANICAL-ACCELERATION AND SPEED	RPM (Non-Contact Type) Indicator of Stroboscope/Centrifuge	Using Digital Tachometer by Direct/Comparison Method	10000 rpm to 90000 rpm	0.04 %
88	MECHANICAL-ACCELERATION AND SPEED	RPM (Non-Contact Type) Digital Tachometer, RPM Meter, RPM Indicator	Using Digital Tachometer with RPM Source by Direct/Comparison Method	10 RPM to 100 RPM	7.5 %
89	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure / Load gauge Pressure Gauge/Vacuum Gauge (Digital Analog), Pressure Switch, Pressure Transmitter, Manometer	Using Digital Pressure Gauge, Universal Calibrator(for Transmitter Output) & Hydraulic Comparator by Comparison Method as per DKD-R6-1	0 bar to 70 bar	0.093 bar
90	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure / Load gauge Pressure Gauge/Vacuum Gauge (Digital Analog), Pressure Switch, Pressure Transmitter, Manometer	Using Digital Pressure Gauge, Universal Calibrator(for Transmitter Output) & Hydraulic Comparator by Comparison Method as per DKD-R6-1	0 bar to 700 bar	0.15 bar

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91	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure / Load gauge Pressure Gauge/Vacuum Gauge (Digital Analog), Pressure Switch, Pressure Transmitter, Manometer	Using Digital Pressure Gauge, Universal Calibrator(for Transmitter Output) & Pneumatic Comparator by Comparison Method as per DKD-R6-1	-0.95 bar to 0 bar	0.0023 bar
92	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure / Load gauge Pressure Gauge/Vacuum Gauge (Digital Analog), Pressure Switch, Pressure Transmitter, Manometer	Using Digital Pressure Gauge, Universal Calibrator(for Transmitter Output) & Pressure Comparator by Comparison Method as per DKD-R6-1	0 bar to 7 bar	0.001 bar
93	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Mode :Compression Universal Testing Machine, Load Testing Machine, Spring Testing Machine, Flexural Testing Machine, Compression Testing Machine	Using Force Load Cell with Indicator by Direct/Comparison Method based on IS 1828 Part 1-2015	1 kN to 10 kN	0.24 %

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94	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Mode :Compression Universal Testing Machine, Load Testing Machine, Spring Testing Machine, Flexural Testing Machine, Compression Testing Machine	Using Force Load Cell with Indicator by Direct/Comparison Method based on IS 1828 Part 1-2015	10 kN to 100 kN	0.51 %
95	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Mode :Compression Universal Testing Machine, Load Testing Machine, Spring Testing Machine, Flexural Testing Machine, Compression Testing Machine	Using Force Load Cell with Indicator & Proving Ring by Direct/Comparison Method based on IS 1828 Part 1-2015	100 kN to 2000 kN	0.51 %
96	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Mode :Compression Universal Testing Machine, Load Testing Machine, Spring Testing Machine, Flexural Testing Machine, Compression Testing Machine	Using Force Load Cell with Indicator by Direct/Comparison Method based on IS 1828 Part 1-2015	100 N to 1000 N	0.7 %

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97	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Mode :Tension Universal Testing Machine, Load Testing Machine, Spring Testing Machine,Tensometer , Flextue Testing Machine, Tensile Testing Machine	Using Force Load Cell with Indicator by Direct/Comparison Method based on IS 1828 Part 1-2015	1 kN to 10 kN	0.70 %
98	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Mode :Tension Universal Testing Machine, Load Testing Machine, Spring Testing Machine,Tensometer , Flextue Testing Machine, Tensile Testing Machine	Using Force Load Cell with Indicator by Direct/Comparison Method based on IS 1828 Part 1-2015	10 kN to 100 kN	0.30 %
99	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Mode :Tension Universal Testing Machine, Load Testing Machine, Spring Testing Machine,Tensometer , Flextue Testing Machine, Tensile Testing Machine	Using Force Load Cell with Indicator by Direct/Comparison Method based on IS 1828 Part 1-2015	100 N to 1000 N	0.20 %
100	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=0.1 g and Coarser(Class III & Coarser)	Using F1 Accuracy Class Standard Weights As per OIML R-76-1	0 to 20 kg	0.3 g

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101	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=1 mg and Coarser(Class II & Coarser)	Using F1 Accuracy Class Standard Weights As per OIML R-76-1	0 to 1 kg	8 mg
102	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=10 mg and Coarser (Class II & Coarser)	Using F1 Accuracy Class Standard Weights As per OIML R-76-1	0 to 6 Kg	50 mg
103	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d= 1 g and Coarser(Class III & Coarser)	Using F1 Accuracy Class Standard Weights As per OIML R-76-1	0 to 30 kg	1.6 g
104	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d= 10 g and Coarser(Class IV & Coarser)	Using F1 Accuracy Class Standard Weights As per OIML R-76-1	0 to 100 kg	10 g
105	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=0.01 mg and Coarser(Class I & Coarser)	Using E2 Accuracy Class Standard Weights As per OIML R-76-1	0 to 62 g	0.09 mg
106	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance d=0.1 mg and Coarser(Class I & Coarser)	Using E2 Accuracy Class Standard Weights As per OIML R-76-1	0 to 220 g	0.4 mg
107	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental Chamber/Humidity Chamber @10 °C to 50 °C	Using Wire Less Logger With RH Sensor (Multi Position Calibration with minimum 9 sensors)	15 %RH to 95 %RH	2 %RH

