National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

ELECTRONICS AND QUALITY DEVELOPMENT CENTRE (EQDC)

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

B 177/178, GIDC ELECTRONICS ESTATE, SECTOR 25, GANDHINAGAR, GUJARAT, INDIA

in the field of

CALIBRATION

Certificate Number: CC-4423

Issue Date: 28/05/2025 **Valid Until:** 27/05/2029

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 thislaboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: ELECTRONICS AND QUALITY DEVELOPMENT CENTRE (EQDC)

Signed for and on behalf of NABL

Anita Rani
Director

N. Venkateswaran
Chief Executive Officer

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	ELECTRONICS AND QUALITY DEVELOPMENT CENTRE (EQDC), B 177/178, GIDC ELECTRONICS ESTATE, SECTOR 25, GANDHINAGAR, GUJARAT, 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)	1P2W/ 3P3W / 3P4W AC Apparent Power @ 40 Hz to 70 Hz (30 V to 320 V, 1 mA To 10 mA)	Using High Precision 3Phase Reference Standard, Source by Direct/Comparison Method.	0.003 VA to 9.6 VA	0.385 % to 0.009 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P2W/ 3P3W / 3P4W AC Active Power @ 40 Hz to 70 Hz (30 V to 320 V, 1 mA to 10 mA , PF:0.1 (lead/lag) to UPF)	Using High Precision 3Phase Reference Standard, Source by Direct/Comparison Method.	0.003 W to 9.6 W	0.385 % to 0.009 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P2W/ 3P3W / 3P4W AC Apparent Energy @ 40 Hz to 70 Hz (30 V to 320 V, 1 mA To 10 mA)	Using High Precision 3Phase Reference Standard by Direct/Comparison Method.	0.003 VAh to 9.6 VAh	0.385 % to 0.009 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P2W/ 3P3W / 3P4W AC Apparent Energy @ 40 Hz to 70 Hz {30 V to 320 V, 10 mA to 100 A , PF:0.1 to UPF (lead/lag)}	Using High Precision 3Phase Reference Standard by Direct/Comparison Method.	0.03 VAh to 96 kVAh	0.17 % to 0.006 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P2W/ 3P3W / 3P4W AC Reactive Energy @ 40 Hz to 70 Hz {30 V to 320 V, 10 mA To 100 A , PF:0.1 to UPF ((lead/lag) }	Using High Precision 3Phase Reference Standard, Source by Direct/Comparison Method.	0.03 VArh to 96 kVArh	0.17 % to 0.006 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P2W/ 3P3W / 3P4W AC Reactive Power @ 40 Hz to 70 Hz { 30 V to 320 V, 10 mA To 100 A , PF:0.1 (lead/lag) to UPF }	Using High Precision 3Phase Reference Standard , Source by Direct/Comparison Method.	0.03 VAr to 96 kVAr	0.019 % to 0.008 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P2W/ 3P3W / 3P4W AC Apparent Power @ 40 Hz to 70 Hz (10 V to 480 V, 10 mA to 100 A)	Using Reference Power/ Energy Comparator, source by Direct / Comparison Method.	0.01 W to 1.44 kW	0.018 % to 0.019 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P2W/ 3P3W / 3P4W AC Reactive power @ 40 Hz to 70 Hz, (30 V to 320 V, 1 mA to 10 mA)	Using High Precision 3 Phase Reference Standard, Source by Direct/Comparison Method.	0.003 VAr to 9.6 VAr	0.385 % to 0.009 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P2W/ 3P3W / 3P4W Active Power @ 40 Hz to 70 Hz {40 V to 320 V, >120 A to 3000 A, PF: 0.5 (Lag/ Lead) to UPF}	By Using 3 Phase Reference Source with Multiturn Current Coil & 3 Phase Power analyzer By Using Direct Method.	2400 W to 2880 kW	0.015 % to 0.473 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P2W/ 3P3W / 3P4W Apparent Power @ 40 Hz to 70 Hz(30 V to 320 V, 120 A to 3000 A)	Using 3 Phase Reference Standard with Multi turn Current Coil & 3 Phase Power analyzer by Direct Method	360 VA to 2880 kVA	0.015 % to 0.385 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P2W/ 3P3W / 3P4W Phase AC Active Energy @ 40 Hz to 70 Hz (30 V to 320 V, 10 mA to 100 A , PF: 0.1 (lead/lag) to UPF)	Using High Precision 3Phase Reference Standard, Source by Direct/Comparison Method.	0.03 Wh to 96 kWh	0.018 % to 0.0018 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P2W/ 3P3W / 3P4W Phase AC Active Power @ 40 Hz to 70 Hz {30 V to 320 V, 10 mA to 100 A , PF:0.1 (lead/lag) to UPF}	Using High Precision 3 Phase Reference Standard, Source by Direct/Comparison Method.	0.03 W to 96 kW	0.019 % to 0.008 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P2W/ 3P3W / 3P4W Phase AC Reactive Energy @ 40 Hz to 70 Hz (30 V to 320 V, 1 mA To 10 mA)	Using Reference Power/ Energy Comparator, Source by Direct / Comparison Method.	0.003 VArh to 9.6 VArh	0.385 % to 0.009 %

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14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC CURRENT @ 1 kHz to 5 kHz	Using Power Analyzer By Direct Method	1 A to 20 A	0.075 % to 0.058 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC CURRENT @ 1 kHz to 5 kHz	Using 8½ Digital Multimeter By Direct Method	100 µA to 100 mA	0.035 % to 0.035 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC CURRENT @ 1 kHz to 5 kHz	Using 8½ Self Cal DMM by Direct Method	30 µA to 100 µA	0.071 % to 0.049 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 70 Hz	Using Reference Power/ Energy Comparator , Source by Direct / Comparison Method	1 mA to 120 A	0.038 % to 0.0013 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 70 Hz	Using High Precision Source and 1&3 Phase Reference Standard by Comparison Method	10 mA to 100 A	0.015 % to 0.0015 %

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19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC CURRENT @ 50 Hz to 1 kHz	Using Power Analyzer By Direct Method	1 A to 20 A	0.09 % to 0.25% %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC CURRENT @ 50 Hz to 1 kHz	Using 6½ DMM By Direct Method	1 A to 3 A	0.20 % to 0.23 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC CURRENT @ 50 Hz to 1 kHz	Using 6½ DMM By Direct Method	100 µA to 100 mA	0.051 % to 0.056 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC CURRENT @ 50 Hz to 1 kHz	Using 8½ Self Cal DMM By Direct Method	100 mA to 1 A	0.035 % to 0.075 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC CURRENT @ 50 Hz to 1 kHz	Using 6½ DMM By Direct Method	100 mA to 1 A	0.21 % to 0.21 %

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24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC CURRENT @ 50 Hz to 1 kHz	Using 8½ Self Cal DMM By Direct Method	30 µA to 100 µA	0.068 % to 0.053 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using H.V. Probe with DMM By Direct Method	1 kV to 10 kV	3.06 % to 3.09 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using H.V.Probe with DMM by Direct Method	10 kV to 20 kV	3.07 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using Precision Potential Transformer with Standard PT/ Automatic Instrument Transformer Test Set (AITTS) with 6½ DMM by Direct Method	1000 V to 33 kV	0.09 % to 0.49 %

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28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC RESISTANCE@ 1 kHz	Using Precision LCR meter, By Direct Method	1 ohm to 10 kohm	0.13 % to 0.11 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 40 Hz to 70 Hz	Using High Precision 3 Phase Reference Standard, Source by Direct/Comparison Method	10 V to 480 V	0.0013 % to 0.0006 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 40 Hz to 70 Hz	Using Power /Energy Comparator, source by Direct/indirect Method	30 V to 320 V	0.0006 % to 0.0014 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC VOLTAGE @ 50 Hz to 1 kHz	Using 6½ DMM, By Direct Method	1 mV to 1 V	0.42 % to 0.12 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC VOLTAGE @ 50 Hz to 1 kHz	Using 8½ Self-cal DMM, By Direct Method	1 mV to 100 mV	0.28 % to 0.011 %

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33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC VOLTAGE @ 50 Hz to 1 kHz	Using 6½ DMM, By Direct Method	1 V to 10 V	0.12 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC VOLTAGE @ 50 Hz to 1 kHz	Using 6½ DMM By Direct Method	10 V to 100 V	0.12 % to 0.043 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC VOLTAGE @ 50 Hz to 1 kHz	Using 8½ Self-cal DMM, By Direct Method	100 mV to 100 V	0.011 % to 0.014 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC VOLTAGE @ 50 Hz to 1 kHz	Using 8½ Selfcal DMM, By Direct Method	100 V to 1000 V	0.012 % to 0.01 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC VOLTAGE @ 50 Hz to 1 kHz	Using 6½ DMM By Direct Method	100 V to 750 V	0.047 % to 0.06 %

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38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (1 Phase & 3 Phase) @ 40 Hz to 70 Hz {40 V to 320 V, 120 A to 3000 A, PF: 0.5 to UPF (Lag/ Lead)}	Using 3 Phase Reference Standard with Multiturn Current Coil & 3 Phase Power analyser by Direct Method	2400 Wh to 2880 kWh	0.015 % to 0.380 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (1Phase & 3Phase) @ 40 Hz to 70 Hz {30 V to 320 V , 1 mA to 10 mA, PF: 0.1 to UPF (Lag/ Lead)}	Using Reference Source & Power/ Energy Comparator, Source by Direct / Comparison Method	0.003 W to 9.6 W	0.385 % to 0.0018 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Apparent Energy (1 Phase & 3 Phase) @ 40 Hz to 70 Hz.(40 V to 320 V, 120 A to 3000 A)	Using 3 Phase Reference Standard with Multiturn Current Coil & 3 Phase Power analyzer By Direct Method.	2400 VAh to 2880 kVAh	0.015 % to 0.380 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	CAPACITANCE @ 1 kHz	Using Precision LCR meter, By Direct Method	1 nF to 1 mF	0.41 % to 0.70 %

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42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	HARMONICS TOTAL HARMONICS DISTORTION, DISTORTION FACTOR @ 0.05 mA to 24 A, 40 Hz to 70 Hz.	Using High Precesion Reference Power/ Energy Comparator, Source by Direct / Comparison Method	2 nd order to 40 th order	0.8 % to 0.8 %
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	HARMONICS TOTAL HARMONICS DISTORTION, DISTORTION FACTOR @ 10 V to 240 V, 40 Hz to 70 Hz, 0.5-UPF-0.8	Using Reference Power/ Energy Comparator, source by Direct / Comparison Method	2 nd Order to 40 th Order	0.47 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	INDUCTANCE @1 kHz	Using Precision LCR meter, By Direct Method	100 µH to 10 H	0.27 % to 0.11 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ 40 Hz to 70 Hz { 10 V to 480 V, 1 mA to 120 A}	Using High Precision Source & 1&3 Phase Reference Standard by Direct/Comparative Method	0.1 PF to 1 PF	0.007 PF to 0.006 PF

