National Accreditation Board for Testing and Calibration Laboratories

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
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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6.5 Digital Multimeter by Direct Method	100 µA to 100 mA	0.2 % to 0.2 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6.5 Digital Multimeter by Direct Method	100 mA to 10 A	0.2 % to 0.25 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance @ 1kHz	Using Digital LCR Meter by DirectMethod	1 ohm to 10 kohm	0.35 % to 0.35 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6.5 Digital Multimeter by Direct Method	10 V to 1000 V	0.11%

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6.5 Digital Multimeter by Direct Method	100 mV to 10 V	0.12 % to 0.11 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1kHz	Using Digital LCR Meter by Direct Method	100 pF to 1 µF	0.35 % to 0.38 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 1 kHz	Using Digital LCR Meter by Direct Method	100 µH to 10 H	0.4 % to 0.4 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@ 50Hz	Using 5.5 Digital Multifunction Calibrator by Direct Method	100 µA to 20 mA	0.1 % to 0.15 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@ 50Hz	Using 5.5 Digital Multifunction Calibrator by Direct Method	2 A to 10 A	0.85 % to 0.55 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@ 50Hz	Using 5.5 Digital Multifunction Calibrator by Direct Method	20 mA to 2 A	0.15 % to 0.85 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current @50 Hz	Using 5.5 Digital Multifunction Calibrator with Current Coil by Direct Method	10 A to 1000 A	1.1%
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using 5.5 Digital Multifunction Calibrator by Direct Method	1 mV to 200 mV	0.9 % to 0.1 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using 5.5 Digital Multifunction Calibrator by Direct Method	200 mV to 200 V	0.1 % to 0.085 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using 5.5 Digital Multifunction Calibrator by Direct Method	200 V to 1000 V	0.085 % to 0.12 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6.5 Digital Multimeter by Direct Method	100 mA to 10 A	0.064 % to 0.19 %

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16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6.5 Digital Multimeter by Direct Method	50 µA to 100 mA	0.120 % to 0.07 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6.5 Digital Multimeter by Direct Method	1 mV to 100 mV	0.487 % to 0.01 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6.5 Digital Multimeter by Direct Method	10 V to 1000 V	0.01 % to 0.07 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6.5 Digital Multimeter by Direct Method	100 mV to 10 V	0.01 % to 0.01 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using Digital Insulation Tester by Direct Method	1 Gohm to 1 Tohm	3.84 % to 4.31 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6.5 Digital Multimeter by Direct Method	1 Mohm to 100 Mohm	0.02 % to 0.362 %

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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6.5 Digital Multimeter by Direct Method	10 ohm to 1 Mohm	0.02 % to 0.01 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6.5 Digital Multimeter by Direct Method	100 Mohm to 1000 Mohm	0.362 % to 1.38 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using Digital Micro Ohm Meter by Direct Method	1 mohm to 10 ohm	0.41 % to 0.10 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using Digital Micro Ohm Meter by Direct Method	50 µohm to 1 mohm	1.4 % to 0.41 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5.5 Digital Multifunction Calibrator by Direct Method	100 µA to 20 mA	1.0 % to 0.1 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5.5 Digital Multifunction Calibrator by Direct Method	2 A to 10 A	0.15 % to 0.1 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5.5 Digital Multifunction Calibrator by Direct Method	20 mA to 2 A	0.1 % to 0.15 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	Using 5.5 Digital Multifunction Calibrator with Current Coil by Direct Method	10 A to 1000 A	0.1 % to 0.65 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5.5 Digital Multifunction Calibrator by Direct Method	1 mV to 200 mV	0.72 % to 0.01 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Process Calibrator by Direct Method	1 mV to 90 mV	0.684 % to 0.036 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5.5 Digital Multifunction Calibrator by Direct Method	200 mV to 200 V	0.01 % to 0.025 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5.5 Digital Multifunction Calibrator by Direct Method	200 V to 1000 V	0.025 % to 0.01 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	90 mV to 20 V	0.036 % to 0.046 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Decade Resistance Box By Direct Method	1 Mohm to 100 Mohm	0.03 % to 0.42 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	1 ohm to 1 Mohm	0.15 % to 0.03 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	100 Mohm to 1 Gohm	0.42 % to 1.5 %
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	TemperatureSimulation (Indicator/ Controller /Recorder): B-TypeThermocouple	Using Digital Thermometer by Direct Method	600 °C to 1800 °C	2.5°C
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	TemperatureSimulation (Indicator/ Controller /Recorder): E-TypeThermocouple	Using Digital Thermometer by Direct Method	-200 °C to 600 °C	0.9°C

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40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	TemperatureSimulation (Indicator/ Controller /Recorder): K-TypeThermocouple	Using Digital Thermometer by Direct Method	-200 °C to 1300 °C	0.7°C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	TemperatureSimulation (Indicator/ Controller /Recorder): N-TypeThermocouple	Using Digital Thermometer by Direct Method	-200 °C to 1300 °C	0.83°C
42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	TemperatureSimulation (Indicator/ Controller /Recorder): RTD	Using Digital Thermometer by Direct Method	-200 °C to 500 °C	2.2°C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	TemperatureSimulation (Indicator/ Controller /Recorder): S-TypeThermocouple	Using Digital Thermometer by Direct Method	0 to 1700 °C	1.3°C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	TemperatureSimulation (Indicator/ Controller /Recorder): T-TypeThermocouple	Using Digital Thermometer by Direct Method	-200 °C to 400 °C	0.75°C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	TemperatureSimulation (Indicator/ Controller /Recorder): J-TypeThermocouple	Using Digital Thermometer by Direct Method	-200 °C to 1200 °C	0.68°C

