



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name QTEX CALIBRATION LAB, QTEX INSTRUMENTS PVT. LTD., F-9, FIRST FLOOR, BPTP NEXT DOOR, SECTOR-76, GREATER FARIDABAD, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3003 Page No. : 1 / 24

Validity 07/06/2019 to 06/06/2021 Last Amended on 17/07/2019

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
Permanent Facility					
1	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @ 50 Hz	100 µA to 100 mA	0.164 % to 0.163 %	Using 6-1/2 DMM by Direct / Comparison Method
2	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @ 50 Hz	100 mA to 10 A	0.163 % to 0.25 %	Using 6-1/2 DMM by Direct / Comparison Method
3	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Resistance @ 1 kHz	1 Ohm to 10 k Ohm	0.35 % to 0.3 %	Using LCR Meter by Direct / Comparison Method
4	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage	10 V to 1000 V	0.11 %	Using 6-1/2 DMM by Direct / Comparison Method
5	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage	100 mV to 10 V	0.12 % to 0.11 %	Using 6-1/2 DMM by Direct / Comparison Method
6	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	Capacitance @ 1 kHz	100 pF to 1 µF	0.290 % to 0.331 %	Using LCR Meter by Direct / Comparison Method



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
7	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	100 mA to 10 A	0.064 % to 0.183 %	Using 6-1/2 DMM by Direct / Comparison Method
8	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	50 µA to 100 mA	0.120 % to 0.064 %	Using 6-1/2 DMM by Direct / Comparison Method
9	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	1 mV to 100 mV	0.487 % to 0.0091 %	Using 6-1/2 DMM by Direct / Comparison Method
10	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	10 V to 1000 V	0.0034 % to 0.0059 %	Using 6-1/2 DMM by Direct / Comparison Method
11	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	100 mV to 10 V	0.0091 % to 0.0034 %	Using 6-1/2 DMM by Direct / Comparison Method
12	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Inductance @ 1 kHz	100 µH to 10 H	0.323 % to 0.336 %	Using LCR Meter by Direct / Comparison Method
13	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Resistance (2 Wire)	1 G Ohm to 1 T Ohm	3.84 % to 4.31 %	Using Digital Insulation Tester by Direct / Comparison Method
14	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Resistance (2 Wire)	1 M Ohm to 100 M Ohm	0.004 % to 0.362 %	Using 6-1/2 DMM By Direct / Comparison Method
15	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Resistance (2 Wire)	10 Ohm to 1 M Ohm	0.02 % to 0.004 %	Using 6-1/2 DMM by Direct / Comparison Method
16	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Resistance (2 Wire)	100 M Ohm to 1000 M Ohm	0.362 % to 1.38 %	Using 6-1/2 DMM by Direct / Comparison Method



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17	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Resistance (4 Wire)	1 mOhm to 10 Ohm	0.41 % to 0.10 %	Using Digital Micro Ohm Meter by Direct Method
18	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Resistance (4 Wire)	50 µOhm to 1 mOhm	0.36 % to 0.41 %	Using Micro Ohm Meter by Direct Method
19	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	100 µA to 24 mA	0.579 % to 0.044 %	Using Multifunction Calibrator by Direct Method
20	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	1 mV to 90 mV	0.684 % to 0.036 %	Using Multifunction Process Calibrator by Direct Method
21	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	90 mV to 20 V	0.036 % to 0.046 %	Using Multifunction Calibrator by Direct Method
22	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance	15 Ohm to 4000 Ohm	0.06 %	Using Multifunction Calibrator by Direct Method
23	ELECTRO-TECHNICAL- MISCELLANEOUS (Measure)	Frequency	10 Hz to 1 MHz	0.07 % to 0.009 %	Using 6-1/2 DMM by Direct / Comparison Method
24	ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Indicator / Controller / Recorder): B-Type Thermocouple	600 °C to 1800 °C	2.5 °C	Using Digital Thermometer by Direct Method
25	ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Indicator / Controller / Recorder): B-Type Thermocouple	600 °C to 1800 °C	2.5 °C	Using Digital Thermometer by Direct Method



