



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 10/11/2022 to 09/11/2024 **Last Amended on** 26/04/2023

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using Three Phase Test System by Direct method	0.01 A to 1 A	0.12 % to 0.13 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using Three Phase Test System by Direct Method	1 A to 10 A	0.13 % to 0.12 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using Three Phase Test System by Direct method	10 A to 120 A	0.12 % to 0.24 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power (Single Phase/three Phase)50Hz @ 0.5Lag 230V,1A to 100A	Using Three Phase Test System by Direct Method	115 W to 11500 W	0.33%



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power (Single Phase/three Phase)50Hz @ 0.8Lead 230V,10A to 100A	Using Three Phase Test System by Direct Method	1840 W to 18400 W	0.33%
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power (Single Phase/three Phase)50Hz @ Unity 230V,0.1A to 100A	Using Three Phase Test System by Direct Method	23 W to 23000 W	0.33 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Volage @50Hz	Using HV Probe with 4.1/2 Digital Multimeter by Direct Method	0.75 kV to 6 kV	1.19 % to 1.97 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Volage @50Hz	Using Three Phase Test System by Direct Method	100 mV to 300 V	0.12%
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Volage @50Hz	Using 6.1/2 Digital Multimeter by Direct Method	100 V to 750 V	0.13%



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Volage @50Hz	Using HV Probe with Digital Multimeter by Direct Method	6 kV to 20 kV	6.32%
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using Three Phase Test System by Direct Method	300 V to 600 V	0.12%
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using HV Probe with 4.1/2 Digital Multimeter by Direct Method	6 kV to 20 kV	6.32%
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active /Reactive Energy (Single Phase/three Phase)50Hz @ 0.5Lag 110V,1A to 100A	Using Three Phase Test System by Direct Method	55 Wh to 5.5 kWh	0.33%
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active /Reactive Energy (Single Phase/three Phase)50Hz @ 0.5Lag 230V,1A to 100A	Using Three Phase Test System by Direct Method	115 Wh to 11.5 kWh	0.33%



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active /Reactive Energy (Single Phase/three Phase)50Hz @ 0.8Lead 110V,10A to 100A	Using Three Phase Test System by Direct method	880 Wh to 8.8 kWh	0.33 % to 0.35 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active /Reactive Energy (Single Phase/three Phase)50Hz @ 0.8Lead 230V,10A to 100A	UsingThree Phase Test System by Direct Method	1.84 kWh to 18.4 kWh	0.33%
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active /Reactive Energy (Single Phase/three Phase)50Hz @ unity 110V,0.1A to 100A	Using Three Phase Test System by Direct Method	11 Wh to 11 kWh	0.33%
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active /Reactive Energy (Single Phase/three Phase)50Hz @ Unity 230V,0.1A to 100A	Using Three Phase Test System by Direct Method	23 Wh to 23 kWh	0.33 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ 50Hz 0.2 -1 Lag /Lead single phase/ three phase	Using Three Phase Test System by Direct Method	0.2 PF to 1 PF	0.002PF



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20	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz	Using Three Phase Test System by Direct Method	0.01 A to 1 A	0.12 % to 0.14 %
21	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz	Using Three Phase Test System by Direct Method	1 A to 10 A	0.13 % to 0.18 %
22	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using Three Phase Test System by Direct method	10 A to 120 A	0.12 % to 0.15 %
23	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC current 1kHz to 5kHz	Using Multi product Calibrator by Direct method	10 mA to 1 A	0.3 % to 0.9 %
24	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC current 45Hz to 1kHz	Using Multi Product Calibrator by Direct Method	1 A to 10 A	0.15 % to 0.40 %
25	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC current 45Hz to 1kHz	Using Multi Product Calibrator by Direct Method	10 mA to 100 mA	0.14 % to 0.14 %



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26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current 45Hz to 1kHz	Using Multi Product Calibrator by Direct Method	100 mA to 1 A	0.5 % to 0.3 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current 45Hz to 1kHz	Using Multi Product Calibrator by Direct Method	30 µA to 10 mA	1.09 % to 0.14 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current 50Hz	Using Multi Product Calibrator with current coil by Direct Method	100 A to 550 A	0.92 % to 0.34 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current 50Hz	Using Multi Product Calibrator with current Coil by Direct Method	5 A to 100 A	2.85 % to 0.92 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power (Single Phase/three Phase)50Hz @ 0.5Lag 230V,1A to 100A	Using Three Phase Test System by Direct Method	115 W to 11500 W	0.20 % to 0.21 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power (Single Phase/three Phase)50Hz @ 0.8Lead 230V,10A to 100A	Using Three Phase Test System by Direct Method	1840 W to 18400 W	0.20%