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46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Reactive Energy (1Phase & 3Phase) @ 40Hz - 70Hz.{ 40 V to 320 V, 120 A to 3000 A, PF: 0.5 (Lag/ Lead) to UPF}	Using 3 Phase Reference Standard with Multiturn Currnet Coil & 3 Phase Power analyzer by Direct Method.	2400 VArh to 2880 kVArh	0.015 % to 0.473 %
47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Reactive Power (1Phase & 3Phase) @ 40 Hz to 70 Hz {40 V to 320 V, 120 A to 3000 A, PF: 0.5 (Lag/ Lead) to UPF}	Using 3 Phase Reference Standard with Multiturn Currnet Coil & 3 Phase Power analyzer by Using Direct Method.	2400 VAr to 2880 kVAr	0.015 % to 0.380 %
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1P2W/ 3P3W / 3P4W Active Power @ 40 Hz to 70 Hz {24 V to 480 V, 10 mA to 100 A, PF: 0.01 to 1 PF Lag Lead }	Using Precision Power Calibration system (PPCS) by Direct Method:	0.0024 W to 144 kW	0.0017 % / PF
49	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1P2W/ 3P3W / 3P4W AC Active Power @ 40 Hz to 70 Hz, {30 V to 320 V, 1 mA to 120 A, PF: 0.1 PF to UPF (lead/lag) }	Using High Precision 1&3 Phase Reference Standard by Direct / Comparative Method	0.003 W to 115.2 kW	0.385 % to 0.015 %
50	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1P2W/ 3P3W / 3P4W AC Apparent Power @ 40 Hz to 70 Hz (30 V to 320 V, 1 mA to120 A)	Using Reference Power/ Energy Comparator, Source by Direct / Comparison Method	0.003 VA to 115.2 kVA	0.385 % to 0.015 %

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51	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1P2W/ 3P3W / 3P4W AC Reactive Energy @ 40 Hz to 70 Hz {30 V to 320 V, 1 mA To 120 A , PF:0.1 to UPF (lead/lag)}	Using high precision Power & Source by Standard by Direct Method / comparision method	0.003 VArh to 115.2 kVArh	0.385 % to 0.015 %
52	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1P2W/ 3P3W / 3P4W Active Energy @ 40 Hz to 70 Hz {30 V to 320 V, 1 mA to 120 A, PF: 0.1 to UPF (Lag/ Lead)}	Using High Precision Source & 3 Phase Reference Standard by Direct/Comparison Method.	0.003 Wh to 115.2 kWh	0.385 % to 0.015 %
53	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1P2W/ 3P3W / 3P4W Phase Reactive Power @ 40 Hz to 70 Hz {30 V to 320 V, 1 mA To 120 A , 0.1 PF to UPF (lead/lag)}	Using High Precision 3Phase Reference source by Direct/Comparison Method	0.003 VAr to 115.2 kVAr	0.385 % to 0.015 %
54	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Apparent Energy @ 40 Hz to 70 Hz {30 V to 320 V, 1 mA to 120 A , PF: 0.1 to UPF (Lead , Lag)}	Using Reference Power/ Energy source by Direct Method	0.004 W to 115.2 kW	0.385 % to 0.015 %
55	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 40 Hz to 70 Hz	Using High Precision Source and 1&3 Phase Reference Standard by Direct / Comparative Method	1 mA to 10 mA	0.039 % to 0.0015 %

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56	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC CURRENT @ 40 Hz to 70 Hz	Using Precision Power Calibration System (PPCS) By Direct Method	10 mA to 100 A	0.0014 % to 0.0014 %
57	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC CURRENT @ 50 Hz	Using Multi-function Calibrator with Current coil By Direct Method	20 A to 1000 A	1.6 % to 1 %
58	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC CURRENT @ 50 Hz to 1 kHz	Using Multi-function Calibrator By Direct Method	1 A to 20 A	0.39 % to 0.14 %
59	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC CURRENT @ 50 Hz to 1 kHz	Using Multi-function Calibrator By Direct Method	1 mA to 10 mA	0.14 % to 0.08 %
60	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC CURRENT @ 50 Hz to 1 kHz	Using Multi-function Calibrator By Direct Method	10 mA to 100 mA	0.08 %
61	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC CURRENT @ 50 Hz to 1 kHz	Using Multi-function Calibrator By Direct Method	30 µA to 1 mA	0.62 % to 0.14 %

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62	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC CURRENT @50 Hz to 1 kHz	Using Multi-function Calibrator By Direct Method	100 mA to 1 A	0.08 %
63	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current @ 50 Hz	Using Precision Current Transformer, with Automatic Instrument Transformer Test Set by Direct Method	5 A to 3200 A	0.7 %
64	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power - Single Phase @ 50 Hz (0.2 PF,120 V to 240 V, 0.1 A to 20 A, 0.2 PF)	Using Multi-function Calibrator, By Direct Method	2.4 W to 960 W	0.5 %
65	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power - Single Phase @ 50 Hz (0.5 PF, 120 V to 240 V, 0.1 A to 20 A)	Using Multi-function Calibrator by Direct Method	6 W to 2.4 kW	0.3 %
66	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power - Single Phase @ 50 Hz (UPF, 120 V to 240 V, 0.1 A to 20 A)	Using Multi-function Calibrator By Direct Method	12 W to 4.8 kW	0.10 % to 0.12 %

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67	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power- Single Phase @ 50 Hz (0.8 PF, 120 V to 240 V, 0.1 A to 20 A)	Using Multi-function Calibrator, By Direct Method	9.6 W to 3.8 kW	0.20 %
68	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Resistance @ 1 kHz	Using Standard Resistors by Direct Method	1 kohm	0.0066 %
69	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC RESISTANCE @ 1 kHz	Using Standard Resistors By Direct Method	1 ohm	0.011 %
70	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC RESISTANCE @ 1 kHz	Using Standard Resistors By Direct Method	10 kohm	0.007 %
71	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC RESISTANCE @ 1 kHz	Using Standard Resistors By Direct Method	10 ohm	0.0065 %
72	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Resistance @ 1 kHz	Using Standard Resistors By Direct Method	100 ohm	0.0066 %

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73	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC VOLTAGE @ 1 kHz to 100 kHz	Using Multi-function Calibrator By Direct Method	10 V to 300 V	0.10 V to 0.15 V
74	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 40 Hz to 70 Hz	Using Precision Power Calibration System (PPCS) By Direct Method	10 V to 480 V	0.0005 % to 0.0013 %
75	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC VOLTAGE @ 50 Hz to 1 kHz	Using Multi-function Calibrator By Direct Method	1 mV to 10 mV	0.71 % to 0.088 %
76	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC VOLTAGE @ 50 Hz to 1 kHz	Using Multi-function Calibrator, By Direct Method	10 mV to 100 mV	0.088 % to 0.038 %
77	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC VOLTAGE @ 50 Hz to 1 kHz	Using Multi-function Calibrator, By Direct Method	10 V to 100 V	0.029 % to 0.031 %
78	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC VOLTAGE @ 50 Hz to 1 kHz	Using Multi-function Calibrator, By Direct Method	100 mV to 10 V	0.038 % to 0.029 %

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79	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC VOLTAGE @ 50 Hz to 1 kHz	Using Multi-function Calibrator By Direct Method	100 V to 1000 V	0.031 % to 0.038 %
80	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Energy (1 Phase /3 phase) @ 40 Hz to 70 Hz (24 V to 480 V, 10 mA to 100 A , 0.01 PF to UPF)	Using Precision Power Calibration system by Direct Method	0.0024 Wh to 144 kWh	0.0018 %/ PF
81	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	APPARENT ENERGY: 1 Phase /3 phase @ 40 Hz to 70 Hz (24 V to 480 V, 10 mA to 100 A)	Using Precision Power Calibration system (PPCS) by Direct Method	0.0024 VAh to 144 kVAh	0.0017 % to 0.0017 %
82	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	CAPACITANCE @ 1 kHz	Using Standard Capacitor Series (Discrete Value) by Direct Method	1 µF	0.05 %
83	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	CAPACITANCE @ 1 kHz	Using Standard Capacitor (Discrete Value) by Direct Method	1 nF	0.02 %

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84	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	CAPACITANCE @ 1 kHz	Using High Accuracy Decade Capacitance Subsititutor 1 pF to 1uFby Direct Method	1 nF to 1 µF	0.52 %
85	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	CAPACITANCE @ 1 kHz	Using Standard Capacitor Series (Discrete Value) by Direct Method	10 µF	0.07 %
86	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	CAPACITANCE @ 1 kHz	Using Standard Capacitor (Discrete Value) by Direct Method	10 nF	0.02 %
87	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	CAPACITANCE @ 1 kHz	Using Standard Capacitor Series (Discrete Value) by Direct Method	100 µF	0.27 %
88	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	CAPACITANCE @ 1 kHz	Using Standard Capacitor Series (Discrete Value) by Direct Method	100 nF	0.02 %
89	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	CAPACITANCE @ 1 kHz	Using Standard Capacitor Series (Discrete Value) by Direct Method	1000 µF	0.72 %

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90	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Phase Angle (40 Hz to 70 Hz, 24 V to 480 V, 0.04 A to100 A)	Using Precision Power Calibration System by Direct Method	(-) 180° to 180°	0.0011°
91	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor (40 Hz to 70 Hz, 24 V to 480 V, 0.04 A to 100 A)	Using Precision Power Calibration System by Direct Method	0.01 PF to 1 PF	0.00009 PF
92	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Reactive Energy 1 Phase /3 phase @ 40 Hz to 70 Hz (24 V to 480 V, 10 mA to 100 A, 0.01 PF to UPF)	Using Precision Power Calibration system (PPCS) by Direct Method	0.0024 VArh to 144 kVArh	0.0017 % / PF
93	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Reactive Power - 1 Phase / 3 Phase @ 40 Hz to 70 Hz (24 V to 480 V, 10 mA to 100 A, 0.01 PF to UPF)	Using Precision Power Calibration system (PPCS) by Direct Method	0.0024 kVA to 144 kVAr	0.0017 % / PF
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC CURRENT	Using 8½ DMM By Direct Method	1 µA to 100 µA	0.20 % to 0.01 %

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95	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC CURRENT	Using Power Analyzer By Direct Method	1 A to 20 A	0.057 % to 0.25 %
96	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC CURRENT	Using 6½ DMM By Direct Method	1 A to 3 A	0.12 % to 0.16 %
97	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC CURRENT	Using 6½ DMM By Direct Method	1 mA to 10 mA	0.50 % to 0.07 %
98	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC CURRENT	Using 8½ DMM By Direct Method	1 mA to 100 mA	0.01 % to 0.012 %
99	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC CURRENT	Using 6½ DMM By Direct Method	10 mA to 100 mA	0.06 % to 0.12 %
100	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC CURRENT	Using 8½ DMM By Direct Method	100 µA to 1 mA	0.01 %

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101	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC CURRENT	Using 8½ DMM By Direct Method	100 mA to 1 A	0.012 % to 0.020 %
102	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC CURRENT	Using 6½ DMM By Direct Method	100 mA to 1 A	0.12 %
103	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using High Resistance Meter By Direct Method	1 Gohm to 10 Gohm	0.48 % to 1.1 %
104	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using 6½ DMM By Direct Method	1 kohm to 10 kohm	0.014 %
105	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using 6½ DMM By Direct Method	1 Mohm to 10 Mohm	0.022 % to 0.075 %
106	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using 8½ DMM By Direct Method	1 Mohm to 10 Mohm	0.126 % to 0.015 %