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
26	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Indicator / Controller / Recorder): E-Type Thermocouple	(-) 200 °C to 600 °C	0.8 °C	Using Digital Thermometer by Direct Method
27	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Indicator / Controller / Recorder): J-Type Thermocouple	-200 °C to 1200 °C	0.66 °C	Using Digital Thermometer by Direct Method
28	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Indicator / Controller / Recorder): K-Type Thermocouple	(-) 200 °C to 1300 °C	0.67 °C	Using Digital Thermometer by Direct Method
29	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Indicator / Controller / Recorder): N-Type Thermocouple	(-) 200 °C to 1300 °C	0.83 °C	Using Digital Thermometer by Direct Method
30	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Indicator / Controller / Recorder): RTD	(-) 200 to 500	0.47	Using Digital Thermometer by Direct Method
31	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Indicator / Controller / Recorder): R-Type Thermocouple	0 °C to 1700 °C	1.12 °C	Using Digital Thermometer by Direct Method



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(\pm)	Remarks
32	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Indicator / Controller / Recorder): S-Type Thermocouple	0 °C to 1700 °C	1.1 °C	Using Digital Thermometer by Direct Method
33	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Indicator / Controller / Recorder): T-Type Thermocouple	(-) 200 °C to 400 °C	0.75 °C to 0.68 °C	Using Digital Thermometer by Direct Method
34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller / Recorder): E-Type Thermocouple	(-) 200 °C to 600 °C	0.6 °C	Using Multifunction Process Calibrator by Direct Method
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller / Recorder): J-Type Thermocouple	(-) 200 °C to 1200 °C	0.47 °C	Using Multifunction Process Calibrator by Direct Method
36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller / Recorder): N-Type Thermocouple	(-) 200 °C to 1300 °C	0.7 °C	Using Multifunction Process Calibrator by Direct Method
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller / Recorder): RTD	(-) 200 °C to 650 °C	0.41 °C	Using Multifunction Process Calibrator by Direct Method
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller / Recorder): R-Type Thermocouple	0 °C to 1700 °C	0.8 °C	Using Multifunction Process Calibrator by Direct Method



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39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller / Recorder): S-Type Thermocouple	0 °C to 1700 °C	0.7 °C	Using Multifunction Process Calibrator
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller / Recorder): T-Type Thermocouple	(-) 200 °C to 400 °C	0.47 °C	Using Multifunction Process Calibrator by Direct Method
41	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	10 Hz to 1 MHz	0.07 % to 0.009 %	Using 6-1/2 DMM by Direct / Comparison Method
42	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital / Analog)	10 ms to 24 hour	0.7 % to 0.035 %	Using Digital Time Calibrator by Direct / Comparison Method
43	MECHANICAL-ACCELERATION AND SPEED	Contact Type Tachometer	10 RPM to 1000 RPM	0.65 RPM to 1.5 RPM	Using RPM Source & Digital Tachometer by Comparison Method
44	MECHANICAL-ACCELERATION AND SPEED	Contact Type Tachometer	1000 RPM to 15000 RPM	1.5 RPM to 5 RPM	Using RPM Source & Digital Tachometer by Comparison Method
45	MECHANICAL-ACCELERATION AND SPEED	Non-Contact Type Tachometer	30000 RPM to 90000 RPM	4.04 RPM to 12.02 RPM	Using Non-Contact Type Tachometer by Comparison Method
46	MECHANICAL-ACCELERATION AND SPEED	Non-Contact Type Tachometer (RPM or Speed Indicator / Meter / Source)	10 RPM to 500 RPM	0.69 RPM to 1.13 RPM	Using Digital Tachometer & Rotating Disk with Reflecting Tape by Direct / Comparison Method



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47	MECHANICAL-ACCELERATION AND SPEED	Non-Contact Type Tachometer (RPM or Speed Indicator / Meter / Source)	500 RPM to 5000 RPM	1.13 RPM to 2.40 RPM	Using Digital Tachometer & Rotating Disk with Reflecting Tape by Direct / Comparison Method
48	MECHANICAL-ACCELERATION AND SPEED	Non-Contact Type Tachometer (RPM or Speed Indicator / Meter / Source)	5000 RPM to 30000 RPM	2.40 RPM to 4.04 RPM	Using Digital Tachometer & Rotating Disk with Reflecting Tape by Direct / Comparison Method
49	MECHANICAL-ACOUSTICS	Sound Level Meter	94 dB & 114 dB @ 1 kHz	0.4 dB	Using Sound Calibrator
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digimatic (L.C.: 0.01 mm)	0 to 300 mm	14 µm	Using Slip Gauge Set Grade 0 and Caliper Checker
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digimatic (L.C.: 0.01 mm)	300 mm to 600 mm	20.4 µm	Using Slip Gauge Set Grade 0 and Caliper Checker
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge / Coat Meter	0 to 700 µm	3.5 µm	Using Standard Foil
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer	0 to 25 mm	7 µm	Using Slip Gauge Set Grade 0, Accessories Set & Caliper Checker



