



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

ELECTRONICS REGIONAL TEST LABORATORY (EAST)

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, WEST BENGAL, INDIA

in the field of

CALIBRATION

Certificate Number: CC-2008

Issue Date: 21/01/2026

Valid Until: 20/01/2030

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: ELECTRONICS REGIONAL TEST LABORATORY (EAST)

Signed for and on behalf of NABL



Anita Rani
Director

Dr. Ramanand N. Shukla
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63,
SECTOR V, SALT LAKE, KOLKATA, WEST BENGAL, 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 Voltage (100 MHz to 1 GHz)	Using RF MilliVoltmeter, Signal Generator with Amplifier by Comparison Method	10 mV to 7 V	3.5 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy 1Ph2W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF to 0.5 PF (lead & Lag)	Using Three Phase Comparator by Comparison Method.	0.3 Wh to 28.8 kWh	0.014 % to 0.023 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy 3Ph3W/ 3Ph4W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Comparator by Comparison Method	0.9 Wh to 86.4 kWh	0.017 % to 0.023 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Power 3Ph3W/ 3Ph4W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Comparator by Comparison Method	0.9 W to 86.4 kW	0.015 % to 0.023 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Power 1Ph2W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Comparator by Comparison Method.	0.3 W to 28.8 kW	0.014 % to 0.023 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (40 Hz to 1 kHz)	Using 8½ digit DMM by Direct/Comparison Method	1 mA to 20 A	0.02 % to 0.035 %



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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current at 50 Hz	Using Three phase comparator by Direct Method	0.01 A to 120 A	0.013 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current at 1 kHz	Using DMM With AC Shunt by V/R Method	10 μ A to 1 A	0.05 % to 0.02 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current at 1 kHz	Using DMM by Direct Method	10 μ A to 1 A	0.05 % to 0.02 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage at 50 Hz	Using DMM & HV Probe By Direct Method	>1 kV to 28 kV	6 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Energy 1Ph2W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Comparator by Comparison Method	0.3 VARh to 28.8 kVARh	0.018 % to 0.023 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Energy 3Ph3W/ 3Ph4W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Comparator by Comparison Method	0.9 VARh to 86.4 kVARh	0.014 % to 0.023 %



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13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Power 1Ph2W (50Hz) 60 V to 240V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Comparator by Comparison Method	0.3 VAR to 28.8 kVAR	0.014 % to 0.023 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Power 3Ph3W/ 3Ph4W (50 Hz) (active and reactive) 60 V to 240 V, 10 mA to 120 A , UPF - 0.5 PF (lead & Lag)	Using Three Phase Comparator by Comparison Method	0.9 VAR to 86.4 kVAR	0.015 % to 0.023 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance at 1 kHz	Using RLC Digibridge By Direct Method	1 ohm to 100 kohm	0.3 % to 0.1 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (1 MHz to 100 MHz)	Using RF Milli Voltmeter by Direct Method	10 mV to 10 V	3.3 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (1 MHz to 100 MHz)	Using Signal Generator with RF amplifier, RF Milli Voltmeter by Comparison Method	10 mV to 10 V	3.3 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (10 Hz to 40 Hz)	Using DMM, Calibrator, Thermal Voltage Converter by Direct/ Comparison Method	1 mV to 1000 V	0.5 % to 0.015 %



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19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (10 kHz to 100 kHz)	Using DMM, Calibrator by Direct/ Comparison Method	1 mV to 1 V	0.43 % to 0.018 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (10 kHz to 100 kHz)	Using DMM, Calibrator, Thermal Voltage Converter by Direct/ Comparison Method:	1 V to 100 V	0.014 % to 0.02 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (100 kHz to 1 MHz)	Using Calibrator, DMM & AC Measurement Standard by Direct/Comparison Method	1 mV to 1 V	1.34 % to 0.1 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (40 Hz to 10 kHz)	Using DMM, Calibrator & Thermal Voltage Converter by Direct/ Comparison Method:	1 mV to 100 V	0.5 % to 0.014 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance at 1 kHz	Using RLC Digibridge By Direct Method	1 mF to 10 mF	1.2 % to 0.3 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance at 1 kHz	Using RLC Digibridge by Direct Method	1 pF to 1.0 mF	0.04 % to 1.2 %



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25	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Inductance at 1 kHz	Using RLC Digibridge by Direct Method	100 µH to 10 H	0.2 % to 0.06 %
26	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Phase Angle (50 Hz, 240 V, 5 A)	Using Three Phase Comparator by Comparison Method	0° to 180° (Lead & Lag)	0.006°
27	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Power Factor (50 Hz, 240 V, 5 A)	Using Three Phase Comparator by comparison Method	0.1 pF to 1 pF	0.01 %
28	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Active Energy 1Ph2W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Power/ Energy Test Bench (Three Phase Comparator with Source) by Direct Method	0.3 Wh to 28.8 kWh	0.017 % to 0.023 %
29	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Active Energy 3Ph4W/ 3Ph3W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Power/ Energy Test Bench (Three Phase Comparator with Source) by Direct Method	0.9 Wh to 86.4 kWh	0.014 % to 0.023 %
30	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Active Power 3Ph3W/ 3Ph4W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Power/ Energy Test Bench (Three Phase Comparator with Source) by Direct Method	0.9 W to 86.4 kW	0.017 % to 0.023 %



