



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

TRANSCAL

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

#100, 10TH CROSS, BETWEEN SAMPIGE & MARGOSA ROAD, BENGALURU, KARNATAKA, INDIA

in the field of

CALIBRATION

Certificate Number: CC-2231

Issue Date: 03/07/2020

Valid Until: 13/06/2021*

*The validity is extended for one year up to 13.06.2022

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 : TRANSCAL

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TRANSCAL, #100, 10TH CROSS, BETWEEN SAMPIGE & MARGOSA ROAD, BENGALURU, KARNATAKA, INDIA

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Last Amended on

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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, 1 kHz to 10 KHz	Using 8.5 digit DMM fluke 8508A	1 A to 10 A	0.09 % to 0.3 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current, 1 kHz to 10 KHz	Using 8.5 digit DMM fluke 8508A by direct method	1 A to 10 A	0.09 % to 0.3 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current, 1 kHz to 10 KHz	Using 8.5 digit DMM fluke 8508 A	10 mA to 1 A	0.05 % to 0.09 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current, 1 kHz to 10 KHz	Using 8.5 digit DMM fluke 8508 A by direct method	10 mA to 1 A	0.05 % to 0.09 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current, 50 Hz	Using Shunt with DMM .by direct method	30 A to 1000 A	0.5 % to 1.35 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current, 50 Hz to 1 kHz	Using 8½ DMM 8508 A Fluke, by Direct Method	100 µA to 20 A	0.05 % to 0.1 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current, 50 Hz to 1 kHz	Using 8½ DMM 8508A Fluke, Direct Method	20 µA to 100 µA	0.18 % to 0.05 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current, 50 Hz to 5 kHz	Using Shunt with DMM by V-I Method	1 A to 30 A	0.37 % to 0.5 %



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9	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Power, 1 Phase , 50 Hz @ 0.2 Lag 120V to 240 V, 0.1 A to 20 A	Using Digital Power Meter WT 210 by Direct Method	2.4 W to 960 W	0.5%
10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Power, 1 Phase , 50 Hz @ 0.5 Lag 120V to 240 V, 0.1 A to 20 A	Using Digital Power Meter WT 210 by Direct Method	6 W to 2.4 kW	0.5%
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Power, 1 Phase , 50 Hz @ 0.8 Lead 120V to 240 V, 0.1 A to 20 A	Using Digital Power Meter WT 210 by Direct Method	9.6 W to 3.8 kW	0.23%
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Power, 1 Phase , 50 Hz @ UPF 120V to 240 V, 0.01 A to 20 A	Using Digital Power Meter WT 210 by Direct Method	1.2 W to 4.8 kW	0.25%



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13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage, 1 KHz to 20 kHz	Using 8½ DMM 8508A/HP 3458 A , by Direct Method	100 V to 1000 V	0.016 % to 0.16 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage, 100 KHz to 1 MHz	Using 8½ DMM 8508A , by Direct Method	1 V to 10 V	0.08 % to 3.4 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage, 20 Hz to 100 kHz	Using 8½ DMM 8508A/HP 3458 A , by Direct Method	1 V to 100 V	0.016 % to 0.08 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage, 20 Hz to 100 kHz	Using 8½ DMM 8508A/HP 3458 A , by Direct Method	100 mV to 1 V	0.02 % to 0.08 %



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17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage, 50 Hz to 1 kHz	Using 8½ DMM 8508A/HP 3458A, by Direct Method	1 mV to 10 V	0.47 % to 0.01 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage, 50 Hz to 1 kHz	Using 8½ DMM 8508A/HP 3458 A , by Direct Method	10 V to 1000 V	0.01 % to 0.02 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage,50 Hz	Using HV Divider with DMM's, Sources and HV Probe with DMM by Direct Method/Comparison Method	1 kV to 5 kV	0.2%
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage,50 Hz	Using HV Divider with DMM's , Source & HV Probe with DMM by Direct Method / comparison Method	28 kV to 100 kV	2.3%