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54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.01 mm)	0 to 50 mm	11.3 µm	Using Slip Grade Set Grade '0'
55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Up to 100 mm	1.5 µm	Using Slip Gauge Set Grade '0'
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Up to 1 mm	2.5 µm	Using Digital Micrometer
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Digital / Dial (L.C.: 0.01 mm)	0 to 300 mm	14 µm	Using Slip Gauge Set Grade '0', Caliper Checker & Dial Test Indicator
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Digital / Dial (L.C.: 0.01 mm)	0 to 600 mm	14.2 µm	Using Slip Gauge Set Grade '0', Caliper Checker & Dial Test Indicator
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge (Dial / Digital)	Up to 100 mm	2.2 µm	using Slip Gauge Set Grade '0'



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60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge	0 to 100 mm	68.5 µm	Using Slip Gauge Set Grade '0'
61	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Digital & Analog): Hydraulic	0 bar to 70 bar	0.14 bar	Using Digital Pressure Gauge & Pressure Comparator b Comparison Method
62	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Digital & Analog): Hydraulic	0 bar to 700 bar	1.42 bar	Using Digital Pressure Gauge & Pressure Comparator by Comparison Method
63	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Digital & Analog): Pneumatic	0 bar to 30 bar	0.07 bar	Using Digital Pressure Gauge & Pressure Comparator by Comparison Method
64	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Digital & Analog)	(-) 0.9 bar to 0 bar	0.046 bar	Using Digital Pressure Gauge by Comparison Method
65	THERMAL-MISCELLANEOUS	Digital & Analog Hygrometer, RH Sensor / Transmitter with Controller / Indicator / Recorder / Data Logger	30 % RH to 95 % RH @ 25°C	1.5 % RH	Using RH Sensor with Indicator, RH Calibrator & 6-1/2 DMM by Comparison Method
66	THERMAL-MISCELLANEOUS	Freezer, Oven, Cold Chamber, Temperature Indicator of Centrifuge Chamber / Incubator/ BOD Incubator	(-) 80 °C to 250 °C	0.6 °C	Using Multi-Point Data Logger with RTD (PT-100) Sensor by Multi-Position Mapping Method



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67	THERMAL- MISCELLANEOUS	Humidity Chamber / Environment Chamber	10 % RH to 95 % RH @ 25°C	2 % RH	Using Standard RH Transmitter Sensor & Data Logger by Multi-Position Mapping Method
68	THERMAL- MISCELLANEOUS	Indicator of Cryobath	(-) 196 °C	0.4 °C	Using 4 Wire RTD (PT-100), 6-1/2 DMM by Comparison Method (Single Point Calibration)
69	THERMAL- MISCELLANEOUS	Indicator or Humidity Chamber / Generation Chamber	10 % RH to 95 % RH @ 25°C	1.5 % RH	Using RH Sensor with Indicator by Comparison Method (Single Point Calibration)
70	THERMAL- MISCELLANEOUS	Industrial Furnace, Oven	250 °C to 500 °C	1.5 °C	Using Multi-Point Data Logger with N-Type Thermocouple by Multi-Position Mapping Method
71	THERMAL- MISCELLANEOUS	Industrial Furnace, Oven, Spatial Thermal Mapping	500 °C to 1200 °C	3.8 °C	Using Multi-Point Data Logger with N-Type Thermocouple by Multi-Position Mapping Method
72	THERMAL- MISCELLANEOUS	Radiation Pyrometer (Non-Contact Type)	50 °C to 900 °C	3.8 °C	Using Radiation Pyrometer & Black Body Source by Comparison Method



