



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	TEKTRONIX INDIA PVT. LTD., MBC CENTRE, GROUND FLOOR, PLOT NO-143/A, GHODBUNDER ROAD, THANE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-3334	Page No	1 of 44
Validity	23/12/2021 to 22/12/2023	Last Amended on	10/03/2023

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 @ (45Hz to 1kHz)	Using Digital Multimeter and Shunt by Direct method	10 A to 20 A	0.67 A
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (45Hz to 1kHz)	Using Multimeter by Direct method	100 µA to 300 mA	0.2 µA to 0.57 mA
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (45Hz to 1kHz)	Using Multimeter by Direct method	300 mA to 10 A	0.57 mA to 0.25 A
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (10Hz to 1kHz)	Using 8½ Digit Multimeter by Direct method	20 mV to 200 mV	0.05 mV to 0.09 mV



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (10Hz to 1kHz)	Using 8½ Digit Multimeter by Direct method	20 V to 60 V	0.007 V to 0.01 V
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (10Hz to 1kHz)	Using 8½ Digit Multimeter by Direct method	200 mV to 20 V	0.05 mV to 0.007 V
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (40Hz to 1kHz)	Using 8½ Digit Multimeter by Direct method	60 V to 700 V	0.01 V to 0.3 V
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50Hz	Using 8½ Digit Multimeter by Direct method	10 mV to 100 mV	0.01 7 mV to 0.01 mV
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50Hz	Using 8½ Digit Multimeter by Direct method	100 mV to 100 V	0.01 mV to 0.06 V



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50Hz	Using 8½ Digit Multimeter by Direct method	100 V to 700 V	0.06 V to 0.35 V
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (10Hz to 10kHz)	Using Multi Product Calibrator by Direct method	329 µA to 1 A	0.05 µA to 0.05 A
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (45Hz to 1kHz)	Using Multi Product Calibrator by Direct method	30 µA to 1 A	0.052 µA to 0.006 A
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (45Hz to 5kHz)	Using Multi Product Calibrator by Direct method	1 A to 3 A	0.006 A to 0.01 A
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (45Hz to 5kHz)	Using Multi Product Calibrator by Direct method	2 A to 20 A	0.03 A



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15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ (50Hz to 100Hz)	Using Multi Product Calibrator with Current coil by Direct method	100 A to 1000 A	0.3 A to 9.3 A
16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ (50Hz to 100Hz)	Using Multi product Calibrator and Current coil by Direct method	20 A to 100 A	0.03 A to 0.3 A
17	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ (10Hz to 100kHz)	Using Multi Product Calibrator by Direct method	30 mV to 200 mV	0.01 mV to 0.04 mV
18	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ (10Hz to 1kHz)	Using Multi Product Calibrator by Direct method	200 mV to 20 V	0.04 mV to 0.04 V
19	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ (1kHz to 100kHz)	Using Multi Product Calibrator by Direct method	10 V to 100 V	0.04 V to 0.1 V
20	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ (45Hz to 1kHz)	Using Multi Product Calibrator by Direct method	20 V to 200 V	0.04 V to 0.08 V



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21	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ (50Hz to 1kHz)	Using Multi Product Calibrator by Direct method	200 V to 1000 V	0.1 V to 0.4 V
22	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10Hz	Using Multi Product Calibrator by Direct method	1 mV to 20 mV	0.03 mV to 0.01 mV
23	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10Hz	Using Multi Product Calibrator by Direct method	1 mV to 20 V	0.059 mV
24	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10kHz	Using Multi Product Calibrator by Direct method	100 V to 1000 V	0.1 V to 0.4 V
25	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10kHz	Using Multi Product Calibrator by Direct method	200 mV to 100 V	0.03 mV to 0.1 V
26	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using Multi Product Calibrator by Direct method	10 mV to 100 mV	0.028 mV



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27	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using Multi Product Calibrator by Direct method	100 mV to 1000 V	0.028 mV to 0.48 V
28	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Frequency	Using Multi Product Calibrator by Direct method	1 Hz to 10 Hz	0.001 Hz
29	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Frequency	Using Multi Product Calibrator by Direct method	10 Hz to 1 MHz	0.001 Hz to 2.5 Hz
30	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter by Direct method	1 µA to 100 µA	0.003 µA
31	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct method	1 A to 10 A	0.006 A to 0.02 A
32	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter and Shunt by Direct method	10 A to 20 A	0.02 A