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107	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using 6½ DMM By Direct Method	1 ohm to 100 ohm	1.27 % to 0.023 %
108	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using High Resistance Meter By Direct Method	10 Gohm to 1 Tohm	1.1 % to 4.28 %
109	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using 8½ DMM By Direct Method	10 kohm to 1 Mohm	0.0017 % to 0.126 %
110	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using 8½ DMM By Direct Method	10 kohm to 100 kohm	0.011 %
111	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using 8½ DMM By Direct Method	10 Mohm to 100 Mohm	0.015 % to 0.10 %
112	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using 8½ DMM By Direct Method	10 Mohm to 100 Mohm	0.075 % to 0.18 %

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113	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using 8½ DMM By Direct Method	100 kohm to 1 Mohm	0.012 % to 0.126 %
114	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using 8½ DMM By Direct Method	100 Mohm to 1000 Mohm	0.10 % to 0.25 %
115	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using 8½ DMM By Direct Method	100 ohm to 1 kohm	0.020 % to 0.011 %
116	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using 8½ DMM By Direct Method	100 ohm to 10 kohm	0.0017 %
117	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 8½ DMM By Direct Method	1 mV to 100 mV	0.032 % to 0.031 %
118	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 6½ DMM By Direct Method	1 mV to 100 mV	1.25 % to 0.02 %

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119	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 6½ DMM By Direct Method	1 V to 10 V	0.006 % to 0.005 %
120	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 8½ DMM, By Direct Method	10 V to 100 V	0.001 % to 0.0012 %
121	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 6½ DMM By Direct Method	10 V to 100 V	0.005 % to 0.006 %
122	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 6½ DMM By Direct Method	100 mV to 1 V	0.02 % to 0.006 %
123	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 8½ DMM By Direct Method	100 mV to 10 V	0.001 %
124	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 8½ DMM By Direct Method	100 V to 1000 V	0.0012 % to 0.0013 %

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125	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 6½ DMM By Direct Method	100 V to 1000 V	0.006 %
126	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multi-function Calibrator By Direct Method	1 µA to 10 µA	2.33 % to 0.25 %
127	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multi-function Calibrator By Direct Method	1 A to 10 A	0.076 %
128	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multi-function Calibrator By Direct Method	1 mA to 100 mA	0.018 % to 0.015 %
129	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multi-function Calibrator By Direct Method	10 µA to 100 µA	0.25 % to 0.041 %
130	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multi-function Calibrator By Direct Method	10 A to 20 A	0.12 %

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131	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multi-function Calibrator By Direct Method	100 µA to 1 mA	0.041 % to 0.018 %
132	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multi-function Calibrator By Direct Method	100 mA to 1 A	0.015 % to 0.076 %
133	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multi-function Calibrator with Current Coil By Direct Method	20 A to 1000 A	0.47 %
134	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Standard Resistors By Direct Method	0.01 ohm	0.084 %
135	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Decade Resistance Box By Direct Method	0.01 ohm to 100 kohm	1 % to 0.012 %
136	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Standard Resistor By Direct Method	0.1 ohm	0.035 %

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137	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Decade Resistance Box By Direct Method	0.1 ohm to 10 ohm	2.32 % to 0.045 %
138	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Decade Resistance Box By Direct Method	1 Gohm	1.64 %
139	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Standard Resistors By Direct Method	1 kohm	0.0007 %
140	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Decade Resistance Box By Direct Method	1 kohm to 10 kohm	0.012 % to 0.013 %
141	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Multi-function Calibrator By Direct Method	1 kohm to 100 kohm	0.005 % to 0.008 %
142	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Multi-function Calibrator By Direct Method	1 Mohm to 10 Mohm	0.0044 % to 0.016 %

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143	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Standard Resistor By Direct Method	1 ohm	0.0007 %
144	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Standard Resistors By Direct Method	1 ohm	0.055 %
145	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Multi-function Calibrator By Direct Method	1 ohm to 100 ohm	0.15 % to 0.005 %
146	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Decade Resistance Box By Direct Method	1 Tohm	5.39 %
147	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Decade Resistance Box By Direct Method	10 Gohm	1.64 %
148	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Standard Resistors By Direct Method	10 kohm	0.005 %

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149	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Decade Resistance Box By Direct Method	10 kohm to 100 kohm	0.013 % to 0.012 %
150	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Multi-function Calibrator By Direct Method	10 Mohm to 100 Mohm	0.016 % to 0.07 %
151	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Standard Resistor By Direct Method	10 ohm	0.0007 %
152	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Decade Resistance Box By Direct Method	10 ohm to 100 ohm	0.045 % to 0.014 %
153	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Decade Resistance Box By Direct Method	100 Gohm	3.47 %
154	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Multi-function Calibrator By Direct Method	100 kohm to 1 Mohm	0.008 % to 0.0044 %

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155	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Decade Resistance Box By Direct Method	100 kohm to 1 Mohm	0.013 % to 0.058 %
156	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Decade Resistance Box By Direct Method	100 Mohm	1.17 %
157	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Multi-function Calibrator By Direct Method	100 Mohm to 1000 Mohm	0.07 % to 1.74 %
158	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Standard Resistors By Direct Method	100 ohm	0.0009 %
159	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Multi-function Calibrator By Direct Method	100 ohm to 1 kohm	0.005 %
160	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Decade Resistance Box By Direct Method	100 ohm to 1 kohm	0.014 % to 0.012 %

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161	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Standard Resistor By Direct Method	25 ohm	0.0007 %
162	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Using Multi-function Calibrator By Direct Method	1 mV to 10 mV	0.17 % to 0.028 %
163	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Using Multi-function Calibrator By Direct Method	1 V to 10 V	0.0017 % to 0.0018 %
164	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Using Nano Scan Volt Maintenance System by Direct Method	1.018 V	0.00032 %
165	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Using Multi-function Calibrator By Direct Method	10 mV to 100 mV	0.028 % to 0.0043 %
166	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Using Nano Scan Volt Maintenance System by Direct Method	10 V	0.000367 %

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167	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Using Multi-function Calibrator By Direct Method	10 V to 100 V	0.0018 % to 0.0036 %
168	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Using Multi-function Calibrator By Direct Method	100 mV to 1 V	0.0043 % to 0.0017 %
169	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Using Multi-function Calibrator, By Direct Method	100 V to 1000 V	0.0025 %
170	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	INDUCTANCE @ 1 kHz	Using Standard Inductor by Direct Method	1 H	0.041 %
171	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	INDUCTANCE @ 1 kHz	Using Standard Inductor by Direct Method	1 mH	0.12 %
172	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	INDUCTANCE @ 1 kHz	Using Standard Inductor by Direct Method	10 H	1.14 %

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173	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	INDUCTANCE @ 1 kHz	Using Standard Inductor by Direct Method	10 mH	0.037 %
174	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	INDUCTANCE @ 1 kHz	Using Standard Inductor by Direct Method	100 mH	0.036 %
175	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	INDUCTANCE @ 1kHz	Using Standard Inductor, by Direct Method	100 µH	0.31 %
176	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Current Transformer (Primary Injection) Phase Angle Error 5 A To 3200 A (Primary) 1 A & 5 A (Secondary)	Using Precision Current Transformer & Automatic Instrument transformer test set (AIITS) by Comparison Method	5 A to 3200 A	2.30 minute
177	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Current Transformer (Primary Injection) Ratio Error 5 A to 3200 A (Primary) 1 A & 5 A (Secondary)	Using Precision Current Transformer & Automatic Instrument transformer test set (AIITS), by Comparison Method	5 A to 3200 A	0.066 %

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178	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Bandwidth	Using Multi-function Calibrator By Direct Method	50 kHz to 1100 MHz	4.63 %
179	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude/ Voltage (DC Signal)	Using Multi-function Calibrator by Direct Method	1.25 mV to 100 V (1 Mohm)	0.5 % to 0.06 %
180	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude/ Voltage (Square Wave Signal)	Using Multi-function Calibrator by Direct Method	1 mV to 100 V	0.29 % to 0.10 %
181	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude/ Voltage(Square Wave Signal) (50 ohm)	Using Multi-function Calibrator by Direct Method	1 mV to 6.6 V	0.29 %
182	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope: Time Base	Using Multi-function Calibrator, By Direct Method	2 ns to 5 s	0.025 % to 0.50 %

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183	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Potential Transformer - Phase Angle Error	Using Electronic Potential Divider 33kV & Standard Capacitor with Automatic Instrument transformer test set – by Comparison Method	6.6/v3 kV to 33 kV (Primary), 110/v3V to 110V (Secondary)	3 Minute
184	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Potential Transformer - Ratio Error	Using Electronic Potential Divider 33 kV & Standard Capacitor with Automatic Instrument transformer test set by Comparison Method	6.6/v3 kV to 33 kV (Primary); 110V/v3 to 110V (Secondary)	0.075 %
185	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B-Type Thermocouple	Using Multi-function calibrator By Direct method	600 °C to 1800 °C	1.8 °C
186	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E-Type Thermocouple	Using Multi-function calibrator By Direct method	(-) 250 °C to 1000 °C	1.3 °C

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187	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J-Type thernocouple	Using Multi-function calibrator By Direct method	(-) 210 °C to 1200 °C	0.6 °C
188	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-Type Thermocouple	Using Multi-function Calibrator By Direct Method	(-) 200 °C to 1370 °C	1.3 °C
189	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-Type Thermocouple	Using Multi-function calibrator By Direct method	(-) 200 °C to 1300 °C	1.8 °C
190	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type Thermocouple	Using Multi-function calibrator By Direct method	100 °C to 1760 °C	1.3 °C
191	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 385 / PT 100)	Using 8½ DMM, By Direct Method	(-) 200 °C to 800 °C	0.4 °C
192	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S-Type Thermocouple	Using Multi - function Calibrator By Direct Method	100 °C to 1750 °C	1.3 °C

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193	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T-Type Thermocouple	Using Multi-function Calibrator, By Direct Method	(-) 200 °C to 400 °C	1.9 °C
194	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B-Type Thermocouple	Using Multi-function Calibrator by Direct Method	600 °C to 1800 °C	0.8 °C
195	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E-Type Thermocouple	Using Multi-function Calibrator, By Direct Method	(-) 250 °C to 1000 °C	0.6 °C
196	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type Thermocouple	Using Multi-function Calibrator By Direct Method	(-) 200 °C to 1200 °C	0.4 °C
197	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type Thermocouple	Using Multi-function Calibrator, By Direct Method	(-) 200 °C to 1350 °C	0.5 °C
198	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type Thermocouple	Using Multi-function Calibrator, By Direct Method	(-) 200 °C to 1300 °C	0.6 °C

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199	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type Thermocouple	Using Multi-function Calibrator by Direct Method	100 °C to 1767 °C	0.8 °C
200	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 385 / PT 100)	Using Multi-function Calibrator By Direct Method	(-) 200 °C to 800 °C	0.2 °C
201	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S-Type Thermocouple	Using Multi-function Calibrator, By Direct Method	100 °C to 1760 °C	0.7 °C
202	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Multi-function Calibrator by Direct Method	1 Hz to 2 MHz	0.0013 %
203	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Rubidium Frequency Standard By Direct Method	1 MHz	0.000001 %
204	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Rubidium Frequency Standard by Direct Method	10 MHz	0.00000008 %

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205	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using High Precision Source & 1&3 Phase Reference Standard COM by Comparison Method	40 Hz to 70 Hz	0.006 Hz
206	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Rubidium Frequency Standard By Direct Method	5 MHz	0.00000015 %
207	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using High Resolution counter By comparison Method	5 s to 24 hr	0.02 s to 0.25 s
208	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Function Generator by Direct Method	1 Hz to 15 MHz	0.0013 % to 0.0023 %
209	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using High Resolution Frequency Counter By Direct Method	1 Hz to 2.7 GHz	0.000036 % to 0.000003 %
210	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using 6 1/2 DMM by Direct Method	1 Hz to 300 kHz	0.02 %