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73	THERMAL- MISCELLANEOUS	Temperature Gauge, Digital Thermometer, Thermocouple with & without Controller / Indicator / Data Logger / Recorder / Transmitter	700 °C to 1200 °C	2.75 °C	Using S-Type Thermocouple with 6-1/2 DMM & Dry Block Furnace by Comparison Method
74	THERMAL- MISCELLANEOUS	Temperature Gauge, Digital Thermometer, RTD, Thermocouple with & without Controller / Indicator / Data Logger / Recorder / Transmitter	(-) 196 °C	0.4 °C	Using 4 Wire RTD (PT-100) with 6-1/2 DMM & Cryobath (Liquid Nitrogen) by Comparison Method
75	THERMAL- MISCELLANEOUS	Temperature Gauge, Digital Thermometer, RTD, Thermocouple with & without Controller / Indicator / Data Logger / Recorder / Transmitter	250 °C to 300 °C	0.4 °C	Using 4 Wire RTD (PT-100) with 6-1/2 DMM & Dry Block Furnace by Comparison Method
76	THERMAL- MISCELLANEOUS	Temperature Gauge, Digital Thermometer, RTD, Thermocouple with & without Controller / Indicator / Data Logger / Recorder / Transmitter	300 °C to 700 °C	1.75 °C	Using S-Type Thermocouple with 6-1/2 DMM & Dry Block Furnace by Comparison Method



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77	THERMAL- MISCELLANEOUS	Temperature Gauge, Glass / Digital Thermometer, RTD, Thermocouple with & without Controller / Indicator / Data Logger / Recorder / Transmitter	(-) 40 °C to 50 °C	0.3 °C	Using 4 Wire RTD (PT-100) with 6-1/2 DMM & Low Temperature Bath by Comparison Method
78	THERMAL- MISCELLANEOUS	Temperature Gauge, Glass / Digital Thermometer, RTD, Thermocouple with & without Controller / Indicator / Data Logger / Recorder / Transmitter	50 °C to 250 °C	0.3 °C	Using 4 Wire RTD (PT-100) with 6-1/2 DMM & Oil Temperature Bath By Comparison Method
79	THERMAL- MISCELLANEOUS	Temperature Indicator of Freezer, Oven, Environment Chamber, Incubator, Liquid Bath, BOD Incubator, Dry Block Furnace	(-) 80 °C to (-) 40 °C	0.4 °C	Using 4 Wire RTD (PT-100) with 6-1/2 DMM by Comparison Method (Single Point Calibration)
80	THERMAL- MISCELLANEOUS	Temperature Indicator of Freezer, Oven, Environment Chamber, Incubator, Liquid Bath, Oil Bath, BOD Incubator, Dry Block Furnace	(-) 40 °C to 300 °C	0.4 °C	Using 4 Wire RTD (PT-100) with 6-1/2 DMM by Comparison Method (Single Point Calibration)



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81	THERMAL- MISCELLANEOUS	Temperature Indicator of Muffle Furnace, Dry Block Furnace	300 °C to 700 °C	1.75 °C	Using S-Type Thermocouple with 6-1/2 DMM by Comparison Method (Single Point Calibration)



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Site Facility					
1	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @ 50 Hz	100 µA to 100 mA	0.164 % to 0.163 %	Using 6-1/2 DMM by Direct / Comparison Method
2	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @ 50 Hz	100 mA to 10 A	0.163 % to 0.25 %	Using 6-1/2 DMM by Direct / Comparison Method
3	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC High Current @ 50 Hz	10 A to 1000 A	1.2 % to 1.02 %	Using 6-1/2 DMM with Current Transformer by Direct Method
4	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC High Voltage @ 50 Hz	1 kV to 28 kV	2.90 % to 2.67 %	Using HV Probe with DMM by Direct Method
5	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Resistance @ 1 kHz	1 Ohm to 10 k Ohm	0.35 % to 0.3 %	Using LCR Meter by Direct / Comparison Method
6	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage	10 V to 1000 V	0.11 %	Using 6-1/2 DMM by Direct / Comparison Method