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33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter by Direct method	100 µA to 100 mA	0.003 µA to 0.005 mA
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter by Direct method	100 mA to 1 A	0.005 mA to 0.006 A
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter by Direct method	10 mV to 100 mV	0.002 mV
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter by Direct method	10 V to 1000 V	0.0001 V to 0.013 V
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter by Direct method	100 mV to 10 V	0.002 mV to 0.0001 V
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digit Multimeter by Direct method	1 kohm to 100 kohm	0.008 kohm to 0.002 kohm



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39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digit Multimeter by Direct method	1 Mohm to 10 Mohm	0.001 Mohm
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digit Multimeter by Direct method	10 Mohm to 100 Mohm	0.001 Mohm to 0.06 Mohm
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digit Multimeter by Direct method	10 Ohm to 100 Ohm	0.0003 Ohm to 0.002 Ohm
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digit Multimeter by Direct method	100 kohm to 1 Mohm	0.002 kohm to 1 kohm
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Multimeter by Direct method	100 Mohm to 1000 Mohm	0.06 Mohm to 0.18 Gohm
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digit Multimeter by Direct method	100 Ohm to 1 kohm	0.003 Ohm to 0.008 kohm



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45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	1 A to 20 A	0.006 A to 0.05 A
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	10 μ A to 100 μ A	0.006 μ A to 0.015 μ A
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	100 μ A to 1 A	0.017 μ A to 0.006 A
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with Current coil by Direct method	100 A to 1000 A	0.07 A to 6.4 A
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with Current coil by Direct method	20 A to 100 A	0.05 A to 0.07 A
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Multifunction Calibrator by Direct method	250 kohm to 100 Gohm	1.6 kohm to 0.3 Gohm



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51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box by Direct method	50 mohm to 1 Ohm	0.2 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage / DMM	Using Multi Product Calibrator by Direct method	1 mV to 10 mV	0.004 mV
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage / DMM	Using Multi Product Calibrator by Direct method	10 mV to 100 mV	0.004 mV
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage / DMM	Using Multi Product Calibrator by Direct method	100 mV to 1000 V	0.004 mV to 0.055 V
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct method	1 Mohm to 10 Mohm	0.001 Mohm to 0.006 Mohm
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct method	1 Ohm to 10 Ohm	0.007 Ohm to 0.006 Ohm



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57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct method	10 Mohm to 100 Mohm	0.006 Mohm to 0.059 Mohm
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct method	10 Ohm to 100 kohm	0.006 Ohm to 0.004 kohm
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator with Direct method	100 kohm to 1 Mohm	0.004 kohm to 0.001 Mohm
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct method	100 Mohm to 1000 Mohm	0.059 Mohm to 0.13 Mohm
61	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Amplitude @ (1kHz to 50kHz) Sine Wave)	Using Multi Product Calibrator by Direct method	100 mV to 5.5 V	1.3 mV to 0.14 mV
62	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Amplitude @ (1kHz to 50kHz) Sine Wave)	Using Multi Product Calibrator by Direct method	5 mV to 100 mV	0.45 mV to 1.1 mV



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63	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Bandwidth)	Using Multi Product Calibrator by Direct method	50 kHz to 1 Ghz	4.7 % to 7.2 %
64	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (DC Amplitude)	Using Multi Product Calibrator by Direct method	2.4 mV to 130 V	0.05 mV to 0.002 mV
65	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Timebase)	Using Multi Product Calibrator by Direct method	2 ns to 5 s	0.003 ns to 0.1 ns
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T/C 'J' Type Thermocouple	Using Multifunction Calibrator and Multimeter by Direct method	-200 °C to 1200 °C	0.14 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T/C 'K' Type Thermocouple	Using Multifunction Calibrator and Multimeter by Direct method	-200 °C to 1372 °C	0.14 °C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T/C 'N' Type Thermocouple	Using Multifunction Calibrator and Multimeter by Direct method	-200 °C to 1300 °C	0.24 °C



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69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T/C 'R' Type Thermocouple	Using Multifunction Calibrator and Multimeter by Direct method	0 °C to 1750 °C	0.23 °C
70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T/C 'S' Type Thermocouple	Using Multifunction Calibrator and Multimeter by Direct method	0 °C to 1750 °C	0.13 °C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T/C 'T' Type Thermocouple	Using Multifunction Calibrator and Multimeter by Direct method	-250 °C to 400 °C	0.015 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T/C 'J' Type Thermocouple	Using Multifunction Calibrator by Direct method	-200 °C to 1200 °C	0.32 °C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T/C 'K' Type Thermocouple	Using Multifunction Calibrator by Direct method	-200 °C to 1372 °C	0.47 °C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T/C 'N' Type Thermocouple	Using Multifunction Calibrator by Direct method	-200 °C to 1300 °C	0.47 °C