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32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power (Single Phase/three Phase)50Hz @ Unity 230V,0.1A to 100A	Using Three Phase Test System by Direct Method	23 W to 23000 W	0.20 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power 1 phase ,50Hz @ 0.5Lag 120V to 240V ,0.1A to 10A	Using Multi product Calibrator by Direct Method	6 W to 1.2 kW	0.54 % to 0.17 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power 1 phase ,50Hz @ 0.8Lead 120V to 240V ,0.1A to 10A	Using Multi product Calibrator by Direct Method	9.6 W to 1.92 kW	0.4 % to 0.25 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power 1 phase ,50Hz @0.2Lag 120V to 240V ,0.1A to 10A	Using Multi product Calibrator by Direct method	2.4 W to 480 W	1.14 % to 0.07 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power 1 phase,50Hz @UPF 120V to 240V ,0.01A to 10A	Using Multi Product Calibrator by Direct Method	1.2 W to 2.4 kW	0.18 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Volage @20kHz	Using Multi Product Calibrator by Direct method	10 mV to 10 V	0.46 % to 0.12 %



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38	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Volage @50Hz	Using Three Phase Test System by Direct Method	20 V to 300 V	0.2 % to 0.13 %
39	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Volage @50Hz	Using Three Phase Test System by Direct Method	300 V to 600 V	0.13 % to 0.02 %
40	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage 1 kHz to 18kHz	Using Multi Product Calibrator by Direct Method	10 V to 100 V	0.24 % to 0.14 %
41	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage 10Hz to 1kHz	Using Multi Product Calibrator by Direct Method	1 mV to 10 mV	2.75 % to 0.65 %
42	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage 10Hz to 1kHz	Using Multi Product Calibrator by Direct Method	1 V to 10 V	0.23 % to 0.24 %
43	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage 10Hz to 1kHz	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.65 % to 0.35 %



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44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage 10Hz to 1kHz	Using Multi Product Calibrator,Direct Method	100 mV to 1 V	0.35 % to 0.23 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage 1kHz to 100kHz	Using Multi Product Calibrator,Direct Method	10 mV to 100 mV	0.8 % to 0.5 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage 1kHz to 100kHz	Using Multi Product Calibrator,Direct Method	100 mV to 1 V	0.35 % to 0.5 %
47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage 1kHz to 10kHz	Using Multi Product Calibrator,Direct Method	100 V to 1000 V	0.11 % to 0.3 %
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage 1kHz to 90kHz	Using Multi Product Calibrator,Direct Method	1 V to 10 V	2.24 % to 0.47 %
49	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage 45Hz to 1kHz	Using Multi Product Calibrator,Direct Method	10 V to 100 V	0.2 % to 0.07 %



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50	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage 45Hz to 1kHz	Using Multi Product Calibrator,Direct Method	100 V to 1000 V	0.07%
51	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active /Reactive Energy (Single Phase/three Phase)50Hz @ 0.5Lag 230V,1A to 100A	Using Three Phase Test System by Direct Method	115 Wh to 11.5 kWh	0.21%
52	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active /Reactive Energy (Single Phase/three Phase)50Hz @ 0.8 lead 110V,10A to 100A	Using Three Phase Test System by Direct Method	880 Wh to 8.8 kWh	0.17 % to 0.20 %
53	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active /Reactive Energy (Single Phase/three Phase)50Hz @ 0.8Lead 230V,10A to 100A	Using Three Phase Test System by Direct Method	1.84 kWh to 18.4 kWh	0.21 %
54	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active /Reactive Energy (Single Phase/three Phase)50Hz @ unity 110V,0.1A to 100A	Using Three Phase Test System by Direct Method	11 Wh to 11 kWh	0.16%



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55	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator and Capacitance Box, Direct Method	1.09 μ F to 1.1 mF	0.4 % to 1.3 %
56	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @100Hz	Using Multi Product Calibrator and Capacitance Box by Direct Method	1.09 μ F to 1.1 mF	0.4 % to 1.3 %
57	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	Using Multi Product Calibrator by Direct Method	0.35 nF to 10 nF	4.25 % to 0.7 %
58	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	Using Multi Product Calibrator by Direct Method	10 nF to 10 μ F	0.7 % to 0.8 %
59	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	Using Multi Product Calibrator by Direct Method	10 nF to 10 μ F	0.7 % to 0.8 %
60	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @1kHz	Using Decade Inductance Box by Direct Method	1 mH to 9 H	2.31 % to 2.6 %