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21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage,50 Hz	Using HV Divider with DMM's , Source & HV Probe with DMM by Direct Method / comparison Method	5 kV to 28 kV	1.6 % to 2.8 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 5 kHz to 10 kHz	Using Calibrator Fluke 5700A with 50 Turns current coil	200 μ A to 200 mA	0.26 % to 0.09 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 5 kHz to 10 kHz	Using Calibrator Fluke 5700A with 50 Turns current coil by direct method	200 μ A to 200 mA	0.26 % to 0.09 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 5 kHz to 10 kHz	Using Calibrator Fluke 5520A with 50 Turns current coil	200 mA to 3 A	0.09 % to 3 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 5 kHz to 10 kHz	Using Calibrator Fluke 5520A with 50 Turns current coil by direct method	200 mA to 3 A	0.09 % to 3 %



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26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 10 Hz to 40 Hz	Using Calibrator Fluke 5700A By Direct Method	200 µA to 200 mA	0.12 % to 0.019 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 40 Hz to 1 KHz	Using Calibrator Fluke 5700A, By Direct Method	20 µA to 200 µA	0.11 % to 0.09 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 40 Hz to 5 KHz	Using Calibrator Fluke 5700A, By Direct Method	200 µA to 200 mA	0.09 % to 0.019 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 40 Hz to 5 KHz	Using Calibrator Fluke 5700A, By Direct Method	200 mA to 2 A	0.019 % to 0.13 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 45 Hz to 5 kHz	Using Calibrator Fluke 5520A with 50 Turns current coil	2 A to 20 A	0.07 % to 3.5 %



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31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 45 Hz to 5 kHz	Using Calibrator Fluke 5520A with 50 Turns current coil by direct method	2 A to 20 A	0.07 % to 3.5 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 5 kHz to 10 kHz	Using Calibrator Fluke 5520A with 50 Turns current coil	200 mA to 330 mA	0.093 % to 0.45 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 5 kHz to 10 kHz	Using Calibrator Fluke 5520A with 50 Turns current coil by direct method	200 mA to 330 mA	0.093 % to 0.45 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 50 Hz	Using current source current coil	120 A to 3000 A	0.5 % to 0.62 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 50 Hz	Using current source current coil by direct method	120 A to 3000 A	0.5 % to 0.62 %



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36	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current, 50 Hz	Using current source omicron	20 A to 120 A	0.5%
37	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current, 50 Hz	Using current source omicron by direct method	20 A to 120 A	0.5%
38	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current, 50 Hz to 1kHz	Using Calibrator Fluke 5700A with 50 Turns current coil	20 μ A to 200 μ A	0.5 % to 0.23 %
39	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current, 50 Hz to 1kHz	Using Calibrator Fluke 5700A with 50 Turns current coil by direct method	20 μ A to 200 μ A	0.5 % to 0.23 %
40	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Energy Active / Reactive Single & Three Phase, 40 V to 300 V, 0.05A to 20 A, 40 Hz to 70 Hz, 0.25(lead/lag) to UPF	Using Three Phase Energy Source Direct Method	0.5 W to 6 kW	0.25 % to 0.3 %



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41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power, Single Phase, 50Hz @ 0.2 PF, 120V to 1000 V, 0.1 A to 20 A	Using Calibrator Fluke 5520 A Direct Method	2.4 W to 200 kW	1%
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power, Single Phase, 50Hz @ 0.5 PF, 120V to 1000 V, 0.1 A to 20 A	Using Calibrator Fluke 5520A Direct Method	6 W to 500 kW	0.5%
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power, Single Phase, 50Hz @ 0.8 PF, 120V to 1000 V, 0.1 A to 20 A	Using Calibrator Fluke 5520A Direct Method	9.6 W to 800 kW	0.23%
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power, Single Phase, 50Hz @ UPF, 120V to 1000 V, 0.01 A to 20 A	Using Calibrator Fluke 5520A Direct Method	0.01 w to 4.8 kW	0.12%
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power, Single Phase, 50Hz @ UPF, 120 V to 1000 V, 0.01 A to 20 A	Using Calibrator Fluke 5520A Direct Method	4.8 kW to 1 MW	0.8%