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75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T/C 'R' Type Thermocouple	Using Multifunction Calibrator by Direct method	0 °C to 1750 °C	0.67 °C
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T/C 'S' Type Thermocouple	Using Multifunction Calibrator by Direct method	0 °C to 1750 °C	0.56 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T/C 'T' Type Thermocouple	Using Multifunction Calibrator by Direct method	-250 °C to 400 °C	0.74 °C
78	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate (AIR/N2)	Using Laminar Element, Sonic nozzle element and Mass Flow Terminal by Comparison method	100 sccm to 1000 sccm	2.68 sccm to 1.3 sccm
79	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate (AIR/N2)	Using Laminar Element, Sonic nozzle element and Mass Flow Terminal by Comparison method	3 slm to 30 slm	0.4 slm



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80	FLUID FLOW-FLOW MEASURING DEVICES	Flow Rate (Air/N2)	Using Laminar Element, Sonic nozzle element and Mass Flow Terminal by Comparison method	30 slm to 105 slm	1.23 slm
81	MECHANICAL-PRESSURE INDICATING DEVICES	Absolute Pressure Indicating Devices, Pressure Transmitter	Using Pressure Controller and Digital Multimeter/Process Calibrator by Comparison method as per DKD-R-6-1	0.15 bar to 1.6 bar	0.006 bar
82	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Indicating Devices, Pressure Transmitter	Using Electronic Dead weight testers and Digital Multimeter/Process Calibrator by Comparison method as per DKD-R-6-1	0 to 70 bar	0.03 bar
83	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Indicating Devices, Pressure Transmitter	Using Electronic Dead weight testers and Digital Multimeter/Process Calibrator by Comparison method as per DKD-R-6-1	0 to 700 bar	0.15 bar



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84	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Indicating Devices, Pressure Transmitter	Using Pressure Controller and Digital Multimeter/Process Calibrator by Comparison method as per DKD-R-6-1	0 to 10 bar	0.012 bar
85	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Indicating Devices, Pressure Transmitter	Using Pressure Controller and Digital Multimeter/Process Calibrator by Comparison method as per DKD-R-6-1	0 to 14 mbar	0.011 mbar
86	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Indicating Devices, Pressure Transmitter	Using Pressure Controller and Digital Multimeter/Process Calibrator by Comparison method as per DKD-R-6-1	0 to 250 mbar	0.09 mbar
87	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Indicating devices, Vacuum gauge & Transmitter	Using Pressure Controller by Comparison method as per DKD-R-6-1	-400 mbar to 0 bar	0.02 mbar
88	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety Analyzer- Earth Resistance: (0.05 Ohm to 2.0 Ohm)	Using Resistance Box by Direct method	0.05 Ohm to 2 Ohm	0.02 Ohm



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89	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety Analyzer- ECG Frequency: (0.5 Hz to 50 Hz)	Using Differential amplifier and oscilloscope by Direct method	0.5 Hz to 50 Hz	0.058 Hz
90	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety Analyzer- ECG Heart Rate: (0.5 Hz to 5 Hz) (30 BPM to 240 BPM)	Using Differential amplifier & Oscilloscope by Direct method	(0.5 Hz to 4 Hz) (30 BPM to 240 BPM)	0.01 Hz
91	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety Analyzer- Equipment Current	Using AC Current Load by Comparison method	0.1 A to 8 A	0.048 A to 0.08 A
92	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety Analyzer- Insulation Resistance Test (0.5 Mohm to 100.0 Mohm)	Using HV Decade Mega Ohm Box by Direct method	0.5 Mohm to 100.0 Mohm	0.013 Mohm to 1.38 Mohm
93	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety Analyzer- Leakage Current: (1 µA to 10 mA DC)	Using Multiproduct Calibrator by Direct method	1 µA to 10 mA	0.064 µA to 0.026 mA
94	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety Analyzer- Mains voltage @50Hz	Using Multi product Calibrator by Comparison method	90 V to 264 V	0.25 V to 0.43 V
95	MEDICAL DEVICES-MONITORING UNIT	Fetal Heart Simulator- ECG Amplitude	Using Digital Multimeter by Direct Method	1 mV to 2 mV	0.08 mV to 0.12 mV



