



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MULTITECH MEASUREMENT TECHNOLOGIES, NO:33/14, JAYAMMAL STREET, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 07/01/2022 to 06/01/2024 **Last Amended on** 08/02/2022

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-DIRECT CURRENT (Measure)	DC VOLTAGE	Fluke 6 1/2 DMM/ By Direct Method	10 V to 15 V	0.057 % to 0.39 %
2	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOTAGE	Fluke 6 1/2 DMM/ By Direct Method	1V to 10V	0.058% to 0.57%
3	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Multi function Calibrator/By Direct Method	0.1 mA to 1 mA	3.5 % to 0.38 %
4	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Multi function Calibrator/ By Direct Method	1 mA to 10 mA	0.38 % to 0.15 %
5	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Multi function Calibrator / By Direct Method	10 mA to 20 mA	0.15 % to 0.10 %



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6	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Multi function Calibrator / By Direct Method	1 V to 10 V	0.27 % to 0.05 %
7	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Multi function Calibrator / By Direct Method	10 mV to 100 mV	0.27 % to 0.05 %
8	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Multi function Calibrator / By Direct Method	100 mV to 1 V	0.05 % to 0.27 %
9	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	RESISTANCE	Multi function Calibrator / By Direct Method	100 Ohms to 400 Ohms	0.15 % to 0.04 %
10	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	RESISTANCE	Multi function Calibrator / By Direct Method	400 Ohms to 4000 Ohms	0.04%
11	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION (K Type)	Multi function Calibrator / By Direct Method	-100 °C to 1300 °C	1.16°C



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12	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION (N Type)	Multi function Calibrator / By Direct Method	-200 °C to 1300 °C	1.29°C
13	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION (PT-100)	Multi function Calibrator / By Direct Method	-100 °C to 600 °C	0.35°C
14	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION (R Type)	Multi function Calibrator / By Direct Method	200 °C to 1700 °C	2.45°C
15	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION (S Type)	Multi function Calibrator / By Direct Method	200 °C to 1760 °C	1.93°C
16	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION (T Type)	Multi function Calibrator / By Direct Method	-100 °C to 390 °C	0.84°C
17	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION(B Type)	Multi function Calibrator / By Direct Method	600 °C to 1800 °C	2.65°C



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18	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION(E Type)	Multi function Calibrator / By Direct Method	-200 °C to 900 °C	1.18°C
19	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION(J Type)	Multi function Calibrator / By Direct Method	-200 °C to 1200 °C	0.88°C
20	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	TIMER, STOP WATCH	Using Digital Timer /By Comparison Method	10 Sec to 7200 Sec	0.1 sec to 5.36 sec
21	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	FREQUENCY	Multi function Calibrator / By Direct Method	1 kHz to 50 kHz	0.25 % to 0.012 %
22	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	FREQUENCY	Multi function Calibrator / By Direct Method	10 Hz to 1 kHz	0.24 % to 0.25 %



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23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	2 D Height Guage L.C : 0.0001mm	Slip Gauges & Long Slip gauges / By Comparison Method	0 mm to 600 mm	6µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	BORE GAUGE (Transmission Only)L.C.:0.001 mm	Using Dial Calibration Tester / By Comparison Method	0 to 1 mm	1.4µm
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	COATING THICKNESS GAUGE	Using Master Foil / By Comparison Method	0.024 mm to 2 mm	11.9µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	COMPARATOR DIAL GAUGES L.C:0.01mm	Using Dial Calibration Tester / By Comparison Method	-50 µm to +50 µm	3.2µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	COMPARATOR STAND (Flatness of the Base)	Using Lever Dial Gauge & Optical flat / By Comparison Method	50 mm to 200 mm	3.4µm