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211	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Synthesized By Direct Method	100 kHz to 6 GHz	0.00017 %
212	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using rpm source and Digital Tachometer by Comparison method	100 rpm to 4500 rpm	7.23 rpm
213	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using rpm source and Digital Tachometer by Comparison method	100 rpm to 10000 rpm	7.32 rpm
214	MECHANICAL-ACCELERATION AND SPEED	Tachometer Calibrator (Contact Type	Using Digital Tachometer by Comparison method	> 4500 rpm to 10000 rpm	7.32 rpm
215	MECHANICAL-ACCELERATION AND SPEED	Tachometer Calibrator (Contact Type)	Using Digital Tachometer by Comparison method	100 rpm to 4500 rpm	7.23 rpm
216	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Level Calibrator by Direct Comparison method	94 dB & 114 dB @ 1kHz	0.66 dB
217	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor L.C.: 5 min	Using Angle Gauge Block Set by Comparison method	0° to 360°	4 min. of Arc

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218	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers (Vernier / Dial / Digital/Groove) L.C.: 10 µm	Gauge Block Set & Caliper Checker, By Comparison method	0 to 200 mm	17 µm
219	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers (Vernier / Dial / Digital/Groove) L.C.: 20 µm	Using Gauge Block Set & Caliper Checker by Comparison method	0 to 600 mm	28 µm
220	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set L.C.: 1°	Using Angle Gauge Block Set by Comparison method	0 ° to 180 °	35 min of Arc
221	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 1 µm	Gauge Block Set, By Comparison method	>150 mm to 300 mm	5.7 µm
222	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 1 µm	Gauge Block Set, By Comparison method	>25 mm to 150 mm	3.7 µm

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223	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 1 µm	Gauge Block Set, By Comparison method	0 to 25 mm	3.1 mm
224	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 10 µm	Gauge Block Set, By Comparison method	>150 mm to 300 mm	11 µm
225	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 10 µm	Using Gauge Block Set by Comparison method	25 mm to 150 mm	7 µm
226	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 10 µm	Using Gauge Block Set By Comparison method	Up to 25 mm	6 µm
227	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge/ Thickness Gauge	Using ULM by Comparison Method	0.03 mm to 1 mm	1.2 µm

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228	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Analog / Dial / Digital) L.C.: 20 µm	Gauge Block Set & Caliper Checker, By Comparison method	0 to 600 mm	25 µm
229	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer L.C.: 1 µm	Using Gauge Blocks Grade ‘0’ & Gauge Block Accessories Set by Comparison Method	5 mm to 50 mm	3.7 µm
230	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer L.C.: 10 µm	Using Gauge Blocks Grade ‘0’ & Gauge Block Accessories Set by Comparison Method	50 mm to 300 mm	9 µm
231	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge L.C.: 2 µm	Using ULM by Comparison method	Up to 1 mm	2.0 µm
232	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head/ Depth Micrometer L.C.: 1 µm	Using ULM by Comparison method	Up to 25 mm	2.6 µm

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233	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head/ Depth Micrometer L.C.: 10 µm	Using ULM by Comparison method	Up to 25 mm	6 µm
234	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rods	Using Gauge Block Set & ULM by Comparison method	>100 mm to 200 mm	2.5 µm
235	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rods	Using Gauge Block Set & ULM by Comparison method	>200 mm to 300 mm	3.1 µm
236	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rods	Using Gauge Block Set & ULM by Comparison method	>300 mm to 400 mm	4.2 µm
237	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rods	Using Gauge Block Set & ULM by Comparison method	>400 mm to 500 mm	5.3 µm

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238	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rods	Using Gauge Block Set & ULM by Comparison method	25 mm to 100 mm	1.9 µm
239	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Gauge Block Set & ULM by Comparison method	1 mm to 100 mm	2.2 µm
240	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using Ring Gauge & ULM by Comparison method	15 mm to 100 mm	2.2 µm
241	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using Stylus Tip & ULM by Comparison method	3 mm to 15 mm	1.5 µm
242	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge L.C.: 1 µm	Using Gauge Block Set & ULM by Comparison method	0.001 mm to 25 mm	2.2 µm

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243	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge L.C.: 10 µm	Using Gauge Block Set & ULM by Comparison method	0.01 mm to 30 mm	7.5 µm
244	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire/ Sphere	Using Universal Length Measuring Machine by Comparison method	0.17 mm to 6.35 mm	1.1 µm
245	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge L.C.: 10 µm	Using Thickness Master by Comparison method	0.3 mm to 95 mm	375 µm
246	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Long Slip Gauge	Using Gauge Block Set & ULM by Comparison method	>300 mm to 400 mm	3.5 µm
247	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Long Slip Gauge	Using Gauge Block Set & ULM by Comparison method	>400 mm to 500 mm	4.2 µm
248	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Long Slip Gauge (Grade 2)	Using Gauge Block Set & ULM by Comparison method	>200 mm to 300 mm	2.9 µm

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249	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Long Slip Gauge (Grade 2)	Using Gauge Block Set & ULM by Comparison method	100 mm to 200 mm	2.3 µm
250	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine (L.C.: 0.01 µm)	Using Gauge Block Set by Comparison method	>10 mm to 50 mm	0.90 µm
251	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine (L.C.: 0.01 µm)	Using Gauge Block Set by Comparison method	>50 mm to 100 mm	1.48 µm
252	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine (L.C.: 0.01 µm)	Using Gauge Block Set by Comparison method	0.01 mm to 10 mm	0.50 µm
253	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE (HYDRAULIC) Digital/Analogue Pressure Gauge , Digital Pressure Calibrator, Pressure Transmitter with indicator, Pressure Recorder	Using Hydraulic Dead Weight Tester by Comparison method as per DKD-R 6-1:2016	3 bar (g) to 34.7 bar (g)	(0.0035 bar + 0.0163 % rdg) bar

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254	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE (HYDRAULIC) Digital/Analogue Pressure Gauge, Digital Pressure Calibrator, Pressure Transmitter with indicator , Pressure Recorder	Using Hydraulic Dead Weight Tester by Comparison method as per DKD-R 6-1:2016	13.8 bar (g) to 700 bar (g)	(0.035 bar + 0.016 % rdg) bar
255	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE (HYDRAULIC) Pressure Gauge, Pressure Transmitter with display, Pressure Recorder, Pressure Calibrator	Using Digital Pressure Calibrator by Comparison method as per DKD-R 6-1:2016	34.47 bar (g) to 344.7 bar (g)	0.35 bar
256	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE (PNEUMATIC) Abs Pressure Gauge, Abs Pressure Calibrator, Barometer	Using Digital Pressure Calibrator by Comparison method	800 mbar (abs) to 1100 mbar (abs)	2.3 mbar
257	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE (PNEUMATIC) Digital/Analogue Pressure Gauge , Digital Pressure Calibrator, Pressure Transmitter with display, Pressure Recorder	Using Pneumatic Dead Weight Tester by Comparison method as per DKD-R 6-1:2016	0.07 bar (g) to 2.1 bar (g)	(2.7E-04 bar + 0.023 %rdg) bar

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258	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE (PNEUMATIC) Vacuum Gauge, Vacuum Calibrator, Pressure Transmitter with display, Pressure Recorders	Using Pneumatic Dead Weight Tester by Comparison method as per DKD-R 6-2:2018	(-) 0.89 bar (g) to (-) 0.07 bar (g)	(15E-05 bar + 0.02 % rdg) bar
259	MECHANICAL-VOLUME	Conical Flask, Measuring Cylinder, Beaker, Volumetric Flask	Using Precision Balance (Range: Upto 200 g, L.C: 0.0001 g) and Distilled water by Gravimetric method as per ISO 4787:2021	1 ml to 10 ml @ 27 °C	0.05 ml
260	MECHANICAL-VOLUME	Conical Flask, Measuring Cylinder, Beaker, Volumetric Flask	Using Precision Balance (Range upto 200 g, L.C: 0.0001 g) and Distilled water by Gravimetric method as per ISO 4787:2021	10 ml to 100 ml @ 27 °C	0.5 ml
261	MECHANICAL-VOLUME	Pipette (Piston Type)	Using Precision Balance (Range: upto 200 g, L.C: 0.0001 g) and Distilled water by Gravimetric method as per IS 8655-6:2022	>1 ml to 10 ml @ 27 °C	15 µl

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262	MECHANICAL-VOLUME	Pipette (Piston Type)	Using Precision Balance (Range: upto 200 g, L.C.: 0.0001 g) and Distilled water by Gravimetric method as per IS 8655-6:2022	>500 µl to 1000 µl @ 27 °C	5 µl
263	MECHANICAL-VOLUME	Pipette (Piston Type)	Using Precision Balance (Range: upto 50 g, L.C: 0.00001 g) and Distilled water by Gravimetric method as per IS 8655-6:2022	50 µl to 200 µl @ 27 °C	3.15 µl
264	MECHANICAL-VOLUME	Pipette (Piston Type)	Using Precision Balance (range: upto 200 g, L.C: 0.0001 g) and Distilled water by Gravimetric method as per IS 8655-6:2022	500 µl @ 27 °C	3.5 µl
265	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance Calibration of Class-I weighing balances and coarser (Readability: 0.1 mg)	Using Standard weights of E2 Class as per OIML R-76	>50 g to 200 g	0.3 mg

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266	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance, Class III weighing balances and coarser (readability: 100 g)	Using Standard weights of M1 Class as per OIML R-76	>500 kg to 1000 kg	300 g
267	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance, Class-II weighing balances and coarser, readability: 10 mg	Using Standard weights of E2 Class as per OIML R-76	>200 g to 2 kg	30 mg
268	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance- Class IIII weighing balances (readability: 10 g)	Using Standard weights of M1 Class as per OIML R-76	>50 kg to 200 kg	30 g
269	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance- Class IIII weighing balances, readability: 250 g	Using Standard weights of M1 Class as per OIML R-76	>2000 kg to 2500 kg	750 g
270	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance- Class-I weighing balances and coarser, readability: 0.01 mg	Using Standard weights of E2 Class as per OIML R-76	1 mg to 50 g	0.06 mg
271	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance-Class IIII weighing balances, readability: 50 g	Using Standard weights of M1 Class as per OIML R-76	>200 kg to 500 kg	150 g

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272	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance-Class IIII weighing balances,readability: 200 g	Using Standard weights of M1 Class as per OIML R-76	>1000 kg to 2000 kg	600 g
273	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance-Class-III weighing balances and coarser readability: 1 g	Using Standard weights of E2 Class as per OIML R-76	>20 kg to 50 kg	3 g
274	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance-Class-III weighing balances and coarser, readability: 100 mg	Using Standard weights of E2 Class as per OIML R-76	>2 kg to 20 kg	300 mg
275	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Standard weights of E2 Class & Precision Balances (Range: Upto 50 g, Readability: 0.00001 g) by substitution method (ABBA" weighing cycle) as per OIML R-111	1 g	0.1 mg