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61	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @ 50Hz 0.2 -1 Lag	Using Multi Product Calibrator by Direct Method	0.2 PF to 1 PF	0.003PF
62	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @ 50Hz 0.2 -1 Lag /Lead single phase/ three phase	Using Three Phase Test System by Direct Method	0.2 PF to 1 PF	0.01PF
63	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @ 50Hz 0.2 -1 Lead	Using Multi Product Calibrator by Direct Method	0.2 PF to 1 PF	0.003 PF to 0.001 PF
64	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source, Measurere)	Active /Reactive Energy (Single Phase/three Phase)50Hz @ 0.5lag 110V,1A to 100A	Using Three Phase Test System by Direct Method	55 wh to 5.5 kWh	0.17%
65	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source, Measurere)	Active /Reactive Energy (Single Phase/three Phase)50Hz @ Unity 230V,0.1A to 100A	Using Three Phase Test System by Direct Method	23 Wh to 23 kWh	0.20 %



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66	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using HV Probe with 4.1/2 Digital Multimeter by Direct Method	1 kV to 12 kV	2.81%
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using HV Probe with Digital Multimeter by Direct Method	1 kV to 12 kV	2.81%
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6.1/2 Digital Multimeter by Direct Method	100 V to 1000 V	0.01 % to 0.012 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	10 µA to 100 mA	0.6 % to 0.02 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	1 A to 10 A	0.05 % to 0.07 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with current coil by Direct Method	10 A to 550 A	0.89 % to 2.82 %



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72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	100 mA to 1 A	0.02 % to 0.05 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box and Multi product Calibrator by Direct Method	1 Ohm to 100 Ohm	0.5 % to 0.03 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Meg ohm Box,Tera ohm Box and Multi product Calibrator,Direct Method	10 Mohm to 100 Mohm	0.08 % to 0.6 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Meg ohm Box,Tera ohm Box,Direct Method	100 Mohm to 1 Gohm	0.6 % to 1.15 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box and Multi product Calibrator,Direct Method	100 Ohm to 10 kohm	0.03 % to 0.02 %



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77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Meg ohm Box,Tera ohm Box by Direct Method	1 Gohm to 100 Gohm	1.15 % to 2.4 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Meg ohm Box,Tera ohm Box and Multi product Calibrator,Direct Method	1 Mohm to 10 Mohm	0.025 % to 0.08 %
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box and Multi product Calibrator by Direct Method	10 mohm to 1 Ohm	1.97 % to 0.51 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 mV to 10 mV	0.37 % to 0.04 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.04 % to 0.01 %



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82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi product Calibrator by Direct Method	100 μ V to 1 mV	3.47 % to 0.37 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 V to 1000 V	0.01 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 V to 100 V	0.01 % to 0.01 %
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source, Measure)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.01 % to 0.01 %
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E - Type Thermocouple	Using Digital Temperature Read out by Direct Method	-190 $^{\circ}$ C to 1000 $^{\circ}$ C	0.17 $^{\circ}$ C



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87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J - Type Thermocouple	Using Digital Temperature Readout by Direct Method	-190 °C to 1000 °C	0.2°C
88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K - Type Thermocouple	Using Digital Temperature Readout by Direct Method	-190 °C to 1300 °C	0.27°C
89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N - Type Thermocouple	Using Digital Temperature Read out by Direct Method	-190 °C to 1200 °C	0.23°C
90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R - Type Thermocouple	Using Digital Temperature Read out by Direct Method	50 °C to 1700 °C	0.84°C
91	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S - Type Thermocouple	Using Digital Temperature Read out by Direct Method	50 °C to 1700 °C	0.91°C
92	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T - Type Thermocouple	Using Digital Temperature Read out by Direct Method	-190 °C to 390 °C	0.19°C



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93	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Thermocouple	Using Multi Product Calibrator by Direct Method	-30 °C to 1000 °C	0.20°C
94	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J - Type Thermocouple	Using Multi Product Calibrator by Direct Method	-30 °C to 1200 °C	0.3°C
95	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouple	Using Multi Product Calibrator by Direct Method	-30 °C to 1372 °C	0.47°C
96	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using Multi product Calibrator by Direct Method	-30 °C to 1300 °C	0.32°C
97	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R - Type Thermocouple	Using Multi Product Calibrator by Direct Method	50 °C to 1767 °C	0.7°C
98	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using Multi product Calibrator, Direct Method	-199 °C to 800 °C	0.3°C