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28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CYLINDRICAL MEASURING PIN	Using '0' Grade Slip Gauge & Electronic Probe with DRO / By Comparison Method	0.5 mm to 20 mm	1.5µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CYLINDRICAL SETTING MASTER (Diameter Only)	Carbide Slip Gauge & Long Steel Slip Gauge & Electronic Probe With DRO / By Comparison Method	25 mm to 100 mm	1.5µm
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DEPTH MICROMETER (Analog & Digital) L.C: 0.01 mm	Using "0' Grade Slip Gauge & Long Steel Slip gauges / By Comparison Method	0 to 150 mm	2.8µm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DIAL CALIBRATION TESTER L.C.:0.0002 mm	Using Electronic Probe With DRO / By Comparison Method	0 to 25 mm	0.8µm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DIAL CALIPER GAUGE / GROOVE DIAL GAUGE (Internal /External)L.C.:0.01mm	Using '0' Grade Slip Gauges & Slip Gauge accessories / By Comparison Method	5 mm to 60 mm	6.8µm



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33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DIAL SNAP GAUGE L.C 0.001mm	Using '0' Grade Slip gauges / By Comparison method	0 mm to 100 mm	1.5µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DIAL/DIGITAL THICKNESS GAUGE L.C: 0.01mm	Using '0' Grade Slip gauges / By Comparison Method	0 to 10 mm	4.0µm
35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	ENGINEERING PARALLELS	Using Electronic Probe with DRO & Lever Dial gauge / By Comparison Method	100 X 20 X 20 mm to 300 x 25 x 25 mm	4.0µm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	EXTERNAL MICROMETER (DIGITAL / ANALOG) L.C: 0.001mm	Using '0' Grade Slip Gauges & Long Steel Slip Gauges / By Comparison Method	0 mm to 100 mm	1.6µm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	EXTERNAL MICROMETER (DIGITAL / ANALOG)L.C: 0.01mm	Using '0' Grade Slip Gauges & Long Slip gauges / By Comparison method	100 mm to 1000 mm	10.2µm



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38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	FEELER GAUGE	Using Digital Micrometer / By Comparison method	0.05 mm to 1 mm	2.8µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	FLUSH PIN GAUGE	Using Electronic Probe With DRO / Slip Gauge By Comparison method	0.5 mm to 100 mm	2.6µm
40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	GROOVE /HOOK CALIPER (Analog /Digital) L.C: 0.01 mm	Using Caliper Checker / By Comparison Method	0 to 300 mm	10.1µm
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	HEIGHT GAUGE (Vernier/Digital/Dial) L.C: 0.01mm	Using Caliber Checker & Long Slip Gauge & Lever Dial / By Comparison method	0 to 1000 mm	13.2µm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	INSIDE MICROMETER (Caliper Type) L.C: 0.01mm	Using '0' Grade Slip Gauges & Slip Gauges Accessories / By Comparison method	5 mm to 50 mm	6.0µm



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43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	INTERNAL / STICK MICROMETER L.C: 0.01mm	Using '0' Grade Slip Gauges & Long Slip Gauges & Dial Gauge / By Comparison method	50 mm to 1000 mm	11.1µm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LEVER TYPE DIAL GAUGE L.C: 0.001mm	Using Dial Calibration Tester / By Comparison Method	0 mm to 0.14 mm	1.5µm
45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LEVER TYPE DIAL GAUGE L.C:0.01mm	Using Dial Calibration Tester / By Comparison Method	0 to 1 mm	5.9µm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LIMIT GAUGES (Length / Width / Depth)	Using Electronic Probe with DRO & Digital Micrometer & '0' Grade Slip Gauges / By Comparison Method	1 mm to 100 mm	2.4µm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LVDT/ ELECTRONIC PROBE WITH DIGITAL INDICATOR L.C: 0.0001mm	Using Carbide Slip Gauges / By Comparison Method	0 to 25 mm	0.7µm