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46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	TemperatureSimulation (Indicator/ Controller /Recorder): R-TypeThermocouple	Using Digital Thermometer by Direct Method	0 to 1700 °C	1.28°C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TemperatureSimulation (Indicator/ Controller /Recorder): B-TypeThermocouple	Using Multifunction Process Calibrator by Direct Method	600 °C to 1800 °C	2.5°C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TemperatureSimulation (Indicator/ Controller /Recorder): E-TypeThermocouple	Using Multifunction Process Calibrator by Direct Method	-200 °C to 600 °C	0.6°C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TemperatureSimulation (Indicator/ Controller /Recorder): J-TypeThermocouple	Using Multifunction Process Calibrator by Direct Method	-200 °C to 1200 °C	0.47°C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TemperatureSimulation (Indicator/ Controller /Recorder): K-TypeThermocouple	Using Mutifunction Process Calibrator by Direct Method	-200 °C to 1200 °C	0.7°C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TemperatureSimulation (Indicator/ Controller /Recorder): N-TypeThermocouple	Using Multifunction Process Calibrator by Direct Method	-200 °C to 1300 °C	0.7°C

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52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TemperatureSimulation (Indicator/ Controller /Recorder): R-TypeThermocouple	Using Multifunction Process Calibrator by Direct Method	0 to 1700 °C	0.8°C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TemperatureSimulation (Indicator/ Controller /Recorder): RTD	Using Multifunction Process Calibrator by Direct Method	-200 °C to 650 °C	0.41°C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TemperatureSimulation (Indicator/ Controller /Recorder): S-TypeThermocouple	Using Multifunction Process Calibrator by Direct Method	0 to 1700 °C	0.7°C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TemperatureSimulation (Indicator/ Controller /Recorder): T-TypeThermocouple	Using Multifunction Process Calibrator by Direct Method	-200 °C to 400 °C	0.47°C
56	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6.5 Digital Multimeter by Comparison Method	10 Hz to 1 MHz	0.07 % to 0.06 %
57	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch(Digital / Analog)	Using Digital Time Calibrator by Comparison Method	10 ms to 86400 s	1.1 % to 0.035 %

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58	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using 5.5 Digital Multifunction Calibrator by Direct Method	10 Hz to 1000 Hz	0.12%
59	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer ,Centrifuge,RPM Source & RPM Measurementof Equipment's (Contact-Type)	Using Standard Digital Tachometer & RPM source by Direct / Comparison Method	10 rpm to 1000 rpm	0.65 rpm to 1.5 rpm
60	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer ,Centrifuge,RPM Source & RPM Measurementof Equipment's (Contact-Type)	Using Standard Digital Tachometer & RPM source by Direct / Comparison Method	1000 rpm to 15000 rpm	1.5 rpm to 5 rpm
61	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Digital Tachometer,Pulse EngineTachometer,Stroboscope,Centrifuge& RPM Measurement ofEquipment's (Non Contact-Type)	Using Standard Digital Tachometer & RPM source by Direct / Comparison Method	10 rpm to 500 rpm	0.69 rpm to 1.13 rpm

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62	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Digital Tachometer,Pulse EngineTachometer,Stroboscope,Centrifuge& RPM Measurement ofEquipment's (Non Contact-Type)	Using Standard Digital Tachometer & RPM source by Direct / Comparison Method	30000 rpm to 90000 rpm	4.04 rpm to 12.02 rpm
63	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Digital Tachometer,Pulse EngineTachometer,Stroboscope,Centrifuge& RPM Measurement ofEquipment's (Non Contact-Type)	Using Standard Digital Tachometer & RPM source by Direct / Comparison Method	500 rpm to 5000 rpm	1.13 rpm to 2.40 rpm
64	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Digital Tachometer,Pulse EngineTachometer,Stroboscope,Centrifuge& RPM Measurement ofEquipment's (Non Contact-Type)	Using Standard Digital Tachometer & RPM source by Direct / Comparison Method	5000 rpm to 30000 rpm	2.40 rpm to 4.04 rpm
65	MECHANICAL-ACOUSTICS	Sound Level Meter@ 1kHz	Using sound level calibrator by direct method	114 dB	0.4dB
66	MECHANICAL-ACOUSTICS	Sound Level Meter@ 1kHz	Using sound level calibrator by direct method	94 dB	0.4dB

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67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier /Dial / Digimatic (L.C.: 0.01 mm)	Using Slip Gauge Set Grade 0 and Caliper Checker by Comparison Method	0 to 600 mm	20.4µm
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier /Dial / Digimatic (L.C.: 0.01 mm)	Using Slip Gauge Set Grade 0 and Caliper Checker by Comparison Method	0 to 300 mm	14µm
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge / Coat Meter (L.C.: 0.1/1 µm)	Using Standard Foils by Comparison Method	10 µm to 700 µm	4.6µm
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.01 mm)	Using Slip Gauge Set Grade 0, Accessories Set & Caliper Checker by Comparison Method	0 to 25 mm	7.6µm
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.01mm)	Using Slip Gauge Set Grade '0' by Comparison Method	0 to 50 mm	11.3µm