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276	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Standard weights of E2 Class & Precision Balances (Range: Upto 50 g, Readability: 0.00001 g) by substitution method (ABBA" weighing cycle) as per OIML R-111	1 mg	0.02 mg
277	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Standard weights of E2 Class & Precision Balances (Range: Upto 50 g, Readability: 0.00001 g) by substitution method (ABBA" weighing cycle) as per OIML R-111	10 g	0.16 mg
278	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Standard weights of E2 Class & Precision Balances (Range: Upto 50 g, Readability: 0.00001 g) by substitution method (ABBA" weighing cycle) as per OIML R-111	10 mg	0.03 mg

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279	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Standard weights of E2 Class & Precision Balance (Range: upto 200 g, Readability: 0.0001 g) by substitution method (ABBA" weighing cycle) as per OIML R-111	100 g	0.25 mg
280	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Standard weights of E2 Class & Precision Balances (Range: Upto 50 g, Readability: 0.00001 g) by substitution method (ABBA" weighing cycle) as per OIML R-111	100 mg	0.05 mg
281	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Standard weights of E2 Class & Precision Balances (Range: Upto 50 g, Readability: 0.00001 g) by substitution method (ABBA" weighing cycle) as per OIML R-111	2 g	0.12 mg

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282	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Standard weights of E2 Class & Precision Balances (Range: Upto 50 g, Readability: 0.00001 g) by substitution method (ABBA" weighing cycle) as per OIML R-111	2 mg	0.02 mg
283	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Standard weights of E2 Class & Precision Balances (Range: Upto 50 g, Readability: 0.00001 g) by substitution method (ABBA" weighing cycle) as per OIML R-111	20 g	0.18 mg
284	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Standard weights of E2 Class & Precision Balances (Range: Upto 50 g, Readability: 0.00001 g) by substitution method (ABBA" weighing cycle) as per OIML R-111	20 mg	0.03 mg

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285	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Standard weights of E2 Class & Precision Balance (Range: upto 200 g, Readability: 0.0001 g:) by substitution method (ABBA" weighing cycle) as per OIML R-111	200 g	0.3 mg
286	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Standard weights of E2 Class & Precision Balances (Range: Upto 50 g, Readability: 0.00001 g) by substitution method (ABBA" weighing cycle) as per OIML R-111	200 mg	0.06 mg
287	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Standard weights of E2 Class & Precision Balances (Range: Upto 50 g, Readability: 0.00001 g) by substitution method (ABBA" weighing cycle) as per OIML R-111	5 g	0.14 mg

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288	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Standard weights of E2 Class & Precision Balances (Range: Upto 50 g, Readability: 0.00001 g) by substitution method (ABBA" weighing cycle) as per OIML R-111	5 mg	0.02 mg
289	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Standard weights of E2 Class & Precision Balances (Range: Upto 50 g, Readability: 0.00001 g) by substitution method (ABBA" weighing cycle) as per OIML R-111	50 g	0.2 mg
290	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Standard weights of E2 Class & Precision Balances (Range: Upto 50 g, Readability: 0.00001 g) by substitution method (ABBA" weighing cycle) as per OIML R-111	50 mg	0.04 mg

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291	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Standard weights of E2 Class & Precision Balances (Range: Upto 50 g, Readability: 0.00001 g) by substitution method (ABBA" weighing cycle) as per OIML R-111	500 mg	0.08 mg
292	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using Standard weights of E2 Class & Precision Balance (Range: upto 2000 g, Readability: 0.01 g) by substitution method (ABBA" weighing cycle) as per OIML R-111	1 kg	15 mg
293	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using Standard weights of E2 Class & Precision Balance (Range: upto 20 kg, Readability: 0.0001 kg:) by substitution method (ABBA" weighing cycle) as per OIML R-111	10 kg	150 mg

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294	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using Standard weights of E2 Class & Precision Balance (Range: upto 2000 g, Readability: 0.01 g) by substitution method (ABBA" weighing cycle) as per OIML R-111	2 kg	30 mg
295	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using Standard weights of E2 Class & Precision Balance (Range: upto 20 kg, Readability: 0.0001 kg) by substitution method (ABBA" weighing cycle) as per OIML R-111	20 kg	300 mg
296	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using Standard weights of E2 Class & Precision Balances by Comparison method as per OIML R-111, "ABBA" weighing cycle Balance Used: Cap: 5000 g, d=0.1 g	5 kg	95 mg

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297	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using Standard weights of E2 Class & Precision Balance (Range: upto 50 kg, Readability: 0.001 kg) by substitution method (ABBA" weighing cycle) as per OIML R-111	50 kg	950 mg
298	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using Standard weights of E2 Class & Precision Balance (Range: upto 2000 g, Readability: 0.01 g) by substitution method (ABBA" weighing cycle) as per OIML R-111	500 g	9.5 mg
299	THERMAL-SPECIFIC HEAT & HUMIDITY	Environment Chamber/Humidity Chamber/Humidity Generator (multi position)	Using Humidity Sensors/Temperature sensor with Multi Channel data logger (Minimum 9 Sensor) by comparison method	15 %rh to 95 %rh @ 25 °C	2 %rh
300	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity indicator with sensor of chamber Single point calibration Method	Using Temperature/Humidity Indicator with sensor by comparison method	15 %rh to 95 %rh @ 25 °C	1.69 %rh

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301	THERMAL-SPECIFIC HEAT & HUMIDITY	Hygrometer, Humidity indicator with inbuilt or external sensor	Using Humidity Indicator with Sensor & Humidity Generator/chamber by Comparison Method	10 %rh to 95 %rh @ 25 °C	0.6 %rh
302	THERMAL-SPECIFIC HEAT & HUMIDITY	Hygrometer/Humidity Meter/Digital Thermo-hygrometer/Data Logger	Using Precision standard hygrometer/Temperature Sensor with indicator, Temperature/Humidity Generator by comparison method	10 °C to 50 °C @ 50 %rh	0.5 °C
303	THERMAL-SPECIFIC HEAT & HUMIDITY	Hygrothermometer, Humidity indicator with inbuilt or external sensor	Using Temperature & Humidity sensors with indicator, Humidity Chamber by Comparison Method	15 %rh to 95 %rh @ 20 °C to 40 °C	0.90 %rh
304	THERMAL-TEMPERATURE	SPRTs/ PRTs/Thermocouples at fixed point of Triple point of Water	Using TPW Cell with Maintenance Apparatus, Resistance Bridge By Fixed Point Calibration as per ITS-1990	0.01 °C	0.005 °C

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305	THERMAL-TEMPERATURE	Controller with sensor of Black body Source/ IR Thermal Source/ Black body Cavity (Single Position)	Using IR Pyrometers (Emissivity 0.95) by Comparison method	(-) 15 °C to 500 °C	1.81 °C
306	THERMAL-TEMPERATURE	IR Thermometer / IR Gun/ Radiation Pyrometer / Thermal Imager	Using IR-Calibrator/ Standard Pyrometer (Emissivity:0.95) By Comparison Method	120 °C to 500 °C	1.71 °C
307	THERMAL-TEMPERATURE	IR Thermometer / IR Gun/ Radiation Pyrometer / Thermal Imager (temperature only)	Using IR-Calibrator/ Standard Pyrometer (Emissivity:0.95) by Comparison Method	(-) 15 °C to 120 °C	1.41 °C
308	THERMAL-TEMPERATURE	Liquid in glass thermometer, Temperature Gauge	Using SPRT with Temperature Readout & Liquid bath, DMM by comparison method	(-) 65 °C to 40 °C	0.06 °C
309	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Temperature Gauge	Using PRT with Temperature Readout & silicon oil baths, DMM by comparison mathod	40 °C to 288 °C	0.06 °C
310	THERMAL-TEMPERATURE	Oven, Bath, Freezer, Test Chamber, Furnace (Multiposition)	Using 9 PRT Sensors (Minimum 9) & Temperature Scanner by comparison method	(-) 65 °C to 150 °C	1.58 °C

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311	THERMAL-TEMPERATURE	RTD Sensor / Thermocouple with or without temperature indicator, temperature gauge, temperature transmitter	Using SPRT with Temperature Readout & Fluidized baths, DMM by Comparison Method	288 °C to 660 °C	0.06 °C
312	THERMAL-TEMPERATURE	RTD Sensor /Thermocouple with or without temperature indicator	Using SPRT with Temperature Readout & Ultra cool Bath, DMM by comparison method	(-) 95 °C to 140 °C	0.06 °C
313	THERMAL-TEMPERATURE	RTD Sensor /Thermocouple with or without temperature indicator, temperature transmitter	Using SPRT with Temperature Readout & Methanol Oil baths, DMM by comparison method	(-) 65 °C to 40 °C	0.03 °C
314	THERMAL-TEMPERATURE	RTD Sensor /Thermocouple with or without temperature indicator, temperature transmitter	Using SPRT with Temperature Readout & Silicon oil baths, DMM by comparison method	40 °C to 288 °C	0.03 °C

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315	THERMAL-TEMPERATURE	SPRTs/ PRTs/ Thermocouples at Boiling Point of LN2	Using Liquid Nitrogen Comparator, SPRT with Resistance Bridge at Boiling Point of Liquid Nitrogen by Comparison Method	(-) 196 °C	0.015 °C
316	THERMAL-TEMPERATURE	SPRTs/ PRTs/ Thermocouples at fixed point of Aluminum Freeze point	Using Aluminum Cell with Maintenance Apparatus, Resistance Bridge by Fixed Point Calibration as per ITS-1990	660.323 °C	0.01 °C
317	THERMAL-TEMPERATURE	SPRTs/ PRTs/ Thermocouples at fixed point of Tin freeze point	Using Tin Cell with Maintenance Apparatus, Resistance Bridge by Fixed Point Calibration as per ITS-1990	231.928 °C	0.006 °C
318	THERMAL-TEMPERATURE	SPRTs/ PRTs/ Thermocouples at fixed point of Triple point of Mercury	Using Mercury Cell with Maintenance Apparatus, Resistance Bridge by Fixed Point Calibration as per ITS-1990	(-) 38.8344 °C	0.006 °C

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319	THERMAL-TEMPERATURE	SPRTs/ PRTs/ Thermocouples at Fixed point of Zinc freeze point	Using Zinc Cell with Maintenance Apparatus, Resistance Bridge by Fixed Point Calibration as per ITS-1990	419.527 °C	0.0065 °C
320	THERMAL-TEMPERATURE	Temperature indicator with sensor of Bath/ Dry block calibrator/ Furnace (Single position)	Using PRT Sensor & Temperature Scanner by comparison method	(-) 65 °C to 660 °C	0.09 °C
321	THERMAL-TEMPERATURE	Temperature indicator with sensor of Bath/ Dry block calibrator/ Furnace (Single position)	Using PRT Sensor & Temperature Scanner by comparison method	(-) 95 °C to 140 °C	0.06 °C
322	THERMAL-TEMPERATURE	Temperature indicator with sensor of Bath/ Dry block calibrator/ Furnace (Single Position)	Using R Type Thermocouple Sensor & Temperature Scanner by comparison method	660 °C to 1300 °C	1.59 °C
323	THERMAL-TEMPERATURE	Temperature indicator with sensor of Bath/ Dry block/ Furnace (Single position)	Using Standard R type Thermocouple with Temperature scanner by comparison method	660 °C to 1200 °C	1.76 °C