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31	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Active Power 1Ph2W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Power/ Energy Test Bench by Direct Method	0.3 W to 28.8 kW	0.014 % to 0.025 %
32	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current at 50 Hz	Using Multifunction Calibrator and Current Coil by Direct Method	20 A to 6000 A	0.55 %
33	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (10 Hz to 5 kHz)	Using Multifunction Calibrator by Direct Method	10 µA to 1 A	0.08 % to 0.05 %
34	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 5 kHz)	Using Multifunction Calibrator by Direct Method	1 A to 20 A	0.05 % to 0.035 %
35	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current at 50Hz	Using Three phase comparator by Direct Method	10 mA to 100 A	0.013 %
36	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC High Voltage at 50 Hz	Using HV Source, HV Probe With DMM By Comparison Method	>1 kV to 28 kV	6 %
37	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Reactive Energy 1Ph2W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Power/ Energy Test Bench (Three Phase Comparator with Source) by Direct Method	0.3 VARh to 28.8 kVARh	0.02 % to 0.023 %



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38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Reactive Energy 3Ph3W/ 3Ph4W (50 Hz), 60 V to 240V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Power/ Energy Test Bench (Three Phase Comparator with Source) by Direct Method	0.9 VARh to 86.4 kVARh	0.017 % to 0.023 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Reactive Power 1Ph2W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Power/ Energy Test Bench (Three Phase Comparator with Source) by Direct Method	0.3 VAR to 28.8 kVAR	0.014 % to 0.025 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Reactive Power 3Ph3W/ 3Ph4W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Power/ Energy Test Bench (Three Phase Comparator with Source) by Direct Method	0.9 VAR to 86.4 kVAR	0.014 % to 0.023 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Resistance at 1 kHz	Using AC/DC Resistance Standard by Direct Method	1 ohm, 10 ohm, 100 ohm, 1 kohm, 10 kohm	0.01 %
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (1 MHz to 1 GHz)	Using Calibrator, Signal Generator With Amplifier by Comparison Method	10 mV to 7 V	3.5 %
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 45 Hz)	Using Multifunction Calibrator by Direct Method	1 mV to 1000 V	0.7 % to 0.025 %



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44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 kHz to 50 kHz)	Using Multifunction Calibrator by Direct Method	1 V to 100 V	0.014 % to 0.02 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 kHz to 50 kHz)	Using Multifunction Calibrator by Direct Method	1 mV to 1 V	0.2 % to 0.014 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 10 kHz)	Using Multifunction Calibrator by Direct Method	1 mV to 100 V	0.4 % to 0.01 %
47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 10 kHz)	Using Multifunction Calibrator by Direct Method	100 V to 1000 V	0.008 % to 0.02 %
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 kHz to 1 MHz)	Using Multifunction Calibrator by Direct Method	1 mV to 100 mV	0.05 % to 1.2 %
49	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 kHz to 1 MHz)	Using Multifunction Calibrator by Direct Method	100 mV to 10 V	0.25 % to 0.12 %
50	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance at 1 kHz	Using Standard Capacitor By Direct Method	1 μF, 10 μF, 100μF, 1mF, 10 mF	0.1 %



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51	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance at 1 kHz	Using Standard Capacitor By Direct Method	1 pF	0.01 %
52	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance at 1 kHz	Using Standard Capacitor By Direct Method	10 pF, 100 pF, 1000 pF	0.01 %
53	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance at 1 kHz	Using Decade Capacitor By Direct Method	100 pF to 1 µF	0.25 %
54	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance at 1 kHz	Using Multifunction Calibrator By Direct Method	190 pF to 300 nF	0.50 %
55	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance at 1 kHz	Using Standard Inductor by Direct Method	1 mH, 10 mH, 100 mH, 1 H, 10 H	0.03 %
56	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance at 1 kHz	Using Standard Inductor by Direct Method	100 µH	0.05 %
57	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance at 1 kHz	Using Decade Inductor by Direct Method	100 µH to 10 H	0.30 %



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58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Current Shunt, Current Source & DMM by Direct/Comparison Method	1 mA to 20 A	0.002 % to 0.005 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Current Shunt, Current Source & DMM by Direct/Comparison Method	10 µA to 1 mA	0.006 % to 0.002 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Current Shunt, Current Source & DMM by Comparison (V/R) Method	20 A to 100 A	0.008 % to 0.05 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Current Source , current shunt and Digital Multimeter by comparison (V/I) method	20 A to 800 A	0.5 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV probe and and Digital Multimeter by Direct method	1 kV to 40 kV	2.5 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using DMM, Standard High Resistance Meter by Substitution Method	1 Mohm to 20 Gohm	0.001 % to 0.20 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance @ 100 V - 2 Wire	Using High Resistance Meter & Standard Resistance by Substitution Method	20 Gohm to 1 Tohm	0.2 % to 2.5 %



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65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance- 2 Wire & 4 Wire	Using DMM, Standard Resistance with Calibrator by Substitution Method	0.001 ohm to 1 Mohm	0.004 % to 0.001 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance- 4 Wire	Using DMM, Standard Resistance Calibrator by Substitution Method	0.0001 ohm to 0.001 ohm	0.03 % to 0.004 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using DMM by Direct method	1 mV to 10 V	0.02 % to 0.0004 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using DMM by Direct method	10 μ V to 1 mV	2.2 % to 0.014 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using DMM by Direct method	10 V to 1000 V	0.0004 % to 0.0005 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator By Direct Method	1 A to 20 A	0.005 % to 0.01 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 8.5 Digit DMM & DC Shunt By V/R Method	10 μ A to 1 A	0.01 % to 0.005 %