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48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	MASTER FOILS FOR COATING THICKNESS MEASUREMENTS	Electronic Probe With DRO Direct	0.024 mm to 2 mm	1.3µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	MICROMETER HEAD L.C: 0.0002mm	Using Electronic Probe With DRO / By Comparison method	0 mm to 25 mm	0.8µm
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	MICROMETER SETTING ROD	Using '0' Grade Slip Gauges & Long Slip Gauges & Electronic Probe With DRO / By Comparison Method	25 mm to 1000 mm	7.9µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PISTOL CALIPER L.C: 0.1mm	Using '0' Grade Slip Gauges / By Comparison Method	0 to 70 mm	65.3µm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLAIN PLUG GAUGE / SETTING PLUG GAUGE	Using '0' Grade Slip Gauges & Long Slip Gauges & Electronic Probe With DRO / By Comparison Method	1 mm to 100 mm	1.4µm



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53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLAIN PLUG GAUGE / SETTING PLUG GAUGE	Using '0' Grade Slip Gauges & Long Slip Gauges & Electronic Probe With DRO / By Comparison Method	100 mm to 300 mm	3.7µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLUNGER TYPE DIAL GAUGE L.C: 0.001mm (Dial Type)	Using Dial Calibration Tester / Slip Gauge/ Comparison method	0 to 12.7 mm	1.5µm
55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLUNGER TYPE DIAL GAUGE L.C: 0.01mm (Dal /Diigital Type)	Using '0' Grade Slip Gauges / By Comparison method	0 to 50 mm	6.5µm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLUNGER TYPE DIAL GAUGE L.C: 0.01mm (Dial Type)	Using Dial Calibration Tester By Comparison method	0 to 25 mm	3.2µm
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SNAP GAUGE (Fixed / Adjustable)	Using '0' Grade Slip Gauges & Long Slip Gauges / By Comparison method	100 mm to 200 mm	2.5µm



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58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SNAP GAUGE (Fixed / Adjustable)	Using '0' Grade Slip Gauges & Long Slip Gauges / By Comparison method	200 mm to 300 mm	3.1µm
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SNAP GAUGE (Fixed / Adjustable)	Using '0' Grade Slip Gauges & Long Slip Gauges / By Comparison method	3 mm to 100 mm	1.4µm
60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SPIRIT LEVEL	Using Electronic Level / By Comparison method	Sensitivity 0.02 mm/m to Base Length 50 to 200 mm	0.010mm/M
61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SURFACE PLATE	Using Electronic level / By Comparison Method, Where L & W in mm	300 x 300 mm to 3000 X 1500 mm	1.2*v((L+W)/150)µm
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	THREAD MEASURING WIRE	Using '0' Grade Slip Gauges & Electronic Probe With DRO / By Comparison Method	0.17 mm to 6.35 mm	1.0µm



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63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	ULTRASONIC THICKNESS GAUGE L.C: 0.1mm	Using '0' Grade Steel Slip Gauges / By Comparison Method	0 to 50 mm	63.6µm
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-BLOCK (Flatness & Parallelism)	Using '0' Grade Slip Gauge & Mandrel & Lever Type dial Gauge / By Comparison Method	25 mm to 200 mm	3.6µm
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-BLOCK (Symmetrycity)	Using '0' Grade Slip Gauges & Mandrel & Lever Type dial Gauge / By Comparison Method	25 mm to 200 mm	4.1µm
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	VERNIER CALIPER (Analog / Digital / Dial) L.C: 0.01 mm	Using Caliper Checker / By Comparison Method	0 to 600 mm	11.1µm
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	VERNIER CALIPER (Analog / Digital / Dial) L.C: 0.01 mm	Using Caliper Checker & '0' Grade Long Steel Slip Gauges / By Comparison Method	0 to 1000 mm	13.1µm



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68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	VERNIER DEPTH GAUGE(Analog / Digital / Dial)L.C: 0.01 mm	Using Carbide Slip Gauges & Long Steel Slip Gauges & Granite surface plate / By Comparison Method	0 to 600 mm	8.3µm
69	MECHANICAL-PRESSURE INDICATING DEVICES	HYDRAULIC PRESSURE GAUGE(Digital Pressure Gauge/Analog Pressure Gauge/Transmitter & Transducer)	Using Pressure Calibrator / By Comparison Method	0 to 700 bar	0.58%rdg
70	MECHANICAL-PRESSURE INDICATING DEVICES	PNEUMATIC PRESSURE GAUGE(Digital Pressure Gauge / Analog Pressure Gauge / Transmitter & Transducer)	Using Pressure Calibrator / By Comparison Method	0 to 20 bar	0.6% rdg
71	MECHANICAL-PRESSURE INDICATING DEVICES	VACUUM-NEGATIVE PRESSUR(Digital Vacuum Gauge / Dial vacuum Gauge / Transmitter & Transducer)	Using Pressure Calibrator / By Comparison Method	-0.85 bar to 0	0.2% rdg.