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46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage, 10 Hz to 1 kHz	Using Calibrator Fluke 5520A Direct Method	200 V to 1000 V	0.06 % to 0.02 %
47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage, 10 Hz to 50 kHz	Using Calibrator fluke 5700A by Direct Method	2 mV to 20 mV	0.33 % to 0.041 %
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage, 10 Hz to 50 kHz	Using calibrator fluke 5700A by direct method	20 mV to 200 mV	0.09 % to 0.043 %
49	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage, 10 Hz to 50 kHz	Using calibrator fluke 5700 A by Direct Method	200 mV to 100 V	0.07%
50	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage, 300 kHz to 1 MHz	Using Calibrator Fluke 5700A by Direct Method	2 mV to 20 mV	2.11 % to 0.2 %



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51	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage, 300 kHz to 1 MHz	Using Calibrator Fluke 5700 A by Direct Method	20 mV to 200 mV	0.54 % to 0.5 %
52	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage, 300 kHz to 1 MHz	Using Calibrator Fluke 5700A by direct method	200 mV to 20 V	0.5 % to 0.4 %
53	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage, 300 kHz to 500 kHz	Using Calibrator Fluke 5700 A by Direct Method	20 V to 30 V	0.9%
54	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage, 50 Hz to 1 kHz	Using Calibrator Fluke 5700A by V I Method	50 μ V to 2 mV	1 % to 0.33 %
55	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage, 50 kHz to 300 kHz	Using Calibrator Fluke 5700A by Direct Method	2 mV to 20 mV	0.88 % to 0.071 %



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56	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage, 50 kHz to 300 kHz	Using Calibrator Fluke 5700A by Direct Method	20 mV to 200 mV	0.071 % to 0.043 %
57	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage, 50 kHz to 300 kHz	Using Calibrator Fluke 5700A by Direct Method	200 mV to 20 V	0.043 % to 0.4 %
58	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Harmonics @ 50 Hz	FLUKE 5520A Source, Direct Method	1 order to 39 order	0.2%
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt with DMM V-I Method	10 nA to 100 nA	0.46% to 0.08%
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM HP 3458A, by Direct Method	10µA to 100µA	0.0045%



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61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt with DMM V-I Method	100 A to 800 A	0.6% to 1%
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM HP 3458A by Direct Method	100 mA to 1 A	0.006% to 0.016%
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM HP 3458A by Direct Method	100µA to 100 mA	0.0045% to 0.0060%
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt with DMM V-I Method	100nA to 10µA	0.08% to 0.00049%
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt with DMM V-I Method	1A to 75A	0.016% to 0.08%



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66	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt with DMM V-I Method	75 A to 100 A	0.08% to 0.6%
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Power, 1V to 600V, 1 mA to 20 A	Using Digital Power Meter WT 210 by Direct Method	1 kW to 12 kW	0.45 % to 0.65 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Power, 1v to 600V, 1 mA to 20 A	Using Digital Power Meter WT 210 by Direct Method	1 mW to 10 W	0.1% to 0.08%
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Power, 1V to 600V, 1 mA to 20 A	Using Digital Power Meter WT 210 by Direct Method	10 W to 1 kW	0.08% to 0.45%
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM HP 3458A by Direct Method	0.5 mV to 100 mV	0.83% to 0.0011%



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71	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using HV Divider with DMMs by Direct Method	1 kV to 5 kV	0.2%
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM HP 3458A by Direct Method	100 mV to 1 V	0.0011% to 0.00061%
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM HP 3458A by Direct Method	10V to 1000V	0.00050% to 0.00080%
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½DMM HP 3458A by Direct Method	1V to 10V	0.00061% to 0.00050%
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using HV Divider with DMM by Direct Method	40 kV to 100 kV	1.7%



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76	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Source & HV Probe with DMM by Direct/Comparison Method	5 kV to 40 kV	2%
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Divider Method,Using 8½ DMM HP 3458A /8508A,	50 µV to 0.5 mV	0.7 % to 0.83 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Power @ HF 400 kHz	Using Differential probe in combination with Oscilloscope by comparison method	100 mW to 400 W	4%
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5700A	1 mA to 100 mA	0.0070% to 0.0079%
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5700A by direct method	1 mA to 100 mA	0.0070% to 0.0079%