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(\pm)	Remarks
7	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage	100 mV to 10 V	0.12 % to 0.11 %	Using 6-1/2 DMM by Direct / Comparison Method
8	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	Capacitance @ 1 kHz	100 pF to 1 μ F	0.290 % to 0.331 %	Using LCR Meter by Direct / Comparison Method
9	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	100 mA to 10 A	0.064 % to 0.183 %	Using 6-1/2 DMM by Direct / Comparison Method
10	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	50 μ A to 100 mA	0.120 % to 0.064 %	Using 6-1/2 DMM by Direct / Comparison Method
11	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC High Current	10 A to 750 A	1.25 % to 1.28 %	Using 6-1/2 DMM with Shunt by Direct Method
12	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC High Voltage	1 kV to 37 kV	2.7 % to 3.0 %	Using HV Probe with DMM by Direct Method
13	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	1 mV to 100 mV	0.487 % to 0.0091 %	Using 6-1/2 DMM by Direct / Comparison Method
14	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	10 V to 1000 V	0.0034 % to 0.0059 %	Using 6-1/2 DMM by Direct / Comparison Method
15	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	100 mV to 10 V	0.0091 % to 0.0034 %	Using 6-1/2 DMM by Direct / Comparison Method



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
16	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Inductance @ 1 kHz	100 µH to 10 H	0.323 % to 0.336 %	Using LCR Meter by Direct / Comparison Method
17	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Resistance (2 Wire)	1 G Ohm to 1 T Ohm	3.84 % to 4.31 %	Using Digital Insulation Tester by Direct / Comparison Method
18	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Resistance (2 Wire)	1 M Ohm to 100 M Ohm	0.004 % to 0.362 %	Using 6-1/2 DMM By Direct / Comparison Method
19	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Resistance (2 Wire)	10 Ohm to 1 M Ohm	0.02 % to 0.004 %	Using 6-1/2 DMM by Direct / Comparison Method
20	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Resistance (2 Wire)	100 M Ohm to 1000 M Ohm	0.362 % to 1.38 %	Using 6-1/2 DMM by Direct / Comparison Method
21	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Resistance (4 Wire)	1 mOhm to 10 Ohm	0.41 % to 0.10 %	Using Digital Micro Ohm Meter by Direct Method
22	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Current	100 µA to 24 mA	0.579 % to 0.044 %	Using Multifunction Calibrator by Direct Method
23	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	1 mV to 90 mV	0.684 % to 0.036 %	Using Multifunction Process Calibrator by Direct Method
24	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	90 mV to 20 V	0.036 % to 0.046 %	Using Multifunction Calibrator by Direct Method
25	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Resistance	15 Ohm to 4000 Ohm	0.06 %	Using Multifunction Calibrator by Direct Method



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
26	ELECTRO-TECHNICAL-MISCELLANEOUS (Measure)	Frequency	10 Hz to 1 MHz	0.07 % to 0.009 %	Using 6-1/2 DMM by Direct / Comparison Method
27	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Indicator / Controller / Recorder): B-Type Thermocouple	600 °C to 1800 °C	2.5 °C	Using Digital Thermometer by Direct Method
28	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Indicator / Controller / Recorder): B-Type Thermocouple	600 °C to 1800 °C	2.5 °C	Using Digital Thermometer by Direct Method
29	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Indicator / Controller / Recorder): E-Type Thermocouple	(-) 200 °C to 600 °C	0.8 °C	Using Digital Thermometer by Direct Method
30	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Indicator / Controller / Recorder): J-Type Thermocouple	-200 °C to 1200 °C	0.66 °C	Using Digital Thermometer by Direct Method
31	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Indicator / Controller / Recorder): K-Type Thermocouple	(-) 200 °C to 1300 °C	0.67 °C	Using Digital Thermometer by Direct Method



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(\pm)	Remarks
32	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Indicator / Controller / Recorder): N-Type Thermocouple	(-) 200 °C to 1300 °C	0.83 °C	Using Digital Thermometer by Direct Method
33	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Indicator / Controller / Recorder): RTD	(-) 200 to 500	0.47	Using Digital Thermometer by Direct Method
34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Indicator / Controller / Recorder): R-Type Thermocouple	0 °C to 1700 °C	1.12 °C	Using Digital Thermometer by Direct Method
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Indicator / Controller / Recorder): S-Type Thermocouple	0 °C to 1700 °C	1.1 °C	Using Digital Thermometer by Direct Method
36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Indicator / Controller / Recorder): T-Type Thermocouple	(-) 200 °C to 400 °C	0.75 °C to 0.68 °C	Using Digital Thermometer by Direct Method
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller / Recorder): E-Type Thermocouple	(-) 200 °C to 600 °C	0.6 °C	Using Multifunction Process Calibrator by Direct Method
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller / Recorder): J-Type Thermocouple	(-) 200 °C to 1200 °C	0.47 °C	Using Multifunction Process Calibrator by Direct Method