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72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer(L.C.: 0.001 mm)	Using Slip Gauge Set Grade '0' by Comparison Method	0 to 100 mm	1.5µm
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Micrometer by Comparison Method	0.04 mm to 1 mm	2.85µm
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Digital /Dial (L.C.: 0.01 mm)	Using Slip Gauge Set Grade '0', Caliper Checker , Dial Test Indicator and Surface Plate by Comparison Method	0 to 300 mm	14µm
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Digital /Dial (L.C.: 0.01 mm)	Using Slip Gauge Set Grade '0', Caliper Checker , Dial Test Indicator and Surface Plate by Comparison Method	0 to 600 mm	14.2µm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Steel Scale/ Steel Ruler LC- 1 mm	Using Tape & Scale Measuring Machine By Comparison Method	0 to 1000 mm	285 sqrt (L) µm,where L is in meter

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77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Slip Gauge Set Grade '0' by Comparison Method	Upto to 100 mm	2.2µm
78	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask	Using Weighing Balance (readability 10 mg) and distilled water as per IS/ISO 4787 at 27 °C	500 ml to 5000 ml	1.4 ml
79	MECHANICAL-VOLUME	Measuring Cylinder,Volumetric Flask	Using Weighing Balance (readability 100 mg) and distilled water as per IS/ISO 4787 at 27 °C	5000 ml to 10000 ml	2.6 ml
80	MECHANICAL-VOLUME	Micro-pipette	Using Weighing Balance (readability 0.01 mg / 0.1 mg) and distilled water as per ISO 8655 (Part 6) at 27 °C	10 µl to 100 µl	0.72 µl
81	MECHANICAL-VOLUME	Micro-pipette	Using Weighing Balance (readability 0.01 mg / 0.1 mg) and distilled water as per ISO 8655 (Part 6) at 27 °C	100 µl to 1000 µl	0.75 µl

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82	MECHANICAL-VOLUME	Pipette, Burette, Measuring Cylinder, Volumetric Flask	Using Weighing Balance (readability 0.01 mg / 0.1 mg) and distilled water as per IS/ISO 4787 at 27 °C	1 ml to 10 ml	3.2µl
83	MECHANICAL-VOLUME	Pipette, Burette,Measuring Cylinder,Volumetric Flask	Using Weighing Balance (readability 0.01 mg / 0.1 mg) and distilled water as per IS/ISO 4787 at 27 °C	10 ml to 50 ml	0.5 ml
84	MECHANICAL-VOLUME	Pipette, Burette,Measuring Cylinder,Volumetric Flask	Using Weighing Balance (readability 1 mg) and distilled water as per IS/ISO 4787 at 27 °C	200 ml to 500 ml	0.2 ml
85	MECHANICAL-VOLUME	Pipette, Burette,Measuring Cylinder,Volumetric Flask	Using Weighing Balance (readability 0.1 mg) and distilled water as per IS/ISO 4787 at 27 °C	50 ml to 200 ml	0.5 ml
86	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital Weighing Balance (Readability: 0.1 mg &coarser) -Accuracy Class I & coarser	Using E1 Class Standard Weights as per OIML R 76-1: 2006	0 to 100 g	0.3mg

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87	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital Weighing Balance (Readability:0.1 mg & coarser) -Accuracy Class I & coarser	Using E1 Class Standard Weights as per OIML R 76-1: 2006	0 to 220 g	0.3mg
88	MECHANICAL-WEIGHING SCALE AND BALANCE	DigitalWeighingBalance(Readability100 mg &Coarser),Accuracy Class III &Coarser	Using E1 & F1 Class Standard Weights as per OIML R 76-1: 2006	0 to 25 kg	0.3 g
89	MECHANICAL-WEIGHING SCALE AND BALANCE	WeighingBalance(Readability5 g &Coarser) (AccuracyClass IV &Coarser)	Using E1 & F1 Class Standard Weights as per OIML R 76-1: 2006	0 to 100 kg	6.4 g
90	MECHANICAL-WEIGHING SCALE AND BALANCE	WeighingBalanceReadability1 mg &Coarser(AccuracyClass II &Coarser)	Using E1 & F1 Class Standard Weights as per OIML R 76-1: 2006	0 to 1 kg	3 mg
91	MECHANICAL-WEIGHING SCALE AND BALANCE	WeighingBalanceReadability10 mg &Coarser(AccuracyClass II &Coarser)	Using E1 & F1 Class Standard Weights as per OIML R 76-1: 2006	0 to 6 kg	28 mg

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92	MECHANICAL-WEIGHTS	Weight (Accuracy Class F1 and Coarser)	Using E1 Class Weight with Mass Comparator (80 g / 220 g, readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1: 2004	1 g	0.02mg
93	MECHANICAL-WEIGHTS	Weight (Accuracy Class F1 and Coarser)	Using E1 Class Weight with Mass Comparator (80 g / 220 g, readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1: 2004	100 mg	0.012mg
94	MECHANICAL-WEIGHTS	Weight (Accuracy Class F1 and Coarser)	Using E1 Class Weight with Mass Comparator (80 g / 220 g, readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1: 2004	2 g	0.03mg

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95	MECHANICAL-WEIGHTS	Weight (Accuracy Class F1 and Coarser)	Using E1 Class Weight with Mass Comparator (80 g / 220 g, readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1: 2004	2 mg	0.012mg
96	MECHANICAL-WEIGHTS	Weight (Accuracy Class F1 and Coarser)	Using E1 Class Weight with Mass Comparator (80 g / 220 g, readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1: 2004	20 g	0.05mg
97	MECHANICAL-WEIGHTS	Weight (Accuracy Class F1 and Coarser)	Using E1 Class Weight with Mass Comparator (80 g / 220 g, readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1: 2004	20 mg	0.012mg