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99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Thermocouple	Using Multi Product Calibrator by Direct Method	50 °C to 1767 °C	0.6°C
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T - Type Thermocouple	Using Multi Product Calibrator by Direct Method	-30 °C to 400 °C	0.3°C
101	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Three Phase Test System by Direct Method	40 Hz to 70 Hz	0.6%
102	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Universal Time and Frequency counter by comparison Method	1 s to 10 s	0.16s
103	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	10 Hz to 100 Hz	0.6 % to 0.06 %
104	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	100 Hz to 100 kHz	0.06 % to 0.06 %



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105	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	100 kHz to 500 kHz	0.06 % to 0.01 %
106	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	500 kHz to 1 MHz	0.01 % to 0.1 %
107	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source, Measure)	Frequency	Using Three Phase Test System by Direct method	45 Hz to 65 Hz	0.6%
108	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source, Measure)	Time	Using Universal Time and Frequency counter by Comparison Method	10 s to 90 min	0.6s
109	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	100 rpm to 3000 rpm	0.46% rdg



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110	MECHANICAL-ACCELERATION AND SPEED	Tachometer/RPM Indicator with Sensor (Non Contact Type)	Using Digital Non Contact type Tachometer and RPM Source by Comparison Method	60 rpm to 20000 rpm	0.8% rdg
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor / Combination sets Least Count 5 min.	Using Profile Projector by comparison Method	0 to 360 Deg	5.7 min of arc
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Dial Gauge (Transmission accuracy) L.C-0.001 mm	Using Universal Length Measuring Machine by Comparison method	0 to 1.5 mm	1.53µm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C. 0.01 mm)	Using Slip Gauge Blocks by comparison Method	0 to 300 mm	6.5 µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C 0.01 mm)	Using Slip Gauges by Comparison Method	0 to 10 mm	6.7µm



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115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C - 0.001mm)	Using Slip Gauges as per IS 2967 by comparison Method	0 to 300 mm	2.20µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C - 0.01mm)	Using Long Gauges as per IS 2967 by comparison Method	300 mm to 500 mm	6.55µm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Universal Length Measuring Machine by Comparison Method	0.05 mm to 1 mm	1.1µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Foils	Using ULM by Comparison Method	0.01 mm to 2 mm	1.05µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Groove Dial Gauge L.C 0.01 mm	Using ULM and Slip Gauges by Comparison Method	0 to 100 mm	6.22µm



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120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Stick Micrometer	Using ULM by comparison Method	50 mm to 500 mm	6.5µm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C 0.001 mm)	Using Universal Length Measuring Machine by comparison Method	0 to 0.14 mm	1.5µm
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Universal Length Measuring Machine/Long gauge blocks/Dial gauge by Comparison Method	25 mm to 600 mm	4.7µm
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C 0.1 mm)	Using Slip Gauges by Comparison Method	0 to 100 mm	66µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Universal Length Measuring Machine by comparison Method	3 mm to 200 mm	1.62µm



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125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (L.C. 0.001 mm)	Using Universal Length Measuring Machine by comparison Method	0 to 25 mm	1.7µm
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge (Concave & Convex profile)	Using Profile Projector by comparison Method	Up to 25 mm	4.8µm
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Ring / Plain Ring Gauge	Using ULM by comparison Method	3 mm to 200 mm	2.83µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge (Gap size)	Using Slip Gauges by comparison Method	3 mm to 200 mm	2.9µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture size)	Using Profile Projector by comparison Method	0.01 mm to 2 mm	2.9µm



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130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire	Using Universal Length Measuring Machine by comparison Method	0.17 mm to 6.35 mm	1.1µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Pitch)	Using Profile Projector by Comparison Method	0.25 mm to 10 mm	2.9µm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major & Effective Diameter)	Using ULM by comparison Method	4 to 150 mm	1.6µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Diameter)	Using ULM by comparison Method	5 mm to 150 mm	2.95µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (L.C.0.01 mm)	Using Caliper Checker by comparison Method	0 to 600 mm	10.2µm



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135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper(L.C-0.02)	Using Long gauge Blocks by comparison Method	0 to 2000 mm	20.5µm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Depth Gauge (L.C 0.01 mm)	Using Slip Gauges as Per (IS 16491 Part 2) by comparison Method	0 to 300 mm	7.6µm
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Height Gauge (L.C. 0.01 mm)	Using Caliper Checker by comparison Method	0 to 600 mm	10.2µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Height Gauge (L.C. 0.02 mm)	Using Long Gauge Blocks by comparison Method	0 to 1000 mm	14.0µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge / Bridge Cam Gauge	Using Profile Projector by Comparison Method	Up to 30 mm	6.0µm