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller / Recorder): N-Type Thermocouple	(-) 200 °C to 1300 °C	0.7 °C	Using Multifunction Process Calibrator by Direct Method
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller / Recorder): RTD	(-) 200 °C to 650 °C	0.41 °C	Using Multifunction Process Calibrator by Direct Method
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller / Recorder): R-Type Thermocouple	0 °C to 1700 °C	0.8 °C	Using Multifunction Process Calibrator by Direct Method
42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller / Recorder): S-Type Thermocouple	0 °C to 1700 °C	0.7 °C	Using Multifunction Process Calibrator
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator / Controller / Recorder): T-Type Thermocouple	(-) 200 °C to 400 °C	0.47 °C	Using Multifunction Process Calibrator by Direct Method
44	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	10 Hz to 1 MHz	0.07 % to 0.009 %	Using 6-1/2 DMM by Direct / Comparison Method
45	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Timer / Stop Watch (Digital / Analog)	10 ms to 24 hour	0.7 % to 0.035 %	Using Digital Time Calibrator by Direct / Comparison Method
46	MECHANICAL-ACCELERATION AND SPEED	Contact Type Tachometer	10 RPM to 1000 RPM	0.65 RPM to 1.5 RPM	Using RPM Source & Digital Tachometer by Comparison Method



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
47	MECHANICAL-ACCELERATION AND SPEED	Contact Type Tachometer	1000 RPM to 15000 RPM	1.5 RPM to 5 RPM	Using RPM Source & Digital Tachometer by Comparison Method
48	MECHANICAL-ACCELERATION AND SPEED	Non-Contact Type Tachometer	30000 RPM to 90000 RPM	4.04 RPM to 12.02 RPM	Using Non-Contact Type Tachometer by COmparison Method
49	MECHANICAL-ACCELERATION AND SPEED	Non-Contact Type Tachometer (RPM or Speed Indicator / Meter / Source)	10 RPM to 500 RPM	0.69 RPM to 1.13 RPM	Using Digital Tachometer & Rotating Disk with Reflecting Tape by Direct / Comparison Method
50	MECHANICAL-ACCELERATION AND SPEED	Non-Contact Type Tachometer (RPM or Speed Indicator / Meter / Source)	500 RPM to 5000 RPM	1.13 RPM to 2.40 RPM	Using Digital Tachometer & Rotating Disk with Reflecting Tape by Direct / Comparison Method
51	MECHANICAL-ACCELERATION AND SPEED	Non-Contact Type Tachometer (RPM or Speed Indicator / Meter / Source)	5000 RPM to 30000 RPM	2.40 RPM to 4.04 RPM	Using Digital Tachometer & Rotating Disk with Reflecting Tape by Direct / Comparison Method
52	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Digital & Analog): Hydraulic	0 bar to 70 bar	0.14 bar	Using Digital Pressure Gauge & Pressure Comparator b Comparison Method
53	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Digital & Analog): Hydraulic	0 bar to 700 bar	1.42 bar	Using Digital Pressure Gauge & Pressure Comparator by Comparison Method



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
54	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Digital & Analog): Pneumatic	0 bar to 30 bar	0.07 bar	Using Digital Pressure Gauge & Pressure Comparator by Comparison Method
55	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Digital & Analog)	(-) 0.9 bar to 0 bar	0.046 bar	Using Digital Pressure Gauge by Comparison Method
56	THERMAL-MISCELLANEOUS	Digital & Analog Hygrometer, RH Sensor / Transmitter with Controller / Indicator / Recorder / Data Logger	30 % RH to 95 % RH @ 25°C	1.5 % RH	Using RH Sensor with Indicator, RH Calibrator & 6-1/2 DMM by Comparison Method
57	THERMAL-MISCELLANEOUS	Freezer, Oven, Cold Chamber, Temperature Indicator of Centrifuge Chamber / Incubator/ BOD Incubator	(-) 80 °C to 250 °C	0.6 °C	Using Multi-Point Data Logger with RTD (PT-100) Sensor by Multi-Position Mapping Method
58	THERMAL-MISCELLANEOUS	Humidity Chamber / Environment Chamber	10 % RH to 95 % RH @ 25°C	2 % RH	Using Standard RH Transmitter Sensor & Data Logger by Multi-Position Mapping Method
59	THERMAL-MISCELLANEOUS	Indicator of Cryobath	(-) 196 °C	0.4 °C	Using 4 Wire RTD (PT-100), 6-1/2 DMM by Comparison Method (Single Point Calibration)
60	THERMAL-MISCELLANEOUS	Indicator or Humidity Chamber / Generation Chamber	10 % RH to 95 % RH @ 25°C	1.5 % RH	Using RH Sensor with Indicator by Comparison Method (Single Point Calibration)