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98	MECHANICAL-WEIGHTS	Weight (Accuracy Class F1 and Coarser)	Using E1 Class Weight with Mass Comparator (80 g / 220 g, readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1: 2004	200 g	0.20mg
99	MECHANICAL-WEIGHTS	Weight (Accuracy Class F1 and Coarser)	Using E1 Class Weight with Mass Comparator (80 g / 220 g, readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1: 2004	200 mg	0.012mg
100	MECHANICAL-WEIGHTS	Weight (Accuracy Class F1 and Coarser)	Using E1 Class Weight with Mass Comparator (80 g / 220 g, readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1: 2004	5 g	0.03mg

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101	MECHANICAL-WEIGHTS	Weight (Accuracy Class F1 and Coarser)	Using E1 Class Weight with Mass Comparator (80 g / 220 g, readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1: 2004	5 mg	0.012mg
102	MECHANICAL-WEIGHTS	Weight (Accuracy Class F1 and Coarser)	Using E1 Class Weight with Mass Comparator (80 g / 220 g, readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1: 2004	50 g	0.05mg
103	MECHANICAL-WEIGHTS	Weight (Accuracy Class F1 and Coarser)	Using E1 Class Weight with Mass Comparator (80 g / 220 g, readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1: 2004	50 mg	0.012mg

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104	MECHANICAL-WEIGHTS	Weight (Accuracy Class F1 and Coarser)	Using E1 Class Weight with Mass Comparator (80 g / 220 g, readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1: 2004	500 mg	0.02mg
105	MECHANICAL-WEIGHTS	Weight (Accuracy Class F2 and Coarser)	Using F1 Class Weight with Mass Comparator (1 kg / readability 1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1: 2004	1 kg	15 mg
106	MECHANICAL-WEIGHTS	Weight (Accuracy Class F2 and Coarser)	Using F1 Class Weight with Mass Comparator (25 kg / readability 0.1 g) by Substitution Method (ABA Cycle) as per OIML R-111-1: 2004	10 kg	121 mg
107	MECHANICAL-WEIGHTS	Weight (AccuracyClass F1 andCoarser)	Using E1 Class Weight with Mass Comparator (80 g / 220 g, readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1: 2004	10 g	0.03mg

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108	MECHANICAL-WEIGHTS	Weight (AccuracyClass F1 andCoarser)	Using E1 Class Weight with Mass Comparator (80 g / 220 g, readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1: 2004	10 mg	0.012mg
109	MECHANICAL-WEIGHTS	Weight (AccuracyClass F1 andCoarser)	Using E1 Class Weight with Mass Comparator (80 g / 220 g, readability 0.01 mg / 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1: 2004	100 g	0.10mg
110	MECHANICAL-WEIGHTS	Weight (AccuracyClass F2 andCoarser)	Using F1 Class Weight with Mass Comparator (6 kg / readability 0.01 g) by Substitution Method (ABBA Cycle) as per OIML R-111-1: 2004	2 kg	15 mg
111	MECHANICAL-WEIGHTS	Weight (AccuracyClass F2 andCoarser)	Using F1 Class Weight with Mass Comparator (25 kg / readability 0.1 g) by Substitution Method (ABA Cycle) as per OIML R-111-1: 2004	20 kg	121 mg

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112	MECHANICAL-WEIGHTS	Weight (AccuracyClass F2 andCoarser)	Using F1 Class Weight with Mass Comparator (6 kg / readability 0.01 g) by Substitution Method (ABBA Cycle) as per OIML R-111-1: 2004	5 kg	22 mg
113	MECHANICAL-WEIGHTS	Weight (AccuracyClass F2 andCoarser)	Using F1 Class Weight with Mass Comparator (1 kg / readability 1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1: 2004	500 g	10 mg
114	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital & AnalogHygrometer ,Humidity / TemperatureSensors withIndicator / Controller/ Recorder / DataLogger ,TransmitterThermo-Hygrometer@ 50 %RH	Using 4 Wire RTD (PT- 100) with 6.5 Digital Multimeter & Temperature / Humidity Chamber by Comparison Method	5 °C to 60 °C	0.35°C

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115	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital & AnalogHygrometer, RHSensor / Transmitterwith Controller /Indicator / Recorder /Data Logger@ 25°C	Using RH Sensor with Indicator , 6.5 Digital Multimeter& Temperature / HumidityChamberby Comparison Method	30 %RH to 95 %RH	1.5%RH
116	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber /Environment Chamber @ 25°C	Using Standard RH Transmitter Sensor & Data Logger by MultiPosition Mapping Method	10 %RH to 95 %RH	2.0%RH
117	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator of HumidityChamber / GenerationChamber @ 25°C	Using RH Sensor with Indicator by Comparison Method (Single Point Calibration)	10 %RH to 95 %RH	1.5%RH
118	THERMAL-TEMPERATURE	Freezers, Cold Chamber,Oven, EnvironmentChamber , Deep Freezer	Using Multi-Point Data Logger with RTD (PT- 100) Sensor by MultiPosition Mapping Method	-80 °C to 250 °C	0.6°C
119	THERMAL-TEMPERATURE	Industrial Furnace,Oven	Using Multi-Point Data Logger with N-Type Thermocouple by MultiPosition Mapping Method	250 °C to 500 °C	1.5°C

