National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE

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

83 & 84 AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

in the field of

CALIBRATION

Certificate Number: CC-3176

Issue Date: 10/11/2022 **Valid Until:** 09/11/2024

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE

Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer

SCOPE OF ACCREDITATION

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

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @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 µF 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 µF 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 µF	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 µF	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,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	0.17%
65	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source,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	0.20 %

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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 µV 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 ºC to 1000 ºC	0.17ºC

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

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

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99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Thermocouple	Using Multi Product Calibrator by Direct Method	50 ºC to 1767 ºC	0.6ºC
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T - Type Thermocouple	Using Multi Product Calibrator by Direct Method	-30 ºC to 400 ºC	0.3ºC
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 comparision 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 Comparision 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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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 µA 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 Voltge	Using HV Probe with Digital Multimeter by Direct Method	1 kV to 12 kV	2.81%
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltge	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 µA 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 µV 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 ºC to 1000 ºC	0.20ºC
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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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 Electronice 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 Electronice 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 Electronice 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 Electronice Weighing Balance of class III and coarser, based on OIML R 76-1	0 to 60 kg	3g