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140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using Profile Projector by Comparison Method	Up to 10 mm	6.51µm
141	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Coating Thickness Gauge (L.C. 0.001 mm)	Using Thickness Foils by Comparison Method	0 to 1500 µm	1.9µm
142	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Digital Comparator Probe (L.C.0.0001 mm)	Using ULM by Comparison Method	0 to 25 mm	1.2µm
143	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Long Gauge Blocks	Using ULM/Long Gauge Blocks by comparison Method	125 to 400 mm	2.60µm
144	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angular L.C. 0.01 second	Using Angle Gauges JIS B 7184 by Comparison Method	0 ° to 360 °	3min. of Arc
145	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Linear (L.C-0.001 mm)	Using Gauge Blocks JIS B 7184 by Comparison Method	0 mm to 200 mm	2.0µm
146	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification (L.C-0.001 mm)	Using Gauge Blocks JIS B 7184 by Comparison Method	10X to 100X	0.8%



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147	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge Blocks	Using Gauge Block Calibrator and Reference Slip Gauge Blocks (K'Grade) by Comparison Method	0.5 to 25 mm	0.17µm
148	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge Blocks	Using Gauge Block Calibrator and Reference Slip Gauge Blocks (K'Grade) by Comparison Method	25 to 50 mm	0.2µm
149	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge Blocks	Using Gauge Block Calibrator and Reference Gauge Blocks K'Grade by Comparison Method	50 to 100 mm	0.25µm
150	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine (L.C. 0.1 µm)	Using Slip Gauges and Long Gauge Blocks by Comparison Method	0 to 200 mm	1.54µm
151	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Industrial Pressure Gauge, Pressure Transmitter, Pressure transducer with digital pressure indicator & Pressure Switches	Using Digital Pressure Calibrator With Hydraulic Hand Pump as Per DKD R-6-1	0 bar to 70 bar	1.75% rdg



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152	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Industrial Pressure Gauge, Pressure Transmitter, Pressure transducer with digital pressure indicator & Pressure Switches	Using Digital Pressure Calibrator, Hydraulic Comparator and 6.5 digit Multimeter as Per DKD R-6-1	0 bar to 700 bar	0.72% rdg
153	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge	Using Digital Pressure Calibrator with Hand Pump as Per DKD R-6-1	0 bar to 20 bar	1.4% rdg
154	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge & Vacuum Transmitter	Using Digital Vacuum Gauge Calibrator with Hand Pump as Per ISO 3567	-0.8 to 0 bar	6.2% rdg
155	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (d = 0.2 g) class III and coarser	Using F1 Class Standard Weights, calibration of Electronic Weighing Balance of class II and coarser, based on OIML R 76-1	0 to 5 kg	0.25 g



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156	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (d = 1 g to 2 g) class III and coarser	Using F1 Class Standard Weights, calibration of Electronic Weighing Balance of class III, based on OIML R 76-1	0 to 30 kg	2g
157	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (d = 200g)	Using Standard Weights as per EURAMET cg -18 , OIML-R-76-1. Calibration of Balance of class IV,	0 to 50 kg	0.14kg
158	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (d=1 kg)	Using Standard Weights as per EURAMET cg -18, OIML-R-76-1. Calibration of Balance of class IV,	0 to 300 kg	1.2kg
159	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (d=100g)	Using Standard Weights as per EURAMET cg -18 , OIML-R-76-1. Calibration of Balance of class IV,	0 to 20 kg	0.12kg
160	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (d=20g)	Using Standard Weights as per EURAMET cg -18 , OIML-R-76-1. Calibration of Balance of class IV,	0 to 5 kg	25 g



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161	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (d=500g)	Using Standard Weights as per EURAMET cg -18 , OIML-R-76-1. Calibration of Balance of class IV,	0 to 100 kg	550 g
162	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (d=50g)	Using Standard Weights as per EURAMET cg -18, OIML-R-76-1. Calibration of Balance of class IV,	0 to 10 kg	0.06kg



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz	Using Three Phase Test System by Direct method	1 A to 10 A	0.13 % to 0.12 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz	Using Three Phase Test System by Direct method	10 A to 100 A	0.12 % to 0.24 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power (Single Phase/three Phase)50Hz @ 0.5Lag 230V,1A to 100A	Using Three Phase Test System by Direct Method	115 W to 11500 W	0.33%
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power (Single Phase/three Phase)50Hz @ 0.8Lead 230V,10A to 100A	Using Three Phase Test System by Direct Method	1840 W to 18400 W	0.33%