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120	THERMAL-TEMPERATURE	Liquid in GlassThermometer	Using 4 Wire RTD (PT- 100) with 6.5 Digital Multimeter , Low Temperature Bath and Oil bath by Comparison Method	-40 °C to 250 °C	0.4°C
121	THERMAL-TEMPERATURE	Radiation Pyrometer, IR Thermometer(Non-Contact Type) Emissivity - 95%	Using Radiation Pyrometer & Black Body Source by Comparison Method	50 °C to 600 °C	3.8°C
122	THERMAL-TEMPERATURE	Radiation Pyrometer, IR Thermometer(Non-Contact Type) Emissivity - 95%	Using Radiation Pyrometer & Black Body Source by Comparison Method	600 °C to 900 °C	4.8°C
123	THERMAL-TEMPERATURE	Temperature Gauge ,Digital Thermometer ,RTD , Thermocouplewith & withoutController / Indicator /Data Logger / Recorder/ Transmitter	Using 4 Wire RTD (PT- 100) with 6.5 Digital Multimeter& Cryobath (Liquid Nitrogen) by Comparison Method	-196 °C	0.95°C

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124	THERMAL-TEMPERATURE	Temperature Gauge ,DigitalThermometer , RTD,Thermocouple with &without Controller /Indicator / Data Logger/ Recorder /Transmitter	Using 4 Wire RTD (PT- 100) with 6.5 Digital Multimeter & Oil Bath by Comparison Method	50 °C to 250 °C	0.35°C
125	THERMAL-TEMPERATURE	Temperature Gauge,Digital Thermometer,RTD, Thermocouplewith & withoutController / Indicator /Data Logger / Recorder/ Transmitt	Using S-Type Thermocouple with 6.5 Digital Multimeter & Dry Block Furnace by Comparison Method	300 °C to 700 °C	2.1°C
126	THERMAL-TEMPERATURE	Temperature Gauge,Digital Thermometer,RTD, Thermocouplewith & withoutController / Indicator /Data Logger / Recorder/ Transmitter	Using 4 Wire RTD (PT- 100) with 6.5 Digital Multimeter & Dry Block Furnace by Comparison Method	250 °C to 300 °C	1.3°C

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127	THERMAL-TEMPERATURE	Temperature Gauge,Digital Thermometer,Thermocouple with &without Controller /Indicator / Data Logger/ Recorder /Transmitter	Using S-Type Thermocouple with 6.5 Digital Multimeter & Dry Block Furnace by Comparison Method	700 °C to 1200 °C	2.75°C
128	THERMAL-TEMPERATURE	Temperature Gauge,DigitalThermometer, RTD,Thermocouple with &without Controller /Indicator / Data Logger/ Recorder /Transmitter	Using 4 Wire RTD (PT- 100) with 6.5 Digital Multimeter & Low Temperature Bath by Comparison Method	-40 °C to 50 °C	0.3°C
129	THERMAL-TEMPERATURE	Temperature Indicator ofCryo Baths, N2 Freezer ,Liquid Nitrogen Bath	Using 4 Wire RTD (PT- 100) with 6.5 Digital Multimeterby Comparison Method (Single Point Calibration)	-196 °C	0.9°C
130	THERMAL-TEMPERATURE	Temperature Indicator ofFreezer , EnvironmentChamber , Liquid Bath ,Dry Block TemperatureCalibrator	Using 4 Wire RTD (PT- 100) with 6.5 Digital Multimeter by Comparison Method (Single Point Calibration)	-80 °C to -40 °C	0.4°C

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131	THERMAL-TEMPERATURE	Temperature Indicatorof Freezer, Oven,Environment Chamber, Liquid Bath,Oil Bath, Dry BlockFurnac	Using 4 Wire RTD (PT- 100) with 6.5 Digital Multimeterby Comparison Method (Single Point Calibration)	-40 °C to 300 °C	0.4°C
132	THERMAL-TEMPERATURE	Temperature Indicatorof Muffle Furnace, DryBlock Furnace	Using S-Type Thermocouple with 6.5 Digital Multimeter by Comparison Method (Single Point Calibration)	300 °C to 700 °C	2.1°C
133	THERMAL-TEMPERATURE	Temperature Indicatorof Muffle Furnace, DryBlock Furnace	Using S-Type Thermocouple with 6.5 Digital Multimeter by Comparison Method (Single Point Calibration)	700 °C to 1200 °C	2.75°C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6.5 Digital Multimeter by Direct Method	100 µA to 100 mA	0.2 % to 0.2 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6.5 Digital Multimeter by Direct Method	100 mA to 10 A	0.2 % to 0.25 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current @50 Hz	Using Current Transformer & 6.5 Digital Multimeter by Direct Method	10 A to 1000 A	1.41%
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @50 Hz	Using HV Probe with DMM by Direct Method	1 kV to 28 kV	2.90 % to 2.67 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance @ 1kHz	Using Digital LCR Meter by DirectMethod	1 ohm to 10 kohm	0.35 % to 0.35 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6.5 Digital Multimeter by Direct Method	10 V to 1000 V	0.11%
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6.5 Digital Multimeter by Direct Method	100 mV to 10 V	0.12 % to 0.11 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1kHz	Using Digital LCR Meter by Direct Method	100 pF to 1 µF	0.35 % to 0.38 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 1 kHz	Using Digital LCR Meter by Direct Method	100 µH to 10 H	0.4 % to 0.4 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@ 50Hz	Using 5.5 Digital Multifunction Calibrator by Direct Method	100 µA to 20 mA	0.1 % to 0.15 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@ 50Hz	Using 5.5 Digital Multifunction Calibrator by Direct Method	2 A to 10 A	0.85 % to 0.55 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current@ 50Hz	Using 5.5 Digital Multifunction Calibrator by Direct Method	20 mA to 2 A	0.15 % to 0.85 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current @50 Hz	Using 5.5 Digital Multifunction Calibrator with Current Coil by Direct Method	10 A to 1000 A	1.1%
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using 5.5 Digital Multifunction Calibrator by Direct Method	1 mV to 200 mV	0.9 % to 0.1 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using 5.5 Digital Multifunction Calibrator by Direct Method	200 mV to 200 V	0.1 % to 0.085 %