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72	THERMAL-TEMPERATURE	RTD Sensor, Thermocouple ,RTD Sensor / Thermocouple With Indicator, Temperature Gauge , Digital Thermometer with Sensor, Temperature Transmitter With Sensor	Using S type Thermocouple, 6.5 Digital Multi Meter, Multi Function Calibrator & Dry Block Calibrator by Comparison method	250 °C to 600 °C	0.64°C
73	THERMAL-TEMPERATURE	RTD Sensor, Thermocouple, RTD sensor / Thermocouple With Indicator, Temperature Gauge , Digital Thermometer with Sensor, Temperature Transmitter With Sensor	Using RTD Sensor, 6.5 Digital Multi Meter, Multi Function Calibrator & Dry block Calibrator by Comparison method	-15 °C to 250 °C	0.21°C



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3348

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Validity

07/01/2022 to 06/01/2024

Last Amended on

08/02/2022

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)(±)
74	THERMAL-TEMPERATURE	Thermocouple, Thermocouple With Indicator, Temperature Gauge , Digital Thermometer with Sensor, Temperature Transmitter With Sensor	S type Thermocouple, 6.5 Digital Multi Meter, Multi Function Calibrator & Dry Block Calibrator by Comparison method	600 °C to 1200 °C	1.72°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

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Site Facility					
1	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Fluke 6 1/2 DMM/ By Direct Method	10 V to 15 V	0.057 % to 0.39 %
2	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOTAGE	Fluke 6 1/2 DMM/ By Direct Method	1V to 10V	0.058% to 0.57%
3	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Multi function Calibrator/By Direct Method	0.1 mA to 1 mA	3.5 % to 0.38 %
4	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Multi function Calibrator/ By Direct Method	1 mA to 10 mA	0.38 % to 0.15 %
5	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Multi function Calibrator / By Direct Method	10 mA to 20 mA	0.15 % to 0.10 %



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6	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Multi function Calibrator / By Direct Method	1 V to 10 V	0.27 % to 0.05 %
7	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Multi function Calibrator / By Direct Method	10 mV to 100 mV	0.27 % to 0.05 %
8	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Multi function Calibrator / By Direct Method	100 mV to 1 V	0.05 % to 0.27 %
9	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	RESISTANCE	Multi function Calibrator / By Direct Method	100 Ohms to 400 Ohms	0.15 % to 0.04 %
10	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	RESISTANCE	Multi function Calibrator / By Direct Method	400 Ohms to 4000 Ohms	0.04%
11	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION (K Type)	Multi function Calibrator / By Direct Method	-100 °C to 1300 °C	1.16°C



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12	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION (N Type)	Multi function Calibrator / By Direct Method	-200 °C to 1300 °C	1.29°C
13	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION (PT-100)	Multi function Calibrator / By Direct Method	-100 °C to 600 °C	0.35°C
14	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION (R Type)	Multi function Calibrator / By Direct Method	200 °C to 1700 °C	2.45°C
15	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION (S Type)	Multi function Calibrator / By Direct Method	200 °C to 1760 °C	1.93°C
16	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION (T Type)	Multi function Calibrator / By Direct Method	-100 °C to 390 °C	0.84°C
17	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION(B Type)	Multi function Calibrator / By Direct Method	600 °C to 1800 °C	2.65°C