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power (Single Phase/three Phase)50Hz @ Unity, 230V,0.1A to 100A	Using Three Phase Test System by Direct Method	23 W to 23000 W	0.33%
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Volage @50Hz	Using HV Probe with 4.1/2 Digital Multimeter by Direct Method	0.5 kV to 6 kV	1.19 % to 1.97 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Volage @50Hz	Using Three Phaese Test System by Direct method	100 mV to 300 V	0.13%
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Volage @50Hz	Using Three Phase Test System by Direct method	300 V to 600 V	0.12%
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50Hz	Using HV Probe with Digital Multimeter by Direct Method	6 kV to 20 kV	6.32 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50Hz	Using HV Probe with 4.1/2 Digital Multimeter by Direct Method	6 kV to 20 kV	6.32%
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active /Reactive Energy (Single Phase/three Phase)50Hz @ 0.5Lag 110V,1A to 100A	Using Three Phase Test System by Direct Method	55 Wh to 5.5 kW	0.33%
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active /Reactive Energy (Single Phase/three Phase)50Hz @ 0.5Lag 230V,1A to 100A	Using Three Phase Test System by Direct Method	115 Wh to 11.5 kWh	0.33 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active /Reactive Energy (Single Phase/three Phase)50Hz @ 0.8Lead 110V,10A to 100A	Using Three Phase Test System by Direct Method	880 Wh to 8.8 kWh	0.33 % to 0.35 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active /Reactive Energy (Single Phase/three Phase)50Hz @ 0.8Lead 230V,10A to 100A	Using Three Phase Test System by Direct method	1.84 kWh to 18.4 kWh	0.33%



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15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Active /Reactive Energy (Single Phase/three Phase)50Hz @ unity 110V,0.1A to 100A	Using Three Phase Test System by Direct Method	11 Wh to 11 kWh	0.33%
16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Active /Reactive Energy (Single Phase/three Phase)50Hz @ Unity 230V,0.1A to 100A	Using Three Phase Test System by Direct Method	23 Wh to 23 kWh	0.33%
17	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Power Factor @ 50Hz 0.2 -1 Lag /Lead single phase/ three phase	Using Three Phase Test System by Direct Method	0.2 PF to 1 PF	0.002PF
18	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz	Using Three Phase Test System by Direct Method	1 A to 10 A	0.13 % to 0.18 %
19	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz	Using Three Phase Test System by Direct Method	1 A to 10 A	0.14 % to 0.18 %



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20	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz	Using Three Phase Test System by Direct Method	10 A to 120 A	0.12 % to 0.24 %
21	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using Three Phase Test System by Direct Method	0.01 A to 1 A	0.12 % to 0.13 %
22	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50Hz	Using Three Phase Test System by Direct method	0.01 A to 1 A	0.12 % to 0.14 %
23	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC current @50Hz	Using Three Phase Test System with current coil by Direct Method	100 A to 550 A	2.72 %
24	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC current 1kHz to 5kHz	Using Multi product Calibrator by Direct method	10 mA to 1 A	0.3 % to 0.9 %
25	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC current 45Hz to 1kHz	Using Multi Product Calibrator by Direct Method	1 A to 10 A	0.3 % to 0.41 %



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26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current 45Hz to 1kHz	Using Multi Product Calibrator by Direct Method	10 mA to 100 mA	0.2 % to 0.5 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current 45Hz to 1kHz	Using Multi Product Calibrator by Direct Method	100 mA to 1 A	0.14 % to 0.15 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current 45Hz to 1kHz	Using Multi Product Calibrator by Direct Method	30 μ A to 10 mA	1.13 % to 0.2 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current 50Hz	Using Multi Product Calibrator with current coil by Direct Method	100 A to 550 A	0.92 % to 0.34 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current 50Hz	Using Three Phase Test System with current coil by direct method	5 A to 100 A	2.83 % to 0.92 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current 50Hz	Using Multi Product Calibrator with current coil by Direct Method	5 A to 100 A	2.85 % to 0.92 %



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32	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC current 50Hz	Using Three Phase Test System with current coil by direct method	5 A to 100 A	2.85 % to 0.92 %
33	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power (Single Phase/three Phase)50Hz @ 0.8Lead 230V,10A to 100A	Using Three Phase Test System by Direct Method	1840 W to 18400 W	0.20 %
34	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power (Single Phase/three Phase)50Hz @ Unity 230V,0.1A to 100A	Using Three Phase Test System by Direct Method	23 W to 23000 W	0.20 %
35	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power (Single Phase/threePhase)50Hz @0.5Lag 230V,1A to 100A	Using Three Phase Test System by Direct Method	115 W to 11500 W	0.21%
36	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Volage @50Hz	Using Three Phase Test System by Direct Method	20 V to 300 V	0.20 % to 0.13 %
37	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Volage @50Hz	Using Three Phase Test Syststem by Direct Method	300 V to 600 V	0.13 % to 0.02 %