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81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5700A	10 μ A to 100 μ A	0.1% to 0.015%
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5700A by direct method	10 μ A to 100 μ A	0.1% to 0.015%
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5520	10 A to 20 A	0.064 % to 0.012 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5520 by direct method	10 A to 20 A	0.064 % to 0.012 %
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Reference 732B Decade meha Ohm Box by Direct Method	10 nA to 10 μ A	0.15%



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86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5700A	100 μ A to 1 mA	0.015 % to 0.0070 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5700A by direct method	100 μ A to 1 mA	0.015 % to 0.0070 %
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5700A	100 mA to 2 A	0.0079 % to 0.012 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5700A by direct method	100 mA to 2 A	0.0079 % to 0.012 %
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Current Source with current coil	120A to 3000A	0.65% to 1.2%



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91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Current Source with current coil by direct method	120A to 3000A	0.65% to 1.2%
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5520	2 A to 10 A	0.012 % to 0.064 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5520 by direct method	2 A to 10 A	0.012 % to 0.064 %
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Current Source	20A to 120A	0.6% to
95	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Current Source by direct method	20A to 120A	0.6% to



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96	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power, 1V to 1000 V, 1 mA to 1000 A	Using Calibrator Fluke 5520A with 50 Turns Current Coil Direct Method	1 kW to 1 MW	0.45 % to 0.65 %
97	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power, 1V to 1000 V, 1mA to 1000 A	Using Calibrator Fluke 5520A with 50 Turns Current Coil Direct Method	10 W to 1 kW	0.08% to 0.45%
98	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power, 1V to 1000 V, 1mA to 1000 A	Using Calibrator Fluke 5520A with 50 Turns Current Coil Direct Method	1mW to 10 W	0.1% to 0.08%
99	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Calibrator Fluke 5700A by Direct Method	0.5 mV to 100 mV	0.19 % to 0.0016%
100	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 732B Reference Standard by Direct Method	1.018 V, 10 V	0.0003%



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101	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Calibrator Fluke 5700A by direct method	10 V to 100 V	0.0009% to 0.0010%
102	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Calibrator Fluke 5700A by Direct Method	100 mV to 10 V	0.0016% to 0.0009%
103	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Calibrator Fluke 5700A by Direct Method	100 V to 1000 V	0.0010% to 0.0011%
104	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Calibrator Fluke 5700A by Direct Method	50 μ V to 0.5 mV	0.1 % to 0.19 %
105	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Std. Resistors & Shunts by VI Method	0.001 Ohm to 0.1 Ohm	0.6% to 0.025%



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106	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Standard Resistors & Shunts by VI Method	0.1 Ohm to 1 Ohm	0.025 % to 0.1 %
107	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Calibrator Fluke 5520A and DMM 3458 by VI Method	1 G ohm to 1 T ohm	1%
108	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Calibrator Fluke 5520A by Direct Method	1 MOhm to 10 MOhm	0.004% to 0.02%
109	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Calibrator Fluke 5520 A by Direct Method	1 ohm to 10 ohm	0.1% to 0.02%
110	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Calibrator Fluke 5520A by Direct Method	10 MOhm to 300 MOhm	0.02% to 0.5%



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111	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Calibrator Fluke 5520A by Direct Method	10 Ohm to 100 Ohm	0.02% to 0.005%
112	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Calibrator Fluke 5520A by Direct method	100 kOhm to 1 MOhm	0.004%
113	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Calibrator Fluke 5520A by Direct Method	100 Ohm to 100 kOhm	0.005% to 0.004%
114	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Calibrator Fluke 5520 A by Direct Method	300 MOhm to 1 GOhm	0.5% to 1.8%
115	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Standard Resistors & Shunts by VI method	75 µohm	1%