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96	MEDICAL DEVICES-MONITORING UNIT	Fetal Heart Simulator- ECG Frequency: (0.5 Hz to 50 Hz)	Using Differential Amplifier & Oscilloscope by Direct method	0.5 Hz to 50 Hz	0.06 Hz to 0.12 Hz
97	MEDICAL DEVICES-MONITORING UNIT	Fetal Heart Simulator- ECG/Maternal Heart rate : (0.5 Hz to 5 Hz) (30 to 300 BPM)	Using Oscilloscope by Direct method	0.5 Hz to 5 Hz	0.06 Hz to 0.12 Hz
98	MEDICAL DEVICES-MONITORING UNIT	Fetal Heart Simulator- Pressure Accuracy (TOCO) (20 mmHg to 100 mmHg) with 5 μ V and 40 μ V sensitivity with 5V excitation)	Using Power supply and 6 $\frac{1}{2}$ Digital Multimeter by Direct method	0.5 mV to 20 mV	0.18 %
99	MEDICAL DEVICES-MONITORING UNIT	NIBP Analyzers- Pressure Test (NIBP) /Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator-Blood Pressure (NIBP-Static 0 to 400 mmHg)	Using Pressure Gauge by Comparison method	0 to 400 mmHg	0.51 mmHg



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100	MEDICAL DEVICES-MONITORING UNIT	NIBP Analyzers/Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator- Leak Test: 0 mmHg to 2 mmHg/minute	Using Pressure Indicator by Comparison method	0 to 2 mmHg	0.063 mmHg
101	MEDICAL DEVICES-MONITORING UNIT	Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator- ECG Amplitude: (0.05 mV to 5.5 mV)	Using 6½ DMM with Differential Amplifier by Direct method	0.05 mV to 5.5 mV	0.51 mV to 0.14 mV
102	MEDICAL DEVICES-MONITORING UNIT	Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator- ECG Heart Rate: (0.5 Hz to 5 Hz) (30 BPM to 300 BPM)	Using Differential Amplifier & Frequency Counter (Oscilloscope) by Direct method	0.5 Hz to 5 Hz	0.06 Hz to 0.12 Hz



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103	MEDICAL DEVICES-MONITORING UNIT	Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator-Temperature Simulation- 11kohm to 48 kohm (30°C to 42°C)	Using 6½ Digital Multimeter by Direct method	11 kohm to 48 kohm	2.79 Ohm
104	MEDICAL DEVICES-MONITORING UNIT	Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator-Cardiac Output: (13 kohm to 15 kohm)	Using 6½ Digital Multimeter by Direct method	13 kohm to 15 kohm	2.96 Ohm
105	MEDICAL DEVICES-MONITORING UNIT	Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator-Invasive Blood Pressure (0.05 mV to 0.12 V with 5µV and 40µV sensitivity with 10V excitation (0 to 400 mmHg)	Using Power supply and 6½ Digital Multimeter by Comparison method	0.05 mV to 0.12 V	0.41 %



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106	MEDICAL DEVICES- PATIENT CONDITIONING / MAINTENANCE	Defibrillator Analyzer- Charge Time	Using Stop watch by Direct method	2 s to 8 s	0.1 s to 0.23 s
107	MEDICAL DEVICES- PATIENT CONDITIONING / MAINTENANCE	Defibrillator Analyzer- ECG Heart Rate- (0.5 Hz to 5Hz) (30 BPM to 300 BPM)	Using Frequency Counter/Scope by Direct method	0.5 Hz to 5 Hz	0.06 Hz to 0.12 Hz
108	MEDICAL DEVICES- PATIENT CONDITIONING / MAINTENANCE	Defibrillator Analyzer- Energy	Using Defibrillator Gold Standard by Comparison method	10 J to 360 J	0.10 J to 1.29 J
109	MEDICAL DEVICES- PATIENT CONDITIONING / MAINTENANCE	Defibrillator Analyzer- Load Resistance	Using 6½ Digital Multimeter by Direct method	50 Ohm to 1500 Ohm	0.011 Ohm to 0.18 Ohm
110	MEDICAL DEVICES- PATIENT CONDITIONING / MAINTENANCE	Electrosurgery Analyzer- Analyzer Output Power	Using Current coil with true RMS meter by Direct method	1 W to 300 W	0.14 W to 7.29 W