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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using 5.5 Digital Multifunction Calibrator by Direct Method	200 V to 1000 V	0.085 % to 0.12 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6.5 Digital Multimeter by Direct Method	100 mA to 10 A	0.064 % to 0.19 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6.5 Digital Multimeter by Direct Method	50 µA to 100 mA	0.120 % to 0.07 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Current	Using shunt and 6.5 Digital Multimeter by Direct Method	10 A to 750 A	1.4 % to 1.4 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct Method	1 kV to 37 kV	2.7 % to 3 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6.5 Digital Multimeter by Direct Method	1 mV to 100 mV	0.487 % to 0.01 %

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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6.5 Digital Multimeter by Direct Method	10 V to 1000 V	0.01 % to 0.07 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6.5 Digital Multimeter by Direct Method	100 mV to 10 V	0.01 % to 0.01 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using Digital Insulation Tester by Direct Method	1 Gohm to 1 Tohm	3.84 % to 4.31 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6.5 Digital Multimeter by Direct Method	1 Mohm to 100 Mohm	0.02 % to 0.362 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6.5 Digital Multimeter by Direct Method	10 ohm to 1 Mohm	0.02 % to 0.01 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6.5 Digital Multimeter by Direct Method	100 Mohm to 1000 Mohm	0.362 % to 1.38 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using Digital Micro Ohm Meter by Direct Method	1 mohm to 10 ohm	0.41 % to 0.10 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using Digital Micro Ohm Meter by Direct Method	50 µohm to 1 mohm	1.4 % to 0.41 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5.5 Digital Multifunction Calibrator by Direct Method	100 µA to 20 mA	1.0 % to 0.1 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5.5 Digital Multifunction Calibrator by Direct Method	2 A to 10 A	0.15 % to 0.1 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5.5 Digital Multifunction Calibrator by Direct Method	20 mA to 2 A	0.1 % to 0.15 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	Using 5.5 Digital Multifunction Calibrator with Current Coil by Direct Method	10 A to 1000 A	0.1 % to 0.65 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5.5 Digital Multifunction Calibrator by Direct Method	1 mV to 200 mV	0.72 % to 0.01 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Process Calibrator by Direct Method	1 mV to 90 mV	0.684 % to 0.036 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5.5 Digital Multifunction Calibrator by Direct Method	200 mV to 200 V	0.01 % to 0.025 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5.5 Digital Multifunction Calibrator by Direct Method	200 V to 1000 V	0.025 % to 0.01 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	90 mV to 20 V	0.036 % to 0.046 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Decade Resistance Box By Direct Method	1 Mohm to 100 Mohm	0.03 % to 0.42 %

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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	1 ohm to 1 Mohm	0.15 % to 0.03 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	100 Mohm to 1 Gohm	0.42 % to 1.5 %
42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	TemperatureSimulation (Indicator/ Controller /Recorder): B-TypeThermocouple	Using Digital Thermometer by Direct Method	600 °C to 1800 °C	2.5°C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	TemperatureSimulation (Indicator/ Controller /Recorder): E-TypeThermocouple	Using Digital Thermometer by Direct Method	-200 °C to 600 °C	0.9°C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	TemperatureSimulation (Indicator/ Controller /Recorder): K-TypeThermocouple	Using Digital Thermometer by Direct Method	-200 °C to 1300 °C	0.7°C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	TemperatureSimulation (Indicator/ Controller /Recorder): N-TypeThermocouple	Using Digital Thermometer by Direct Method	-200 °C to 1300 °C	0.83°C

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46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	TemperatureSimulation (Indicator/ Controller /Recorder): RTD	Using Digital Thermometer by Direct Method	-200 °C to 500 °C	2.2°C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	TemperatureSimulation (Indicator/ Controller /Recorder): S-TypeThermocouple	Using Digital Thermometer by Direct Method	0 to 1700 °C	1.3°C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	TemperatureSimulation (Indicator/ Controller /Recorder): T-TypeThermocouple	Using Digital Thermometer by Direct Method	-200 °C to 400 °C	0.75°C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	TemperatureSimulation (Indicator/ Controller /Recorder): J-TypeThermocouple	Using Digital Thermometer by Direct Method	-200 °C to 1200 °C	0.68°C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	TemperatureSimulation (Indicator/ Controller /Recorder): R-TypeThermocouple	Using Digital Thermometer by Direct Method	0 to 1700 °C	1.28°C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TemperatureSimulation (Indicator/ Controller /Recorder): B-TypeThermocouple	Using Multifunction Process Calibrator by Direct Method	600 °C to 1800 °C	2.5°C