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72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Calibrator By Direct Method	10 μ A to 1 A	0.01 % to 0.005 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator & current coil By Direct Method	20 A to 1000 A	0.21 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Voltage	Using High Voltage Source, HV Probe and Digital Multimeter by Comparison Method	>1 kV to 40 kV	2.5 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (100 V to 1000 V) - 2 Wire	Using Decade Resistance Box By Direct Method	10 Mohm to 1 Tohm	0.003 % to 3 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Standard Resistance By Direct Method	0.0001 ohm	0.05 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Standard Resistance by direct method	0.001 ohm, 0.01 ohm, 0.1 ohm, 1 ohm, 10 ohm	0.02 % to 0.001 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance @ 100 V - 2 Wire	Using Standard Resistance By Direct Method	1 Gohm	0.03 %



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79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance @ 100 V - 2 Wire	Using Standard Resistance By Direct Method	10 Gohm, 100 Gohm, 1 Tohm	0.5 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance at 100 V - 2 Wire	Using Decade Resistance Box By Direct Method	100 kohm to 1 Tohm	0.003 % to 5 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance at 2500 V - 2 Wire	Using Decade Resistance Box By Direct Method	100 Mohm to 500 Mohm	2 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance at 5000 V - 2 Wire	Using Decade Resistance Box By Direct Method	1 Gohm to 1 Tohm	2 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance- 2 Wire	Using Standard Resistance By Direct Method	100 Mohm	0.002 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance- 2 Wire & 4 Wire	Using Decade Resistance By Direct Method	0.01 ohm to 100 kohm	0.3 % to 0.004 %
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance- 2 Wire & 4 Wire	Using Standard Resistance by Direct Method	100 ohm, 1 kohm, 10 kohm 100 kohm, 1 Mohm, 10 Mohm	0.001 %



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86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator By Direct Method	10 μ V to 10 V	2 % to 0.0003 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using DC Reference Standard by direct method	1.018 V	0.0003%
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using DC Reference Standard by direct method	10 V	0.0003 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator By Direct Method	10 V to 1000 V	0.0003 % to 0.0004 %
90	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Attenuation (50 MHz to 1 GHz)	Using RF Millivoltmeter by Direct Method	1 dB to 60 dB	0.17 dB
91	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Bandwidth (100 Hz to 2 GHz)	Using Signal Generator & RF Power Meter by Comparison Method	3 dB	2.9 %



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92	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power (50 MHz to 2 GHz)	Using RF Level Meter, RF Signal Generator By Direct/ Comparison Method	1 mW to 40 mW	4 %
93	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power (50 MHz to 2 GHz)	Using RF Level Meter, RF Signal Generator By Direct/ Comparison Method	1 nW to 1 mW	6 %
94	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power sources and meters (50 MHz to 2 GHz)	Using RF Level Meter, RF Signal Generator By Direct/ Comparison Method	1 nW to 1 mW	6 %
95	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power sources and RF power meters (50 MHz to 1 GHz)	Using RF Level Meter, RF Signal Generator By Direct/ Comparison Method	40 mW to 80 W	4 %
96	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power sources and RF power meters (50 MHz to 2 GHz)	Using RF Level Meter, RF Signal Generator By Direct/ Comparison Method	1 mW to 40 mW	4 %
97	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	VSWR (50 MHz to 1 GHz)	Using SWR Bridge & RF Level Meter By Comparison Method	1.05 to 3	0.15



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98	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Attenuation (50 MHz to 1 GHz)	Using RF Attenuator By Direct Method	1 dB to 60 dB	0.27 dB
99	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	VSWR (50 MHz to 2 GHz)	Using SWR Bridge & RF Level Meter By Comparison Method	1.05 to 3	0.15
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B- Type Thermocouple	Using 8½ digit DMM by Direct method	600 °C to 1800 °C	0.30 °C
101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E- Type Thermocouple	Using 8½ digit DMM by Direct method	(-)250 °C to 1000 °C	0.20 °C
102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J- Type Thermocouple	Using 8½ digit DMM by Direct method	(-)210 °C to 1200 °C	0.20 °C
103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K- Type Thermocouple	Using 8½ digit DMM by Direct method	(-)200 °C to 1350 °C	0.20 °C
104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	L Type Thermocouple	Using 8½ digit DMM by Direct method	(-)200 °C to 900 °C	0.20 °C



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105	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using 8½ digit DMM by Direct method	(-)200 °C to 1400 °C	0.20 °C
106	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R- Type Thermocouple	Using 8½ digit DMM by Direct method	0 °C to 1750 °C	0.2 °C
107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD Type PT 100	Using 8½ digit DMM by Direct method	(-)200 °C to 800 °C	0.02 °C
108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S- Type Thermocouple	Using 8½ digit DMM by Direct method	0 °C to 1750 °C	0.2 °C
109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	TC T- Type	Using 8.5 dgt DMM by Direct method	(-)250 °C to 400 °C	0.40 °C
110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	U- Type Thermocouple	Using 8½ digit DMM by Direct method	(-)200 °C to 600 °C	0.25 °C
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B-Type Thermocouple	Using Multiproduct Calibrator by Direct method	600 °C to 1800 °C	0.30 °C



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112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E- Type Thermocouple	Using Multiproduct Calibrator by Direct method	(-)-250 °C to 1000 °C	0.20 °C
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J- Type Thermocouple	Using Multiproduct Calibrator by Direct method	(-)-210 °C to 1200 °C	0.20 °C
114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K- Type Thermocouple	Using Multiproduct Calibrator by Direct method	(-)-200 °C to 1350 °C	0.20 °C
115	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	L- Type Thermocouple	Using Multiproduct Calibrator by Direct method	(-)-200 °C to 900 °C	0.20 °C
116	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N- Type Thermocouple	Using Multiproduct Calibrator by Direct method	(-)-200 °C to 1400 °C	0.20
117	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R- Type Thermocouple	Using Multiproduct Calibrator by Direct method	0 °C to 1750 °C	0.10 °C
118	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD Type PT 100	Using Multiproduct Calibrator by Direct method	(-)-200 °C to 800 °C	0.05 °C