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111	MEDICAL DEVICES- PATIENT CONDITIONING / MAINTENANCE	Electrosurgery Analyzer- CQM Resistance	Using 6½ Digital Multimeter by Direct method	0.1 Ohm to 475 Ohm	0.011 Ohm to 0.18 Ohm
112	MEDICAL DEVICES- PATIENT CONDITIONING / MAINTENANCE	Electrosurgery Analyzer- Current output/Vessel Sealing Current/ HF Leakage Current	Using Current coil with true RMS meter by Direct method	40 mA to 1500 mA	0.05 A to 0.09 A
113	MEDICAL DEVICES- PATIENT CONDITIONING / MAINTENANCE	Electrosurgery Analyzer- Load Resistance	Using 6½ Digital Multimeter by Direct method	10 Ohm to 5200 Ohm	0.017 Ohm to 0.079 Ohm
114	MEDICAL DEVICES- PATIENT CONDITIONING / MAINTENANCE	Gas Flow Analyzer- Flow Rate	Using Laminar Element, Sonic nozzle element and Mass Flow Terminal by Comparison method	0.1 lpm to 105 lpm	0.006 lpm to 2.45 lpm
115	MEDICAL DEVICES- PATIENT CONDITIONING / MAINTENANCE	Gas Flow Analyzer- Humidity measurement	Using Hygrometer by Comparison method	30 %rh to 90 %rh	2.8 %rh



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116	MEDICAL DEVICES- PATIENT CONDITIONING / MAINTENANCE	Gas Flow Analyzer- Pressure	Using Pressure Controller Calibrator by Comparison method	-150.00 mbar to 10 bar	0.02 mbar to 0.012 bar
117	MEDICAL DEVICES- PATIENT CONDITIONING / MAINTENANCE	Gas flow analyzer- Barometric Pressure	Using Pressure Controller by Comparison method	0 to 1 bar	0.058 bar
118	MEDICAL DEVICES- PATIENT CONDITIONING / MAINTENANCE	Gas Flow analyzer- Temperature measurement	Using Temp. probe indicator by Comparison method	24 °C to 50 °C	0.8 °C
119	MEDICAL DEVICES- PATIENT CONDITIONING / MAINTENANCE	Pacemaker Analyzer-Load Resistance Test	Using 6½ Digital Multimeter by Direct method	50 Ohm to 1500 Ohm	0.017 Ohm to 0.18 Ohm
120	THERMAL- TEMPERATURE	Temperature / (INFRARED/ NON- CONTACT THERMOMETERS)	Using Non-Contact pyrometer with Black body source (0.95% emissivity) by Comparison method	50 °C to 500 °C	2.6 °C



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121	THERMAL-TEMPERATURE	Temperature / (INFRARED/ NON-CONTACT THERMOMETERS) (For Non-medical purpose only)	Using Non-Contact pyrometer with Black body source (0.95% emissivity) by Comparison method	-15 °C to 120 °C	1.89 °C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (45Hz to 1kHz)	Using Digital Multimeter and Shunt by Direct method	10 A to 20 A	0.67 A
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (45Hz to 1kHz)	Using Multimeter by Direct method	100 µA to 300 mA	0.2 µA to 0.57 mA
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (45Hz to 1kHz)	Using Multimeter by Direct method	300 mA to 10 A	0.57 mA to 0.25 A
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (10Hz to 1kHz)	Using 8½ Digit Multimeter by Direct method	20 mV to 200 mV	0.05 mV to 0.09 mV



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (10Hz to 1kHz)	Using 8½ Digit Multimeter by Direct method	20 V to 60 V	0.007 V to 0.01 V
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (10Hz to 1kHz)	Using 8½ Digit Multimeter by Direct method	200 mV to 20 V	0.05 mV to 0.007 V
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ (40Hz to 1kHz)	Using 8½ Digit Multimeter by Direct method	60 V to 700 V	0.01 V to 0.3 V
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50Hz	Using 8½ Digit Multimeter by Direct method	10 mV to 100 mV	0.01 7 mV to 0.01 mV
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50Hz	Using 8½ Digit Multimeter by Direct method	100 mV to 100 V	0.01 mV to 0.06 V



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50Hz	Using 8½ Digit Multimeter by Direct method	100 V to 700 V	0.06 V to 0.35 V
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (10Hz to 10kHz)	Using Multi Product Calibrator by Direct method	329 µA to 1 A	0.05 µA to 0.05 A
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (45Hz to 1kHz)	Using Multi Product Calibrator by Direct method	30 µA to 1 A	0.052 µA to 0.006 A
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (45Hz to 5kHz)	Using Multi Product Calibrator by Direct method	1 A to 3 A	0.006 A to 0.01 A
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ (45Hz to 5kHz)	Using Multi Product Calibrator by Direct method	2 A to 20 A	0.03 A