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52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TemperatureSimulation (Indicator/ Controller /Recorder): E-TypeThermocouple	Using Multifunction Process Calibrator by Direct Method	-200 °C to 600 °C	0.6°C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TemperatureSimulation (Indicator/ Controller /Recorder): J-TypeThermocouple	Using Multifunction Process Calibrator by Direct Method	-200 °C to 1200 °C	0.47°C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TemperatureSimulation (Indicator/ Controller /Recorder): N-TypeThermocouple	Using Multifunction Process Calibrator by Direct Method	-200 °C to 1300 °C	0.7°C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TemperatureSimulation (Indicator/ Controller /Recorder): R-TypeThermocouple	Using Multifunction Process Calibrator by Direct Method	0 to 1700 °C	0.8°C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TemperatureSimulation (Indicator/ Controller /Recorder): RTD	Using Multifunction Process Calibrator by Direct Method	-200 °C to 650 °C	0.41°C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TemperatureSimulation (Indicator/ Controller /Recorder): S-TypeThermocouple	Using Multifunction Process Calibrator by Direct Method	0 to 1700 °C	0.7°C

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58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	TemperatureSimulation (Indicator/ Controller /Recorder): T-TypeThermocouple	Using Multifunction Process Calibrator by Direct Method	-200 °C to 400 °C	0.47°C
59	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6.5 Digital Multimeter by Comparison Method	10 Hz to 1 MHz	0.07 % to 0.06 %
60	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer / Stop Watch(Digital / Analog)	Using Digital Time Calibrator by Comparison Method	10 ms to 86400 s	1.1 % to 0.035 %
61	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using 5.5 Digital Multifunction Calibrator by Direct Method	10 Hz to 1000 Hz	0.12%
62	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer ,Centrifuge,RPM Source & RPM Measurementof Equipment's (Contact-Type)	Using Standard Digital Tachometer & RPM source by Direct / Comparison Method	10 rpm to 1000 rpm	0.65 rpm to 1.5 rpm

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63	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer ,Centrifuge,RPM Source & RPM Measurementof Equipment's (Contact-Type)	Using Standard Digital Tachometer & RPM source by Direct / Comparison Method	1000 rpm to 15000 rpm	1.5 rpm to 5 rpm
64	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Digital Tachometer,Pulse EngineTachometer,Stroboscope,Centrifuge& RPM Measurement ofEquipment's (Non Contact-Type)	Using Standard Digital Tachometer & RPM source by Direct / Comparison Method	10 rpm to 500 rpm	0.69 rpm to 1.13 rpm
65	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Digital Tachometer,Pulse EngineTachometer,Stroboscope,Centrifuge& RPM Measurement ofEquipment's (Non Contact-Type)	Using Standard Digital Tachometer & RPM source by Direct / Comparison Method	30000 rpm to 90000 rpm	4.04 rpm to 12.02 rpm
66	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Digital Tachometer,Pulse EngineTachometer,Stroboscope,Centrifuge& RPM Measurement ofEquipment's (Non Contact-Type)	Using Standard Digital Tachometer & RPM source by Direct / Comparison Method	500 rpm to 5000 rpm	1.13 rpm to 2.40 rpm

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67	MECHANICAL-ACCELERATION AND SPEED	RPM Meter, Digital Tachometer,Pulse EngineTachometer,Stroboscope,Centrifuge& RPM Measurement ofEquipment's (Non Contact-Type)	Using Standard Digital Tachometer & RPM source by Direct / Comparison Method	5000 rpm to 30000 rpm	2.40 rpm to 4.04 rpm
68	MECHANICAL-ACOUSTICS	Sound Level Meter@ 1kHz	Using sound level calibrator by direct method	114 dB	0.4dB
69	MECHANICAL-ACOUSTICS	Sound Level Meter@ 1kHz	Using sound level calibrator by direct method	94 dB	0.4dB
70	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital Weighing Balance (Readability: 0.1 mg &coarser) -Accuracy Class I & coarser	Using E1 Class Standard Weights as per OIML R 76-1: 2006	0 to 100 g	0.3mg
71	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital Weighing Balance (Readability:0.1 mg & coarser) -Accuracy Class I & coarser	Using E1 Class Standard Weights as per OIML R 76-1: 2006	0 to 220 g	0.3mg
72	MECHANICAL-WEIGHING SCALE AND BALANCE	DigitalWeighingBalance(Readability100 mg &Coarser),Accuracy Class III &Coarser	Using E1 & F1 Class Standard Weights as per OIML R 76-1: 2006	0 to 25 kg	0.3 g

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73	MECHANICAL-WEIGHING SCALE AND BALANCE	WeighingBalance(Readability5 g &Coarser) (AccuracyClass IV &Coarser)	Using E1 & F1 Class Standard Weights as per OIML R 76-1: 2006	0 to 100 kg	6.4 g
74	MECHANICAL-WEIGHING SCALE AND BALANCE	WeighingBalanceReadability1 mg &Coarser(AccuracyClass II &Coarser)	Using E1 & F1 Class Standard Weights as per OIML R 76-1: 2006	0 to 1 kg	3 mg
75	MECHANICAL-WEIGHING SCALE AND BALANCE	WeighingBalanceReadability10 mg &Coarser(AccuracyClass II &Coarser)	Using E1 & F1 Class Standard Weights as per OIML R 76-1: 2006	0 to 6 kg	28 mg
76	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber /Environment Chamber @ 25°C	Using Standard RH Transmitter Sensor & Data Logger by MultiPosition Mapping Method	10 %RH to 95 %RH	2.0%RH
77	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator of HumidityChamber / GenerationChamber @ 25°C	Using RH Sensor with Indicator by Comparison Method (Single Point Calibration)	10 %RH to 95 %RH	1.5%RH
78	THERMAL-TEMPERATURE	Autoclave (For Non Medical Purpose Only)	Using Multi-Point Data Logger with RTD (PT- 100) Sensor by MultiPosition Mapping Method	120 °C to 138 °C	0.6°C