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108	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity/ Temperature Indicator /Controller With sensor Of Environmental Chamber/Humidity Chamber	Using Digital temperature & Humidity Indicator With sensor (Single position Calibration)	10 %RH to 95 %RH @ 25°C	1.60 %RH
109	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature/Humidity Indicator /Controller/Data Logger With sensor, Thermo-Hygrometer (Dial/Digital)	Using Digital temperature & Humidity Indicator With sensor & Humidity Chamber (by Comparison Method)	22 %RH to 95 %RH@25 °C	1.60 %RH
110	THERMAL-TEMPERATURE	Liquid Bath, Refrigerator Environmental Chamber; BOD Incubator , Autoclave & Incubator (non-medical purpose only)	Using 16 Channel Universal Scanner Logger With RTD (pt-100) 3Wire Sensor (Multi Position Calibration with minimum 9 sensors)	0 °C to 100 °C	0.97 °C
111	THERMAL-TEMPERATURE	Liquid Bath, Deep Freezer, Refrigerator, Cold Chamber	Using 16 Channel Universal Scanner Logger With RTD (pt-100) 3Wire Sensor (Multi Position Calibration with minimum 9 sensors)	-40 °C to 0 °C	1.07 °C

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112	THERMAL-TEMPERATURE	Liquid Bath, Oven , Furnace, Environmental Chamber ; Autoclave & Incubator (non-medical purpose only)	Using 16 Channel Universal Scanner Logger With RTD (pt-100) 3Wire Sensor (Multi Position Calibration with minimum 9 sensors)	100 °C to 250 °C	0.96 °C
113	THERMAL-TEMPERATURE	Liquid-In-Glass Thermometer, RTD, Thermocouple, Temperature Transmitter With/Without Sensor, Digital Thermometer with sensor, Temperature Gauge, Data Logger/Scanner/Recorder	Using Digital Thermometer With RTD (PT-100) 4Wire Sensor, Universal Calibrator(for Transmitter Output)& Liquid Bath	100 °C to 250 °C	1.38 °C
114	THERMAL-TEMPERATURE	Liquid-In-Glass Thermometer, RTD, Thermocouple, Temperature Transmitter With/Without Sensor, Digital Thermometer with sensor, Temperature Gauge, Data Logger/Scanner/Recorder	Using Digital Thermometer With RTD (PT-100) 4Wire Sensor, Universal Calibrator(for Transmitter Output) & Temperature source((Methanol oil Bath & Silicon Oil)	-40 °C to 100 °C	1.01 °C

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115	THERMAL-TEMPERATURE	Temperature Indicator/Controller With Sensor Of Bath, Water Bath, Oven, Furnace, Chamber , Autoclave (non Medical Purpose only)	Using Digital Thermometer With RTD (PT-100) 4Wire Sensor (Single Position Calibration)	100 °C to 300 °C	0.59 °C
116	THERMAL-TEMPERATURE	Temperature Indicator/Controller With Sensor Of Bath, Deep Freezer Water Bath, Refrigerator, Cold Room, Oven, Chamber, BOD Incubator; Incubator & Autoclave (Non medical Purpose only)	Using Digital Thermometer With RTD (PT-100) 4Wire Sensor (Single Position Calibration)	-80 °C to 100 °C	0.26 °C
117	THERMAL-TEMPERATURE	Temperature Indicator/Controller With Sensor Of Dry Block Furnace/Heating Block/Muffle Furnace	Using Digital Thermometer With S Type Thermocouple (Single Position Calibration)	250 °C to 500 °C	1.09 °C
118	THERMAL-TEMPERATURE	Temperature Indicator/Controller With Sensor Of Dry Block Furnace/Heating Block/Muffle Furnace	Using Digital Thermometer With S Type Thermocouple (Single Position Calibration)	500 °C to 1200 °C	1.82 °C

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119	THERMAL-TEMPERATURE	Thermocouple, Temperature Indicator/Controller Digital Thermometer With/Without indicator, Temperature Gauge, Data Logger/Scanner/Recorder Temperature Transmitter With indicator	Using Digital Thermometer With S type Thermocouple, Universal Calibrator(for Transmitter Output)& Dry Block Furnace (By comparison Method)	250 °C to 500 °C	1.02 °C
120	THERMAL-TEMPERATURE	Thermocouple, Temperature Indicator/Controller Digital Thermometer With/Without indicator, Temperature Gauge, Data Logger/Scanner/Recorder Temperature Transmitter With indicator	Using Digital Thermometer With S Type Thermocouple, Universal Calibrator(for Transmitter Output) & Dry Block Furnace (By Direct Method)	500 °C to 1200 °C	2.16 °C

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