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15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ (50Hz to 100Hz)	Using Multi Product Calibrator with Current coil by Direct method	100 A to 1000 A	0.3 A to 9.3 A
16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ (50Hz to 100Hz)	Using Multi product Calibrator and Current coil by Direct method	20 A to 100 A	0.03 A to 0.3 A
17	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ (10Hz to 100kHz)	Using Multi Product Calibrator by Direct method	30 mV to 200 mV	0.01 mV to 0.04 mV
18	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ (10Hz to 1kHz)	Using Multi Product Calibrator by Direct method	200 mV to 20 V	0.04 mV to 0.04 V
19	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ (1kHz to 100kHz)	Using Multi Product Calibrator by Direct method	10 V to 100 V	0.04 V to 0.1 V
20	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ (45Hz to 1kHz)	Using Multi Product Calibrator by Direct method	20 V to 200 V	0.04 V to 0.08 V



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21	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ (50Hz to 1kHz)	Using Multi Product Calibrator by Direct method	200 V to 1000 V	0.1 V to 0.4 V
22	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10Hz	Using Multi Product Calibrator by Direct method	1 mV to 20 mV	0.03 mV to 0.01 mV
23	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10Hz	Using Multi Product Calibrator by Direct method	1 mV to 20 V	0.059 mV
24	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10kHz	Using Multi Product Calibrator by Direct method	100 V to 1000 V	0.1 V to 0.4 V
25	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10kHz	Using Multi Product Calibrator by Direct method	200 mV to 100 V	0.03 mV to 0.1 V
26	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using Multi Product Calibrator by Direct method	10 mV to 100 mV	0.028 mV



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27	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using Multi Product Calibrator by Direct method	100 mV to 1000 V	0.028 mV to 0.48 V
28	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Frequency	Using Multi Product Calibrator by Direct method	1 Hz to 10 Hz	0.001 Hz
29	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Frequency	Using Multi Product Calibrator by Direct method	10 Hz to 1 MHz	0.001 Hz to 2.5 Hz
30	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter by Direct method	1 µA to 100 µA	0.003 µA
31	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct method	1 A to 10 A	0.006 A to 0.02 A
32	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter and Shunt by Direct method	10 A to 20 A	0.02 A



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33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter by Direct method	100 µA to 100 mA	0.003 µA to 0.005 mA
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Multimeter by Direct method	100 mA to 1 A	0.005 mA to 0.006 A
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter by Direct method	10 mV to 100 mV	0.002 mV
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter by Direct method	10 V to 1000 V	0.0001 V to 0.013 V
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Multimeter by Direct method	100 mV to 10 V	0.002 mV to 0.0001 V
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digit Multimeter by Direct method	1 kohm to 100 kohm	0.008 kohm to 0.002 kohm



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39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digit Multimeter by Direct method	1 Mohm to 10 Mohm	0.001 Mohm
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digit Multimeter by Direct method	10 Mohm to 100 Mohm	0.001 Mohm to 0.06 Mohm
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digit Multimeter by Direct method	10 Ohm to 100 Ohm	0.0003 Ohm to 0.002 Ohm
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digit Multimeter by Direct method	100 kohm to 1 Mohm	0.002 kohm to 1 kohm
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digit Multimeter by Direct method	100 Mohm to 1000 Mohm	0.06 Mohm to 0.18 Gohm
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digit Multimeter by Direct method	100 Ohm to 1 kohm	0.003 Ohm to 0.008 kohm



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45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	1 A to 20 A	0.006 A to 0.05 A
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	10 μ A to 100 μ A	0.006 μ A to 0.015 μ A
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct method	100 μ A to 1 A	0.017 μ A to 0.006 A
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with Current coil by Direct method	100 A to 1000 A	0.07 A to 6.4 A
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with Current coil by Direct method	20 A to 100 A	0.05 A to 0.07 A
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Multifunction Calibrator by Direct method	250 kohm to 100 Gohm	1.6 kohm to 0.3 Gohm



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51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box by Direct method	50 mohm to 1 Ohm	0.2 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage / DMM	Using Multi Product Calibrator by Direct method	1 mV to 10 mV	0.004 mV
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage / DMM	Using Multi Product Calibrator by Direct method	10 mV to 100 mV	0.004 mV
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage / DMM	Using Multi Product Calibrator by Direct method	100 mV to 1000 V	0.004 mV to 0.055 V
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct method	1 Mohm to 10 Mohm	0.001 Mohm to 0.006 Mohm
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct method	1 Ohm to 10 Ohm	0.007 Ohm to 0.006 Ohm



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57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct method	10 Mohm to 100 Mohm	0.006 Mohm to 0.059 Mohm
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct method	10 Ohm to 100 kohm	0.006 Ohm to 0.004 kohm
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator with Direct method	100 kohm to 1 Mohm	0.004 kohm to 0.001 Mohm
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct method	100 Mohm to 1000 Mohm	0.059 Mohm to 0.13 Mohm
61	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Amplitude @ (1kHz to 50kHz) Sine Wave)	Using Multi Product Calibrator by Direct method	100 mV to 5.5 V	1.3 mV to 0.14 mV
62	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Amplitude @ (1kHz to 50kHz) Sine Wave)	Using Multi Product Calibrator by Direct method	5 mV to 100 mV	0.45 mV to 1.1 mV