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116	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope, 0 to 130V (DC Signal)	Using Calibrator Fluke 5520A with 1.1 GHz option by Direct Method	1 mV to 55 Vp-p	0.2%
117	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope, 0 to 130V (DC Signal)	Using Calibrator Fluke 5520A with 1.1 GHz option by Direct Method	1 mV to 130 V	0.2%
118	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope, Band Width @ 50 kHz ref	Using Calibrator Fluke 5520A with 1.1GHz Option by Direct Method	50 kHz to 1 GHz	0.07%
119	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope, Scope Amplitude Square Wave Signal, 10 Hz to 10 k Hz	Using Calibrator Fluke 5520A with 1.1GHz option by Direct Method	1 mV to 55 V	0.2%
120	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope, Time Marker	Using Calibrator Fluke 5520A with 1.1 GHz option by Direct method	1 ns to 1000 sec	0.0006% to 0.1%



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121	ELECTRO-TECHNICAL-MISCELLANEOUS (Measure)	Capacitance, 1 kHz	Using LCR Meter by Direct / Comparison Method	1 pF to 100 pF	0.41% to 0.06%
122	ELECTRO-TECHNICAL-MISCELLANEOUS (Measure)	Capacitance, 1 kHz	Using LCR Meter by Direct/Comparison Method	100 nF to 100µF	0.06%
123	ELECTRO-TECHNICAL-MISCELLANEOUS (Measure)	Capacitance, 1 kHz	Using LCR Meter by Direct / Comparison Method	100 pF to 100 nF	0.06%
124	ELECTRO-TECHNICAL-MISCELLANEOUS (Measure)	Capacitance, 1 kHz	Using LCR Meter by Direct / Comparison Method	100µF to 100mF	0.5%
125	ELECTRO-TECHNICAL-MISCELLANEOUS (Measure)	Inductance, 1 kHz	Using LCR Meter by Direct / Comparison Method	100 mH to 10 H	0.06% to 0.3%
126	ELECTRO-TECHNICAL-MISCELLANEOUS (Measure)	Inductance, 1 kHz	Using LCR Meter by Direct / Comparison Method	100µH to 100mH	0.24% to 0.06%
127	ELECTRO-TECHNICAL-MISCELLANEOUS (Measure)	Resistance	Using DMM 81/2 8508A by Direct method	1 ohm to 10 ohm	0.0017 % to 0.0021 %



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128	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance	Using DMM 8½ 8508 A by Direct Method	1 MOhm to 10 MOhm	0.002%
129	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance	Using DMM 8½ 8508A by Direct Method	10 ohm to 100 ohm	0.0021 % to 0.0019 %
130	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance	Using DMM 8½ 8508A by Direct Method	10 k Ohm to 100 k ohm	0.0010 % to 0.0011 %
131	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance	Using DMM 8½ 8508A by Direct Method	10 MOhm to 100 MOhm	0.002 % to 0.012 %
132	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance	Using 8½ DMM 8508A by Direct Method	100 kOhm to 1 MOhm	0.0011 % to 0.002 %
133	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance	Using DMM 8½ 8508A by Direct Method	100 ohm to 10 k Ohm	0.0019 % to 0.001 %
134	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance	Using DMM 8½ 8508A by Direct method	100 MOhm to 20 G ohm	0.012 % to 0.121 %



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135	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance	Using DMM 8½ , Calibrator Fluke 5520A, V/I method	1mOhm to 10 Ohm	0.08% to 0.0025%
136	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance	Using Fluke Calibrator & 8½ DMM by VI Method	20 G ohm to 1 TOhm	1%
137	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance	Using DMM 8½ calibrator fluke 5520A V/I Method	75 µOhm to 1 mOhm	0.5%
138	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance, 1 kHz	Using LCR Meter	1 Ohm to 10 Ohm	0.1% to 0.025%
139	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance, 1 kHz	Using LCR Meter by direct method	1 Ohm to 10 Ohm	0.1% to 0.025%
140	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance, 1 kHz	Using LCR Meter	10 Ohm to 100 Ohm	0.025% to 0.1%
141	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance, 1 kHz	Using LCR Meter by direct method	10 Ohm to 100 Ohm	0.025% to 0.1%