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119	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S- Type Thermocouple	Using Multiproduct Calibrator by Direct method	0 °C to 1750 °C	0.10 °C
120	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T- Type Thermocouple	Using Multiproduct Calibrator by Direct method	(-)-250 °C to 400 °C	0.40 °C
121	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	U- Type Thermocouple	Using Multiproduct Calibrator by Direct method	(-)-200 °C to 600 °C	0.25 °C
122	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using frequency Counter logged with GPS Controlled Rubidium frequency standard by Direct Method	10 Hz to 20 GHz	0.0005 % to 0.0000035 %
123	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Signal Generator / Function Generator and Frequency Counter logged with GPS controlled Rb Frequency Standard in Comparison method	1 nS to 2000 S	0.0002 %
124	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Frequency Counter logged with GPS controlled Rb Frequency Standard by Direct Method	1 nS to 2000 S	0.0002 %



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125	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Signal Generator logged with GPS Controlled Rubidium Frequency Standard by Direct Method.	10 Hz to 20 GHz	0.0005 % to 0.0000035 %
126	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Time	Using Calibrator, Function Generator, Signal Generator logged with GPS controlled Rb Frequency Standard by Direct Method	20 nS to 2000 S	0.0002 %
127	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Precision Tachometer & RPM Generator by Comparison method	100 rpm to 6000 rpm	0.84 %
128	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Standard Tachometer and LED Stroboscope externally triggered with Function Generator (as source) by comparison method	100 rpm to 999.9 rpm	0.3 %
129	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Standard Tachometer and LED Stroboscope externally triggered with Function Generator (as source) by comparison method	1000 rpm to 9999 rpm	0.1 %



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130	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Standard Tachometer and LED Stroboscope externally triggered with Function Generator (as source) by comparison method	10000 rpm to 29999 rpm	0.05 %
131	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Standard Tachometer and LED Stroboscope externally triggered with Function Generator (as source) by comparison method	30 rpm to 99.9 rpm	1.5 %
132	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Standard Tachometer and LED Stroboscope externally triggered with Function Generator (as source) by comparison method	30000 rpm to 70000 rpm	0.01 %
133	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge, Pressure Transmitter	Using Standard Digital Pressure Indicator with Hydraulic Pressure Comparator (as Source) & digital multimeter for Pressure transmitter by comparison method as per DKD R-6-1	0 to 700 bar	0.23 bar



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134	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge, Pressure Transmitter & Pressure Transducers	Using Dead Weight Tester and digital multimeter for Transmitter and Transducer by direct method as per DKD R-6-1	6 bar to 700 bar	0.02 %
135	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Precision Gauges, Precision Transmitter	Using Standard Digital Pressure Indicator with Hand Held Pneumatic and Vacuum Pump (as Source) & digital multimeter for Pressure transmitter by comparison method as per DKD R-6-1	0 to 40 bar	0.021 bar
136	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauges, Vacuum Transmitter	Using Standard Digital Pressure Indicator with Hand Held Pneumatic and Vacuum Pump (as Source) & digital multimeter for transmitter by comparison method as per DKD R-6-1 :	0 to (-) 0.9 bar	0.0042 bar
137	OPTICAL-OPTICAL	Colour Temperature	Using Standard Lamp by Direct Method	2838 K to 7000 K	31 K
138	OPTICAL-OPTICAL	Illuminance	Using Photometer by Comparison Method	10 lx to 5000 lx	1.75 %
139	OPTICAL-OPTICAL	Optical Attenuation (1310 nm, 1550 nm, 1625 nm)	Using Optical Power Meter and Source by Direct Method	1 dB to 40 dB	1.62 %



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140	OPTICAL- OPTICAL	Optical Power (1310 nm, 1550 nm, 1625 nm)	Using Optical power meter & optical attenuator by comparison method	-10 dBm to -40 dBm	2.09 %
141	OPTICAL- OPTICAL	Optical Wavelength	Using Spectral standard lamps (He-Ne Laser, A 4302, Kr (6031), Ne (6032), Xe (6033) and Optical Spectrum Analyzer by direct method	400 nm to 1750 nm	1.0 nm
142	OPTICAL- OPTICAL	X, Y Colour coordinate	Using Standard Lamp (TH) by Direct Method	x, y: 0.001 to 1	0.02
143	THERMAL- TEMPERATURE	IR Thermometer, Optical Pyrometer and Radiation Thermometer	Using Black Body Radiation Source, Reference IR Thermometer by Comparison Method; Emissivity=0.994	200 °C to 1200 °C	3.5 °C
144	THERMAL- TEMPERATURE	Liquid In Glass Thermometer	Using SPRT, Liquid Bath and Temperature Indicator by comparison method	(-)40 °C to 90 °C	0.08 °C
145	THERMAL- TEMPERATURE	Liquid in Glass Thermometer	Using SPRT, Silicon bath and Temperature Indicator by comparison method	90 °C to 250 °C	0.08 °C
146	THERMAL- TEMPERATURE	RTD/ PRT, Temperature Gauge, Thermocouple with or without Indicator	Using Liquid Baths, Dry Block Calibrator, SPRT & Temperature Indicator by Comparison Method	(-) 40 °C to 250 °C	0.08 °C