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324	THERMAL-TEMPERATURE	Thermcouple sensor with or without temperature indicator, temperature transmitter	Using Standard 'R' type Thermocouple with Temperature readout and Furnace, DMM by comparison method	660 °C to 1300 °C	1.45 °C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P2W/ 3P3W / 3P4W AC Apparent Power @ 40 Hz to 70 Hz (30 V to 320 V, 1 mA To 10 mA)	Using High Precision 3Phase Reference Standard, Source by Direct/Comparison Method.	0.003 VA to 9.6 VA	0.385 % to 0.009 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P2W/ 3P3W / 3P4W AC Active Power @ 40 Hz to 70 Hz (30 V to 320 V, 1 mA to 10 mA , PF:0.1 (lead/lag) to UPF)	Using High Precision 3Phase Reference Standard, Source by Direct/Comparison Method.	0.003 W to 9.6 W	0.385 % to 0.009 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P2W/ 3P3W / 3P4W AC Apparent Energy @ 40 Hz to 70 Hz (30 V to 320 V, 1 mA To 10 mA)	Using High Precision 3Phase Reference Standard by Direct/Comparison Method.	0.003 VAh to 9.6 VAh	0.385 % to 0.009 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P2W/ 3P3W / 3P4W AC Apparent Energy @ 40 Hz to 70 Hz {30 V to 320 V, 10 mA to 100 A , PF:0.1 to UPF (lead/lag)}	Using High Precision 3Phase Reference Standard by Direct/Comparison Method.	0.03 VAh to 96 kVAh	0.17 % to 0.006 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P2W/ 3P3W / 3P4W AC Reactive Energy @ 40 Hz to 70 Hz {30 V to 320 V, 10 mA To 100 A , PF:0.1 to UPF ((lead/lag) }	Using High Precision 3Phase Reference Standard, Source by Direct/Comparison Method.	0.03 VArh to 96 kVArh	0.17 % to 0.006 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P2W/ 3P3W / 3P4W AC Reactive Power @ 40 Hz to 70 Hz { 30 V to 320 V, 10 mA To 100 A , PF:0.1 (lead/lag) to UPF }	Using High Precision 3Phase Reference Standard , Source by Direct/Comparison Method.	0.03 VAr to 96 kVAr	0.019 % to 0.008 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P2W/ 3P3W / 3P4W AC Apparent Power @ 40 Hz to 70 Hz (10 V to 480 V, 10 mA to 100 A)	Using Reference Power/ Energy Comparator, source by Direct / Comparison Method.	0.01 W to 1.44 kW	0.018 % to 0.019 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P2W/ 3P3W / 3P4W AC Reactive power @ 40 Hz to 70 Hz, (30 V to 320 V, 1 mA to 10 mA)	Using High Precision 3 Phase Reference Standard, Source by Direct/Comparison Method.	0.003 VAr to 9.6 VAr	0.385 % to 0.009 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P2W/ 3P3W / 3P4W Active Power @ 40 Hz to 70 Hz {40 V to 320 V, >120 A to 3000 A, PF: 0.5 (Lag/ Lead) to UPF}	By Using 3 Phase Reference Source with Multiturn Current Coil & 3 Phase Power analyzer By Using Direct Method.	2400 W to 2880 kW	0.015 % to 0.473 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P2W/ 3P3W / 3P4W Apparent Power @ 40 Hz to 70 Hz(30 V to 320 V, 120 A to 3000 A)	Using 3 Phase Reference Standard with Multi turn Current Coil & 3 Phase Power analyzer by Direct Method	360 VA to 2880 kVA	0.015 % to 0.385 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P2W/ 3P3W / 3P4W Phase AC Active Energy @ 40 Hz to 70 Hz (30 V to 320 V, 10 mA to 100 A , PF: 0.1 (lead/lag) to UPF)	Using High Precision 3Phase Reference Standard, Source by Direct/Comparison Method.	0.03 Wh to 96 kWh	0.018 % to 0.0018 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P2W/ 3P3W / 3P4W Phase AC Active Power @ 40 Hz to 70 Hz {30 V to 320 V, 10 mA to 100 A , PF:0.1 (lead/lag) to UPF}	Using High Precision 3 Phase Reference Standard, Source by Direct/Comparison Method.	0.03 W to 96 kW	0.019 % to 0.008 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1P2W/ 3P3W / 3P4W Phase AC Reactive Energy @ 40 Hz to 70 Hz (30 V to 320 V, 1 mA To 10 mA)	Using Reference Power/ Energy Comparator, Source by Direct / Comparison Method.	0.003 VArh to 9.6 VArh	0.385 % to 0.009 %

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14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC CURRENT @ 1 kHz to 5 kHz	Using Power Analyzer By Direct Method	1 A to 20 A	0.075 % to 0.058 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC CURRENT @ 1 kHz to 5 kHz	Using 8½ Digital Multimeter By Direct Method	100 µA to 100 mA	0.035 % to 0.035 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC CURRENT @ 1 kHz to 5 kHz	Using 8½ Self Cal DMM by Direct Method	30 µA to 100 µA	0.071 % to 0.049 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 70 Hz	Using Reference Power/ Energy Comparator , Source by Direct / Comparison Method	1 mA to 120 A	0.038 % to 0.0013 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 70 Hz	Using High Precision Source and 1&3 Phase Reference Standard by Comparison Method	10 mA to 100 A	0.015 % to 0.0015 %

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19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC CURRENT @ 50 Hz to 1 kHz	Using Power Analyzer By Direct Method	1 A to 20 A	0.09 % to 0.25% %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC CURRENT @ 50 Hz to 1 kHz	Using 6½ DMM By Direct Method	1 A to 3 A	0.20 % to 0.23 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC CURRENT @ 50 Hz to 1 kHz	Using 6½ DMM By Direct Method	100 µA to 100 mA	0.051 % to 0.056 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC CURRENT @ 50 Hz to 1 kHz	Using 8½ Self Cal DMM By Direct Method	100 mA to 1 A	0.035 % to 0.075 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC CURRENT @ 50 Hz to 1 kHz	Using 6½ DMM By Direct Method	100 mA to 1 A	0.21 % to 0.21 %

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24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC CURRENT @ 50 Hz to 1 kHz	Using 8½ Self Cal DMM By Direct Method	30 µA to 100 µA	0.068 % to 0.053 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using H.V. Probe with DMM By Direct Method	1 kV to 10 kV	3.06 % to 3.09 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using H.V.Probe with DMM by Direct Method	10 kV to 20 kV	3.07 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC RESISTANCE@ 1 kHz	Using Precision LCR meter, By Direct Method	1 ohm to 10 kohm	0.13 % to 0.11 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 40 Hz to 70 Hz	Using High Precision 3 Phase Reference Standard, Source by Direct/Comparison Method	10 V to 480 V	0.0013 % to 0.0006 %

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29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 40 Hz to 70 Hz	Using Power /Energy Comparator, source by Direct/indirect Method	30 V to 320 V	0.0006 % to 0.0014 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC VOLTAGE @ 50 Hz to 1 kHz	Using 6½ DMM, By Direct Method	1 mV to 1 V	0.42 % to 0.12 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC VOLTAGE @ 50 Hz to 1 kHz	Using 8½ Self-cal DMM, By Direct Method	1 mV to 100 mV	0.28 % to 0.011 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC VOLTAGE @ 50 Hz to 1 kHz	Using 6½ DMM, By Direct Method	1 V to 10 V	0.12 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC VOLTAGE @ 50 Hz to 1 kHz	Using 6½ DMM By Direct Method	10 V to 100 V	0.12 % to 0.043 %

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34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC VOLTAGE @ 50 Hz to 1 kHz	Using 8½ Self-cal DMM, By Direct Method	100 mV to 100 V	0.011 % to 0.014 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC VOLTAGE @ 50 Hz to 1 kHz	Using 8½ Selfcal DMM, By Direct Method	100 V to 1000 V	0.012 % to 0.01 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC VOLTAGE @ 50 Hz to 1 kHz	Using 6½ DMM By Direct Method	100 V to 750 V	0.047 % to 0.06 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (1 Phase & 3 Phase) @ 40 Hz to 70 Hz {40 V to 320 V, 120 A to 3000 A, PF: 0.5 to UPF (Lag/ Lead)}	Using 3 Phase Reference Standard with Multiturn Current Coil & 3 Phase Power analyser by Direct Method	2400 Wh to 2880 kWh	0.015 % to 0.380 %

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38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (1Phase & 3Phase) @ 40 Hz to 70 Hz {30 V to 320 V , 1 mA to 10 mA, PF: 0.1 to UPF (Lag/ Lead)}	Using Reference Source & Power/ Energy Comparator, Source by Direct / Comparison Method	0.003 W to 9.6 W	0.385 % to 0.0018 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Apparent Energy (1 Phase & 3 Phase) @ 40 Hz to 70 Hz.(40 V to 320 V, 120 A to 3000 A)	Using 3 Phase Reference Standard with Multiturn Current Coil & 3 Phase Power analyzer By Direct Method.	2400 VAh to 2880 kVAh	0.015 % to 0.380 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	CAPACITANCE @ 1 kHz	Using Precision LCR meter, By Direct Method	1 nF to 1 mF	0.41 % to 0.70 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	HARMONICS TOTAL HARMONICS DISTORTION, DISTORTION FACTOR @ 0.05 mA to 24 A, 40 Hz to 70 Hz.	Using High Precesion Reference Power/ Energy Comparator, Source by Direct / Comparison Method	2 nd order to 40 th order	0.8 % to 0.8 %

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42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	HARMONICS TOTAL HARMONICS DISTORTION, DISTORTION FACTOR @ 10 V to 240 V, 40 Hz to 70 Hz, 0.5-UPF-0.8	Using Reference Power/ Energy Comparator, source by Direct / Comparison Method	2 nd Order to 40 th Order	0.47 %
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	INDUCTANCE @1 kHz	Using Precision LCR meter, By Direct Method	100 µH to 10 H	0.27 % to 0.11 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ 40 Hz to 70 Hz { 10 V to 480 V, 1 mA to 120 A}	Using High Precision Source & 1&3 Phase Reference Standard by Direct/Comparative Method	0.1 PF to 1 PF	0.007 PF to 0.006 PF
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Reactive Energy (1Phase & 3Phase) @ 40Hz - 70Hz.{ 40 V to 320 V, 120 A to 3000 A, PF: 0.5 (Lag/ Lead) to UPF}	Using 3 Phase Reference Standard with Multiturn Currnet Coil & 3 Phase Power analyzer by Direct Method.	2400 VArh to 2880 kVArh	0.015 % to 0.473 %

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46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Reactive Power (1Phase & 3Phase) @ 40 Hz to 70 Hz {40 V to 320 V, 120 A to 3000 A, PF: 0.5 (Lag/ Lead) to UPF}	Using 3 Phase Reference Standard with Multiturn Currnet Coil & 3 Phase Power analyzer by Using Direct Method.	2400 VAr to 2880 kVAr	0.015 % to 0.380 %
47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC CURRENT @ 50 Hz	Using Multi-function Calibrator with Current coil By Direct Method	20 A to 1000 A	1.6 % to 1 %
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC CURRENT @ 50 Hz to 1 kHz	Using Multi-function Calibrator By Direct Method	1 A to 20 A	0.39 % to 0.14 %
49	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC CURRENT @ 50 Hz to 1 kHz	Using Multi-function Calibrator By Direct Method	1 mA to 10 mA	0.14 % to 0.08 %
50	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC CURRENT @ 50 Hz to 1 kHz	Using Multi-function Calibrator By Direct Method	10 mA to 100 mA	0.08 %