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38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage 10Hz to 1kHz	Using Multi Product Calibrator by Direct Method	1 mV to 10 mV	2.75 % to 0.65 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage 10Hz to 1kHz	Using Multi Product Calibrator by Direct Method	1 V to 10 V	0.23 % to 0.24 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage 10Hz to 1kHz	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.66 % to 0.35 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage 10Hz to 1kHz	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.35 % to 0.23 %
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage 1kHz to 100kHz	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.8 % to 0.5 %
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage 1kHz to 100kHz	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.35 % to 0.5 %



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44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage 1kHz to 10kHz	Using Multi Product Calibrator by Direct Method	100 V to 1000 V	0.11 % to 0.3 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage 1kHz to 18kHz	Using Multi Product Calibrator by Direct Method	10 V to 100 V	0.24 % to 0.14 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage 1kHz to 90kHz	Using Multi Product Calibrator by Direct Method	1 V to 10 V	2.24 % to 0.47 %
47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage 45Hz to 1kHz	Using Multi Product Calibrator by Direct Method	10 V to 100 V	0.2 % to 0.07 %
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage 45Hz to 1kHz	Using Multi Product Calibrator by Direct Method	100 V to 1000 V	0.07%



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49	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Active /Reactive Energy (Single Phase/three Phase)50Hz @ 0.5lag 110V,1A to 100A	Using Three Phase Test System by Direct Method	55 Wh to 5.5 kWh	0.17%
50	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Active /Reactive Energy (Single Phase/three Phase)50Hz @ 0.5Lag 230V,1A to 100A	Using Three Phase Test System byDirect Method	115 Wh to 11.5 kWh	0.21%
51	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Active /Reactive Energy (Single Phase/three Phase)50Hz @ 0.8Lead 230V,10A to 100A	Using Three Phase Test System by Direct Method	1.84 kWh to 18.4 kWh	0.20%
52	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Active /Reactive Energy (Single Phase/three Phase)50Hz @ unity 110V,0.1A to 100A	Using Three Phase Test System by Direct Method	11 Wh to 11 kWh	0.16%
53	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Active /Reactive Energy (Single Phase/three Phase)50Hz @ unity 110V,10A to 100A	Using Three Phase Test System by Direct method	880 Wh to 8.8 kWh	0.17 % to 0.20 %



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54	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Active /Reactive Energy (Single Phase/three Phase)50Hz @ Unity 230V,0.1A to 100A	Using Three Phase Test System by Direct Method	23 Wh to 23 kWh	0.20%
55	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source, Measure)	Power Factor @ 50Hz 0.2 -1 Lag /Lead single phase/ three phase	Using Three Phase Test System by Direct Method	0.2 PF to 1 PF	0.01PF
56	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using HV Probe with Digital Multimeter by Direct Method	1 kV to 12 kV	2.81%
57	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using HV Probe with 4.1/2 Digital Multimeter, Direct Method	1 kV to 12 kV	2.81%
58	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	1 A to 10 A	0.05 % to 0.07 %



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59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	10 μ A to 100 mA	0.6 % to 0.02 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi product Calibrator with current coil by Direct Method	10 A to 550 A	0.89 % to 2.82 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC current	Using Multi Product Calibrator by Direct Method	100 mA to 1 A	0.02 % to 0.05 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Multi Product Calibrator by Direct Method	1 ohm to 100 ohm	0.55 % to 0.03 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Multi Product Calibrator by Direct Method	10 kohm to 290 Mohm	0.02 % to 0.6 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Multi Product Calibrator by Direct Method	100 mohm to 1 ohm	0.11 % to 0.51 %



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65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Multi Product Calibrator by Direct Method	100 ohm to 10 kohm	0.03 % to 0.02 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 mV to 10 mV	0.04 % to 0.01 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 V to 100 V	0.01 % to 0.01 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 μ V to 1 mV	3.47 % to 0.37 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.01 % to 0.01 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 V to 1000 V	0.01%