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147	THERMAL-TEMPERATURE	RTD/ PRT, Temperature Gauge, Thermocouple with or without Indicator	Using SPRT, Dry Block Calibrator & Temperature Indicator by Comparison Method	250 °C to 550 °C	0.12 °C
148	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Dry Block Calibrator, Temperature Furnace	Using R- Type Thermocouple & Temperature Indicator by Comparison Method	1200 °C to 1300 °C	3.5 °C
149	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Dry Block Calibrator, Temperature Furnace (Single Position)	Using R-Type Thermocouple & Temperature Indicator by Comparison Method	550 °C to 1200 °C	2.0 °C
150	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Bath, Dry Block Calibrators, Temperature Furnace (Single Position)	Using SPRT & Temperature Indicator by Comparison Method	250 °C to 550 °C	0.12 °C
151	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Baths, Dry Block Calibrators (Single Position)	Using SPRT & Temperature Indicator by Comparison Method	(-)40 °C to 250 °C	0.08 °C
152	THERMAL-TEMPERATURE	Thermocouple with or without Indicator, Temperature Recorder With Sensor	Using R-Type Thermocouple, Temperature Indicator & Tube Furnace by Comparison Method	1200 °C to 1300 °C	3 °C

This is annexure to 'Certificate of Accreditation' and does not require any signature.



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153	THERMAL-TEMPERATURE	Thermocouple with or without Indicator, Temperature Recorder With Sensor	Using R-Type Thermocouple, Dry Block Calibrator & Temperature Indicator by Comparison Method	550 °C to 1200 °C	2 °C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (100 MHz to 1 GHz)	Using RF MilliVoltmeter, Signal Generator with Amplifier by Comparison Method	10 mV to 7 V	3.5 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy 1Ph2W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF to 0.5 PF (lead & Lag)	Using Three Phase Comparator by Comparison Method.	0.3 Wh to 28.8 kWh	0.014 % to 0.023 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy 3Ph3W/ 3Ph4W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Comparator by Comparison Method	0.9 Wh to 86.4 kWh	0.017 % to 0.023 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Power 3Ph3W/ 3Ph4W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Comparator by Comparison Method	0.9 W to 86.4 kW	0.015 % to 0.023 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Power 1Ph2W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Comparator by Comparison Method.	0.3 W to 28.8 kW	0.014 % to 0.023 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (40 Hz to 1 kHz)	Using 8½ digit DMM by Direct/Comparison Method	1 mA to 20 A	0.02 % to 0.035 %



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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current at 50 Hz	Using Three phase comparator by Direct Method	0.01 A to 120 A	0.013 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current at 1 kHz	Using DMM With AC Shunt by V/R Method	10 µA to 1 A	0.05 % to 0.02 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current at 1 kHz	Using DMM by Direct Method	10 µA to 1 A	0.05 % to 0.02 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage at 50 Hz	Using DMM & HV Probe By Direct Method	>1 kV to 28 kV	6 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Energy 1Ph2W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Comparator by Comparison Method	0.3 VARh to 28.8 kVARh	0.018 % to 0.023 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Energy 3Ph3W/ 3Ph4W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Comparator by Comparison Method	0.9 VARh to 86.4 kVARh	0.014 % to 0.023 %



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13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Power 1Ph2W (50Hz) 60 V to 240V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Comparator by Comparison Method	0.3 VAR to 28.8 kVAR	0.014 % to 0.023 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Power 3Ph3W/ 3Ph4W (50 Hz) (active and reactive) 60 V to 240 V, 10 mA to 120 A , UPF - 0.5 PF (lead & Lag)	Using Three Phase Comparator by Comparison Method	0.9 VAR to 86.4 kVAR	0.015 % to 0.023 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance at 1 kHz	Using RLC Digibridge By Direct Method	1 ohm to 100 kohm	0.3 % to 0.1 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (1 MHz to 100 MHz)	Using RF Milli Voltmeter by Direct Method	10 mV to 10 V	3.3 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (1 MHz to 100 MHz)	Using Signal Generator with RF amplifier, RF Milli Voltmeter by Comparison Method	10 mV to 10 V	3.3 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (10 Hz to 40 Hz)	Using DMM, Calibrator, Thermal Voltage Converter by Direct/ Comparison Method	1 mV to 1000 V	0.5 % to 0.015 %



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19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (10 kHz to 100 kHz)	Using DMM, Calibrator by Direct/ Comparison Method	1 mV to 1 V	0.43 % to 0.018 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (10 kHz to 100 kHz)	Using DMM, Calibrator, Thermal Voltage Converter by Direct/ Comparison Method:	1 V to 100 V	0.014 % to 0.02 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (100 kHz to 1 MHz)	Using Calibrator, DMM & AC Measurement Standard by Direct/Comparison Method	1 mV to 1 V	1.34 % to 0.1 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (40 Hz to 10 kHz)	Using DMM, Calibrator & Thermal Voltage Converter by Direct/ Comparison Method:	1 mV to 100 V	0.5 % to 0.014 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance at 1 kHz	Using RLC Digibridge By Direct Method	1 mF to 10 mF	1.2 % to 0.3 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance at 1 kHz	Using RLC Digibridge by Direct Method	1 pF to 1.0 mF	0.04 % to 1.2 %