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51	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC CURRENT @ 50 Hz to 1 kHz	Using Multi-function Calibrator By Direct Method	30 µA to 1 mA	0.62 % to 0.14 %
52	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC CURRENT @50 Hz to 1 kHz	Using Multi-function Calibrator By Direct Method	100 mA to 1 A	0.08 %
53	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power - Single Phase @ 50 Hz (0.2 PF,120 V to 240 V, 0.1 A to 20 A, 0.2 PF)	Using Multi-function Calibrator, By Direct Method	2.4 W to 960 W	0.5 %
54	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power - Single Phase @ 50 Hz (0.5 PF, 120 V to 240 V, 0.1 A to 20 A)	Using Multi-function Calibrator by Direct Method	6 W to 2.4 kW	0.3 %
55	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power - Single Phase @ 50 Hz (UPF, 120 V to 240 V, 0.1 A to 20 A)	Using Multi-function Calibrator By Direct Method	12 W to 4.8 kW	0.10 % to 0.12 %
56	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power- Single Phase @ 50 Hz (0.8 PF, 120 V to 240 V, 0.1 A to 20 A)	Using Multi-function Calibrator, By Direct Method	9.6 W to 3.8 kW	0.20 %

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57	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Resistance @ 1 kHz	Using Standard Resistors by Direct Method	1 kohm	0.0066 %
58	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC RESISTANCE @ 1 kHz	Using Standard Resistors By Direct Method	1 ohm	0.011 %
59	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC RESISTANCE @ 1 kHz	Using Standard Resistors By Direct Method	10 kohm	0.007 %
60	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC RESISTANCE @ 1 kHz	Using Standard Resistors By Direct Method	10 ohm	0.0065 %
61	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Resistance @ 1 kHz	Using Standard Resistors By Direct Method	100 ohm	0.0066 %
62	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC VOLTAGE @ 1 kHz to 100 kHz	Using Multi-function Calibrator By Direct Method	10 V to 300 V	0.10 V to 0.15 V

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63	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC VOLTAGE @ 50 Hz to 1 kHz	Using Multi-function Calibrator By Direct Method	1 mV to 10 mV	0.71 % to 0.088 %
64	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC VOLTAGE @ 50 Hz to 1 kHz	Using Multi-function Calibrator, By Direct Method	10 mV to 100 mV	0.088 % to 0.038 %
65	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC VOLTAGE @ 50 Hz to 1 kHz	Using Multi-function Calibrator, By Direct Method	10 V to 100 V	0.029 % to 0.031 %
66	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC VOLTAGE @ 50 Hz to 1 kHz	Using Multi-function Calibrator, By Direct Method	100 mV to 10 V	0.038 % to 0.029 %
67	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC VOLTAGE @ 50 Hz to 1 kHz	Using Multi-function Calibrator By Direct Method	100 V to 1000 V	0.031 % to 0.038 %
68	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	CAPACITANCE @ 1 kHz	Using Standard Capacitor Series (Discrete Value) by Direct Method	1 µF	0.05 %

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69	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	CAPACITANCE @ 1 kHz	Using Standard Capacitor (Discrete Value) by Direct Method	1 nF	0.02 %
70	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	CAPACITANCE @ 1 kHz	Using High Accuracy Decade Capacitance Subsititutor 1 pF to 1uFby Direct Method	1 nF to 1 µF	0.52 %
71	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	CAPACITANCE @ 1 kHz	Using Standard Capacitor Series (Discrete Value) by Direct Method	10 µF	0.07 %
72	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	CAPACITANCE @ 1 kHz	Using Standard Capacitor (Discrete Value) by Direct Method	10 nF	0.02 %
73	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	CAPACITANCE @ 1 kHz	Using Standard Capacitor Series (Discrete Value) by Direct Method	100 µF	0.27 %
74	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	CAPACITANCE @ 1 kHz	Using Standard Capacitor Series (Discrete Value) by Direct Method	100 nF	0.02 %

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75	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	CAPACITANCE @ 1 kHz	Using Standard Capacitor Series (Discrete Value) by Direct Method	1000 µF	0.72 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC CURRENT	Using 6½ DMM By Direct Method	1 A to 3 A	0.12 % to 0.16 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC CURRENT	Using 6½ DMM By Direct Method	1 mA to 10 mA	0.50 % to 0.07 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC CURRENT	Using 8½ DMM By Direct Method	1 mA to 100 mA	0.01 % to 0.012 %
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC CURRENT	Using 6½ DMM By Direct Method	10 mA to 100 mA	0.06 % to 0.12 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC CURRENT	Using 8½ DMM By Direct Method	100 µA to 1 mA	0.01 %

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81	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC CURRENT	Using 8½ DMM By Direct Method	100 mA to 1 A	0.012 % to 0.020 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC CURRENT	Using 6½ DMM By Direct Method	100 mA to 1 A	0.12 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using High Resistance Meter By Direct Method	1 Gohm to 10 Gohm	0.48 % to 1.1 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using 6½ DMM By Direct Method	1 kohm to 10 kohm	0.014 %
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using 6½ DMM By Direct Method	1 Mohm to 10 Mohm	0.022 % to 0.075 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using 8½ DMM By Direct Method	1 Mohm to 10 Mohm	0.126 % to 0.015 %

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87	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using 6½ DMM By Direct Method	1 ohm to 100 ohm	1.27 % to 0.023 %
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using High Resistance Meter By Direct Method	10 Gohm to 1 Tohm	1.1 % to 4.28 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using 8½ DMM By Direct Method	10 kohm to 1 Mohm	0.0017 % to 0.126 %
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using 8½ DMM By Direct Method	10 kohm to 100 kohm	0.011 %
91	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using 8½ DMM By Direct Method	10 Mohm to 100 Mohm	0.015 % to 0.10 %
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using 8½ DMM By Direct Method	10 Mohm to 100 Mohm	0.075 % to 0.18 %

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93	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using 8½ DMM By Direct Method	100 kohm to 1 Mohm	0.012 % to 0.126 %
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using 8½ DMM By Direct Method	100 Mohm to 1000 Mohm	0.10 % to 0.25 %
95	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using 8½ DMM By Direct Method	100 ohm to 1 kohm	0.020 % to 0.011 %
96	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC RESISTANCE	Using 8½ DMM By Direct Method	100 ohm to 10 kohm	0.0017 %
97	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 8½ DMM By Direct Method	1 mV to 100 mV	0.032 % to 0.031 %
98	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 6½ DMM By Direct Method	1 mV to 100 mV	1.25 % to 0.02 %

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99	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 6½ DMM By Direct Method	1 V to 10 V	0.006 % to 0.005 %
100	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 8½ DMM, By Direct Method	10 V to 100 V	0.001 % to 0.0012 %
101	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 6½ DMM By Direct Method	10 V to 100 V	0.005 % to 0.006 %
102	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 6½ DMM By Direct Method	100 mV to 1 V	0.02 % to 0.006 %
103	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 8½ DMM By Direct Method	100 mV to 10 V	0.001 %
104	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 8½ DMM By Direct Method	100 V to 1000 V	0.0012 % to 0.0013 %

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105	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC VOLTAGE	Using 6½ DMM By Direct Method	100 V to 1000 V	0.006 %
106	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multi-function Calibrator By Direct Method	1 µA to 10 µA	2.33 % to 0.25 %
107	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multi-function Calibrator By Direct Method	1 A to 10 A	0.076 %
108	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multi-function Calibrator By Direct Method	1 mA to 100 mA	0.018 % to 0.015 %
109	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multi-function Calibrator By Direct Method	10 µA to 100 µA	0.25 % to 0.041 %
110	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multi-function Calibrator By Direct Method	10 A to 20 A	0.12 %

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111	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multi-function Calibrator By Direct Method	100 µA to 1 mA	0.041 % to 0.018 %
112	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC CURRENT	Using Multi-function Calibrator By Direct Method	100 mA to 1 A	0.015 % to 0.076 %
113	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Standard Resistors By Direct Method	0.01 ohm	0.084 %
114	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Decade Resistance Box By Direct Method	0.01 ohm to 100 kohm	1 % to 0.012 %
115	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Standard Resistor By Direct Method	0.1 ohm	0.035 %
116	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Decade Resistance Box By Direct Method	0.1 ohm to 10 ohm	2.32 % to 0.045 %

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117	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Decade Resistance Box By Direct Method	1 Gohm	1.64 %
118	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Standard Resistors By Direct Method	1 kohm	0.0007 %
119	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Decade Resistance Box By Direct Method	1 kohm to 10 kohm	0.012 % to 0.013 %
120	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Multi-function Calibrator By Direct Method	1 kohm to 100 kohm	0.005 % to 0.008 %
121	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Multi-function Calibrator By Direct Method	1 Mohm to 10 Mohm	0.0044 % to 0.016 %
122	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Standard Resistor By Direct Method	1 ohm	0.0007 %

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123	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Standard Resistors By Direct Method	1 ohm	0.055 %
124	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Multi-function Calibrator By Direct Method	1 ohm to 100 ohm	0.15 % to 0.005 %
125	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Decade Resistance Box By Direct Method	1 Tohm	5.39 %
126	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Decade Resistance Box By Direct Method	10 Gohm	1.64 %
127	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Standard Resistors By Direct Method	10 kohm	0.005 %
128	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Decade Resistance Box By Direct Method	10 kohm to 100 kohm	0.013 % to 0.012 %

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129	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Multi-function Calibrator By Direct Method	10 Mohm to 100 Mohm	0.016 % to 0.07 %
130	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Standard Resistor By Direct Method	10 ohm	0.0007 %
131	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Decade Resistance Box By Direct Method	10 ohm to 100 ohm	0.045 % to 0.014 %
132	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Decade Resistance Box By Direct Method	100 Gohm	3.47 %
133	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Multi-function Calibrator By Direct Method	100 kohm to 1 Mohm	0.008 % to 0.0044 %
134	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Decade Resistance Box By Direct Method	100 kohm to 1 Mohm	0.013 % to 0.058 %

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135	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Decade Resistance Box By Direct Method	100 Mohm	1.17 %
136	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Multi-function Calibrator By Direct Method	100 Mohm to 1000 Mohm	0.07 % to 1.74 %
137	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Standard Resistors By Direct Method	100 ohm	0.0009 %
138	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Multi-function Calibrator By Direct Method	100 ohm to 1 kohm	0.005 %
139	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC RESISTANCE	Using Decade Resistance Box By Direct Method	100 ohm to 1 kohm	0.014 % to 0.012 %
140	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Standard Resistor By Direct Method	25 ohm	0.0007 %

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141	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Using Multi-function Calibrator By Direct Method	1 mV to 10 mV	0.17 % to 0.028 %
142	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Using Multi-function Calibrator By Direct Method	1 V to 10 V	0.0017 % to 0.0018 %
143	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Using Multi-function Calibrator By Direct Method	10 mV to 100 mV	0.028 % to 0.0043 %
144	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Using Nano Scan Volt Maintenance System by Direct Method	10 V	0.000367 %
145	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Using Multi-function Calibrator By Direct Method	10 V to 100 V	0.0018 % to 0.0036 %
146	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Using Multi-function Calibrator By Direct Method	100 mV to 1 V	0.0043 % to 0.0017 %