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18	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION(E Type)	Multi function Calibrator / By Direct Method	-200 °C to 900 °C	1.18°C
19	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TEMPERATURE SIMULATION(J Type)	Multi function Calibrator / By Direct Method	-200 °C to 1200 °C	0.88°C
20	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	TIMER, STOP WATCH	Using Digital Timer /By Comparison Method	10 Sec to 7200 Sec	0.1 sec to 5.36 sec
21	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	FREQUENCY	Multi function Calibrator / By Direct Method	1 kHz to 50 kHz	0.25 % to 0.012 %
22	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	FREQUENCY	Multi function Calibrator / By Direct Method	10 Hz to 1 kHz	0.24 % to 0.25 %



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23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	2 D Height Guage L.C : 0.0001mm	Slip Gauges & Long Slip gauges / By Comparison Method	0 mm to 600 mm	6µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	BENCH CENTRE (Co-axial of Centers)	Using Master Mandrel & Lever Type Dial Gauge / By Comparison Method	125 mm to 300 mm	5.5µm
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SURFACE PLATE	Using Electronic level / By Comparison Method, Where L & W in mm	300 x 300 mm to 3000 X 1500 mm	1.2*v((L+W)/150)µm
26	MECHANICAL-PRESSURE INDICATING DEVICES	HYDRAULIC PRESSURE GAUGE(Digital Pressure Gauge/Analog Pressure Gauge/Transmitter & Transducer)	Using Pressure Calibrator / By Comparison Method	0 to 700 bar	0.58%rdg



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27	MECHANICAL-PRESSURE INDICATING DEVICES	PNEUMATIC PRESSURE GAUGE(Digital Pressure Gauge / Analog Pressure Gauge / Transmitter & Transducer)	Using Pressure Calibrator / By Comparison Method	0 to 20 bar	0.6% rdg
28	MECHANICAL-PRESSURE INDICATING DEVICES	VACUUM-NEGATIVE PRESSUR(Digital Vacuum Gauge / Dial vacuum Gauge / Transmitter & Transducer)	Using Pressure Calibrator / By Comparison Method	-0.85 bar to 0	0.2% rdg.
29	THERMAL-TEMPERATURE	Dry Block Calibrator, Temperature Bath, Hot Air Oven, Freezer, Incubator (for Non Medical Devices),Autoclave (For Non Medical Devices),Furnace-single point	Using RTD Sensor and Multi-Function Calibrator by Comparison method	-50 °C to 250 °C	0.39°C
30	THERMAL-TEMPERATURE	Dry Block Calibrator, Temperature Bath, Hot Air Oven, Furnace -single point	S type Thermocouple, Multi-Function Calibrator by Comparison Method	250 °C to 600 °C	0.66°C



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31	THERMAL-TEMPERATURE	Dry Block Calibrator, Temperature Bath, Hot Air Oven, Furnace -single point	S type Thermocouple, Multi-Function Calibrator by Comparison Method	600 °C to 1200 °C	1.92°C
32	THERMAL-TEMPERATURE	RTD Sensor, Thermocouple ,RTD Sensor / Thermocouple With Indicator, Temperature Gauge , Digital Thermometer with Sensor, Temperature Transmitter With Sensor	Using S type Thermocouple, 6.5 Digital Multi Meter, Multi Function Calibrator & Dry Block Calibrator by Comparison method	250 °C to 600 °C	0.64°C
33	THERMAL-TEMPERATURE	RTD Sensor, Thermocouple, RTD sensor / Thermocouple With Indicator, Temperature Gauge , Digital Thermometer with Sensor, Temperature Transmitter With Sensor	Using RTD Sensor, 6.5 Digital Multi Meter, Multi Function Calibrator & Dry block Calibrator by Comparison method	-15 °C to 250 °C	0.21°C



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34	THERMAL-TEMPERATURE	Thermocouple, Thermocouple With Indicator, Temperature Gauge , Digital Thermometer with Sensor, Temperature Transmitter With Sensor	S type Thermocouple, 6.5 Digital Multi Meter, Multi Function Calibrator & Dry Block Calibrator by Comparison method	600 °C to 1200 °C	1.72°C

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