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25	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Inductance at 1 kHz	Using RLC Digibridge by Direct Method	100 µH to 10 H	0.2 % to 0.06 %
26	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Phase Angle (50 Hz, 240 V, 5 A)	Using Three Phase Comparator by Comparison Method	0° to 180° (Lead & Lag)	0.006°
27	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Power Factor (50 Hz, 240 V, 5 A)	Using Three Phase Comparator by comparison Method	0.1 pF to 1 pF	0.01 %
28	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Active Energy 1Ph2W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Power/ Energy Test Bench (Three Phase Comparator with Source) by Direct Method	0.3 Wh to 28.8 kWh	0.017 % to 0.023 %
29	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Active Energy 3Ph4W/ 3Ph3W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Power/ Energy Test Bench (Three Phase Comparator with Source) by Direct Method	0.9 Wh to 86.4 kWh	0.014 % to 0.023 %
30	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Active Power 3Ph3W/ 3Ph4W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Power/ Energy Test Bench (Three Phase Comparator with Source) by Direct Method	0.9 W to 86.4 kW	0.017 % to 0.023 %



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31	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Active Power 1Ph2W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Power/ Energy Test Bench by Direct Method	0.3 W to 28.8 kW	0.014 % to 0.025 %
32	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current at 50 Hz	Using Multifunction Calibrator and Current Coil by Direct Method	20 A to 6000 A	0.55 %
33	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (10 Hz to 5 kHz)	Using Multifunction Calibrator by Direct Method	10 µA to 1 A	0.08 % to 0.05 %
34	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 5 kHz)	Using Multifunction Calibrator by Direct Method	1 A to 20 A	0.05 % to 0.035 %
35	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current at 50Hz	Using Three phase comparator by Direct Method	10 mA to 100 A	0.013 %
36	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC High Voltage at 50 Hz	Using HV Source, HV Probe With DMM By Comparison Method	>1 kV to 28 kV	6 %
37	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Reactive Energy 1Ph2W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Power/ Energy Test Bench (Three Phase Comparator with Source) by Direct Method	0.3 VARh to 28.8 kVARh	0.02 % to 0.023 %



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38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Reactive Energy 3Ph3W/ 3Ph4W (50 Hz), 60 V to 240V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Power/ Energy Test Bench (Three Phase Comparator with Source) by Direct Method	0.9 VARh to 86.4 kVARh	0.017 % to 0.023 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Reactive Power 1Ph2W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Power/ Energy Test Bench (Three Phase Comparator with Source) by Direct Method	0.3 VAR to 28.8 kVAR	0.014 % to 0.025 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Reactive Power 3Ph3W/ 3Ph4W (50 Hz), 60 V to 240 V, 10 mA to 120 A, UPF - 0.5 PF (lead & Lag)	Using Three Phase Power/ Energy Test Bench (Three Phase Comparator with Source) by Direct Method	0.9 VAR to 86.4 kVAR	0.014 % to 0.023 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Resistance at 1 kHz	Using AC/DC Resistance Standard by Direct Method	1 ohm, 10 ohm, 100 ohm, 1 kohm, 10 kohm	0.01 %
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (1 MHz to 1 GHz)	Using Calibrator, Signal Generator With Amplifier by Comparison Method	10 mV to 7 V	3.5 %
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 45 Hz)	Using Multifunction Calibrator by Direct Method	1 mV to 1000 V	0.7 % to 0.025 %



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44	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (10 kHz to 50 kHz)	Using Multifunction Calibrator by Direct Method	1 V to 100 V	0.014 % to 0.02 %
45	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (10 kHz to 50 kHz)	Using Multifunction Calibrator by Direct Method	1 mV to 1 V	0.2 % to 0.014 %
46	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 10 kHz)	Using Multifunction Calibrator by Direct Method	1 mV to 100 V	0.4 % to 0.01 %
47	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 10 kHz)	Using Multifunction Calibrator by Direct Method	100 V to 1000 V	0.008 % to 0.02 %
48	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (50 kHz to 1 MHz)	Using Multifunction Calibrator by Direct Method	1 mV to 100 mV	0.05 % to 1.2 %
49	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (50 kHz to 1 MHz)	Using Multifunction Calibrator by Direct Method	100 mV to 10 V	0.25 % to 0.12 %
50	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance at 1 kHz	Using Standard Capacitor By Direct Method	1 µF, 10 µF, 100µF, 1mF, 10 mF	0.1 %



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51	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance at 1 kHz	Using Standard Capacitor By Direct Method	1 pF	0.01 %
52	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance at 1 kHz	Using Standard Capacitor By Direct Method	10 pF, 100 pF, 1000 pF	0.01 %
53	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance at 1 kHz	Using Decade Capacitor By Direct Method	100 pF to 1 μF	0.25 %
54	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance at 1 kHz	Using Multifunction Calibrator By Direct Method	190 pF to 300 nF	0.50 %
55	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance at 1 kHz	Using Standard Inductor by Direct Method	1 mH, 10 mH, 100 mH, 1 H, 10 H	0.03 %
56	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance at 1 kHz	Using Standard Inductor by Direct Method	100 μH	0.05 %
57	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance at 1 kHz	Using Decade Inductor by Direct Method	100 μH to 10 H	0.30 %



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58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Current Shunt, Current Source & DMM by Direct/Comparison Method	1 mA to 20 A	0.002 % to 0.005 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Current Shunt, Current Source & DMM by Direct/Comparison Method	10 µA to 1 mA	0.006 % to 0.002 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Current Shunt, Current Source & DMM by Comparison (V/R) Method	20 A to 100 A	0.008 % to 0.05 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Current Source , current shunt and Digital Multimeter by comparison (V/I) method	20 A to 800 A	0.5 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV probe and and Digital Multimeter by Direct method	1 kV to 40 kV	2.5 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using DMM, Standard High Resistance Meter by Substitution Method	1 Mohm to 20 Gohm	0.001 % to 0.20 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance @ 100 V - 2 Wire	Using High Resistance Meter & Standard Resistance by Substitution Method	20 Gohm to 1 Tohm	0.2 % to 2.5 %