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79	THERMAL-TEMPERATURE	Freezers, Cold Chamber,Oven, EnvironmentChamber , Deep Freezer	Using Multi-Point Data Logger with RTD (PT- 100) Sensor by MultiPosition Mapping Method	-80 °C to 250 °C	0.6°C
80	THERMAL-TEMPERATURE	Incubator, BOD Incubator (For Non Medical PurposeOnly)	Using Multi-Point Data Logger with RTD (PT- 100) Sensor by MultiPosition Mapping Method	5 °C to 60 °C	0.4°C
81	THERMAL-TEMPERATURE	Industrial Furnace,Oven	Using Multi-Point Data Logger with N-Type Thermocouple by MultiPosition Mapping Method	250 °C to 500 °C	1.5°C
82	THERMAL-TEMPERATURE	Industrial Furnace,Spatial Thermal Mapping	Using Multi-Point Data Logger with N-Type Thermocouple by MultiPosition Mapping Method	500 °C to 1200 °C	3.8°C
83	THERMAL-TEMPERATURE	Liquid in GlassThermometer	Using 4 Wire RTD (PT- 100) with 6.5 Digital Multimeter , Low Temperature Bath and Oil bath by Comparison Method	-40 °C to 250 °C	0.4°C

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84	THERMAL-TEMPERATURE	Temperature Gauge ,Digital Thermometer ,RTD , Thermocouplewith & withoutController / Indicator /Data Logger / Recorder/ Transmitter	Using 4 Wire RTD (PT- 100) with 6.5 Digital Multimeter& Cryobath (Liquid Nitrogen) by Comparison Method	-196 °C	0.95°C
85	THERMAL-TEMPERATURE	Temperature Gauge ,DigitalThermometer , RTD,Thermocouple with &without Controller /Indicator / Data Logger/ Recorder /Transmitter	Using 4 Wire RTD (PT- 100) with 6.5 Digital Multimeter & Oil Bath by Comparison Method	50 °C to 250 °C	0.35°C
86	THERMAL-TEMPERATURE	Temperature Gauge,Digital Thermometer,RTD, Thermocouplewith & withoutController / Indicator /Data Logger / Recorder/ Transmitt	Using S-Type Thermocouple with 6.5 Digital Multimeter & Dry Block Furnace by Comparison Method	300 °C to 700 °C	2.1°C

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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)(±)
87	THERMAL-TEMPERATURE	Temperature Gauge,Digital Thermometer,RTD, Thermocouplewith & withoutController / Indicator /Data Logger / Recorder/ Transmitter	Using 4 Wire RTD (PT- 100) with 6.5 Digital Multimeter & Dry Block Furnace by Comparison Method	250 °C to 300 °C	1.3°C
88	THERMAL-TEMPERATURE	Temperature Gauge,Digital Thermometer,Thermocouple with &without Controller /Indicator / Data Logger/ Recorder /Transmitter	Using S-Type Thermocouple with 6.5 Digital Multimeter & Dry Block Furnace by Comparison Method	700 °C to 1200 °C	2.75°C
89	THERMAL-TEMPERATURE	Temperature Gauge,DigitalThermometer, RTD,Thermocouple with &without Controller /Indicator / Data Logger/ Recorder /Transmitter	Using 4 Wire RTD (PT- 100) with 6.5 Digital Multimeter & Low Temperature Bath by Comparison Method	-40 °C to 50 °C	0.3°C
90	THERMAL-TEMPERATURE	Temperature Indicator ofCryo Baths, N2 Freezer ,Liquid Nitrogen Bath	Using 4 Wire RTD (PT- 100) with 6.5 Digital Multimeterby Comparison Method (Single Point Calibration)	-196 °C	0.9°C

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**	47 of 47
Validity	07/06/2022 to 06/06/2024	**Last Amended on**	13/12/2022

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)(±)
91	THERMAL-TEMPERATURE	Temperature Indicator ofFreezer , EnvironmentChamber , Liquid Bath ,Dry Block TemperatureCalibrator	Using 4 Wire RTD (PT- 100) with 6.5 Digital Multimeter by Comparison Method (Single Point Calibration)	-80 °C to -40 °C	0.4°C
92	THERMAL-TEMPERATURE	Temperature Indicatorof Freezer, Oven,Environment Chamber, Liquid Bath,Oil Bath, Dry BlockFurnac	Using 4 Wire RTD (PT- 100) with 6.5 Digital Multimeterby Comparison Method (Single Point Calibration)	-40 °C to 300 °C	0.4°C
93	THERMAL-TEMPERATURE	Temperature Indicatorof Muffle Furnace, DryBlock Furnace	Using S-Type Thermocouple with 6.5 Digital Multimeter by Comparison Method (Single Point Calibration)	300 °C to 700 °C	2.1°C
94	THERMAL-TEMPERATURE	Temperature Indicatorof Muffle Furnace, DryBlock Furnace	Using S-Type Thermocouple with 6.5 Digital Multimeter by Comparison Method (Single Point Calibration)	700 °C to 1200 °C	2.75°C

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