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
61	THERMAL- MISCELLANEOUS	Industrial Furnace, Oven	250 °C to 500 °C	1.5 °C	Using Multi-Point Data Logger with N-Type Thermocouple by Multi-Position Mapping Method
62	THERMAL- MISCELLANEOUS	Industrial Furnace, Oven, Spatial Thermal Mapping	500 °C to 1200 °C	3.8 °C	Using Multi-Point Data Logger with N-Type Thermocouple by Multi-Position Mapping Method
63	THERMAL- MISCELLANEOUS	Temperature Gauge, Digital Thermometer, Thermocouple with & without Controller / Indicator / Data Logger / Recorder / Transmitter	700 °C to 1200 °C	2.75 °C	Using S-Type Thermocouple with 6-1/2 DMM & Dry Block Furnace by Comparison Method
64	THERMAL- MISCELLANEOUS	Temperature Gauge, Digital Thermometer, RTD, Thermocouple with & without Controller / Indicator / Data Logger / Recorder / Transmitter	(-) 196 °C	0.4 °C	Using 4 Wire RTD (PT-100) with 6-1/2 DMM & Cryobath (Liquid Nitrogen) by Comparison Method
65	THERMAL- MISCELLANEOUS	Temperature Gauge, Digital Thermometer, RTD, Thermocouple with & without Controller / Indicator / Data Logger / Recorder / Transmitter	250 °C to 300 °C	0.4 °C	Using 4 Wire RTD (PT-100) with 6-1/2 DMM & Dry Block Furnace by Comparison Method



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
66	THERMAL- MISCELLANEOUS	Temperature Gauge, Digital Thermometer, RTD, Thermocouple with & without Controller / Indicator / Data Logger / Recorder / Transmitter	300 °C to 700 °C	1.75 °C	Using S-Type Thermocouple with 6- 1/2 DMM & Dry Block Furnace by Comparison Method
67	THERMAL- MISCELLANEOUS	Temperature Gauge, Glass / Digital Thermometer, RTD, Thermocouple with & without Controller / Indicator / Data Logger / Recorder / Transmitter	(-) 40 °C to 50 °C	0.3 °C	Using 4 Wire RTD (PT- 100) with 6-1/2 DMM & Low Temperature Bath by Comparison Method
68	THERMAL- MISCELLANEOUS	Temperature Gauge, Glass / Digital Thermometer, RTD, Thermocouple with & without Controller / Indicator / Data Logger / Recorder / Transmitter	50 °C to 250 °C	0.3 °C	Using 4 Wire RTD (PT- 100) with 6-1/2 DMM & Oil Temperature Bath By Comparison Method
69	THERMAL- MISCELLANEOUS	Temperature Indicator of Freezer, Oven, Environment Chamber, Incubator, Liquid Bath, BOD Incubator, Dry Block Furnace	(-) 80 °C to (-) 40 °C	0.4 °C	Using 4 Wire RTD (PT- 100) with 6-1/2 DMM by Comparison Method (Single Point Calibration)



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
70	THERMAL- MISCELLANEOUS	Temperature Indicator of Freezer, Oven, Environment Chamber, Incubator, Liquid Bath, Oil Bath, BOD Incubator, Dry Block Furnace	(-) 40 °C to 300 °C	0.4 °C	Using 4 Wire RTD (PT- 100) with 6-1/2 DMM by Comparison Method (Single Point Calibration)
71	THERMAL- MISCELLANEOUS	Temperature Indicator of Muffle Furnace, Dry Block Furnace	300 °C to 700 °C	1.75 °C	Using S-Type Thermocouple with 6- 1/2 DMM by Comparison Method (Single Point Calibration)