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65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance- 2 Wire & 4 Wire	Using DMM, Standard Resistance with Calibrator by Substitution Method	0.001 ohm to 1 Mohm	0.004 % to 0.001 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance- 4 Wire	Using DMM, Standard Resistance Calibrator by Substitution Method	0.0001 ohm to 0.001 ohm	0.03 % to 0.004 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using DMM by Direct method	1 mV to 10 V	0.02 % to 0.0004 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using DMM by Direct method	10 μ V to 1 mV	2.2 % to 0.014 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using DMM by Direct method	10 V to 1000 V	0.0004 % to 0.0005 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator By Direct Method	1 A to 20 A	0.005 % to 0.01 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 8.5 Digit DMM & DC Shunt By V/R Method	10 μ A to 1 A	0.01 % to 0.005 %



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72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Calibrator By Direct Method	10 μ A to 1 A	0.01 % to 0.005 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator & current coil By Direct Method	20 A to 1000 A	0.21 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Voltage	Using High Voltage Source, HV Probe and Digital Multimeter by Comparison Method	>1 kV to 40 kV	2.5 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (100 V to 1000 V) - 2 Wire	Using Decade Resistance Box By Direct Method	10 Mohm to 1 Tohm	0.003 % to 3 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Standard Resistance By Direct Method	0.0001 ohm	0.05 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Standard Resistance by direct method	0.001 ohm, 0.01 ohm, 0.1 ohm, 1 ohm, 10 ohm	0.02 % to 0.001 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance @ 100 V - 2 Wire	Using Standard Resistance By Direct Method	1 Gohm	0.03 %



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79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance @ 100 V - 2 Wire	Using Standard Resistance By Direct Method	10 Gohm, 100 Gohm, 1 Tohm	0.5 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance at 100 V - 2 Wire	Using Decade Resistance Box By Direct Method	100 kohm to 1 Tohm	0.003 % to 5 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance at 2500 V - 2 Wire	Using Decade Resistance Box By Direct Method	100 Mohm to 500 Mohm	2 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance at 5000 V - 2 Wire	Using Decade Resistance Box By Direct Method	1 Gohm to 1 Tohm	2 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance- 2 Wire	Using Standard Resistance By Direct Method	100 Mohm	0.002 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance- 2 Wire & 4 Wire	Using Decade Resistance By Direct Method	0.01 ohm to 100 kohm	0.3 % to 0.004 %
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance- 2 Wire & 4 Wire	Using Standard Resistance by Direct Method	100 ohm, 1 kohm, 10 kohm 100 kohm, 1 Mohm, 10 Mohm	0.001 %



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86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator By Direct Method	10 μ V to 10 V	2 % to 0.0003 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator By Direct Method	10 V to 1000 V	0.0003 % to 0.0004 %
88	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Attenuation (50 MHz to 1 GHz)	Using RF Millivoltmeter by Direct Method	1 dB to 60 dB	0.17 dB
89	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power (50 MHz to 2 GHz)	Using RF Level Meter, RF Signal Generator By Direct/ Comparison Method	1 mW to 40 mW	4 %
90	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power (50 MHz to 2 GHz)	Using RF Level Meter, RF Signal Generator By Direct/ Comparison Method	1 nW to 1 mW	6 %
91	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power sources and meters (50 MHz to 2 GHz)	Using RF Level Meter, RF Signal Generator By Direct/ Comparison Method	1 nW to 1 mW	6 %



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92	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power sources and RF power meters (50 MHz to 1 GHz)	Using RF Level Meter, RF Signal Generator By Direct/ Comparison Method	40 mW to 80 W	4 %
93	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power sources and RF power meters (50 MHz to 2 GHz)	Using RF Level Meter, RF Signal Generator By Direct/ Comparison Method	1 mW to 40 mW	4 %
94	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Attenuation (50 MHz to 1 GHz)	Using RF Attenuator By Direct Method	1 dB to 60 dB	0.27 dB
95	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B- Type Thermocouple	Using 8½ digit DMM by Direct method	600 °C to 1800 °C	0.30 °C
96	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E- Type Thermocouple	Using 8½ digit DMM by Direct method	(-)250 °C to 1000 °C	0.20 °C
97	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J- Type Thermocouple	Using 8½ digit DMM by Direct method	(-)210 °C to 1200 °C	0.20 °C



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98	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K- Type Thermocouple	Using 8½ digit DMM by Direct method	(-)200 °C to 1350 °C	0.20 °C
99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	L Type Thermocouple	Using 8½ digit DMM by Direct method	(-)200 °C to 900 °C	0.20 °C
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using 8½ digit DMM by Direct method	(-)200 °C to 1400 °C	0.20 °C
101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R- Type Thermocouple	Using 8½ digit DMM by Direct method	0 °C to 1750 °C	0.2 °C
102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD Type PT 100	Using 8½ digit DMM by Direct method	(-)200 °C to 800 °C	0.02 °C
103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S- Type Thermocouple	Using 8½ digit DMM by Direct method	0 °C to 1750 °C	0.2 °C
104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	TC T- Type	Using 8.5 dgt DMM by Direct method	(-)250 °C to 400 °C	0.40 °C