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63	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Bandwidth)	Using Multi Product Calibrator by Direct method	50 kHz to 1 Ghz	4.7 % to 7.2 %
64	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (DC Amplitude)	Using Multi Product Calibrator by Direct method	2.4 mV to 130 V	0.05 mV to 0.002 mV
65	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Timebase)	Using Multi Product Calibrator by Direct method	2 ns to 5 s	0.003 ns to 0.1 ns
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T/C 'J' Type Thermocouple	Using Multifunction Calibrator and Multimeter by Direct method	-200 °C to 1200 °C	0.14 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T/C 'K' Type Thermocouple	Using Multifunction Calibrator and Multimeter by Direct method	-200 °C to 1372 °C	0.14 °C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T/C 'N' Type Thermocouple	Using Multifunction Calibrator and Multimeter by Direct method	-200 °C to 1300 °C	0.24 °C



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69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T/C 'R' Type Thermocouple	Using Multifunction Calibrator and Multimeter by Direct method	0 °C to 1750 °C	0.23 °C
70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T/C 'S' Type Thermocouple	Using Multifunction Calibrator and Multimeter by Direct method	0 °C to 1750 °C	0.13 °C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T/C 'T' Type Thermocouple	Using Multifunction Calibrator and Multimeter by Direct method	-250 °C to 400 °C	0.015 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T/C 'J' Type Thermocouple	Using Multifunction Calibrator by Direct method	-200 °C to 1200 °C	0.32 °C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T/C 'K' Type Thermocouple	Using Multifunction Calibrator by Direct method	-200 °C to 1372 °C	0.47 °C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T/C 'N' Type Thermocouple	Using Multifunction Calibrator by Direct method	-200 °C to 1300 °C	0.47 °C



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75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T/C 'R' Type Thermocouple	Using Multifunction Calibrator by Direct method	0 °C to 1750 °C	0.67 °C
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T/C 'S' Type Thermocouple	Using Multifunction Calibrator by Direct method	0 °C to 1750 °C	0.56 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T/C 'T' Type Thermocouple	Using Multifunction Calibrator by Direct method	-250 °C to 400 °C	0.74 °C
78	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety Analyzer- Earth Resistance: (0.05 Ohm to 2.0 Ohm)	Using Resistance Box by Direct method	0.05 Ohm to 2 Ohm	0.02 Ohm
79	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety Analyzer- ECG Frequency: (0.5 Hz to 50 Hz)	Using Differential amplifier and oscilloscope by Direct method	0.5 Hz to 50 Hz	0.058 Hz
80	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety Analyzer- ECG Heart Rate: (0.5 Hz to 5 Hz) (30 BPM to 240 BPM)	Using Differential amplifier & Oscilloscope by Direct method	(0.5 Hz to 4 Hz) (30 BPM to 240 BPM)	0.01 Hz



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81	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety Analyzer- Equipment Current	Using AC Current Load by Comparison method	0.1 A to 8 A	0.048 A to 0.08 A
82	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety Analyzer- Insulation Resistance Test (0.5 Mohm to 100.0 Mohm)	Using HV Decade Mega Ohm Box by Direct method	0.5 Mohm to 100.0 Mohm	0.013 Mohm to 1.38 Mohm
83	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety Analyzer- Leakage Current: (1 µA to 10 mA DC)	Using Multiproduct Calibrator by Direct method	1 µA to 10 mA	0.064 µA to 0.026 mA
84	MEDICAL DEVICES-IMAGING/PLOTTERS	Electrical Safety Analyzer- Mains voltage @50Hz	Using Multi product Calibrator by Comparison method	90 V to 264 V	0.25 V to 0.43 V
85	MEDICAL DEVICES-MONITORING UNIT	Fetal Heart Simulator- ECG Amplitude	Using Digital Multimeter by Direct Method	1 mV to 2 mV	0.08 mV to 0.12 mV
86	MEDICAL DEVICES-MONITORING UNIT	Fetal Heart Simulator- ECG Frequency: (0.5 Hz to 50 Hz)	Using Differential Amplifier & Oscilloscope by Direct method	0.5 Hz to 50 Hz	0.06 Hz to 0.12 Hz
87	MEDICAL DEVICES-MONITORING UNIT	Fetal Heart Simulator- ECG/Maternal Heart rate : (0.5 Hz to 5 Hz) (30 to 300 BPM)	Using Oscilloscope by Direct method	0.5 Hz to 5 Hz	0.06 Hz to 0.12 Hz