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147	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC VOLTAGE	Using Multi-function Calibrator, By Direct Method	100 V to 1000 V	0.0025 %
148	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	INDUCTANCE @ 1 kHz	Using Standard Inductor by Direct Method	1 H	0.041 %
149	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	INDUCTANCE @ 1 kHz	Using Standard Inductor by Direct Method	1 mH	0.12 %
150	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	INDUCTANCE @ 1 kHz	Using Standard Inductor by Direct Method	10 H	1.14 %
151	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	INDUCTANCE @ 1 kHz	Using Standard Inductor by Direct Method	10 mH	0.037 %
152	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	INDUCTANCE @ 1 kHz	Using Standard Inductor by Direct Method	100 mH	0.036 %

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153	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	INDUCTANCE @ 1kHz	Using Standard Inductor, by Direct Method	100 µH	0.31 %
154	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Bandwidth	Using Multi-function Calibrator By Direct Method	50 kHz to 1100 MHz	4.63 %
155	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude/ Voltage (DC Signal)	Using Multi-function Calibrator by Direct Method	1.25 mV to 100 V (1 Mohm)	0.5 % to 0.06 %
156	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude/ Voltage (Square Wave Signal)	Using Multi-function Calibrator by Direct Method	1 mV to 100 V	0.29 % to 0.10 %
157	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude/ Voltage(Square Wave Signal) (50 ohm)	Using Multi-function Calibrator by Direct Method	1 mV to 6.6 V	0.29 %
158	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope: Time Base	Using Multi-function Calibrator, By Direct Method	2 ns to 5 s	0.025 % to 0.50 %

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159	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B-Type Thermocouple	Using Multi-function calibrator By Direct method	600 °C to 1800 °C	1.8 °C
160	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E-Type Thermocouple	Using Multi-function calibrator By Direct method	(-) 250 °C to 1000 °C	1.3 °C
161	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J-Type thernocouple	Using Multi-function calibrator By Direct method	(-) 210 °C to 1200 °C	0.6 °C
162	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-Type Thermocouple	Using Multi-function Calibrator By Direct Method	(-) 200 °C to 1370 °C	1.3 °C
163	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-Type Thermocouple	Using Multi-function calibrator By Direct method	(-) 200 °C to 1300 °C	1.8 °C
164	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type Thermocouple	Using Multi-function calibrator By Direct method	100 °C to 1760 °C	1.3 °C

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165	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 385 / PT 100)	Using 8½ DMM, By Direct Method	(-) 200 °C to 800 °C	0.4 °C
166	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S-Type Thermocouple	Using Multi - function Calibrator By Direct Method	100 °C to 1750 °C	1.3 °C
167	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T-Type Thermocouple	Using Multi-function Calibrator, By Direct Method	(-) 200 °C to 400 °C	1.9 °C
168	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B-Type Thermocouple	Using Multi-function Calibrator by Direct Method	600 °C to 1800 °C	0.8 °C
169	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E-Type Thermocouple	Using Multi-function Calibrator, By Direct Method	(-) 250 °C to 1000 °C	0.6 °C
170	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type Thermocouple	Using Multi-function Calibrator By Direct Method	(-) 200 °C to 1200 °C	0.4 °C

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171	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type Thermocouple	Using Multi-function Calibrator, By Direct Method	(-) 200 °C to 1350 °C	0.5 °C
172	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type Thermocouple	Using Multi-function Calibrator, By Direct Method	(-) 200 °C to 1300 °C	0.6 °C
173	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type Thermocouple	Using Multi-function Calibrator by Direct Method	100 °C to 1767 °C	0.8 °C
174	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 385 / PT 100)	Using Multi-function Calibrator By Direct Method	(-) 200 °C to 800 °C	0.2 °C
175	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S-Type Thermocouple	Using Multi-function Calibrator, By Direct Method	100 °C to 1760 °C	0.7 °C
176	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Multi-function Calibrator by Direct Method	1 Hz to 2 MHz	0.0013 %

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177	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Rubidium Frequency Standard By Direct Method	1 MHz	0.000001 %
178	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using High Precision Source & 1&3 Phase Reference Standard COM by Comparison Method	40 Hz to 70 Hz	0.006 Hz
179	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using High Resolution counter By comparison Method	5 s to 24 hr	0.02 s to 0.25 s
180	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Function Generator by Direct Method	1 Hz to 15 MHz	0.0013 % to 0.0023 %
181	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE (HYDRAULIC) Pressure Gauge, Pressure Transmitter with display, Pressure Recorder, Pressure Calibrator	Using Digital Pressure Calibrator by Comparison method as per DKD-R 6-1:2016	34.47 bar (g) to 344.7 bar (g)	0.35 bar

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182	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance Calibration of Class-I weighing balances and coarser (Readability: 0.1 mg)	Using Standard weights of E2 Class as per OIML R-76	>50 g to 200 g	0.3 mg
183	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance, Class III weighing balances and coarser (readability: 100 g)	Using Standard weights of M1 Class as per OIML R-76	>500 kg to 1000 kg	300 g
184	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance, Class-II weighing balances and coarser, readability: 10 mg	Using Standard weights of E2 Class as per OIML R-76	>200 g to 2 kg	30 mg
185	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance- Class IIII weighing balances (readability: 10 g)	Using Standard weights of M1 Class as per OIML R-76	>50 kg to 200 kg	30 g
186	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance- Class IIII weighing balances, readability: 250 g	Using Standard weights of M1 Class as per OIML R-76	>2000 kg to 2500 kg	750 g
187	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance- Class-I weighing balances and coarser, readability: 0.01 mg	Using Standard weights of E2 Class as per OIML R-76	1 mg to 50 g	0.06 mg

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188	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance-Class IIII weighing balances, readability: 50 g	Using Standard weights of M1 Class as per OIML R-76	>200 kg to 500 kg	150 g
189	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance-Class IIII weighing balances,readability: 200 g	Using Standard weights of M1 Class as per OIML R-76	>1000 kg to 2000 kg	600 g
190	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance-Class-III weighing balances and coarser readability: 1 g	Using Standard weights of E2 Class as per OIML R-76	>20 kg to 50 kg	3 g
191	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balance-Class-III weighing balances and coarser, readability: 100 mg	Using Standard weights of E2 Class as per OIML R-76	>2 kg to 20 kg	300 mg
192	THERMAL-SPECIFIC HEAT & HUMIDITY	Environment Chamber/Humidity Chamber/Humidity Generator (multi position)	Using Humidity Sensors/Temperature sensor with Multi Channel data logger (Minimum 9 Sensor) by comparison method	15 %rh to 95 %rh @ 25 °C	2 %rh

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193	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity indicator with sensor of chamber Single point calibration Method	Using Temperature/Humidity Indicator with sensor by comparison method	15 %rh to 95 %rh @ 25 °C	1.69 %rh
194	THERMAL-SPECIFIC HEAT & HUMIDITY	Hygrometer, Humidity indicator with inbuilt or external sensor	Using Humidity Indicator with Sensor & Humidity Generator/chamber by Comparison Method	10 %rh to 95 %rh @ 25 °C	0.6 %rh
195	THERMAL-SPECIFIC HEAT & HUMIDITY	Hygrometer/Humidity Meter/Digital Thermo-hygrometer/Data Logger	Using Precision standard hygrometer/Temperature Sensor with indicator, Temperature/Humidity Generator by comparison method	10 °C to 50 °C @ 50 %rh	0.5 °C
196	THERMAL-SPECIFIC HEAT & HUMIDITY	Hygrothermometer, Humidity indicator with inbuilt or external sensor	Using Temperature & Humidity sensors with indicator, Humidity Chamber by Comparison Method	15 %rh to 95 %rh @ 20 °C to 40 °C	0.90 %rh
197	THERMAL-TEMPERATURE	IR Thermometer / IR Gun/ Radiation Pyrometer / Thermal Imager	Using IR-Calibrator/ Standard Pyrometer (Emissivity:0.95) By Comparison Method	120 °C to 500 °C	1.71 °C

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198	THERMAL-TEMPERATURE	IR Thermometer / IR Gun/ Radiation Pyrometer / Thermal Imager (temperature only)	Using IR-Calibrator/ Standard Pyrometer (Emissivity:0.95) by Comparison Method	(-) 15 °C to 120 °C	1.41 °C
199	THERMAL-TEMPERATURE	Oven, Bath, Freezer, Test Chamber, Furnace (Multiposition)	Using 9 PRT Sensors (Minimum 9) & Temperature Scanner by comparison method	(-) 65 °C to 150 °C	1.58 °C
200	THERMAL-TEMPERATURE	RTD Sensor / Thermocouple with or without temperature indicator, temperature gauge, temperature transmitter	Using PRT Sensor with Temperature scanner & Metrology well, DMM by comparison method	(-) 45 °C to 140 °C	0.12 °C
201	THERMAL-TEMPERATURE	RTD Sensor /Thermocouple with or without temperature indicator	Using SPRT with Temperature Readout & Ultra cool Bath, DMM by comparison method	(-) 95 °C to 140 °C	0.06 °C
202	THERMAL-TEMPERATURE	RTD sensor /Thermocouple with or without temperature indicator (Boiling Point of LN2)	Using Liquid Nitrogen Comparator, PRT with Temperature Scanner at Boiling Point of Liquid Nitrogen by Comparison Method	(-) 196 °C	0.03 °C

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203	THERMAL-TEMPERATURE	RTD sensor /Thermocouple with or without temperature indicator, temperature gauge, temperature transmitter	Using PRT Sensor with Temperature scanner and Metrology well, DMM by comparison method	140 °C to 660 °C	0.47 °C
204	THERMAL-TEMPERATURE	Temperature indicator with sensor of Bath/ Dry block calibrator/ Furnace (Single position)	Using PRT Sensor & Temperature Scanner by comparison method	(-) 65 °C to 660 °C	0.09 °C
205	THERMAL-TEMPERATURE	Temperature indicator with sensor of Bath/ Dry block calibrator/ Furnace (Single position)	Using PRT Sensor & Temperature Scanner by comparison method	(-) 95 °C to 140 °C	0.06 °C
206	THERMAL-TEMPERATURE	Temperature indicator with sensor of Bath/ Dry block/ Furnace (Single position)	Using PRT Sensor with Temperature scanner by comparison method	(-) 45 °C to 660 °C	0.47 °C
207	THERMAL-TEMPERATURE	Temperature indicator with sensor of Bath/ Dry block/ Furnace (Single position)	Using Standard R type Thermocouple with Temperature scanner by comparison method	660 °C to 1200 °C	1.76 °C

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208	THERMAL-TEMPERATURE	Thermcouple sensor with or without temperature indicator, temperature gauge, temperature transmitter	Using Standard 'R' Type Thermocouple with Temperature scanner & Dry Block Furnace, DMM by comparison method	660 °C to 1200 °C	1.88 °C

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Permanent Site Facility					
1	FLUID FLOW-FLOW MEASURING DEVICES	Liquid Volume (Water)	Using 3 Ton Weighing System & Digital Timer Comparison as per ISO 4185:1980	0.2 m^3 to 2.0 m^3	0.6 % rdg
2	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Water)	Using 3 Ton Weighing System & Digital Timer Comparison as per ISO 4185:1980	1.0 m^3/hr to 200.0 m^3/hr	0.6 % rdg
3	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Water)	Using Electro-magnetic Flow Meter, Direct Comparison Method	3.0 m^3/hr to 200.0 m^3/hr	0.9 % rdg

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