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105	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	U- Type Thermocouple	Using 8½ digit DMM by Direct method	(-)200 °C to 600 °C	0.25 °C
106	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B-Type Thermocouple	Using Multiproduct Calibrator by Direct method	600 °C to 1800 °C	0.30 °C
107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E- Type Thermocouple	Using Multiproduct Calibrator by Direct method	(-)250 °C to 1000 °C	0.20 °C
108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J- Type Thermocouple	Using Multiproduct Calibrator by Direct method	(-)210 °C to 1200 °C	0.20 °C
109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K- Type Thermocouple	Using Multiproduct Calibrator by Direct method	(-)200 °C to 1350 °C	0.20 °C
110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	L- Type Thermocouple	Using Multiproduct Calibrator by Direct method	(-)200 °C to 900 °C	0.20 °C
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N- Type Thermocouple	Using Multiproduct Calibrator by Direct method	(-)200 °C to 1400 °C	0.20



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112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R- Type Thermocouple	Using Multiproduct Calibrator by Direct method	0 °C to 1750 °C	0.10 °C
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD Type PT 100	Using Multiproduct Calibrator by Direct method	(-)-200 °C to 800 °C	0.05 °C
114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S- Type Thermocouple	Using Multiproduct Calibrator by Direct method	0 °C to 1750 °C	0.10 °C
115	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T- Type Thermocouple	Using Multiproduct Calibrator by Direct method	(-)-250 °C to 400 °C	0.40 °C
116	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	U- Type Thermocouple	Using Multiproduct Calibrator by Direct method	(-)-200 °C to 600 °C	0.25 °C
117	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using frequency Counter logged with GPS Controlled Rubidium frequency standard by Direct Method	10 Hz to 20 GHz	0.0005 % to 0.0000035 %



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118	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Signal Generator / Function Generator and Frequency Counter logged with GPS controlled Rb Frequency Standard in Comparison method	1 nS to 2000 S	0.0002 %
119	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Frequency Counter logged with GPS controlled Rb Frequency Standard by Direct Method	1 nS to 2000 S	0.0002 %
120	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Signal Generator logged with GPS Controlled Rubidium Frequency Standard by Direct Method.	10 Hz to 20 GHz	0.0005 % to 0.0000035 %
121	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Time	Using Calibrator, Function Generator, Signal Generator logged with GPS controlled Rb Frequency Standard by Direct Method	20 nS to 2000 S	0.0002 %
122	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Standard Tachometer and LED Stroboscope externally triggered with Function Generator (as source) by comparison method	100 rpm to 999.9 rpm	0.3 %



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123	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Standard Tachometer and LED Stroboscope externally triggered with Function Generator (as source) by comparison method	1000 rpm to 9999 rpm	0.1 %
124	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Standard Tachometer and LED Stroboscope externally triggered with Function Generator (as source) by comparison method	10000 rpm to 29999 rpm	0.05 %
125	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Standard Tachometer and LED Stroboscope externally triggered with Function Generator (as source) by comparison method	30 rpm to 99.9 rpm	1.5 %
126	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Standard Tachometer and LED Stroboscope externally triggered with Function Generator (as source) by comparison method	30000 rpm to 70000 rpm	0.01 %



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127	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge, Pressure Transmitter	Using Standard Digital Pressure Indicator with Hydraulic Pressure Comparator (as Source) & digital multimeter for Pressure transmitter by comparison method as per DKD R-6-1	0 to 700 bar	0.23 bar
128	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Precision Gauges, Precision Transmitter	Using Standard Digital Pressure Indicator with Hand Held Pneumatic and Vacuum Pump (as Source) & digital multimeter for Pressure transmitter by comparison method as per DKD R-6-1	0 to 40 bar	0.021 bar
129	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauges, Vacuum Transmitter	Using Standard Digital Pressure Indicator with Hand Held Pneumatic and Vacuum Pump (as Source) & digital multimeter for transmitter by comparison method as per DKD R-6-1 :	0 to (-) 0.9 bar	0.0042 bar



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130	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with Sensor of Temperature & Humidity Chamber / Environmental Chamber (Single Position)	Using Digital Temperature and Humidity Indicator with Sensor by Comparison method	20 %rh to 95 %rh (25 °C to 60 °C)	2 %rh
131	THERMAL-TEMPERATURE	Bath, Oven, Chamber, Incubator & Furnace (Multi position)	Using RTDs & Data Loggers (minimum 9 Sensors) by comparison Method	(-)40 °C to 300 °C	1.0 °C
132	THERMAL-TEMPERATURE	Refrigerator & Cold Chamber (Multi Position)	Using RTDs & Data Loggers (minimum 9 Sensors) by comparison Method	(-) 40 °C to 50 °C	0.86 °C
133	THERMAL-TEMPERATURE	Temperature Gauge, Temperature Sensor with or without indicator	Using SPRT, Dry Block Calibrator & Temperature Indicator By Comparison Method	50 °C to 300 °C	1 °C
134	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Bath, Oven, Chamber, Incubator & Autoclave (for Non-Medical Application) (Single Position)	Using PRT with Temperature Indicator by Comparison Method	(-)40 °C to 300 °C	0.5°C
135	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Dry Well Calibrator, Furnace, Hot Chamber	Using 'R' Type Thermocouple & Temperature Indicator by Comparison Method	300 °C to 1200 °C	2.0 °C



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136	THERMAL-TEMPERATURE	Temperature indicator with the sensor of Refrigerator & Cold Chamber (Single Position)	Using RTD and Temperature Indicator by Comparison Method	(-) 40 °C to 50 °C	1 °C
137	THERMAL-TEMPERATURE	Thermocouple, Temperature Gauge with or without Indicator	Using R Type Thermocouple, Dry block Calibrator & Temperature Indicator By Comparison Method	300 °C to 1200 °C	2 °C

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