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71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Thermocouple	Using Multi Product Calibrator by Direct Method	-30 °C to 1000 °C	0.20°C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouple	Using Multi Product Calibrator by Direct Method	-30 °C to 1300 °C	0.47°C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using Multi Product Calibrator by Direct Method	-30 °C to 1300 °C	0.32°C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R - Type Thermocouple	Using Multi Product Calibrator by Direct Method	50 °C to 1767 °C	0.70°C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using Multi Product Calibrator by Direct Method	-199 °C to 800 °C	0.30°C
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Thermocouple	Using Multi Product Calibrator by Direct Method	50 °C to 1767 °C	0.60°C



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77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T - Type Thermocouple	Using Multi product Calibrator by Direct Method	-30 °C to 400 °C	0.30°C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source, Measure)	J - Type Thermocouple	Using Multi Product Calibrator by Direct Method	-30 °C to 1200 °C	0.30°C
79	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Three Phase Test System by Direct Method	40 Hz to 70 Hz	0.6%
80	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	10 Hz to 100 Hz	0.6 % to 0.06 %
81	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	100 Hz to 100 kHz	0.06 % to 0.06 %



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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)(±)
82	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	100 kHz to 500 kHz	0.06 % to 0.01 %
83	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Three Phase Test System by Direct Method	45 Hz to 65 Hz	0.6 % to %
84	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	500 kHz to 1 MHz	0.01 % to 0.1 %
85	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (L.C-0.001 mm) - Magnification	Using Gauge Blocks JIS B 7184 by Comparison Method	10X to 100X	0.8%
86	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angular Scale Least Count 0.01 second	Using Angle Gauges JIS B 7184 by Comparison Method	0 ° to 360 °	3min. of Arc.
87	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector Linear Scale (L.C-0.001 mm)	Using Gauge Blocks JIS B 7184 by Comparison Method	0 mm to 200 mm	2.0µm



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88	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine (L.C. 0.1 µm)	Using Slip Gauges and Long Gauge Blocks by Comparison Method	0 to 200 mm	1.54µm
89	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Industrial Pressure Gauge, Pressure Transmitter, Pressure transducer with digital pressure indicator & Pressure Switches	Using Digital Pressure Calibrator, Hydraulic Comparator and 6.5 digit Multimeter as Per DKD R-6-1	0 bar to 700 bar	0.72% rdg
90	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Industrial Pressure Gauge, Pressure Transmitter, Pressure transducer with digital pressure indicator & Pressure Switches	Using Digital Pressure Calibrator With hydraulic hand Pump as Per DKD R-6-1	0 bar to 70 bar	1.75% rdg
91	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge	Using Digital Pressure Calibrator with Hand Pump as Per DKD R-6-1	0 bar to 20 bar	1.4% rdg
92	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge & Vacuum Transmitter	Using Digital Vacuum Gauge Calibrator with Hand Pump as Per ISO 3567	-0.8 to 0 bar	6.2% rdg



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93	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class I & coarser) Readability : 0.1 mg	Using E2 Class Standard Weights, calibration of Electronic Weighing Balance of class I, based on OIML R 76-1	0 to 220 g	1.5mg
94	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (d = 0.1 g) class II and coarser	Using F1 Class Standard Weights, calibration of Electronic Weighing Balance of class II and coarser, based on OIML R 76-1	0 to 5 kg	0.25 g
95	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (d = 1 g to 2 g)	Using F1 Class Standard Weights, calibration of Electronic Weighing Balance of class III, based on OIML R 76-1	0 to 30 kg	2 g
96	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (d = 1 g to 2 g) class III and coarser	Using F1 Class Standard Weights, calibration of Electronic Weighing Balance of class III and coarser, based on OIML R 76-1	0 to 60 kg	3g



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97	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (d > 5 g)	Using F1 Class Standard Weights, calibration of Electronic Weighing Balance of class IV, based on OIML R 76-1	0 to 300 kg	31 g
98	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Freezer, Deep freezer, Refrigerator, Chamber, Temperature Indicator with sensor of Industrial Incubator, Temperature indicator with sensor of Autoclave (non medical use only) (Single Position)	Using PRT with Indicator by Comparison Method	-40 °C to 300 °C	0.61°C
99	THERMAL-TEMPERATURE	Temperature indicator with sensor of Furnace, Temperature indicator with sensor of Hot Air oven (Single position)	Using PRT with Indicator by Comparison Method	300 °C to 600 °C	1.48°C



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100	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Industrial Furnace ,Dry Block(Single position)	Using S and R Type thermocouple with Indicator by comparison method	600 °C to 1000 °C	2.08°C
101	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Industrial Furnace,Dry Block (Single position)	Using S and R Type thermocouple with Indicator by comparison method	1000 °C to 1200 °C	2.44°C

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