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88	MEDICAL DEVICES-MONITORING UNIT	Fetal Heart Simulator- Pressure Accuracy (TOCO) (20 mmHg to 100 mmHg) with 5 μ V and 40 μ V sensitivity with 5V excitation)	Using Power supply and 6 $\frac{1}{2}$ Digital Multimeter by Direct method	0.5 mV to 20 mV	0.18 %
89	MEDICAL DEVICES-MONITORING UNIT	NIBP Analyzers- Pressure Test (NIBP) /Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator-Blood Pressure (NIBP-Static 0 to 400 mmHg)	Using Pressure Gauge by Comparison method	0 to 400 mmHg	0.51 mmHg
90	MEDICAL DEVICES-MONITORING UNIT	NIBP Analyzers/Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator- Leak Test: 0 mmHg to 2 mmHg/minute	Using Pressure Indicator by Comparison method	0 to 2 mmHg	0.063 mmHg



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91	MEDICAL DEVICES-MONITORING UNIT	Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator- ECG Amplitude: (0.05 mV to 5.5 mV)	Using 6½ DMM with Differential Amplifier by Direct method	0.05 mV to 5.5 mV	0.51 mV to 0.14 mV
92	MEDICAL DEVICES-MONITORING UNIT	Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator- ECG Heart Rate: (0.5 Hz to 5 Hz) (30 BPM to 300 BPM)	Using Differential Amplifier & Frequency Counter (Oscilloscope) by Direct method	0.5 Hz to 5 Hz	0.06 Hz to 0.12 Hz
93	MEDICAL DEVICES-MONITORING UNIT	Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator- Temperature Simulation- 11kohm to 48 kohm (30°C to 42°C)	Using 6½ Digital Multimeter by Direct method	11 kohm to 48 kohm	2.79 Ohm
94	MEDICAL DEVICES-MONITORING UNIT	Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator-Cardiac Output: (13 kohm to 15 kohm)	Using 6½ Digital Multimeter by Direct method	13 kohm to 15 kohm	2.96 Ohm



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95	MEDICAL DEVICES-MONITORING UNIT	Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator-Invasive Blood Pressure (0.05 mV to 0.12 V with 5µV and 40µV sensitivity with 10V excitation (0 to 400 mmHg)	Using Power supply and 6½ Digital Multimeter by Comparison method	0.05 mV to 0.12 V	0.41 %
96	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator Analyzer- Charge Time	Using Stop watch by Direct method	2 s to 8 s	0.1 s to 0.23 s
97	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator Analyzer- ECG Heart Rate- (0.5 Hz to 5Hz) (30 BPM to 300 BPM)	Using Frequency Counter/Scope by Direct method	0.5 Hz to 5 Hz	0.06 Hz to 0.12 Hz
98	MEDICAL DEVICES-PATIENT CONDITIONING / MAINTENANCE	Defibrillator Analyzer- Energy	Using Defibrillator Gold Standard by Comparison method	10 J to 360 J	0.10 J to 1.29 J



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99	MEDICAL DEVICES- PATIENT CONDITIONING / MAINTENANCE	Defibrillator Analyzer- Load Resistance	Using 6½ Digital Multimeter by Direct method	50 Ohm to 1500 Ohm	0.011 Ohm to 0.18 Ohm
100	MEDICAL DEVICES- PATIENT CONDITIONING / MAINTENANCE	Electrosurgery Analyzer- Analyzer Output Power	Using Current coil with true RMS meter by Direct method	1 W to 300 W	0.14 W to 7.29 W
101	MEDICAL DEVICES- PATIENT CONDITIONING / MAINTENANCE	Electrosurgery Analyzer- CQM Resistance	Using 6½ Digital Multimeter by Direct method	0.1 Ohm to 475 Ohm	0.011 Ohm to 0.18 Ohm
102	MEDICAL DEVICES- PATIENT CONDITIONING / MAINTENANCE	Electrosurgery Analyzer- Current output/Vessel Sealing Current/ HF Leakage Current	Using Current coil with true RMS meter by Direct method	40 mA to 1500 mA	0.05 A to 0.09 A
103	MEDICAL DEVICES- PATIENT CONDITIONING / MAINTENANCE	Electrosurgery Analyzer- Load Resistance	Using 6½ Digital Multimeter by Direct method	10 Ohm to 5200 Ohm	0.017 Ohm to 0.079 Ohm



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