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142	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance, 1 kHz	Using LCR Meter	100 Ohm to 10 kOhm	0.1% to 0.02%
143	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance, 1 kHz	Using LCR Meter by direct method	100 Ohm to 10 kOhm	0.1% to 0.02%
144	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance, 1 kHz - 100 kHz	Using LCR Meter	100 ohm to 10 k ohm	0.05%
145	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance, 1 kHz - 100 kHz	Using LCR Meter by direct method	100 ohm to 10 k ohm	0.05%
146	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Capacitance, 1 kHz	Using Calibrator Fluke 5520A, DCB by Direct Method	10 µF to 110 mF	0.5% to 1.3%
147	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Capacitance, 1 kHz	Using Calibrator Fluke 5520A,DCB by direct method	220 pF to 10 µF	6% to 0.5%
148	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458A by Direct Method	1 kOhm	0.0015%



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149	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458A by Direct Method	1 MOhm	0.0023%
150	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458 A by Direct Method	1 Ohm	0.011%
151	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458A by Direct Method	1.9 kOhm	0.0016%
152	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458A by Direct Method	1.9 MOhm	0.0024%
153	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458A by Direct method	1.9 Ohm	0.0059%
154	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458A by Direct Method	10 kOhm	0.0014%
155	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458A by Direct Method	10 MOhm	0.0047%



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156	ELECTRO-TECHNICAL-MISCELLANEOUS (Source)	Discrete Resistance	Using calibrator Fluke 5700 with DMM 3458 A by Direct method	10 Ohm	0.0028%
157	ELECTRO-TECHNICAL-MISCELLANEOUS (Source)	Discrete Resistance	Using Calibrator 5700 with DMM 3458A by Direct Method	100 kOhm	0.0016%
158	ELECTRO-TECHNICAL-MISCELLANEOUS (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458A by Direct	100 MOhm	0.0134%
159	ELECTRO-TECHNICAL-MISCELLANEOUS (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458A by Direct Method	100 Ohm	0.002 %
160	ELECTRO-TECHNICAL-MISCELLANEOUS (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458A by Direct Method	19 kOhm	0.0014%
161	ELECTRO-TECHNICAL-MISCELLANEOUS (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458 A by Direct Method	19 MOhm	0.0055%
162	ELECTRO-TECHNICAL-MISCELLANEOUS (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458 A by Direct Method	19 Ohm	0.0032 %



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163	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458A by Direct Method	190 kOhm	0.0016%
164	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458A by Direct Method	190 Ohm	0.002%
165	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Power Factor , Single phase	Using Calibrator Fluke 5520 A by Direct Method	0.2 Lag to Unity	0.002 pF
166	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Power Factor , Single phase	Using Calibrator Fluke 5520A by Direct Method	0.2 lead to unity	0.002 pF
167	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Power Factor , Three phase	Using Edutech Energy source by direct method	0.25 Lag to Unity	0.008 pF
168	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Power Factor , Three phase	Using Edutech energy source by direct method	0.25 Lead to Unity	0.008 pF



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169	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (comparison)	Attenuation (Attenuator/Signal Generator) 1 kHz to 18 GHz	Using Multimeter & Power Meter method	1 dB to 70 dB	0.086 dB to 0.14 dB
170	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (comparison)	Attenuation (Attenuator/Signal Generator) 10 MHz to 18 GHz	Using Power Meter , Spectrum Analyzer Method	70 dB to 110 dB	0.14 dB to 0.50 dB
171	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (comparison)	Attenuation, 1 kHz to 18 GHz	Using RF Reference Source 9640A LPNX Signal Generator-Attenuator-8494B, 8496B Multimeter & Power Meter Method	1 dB to 70 dB	0.026 dB to 0.14 dB
172	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (comparison)	Frequency	Using Signal Generator , RF Reference Source by Direct Method	1 mHz to 10 Hz	10 μHz to 90 μHz



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173	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Comparison)	Power (Signal Generator , RF Reference Source) 1 kHz to 18 GHz	Using Multimeter , Power Meter , Spectrum Analyzer Method	-60 dBm to 13 dBm	0.17 dB to 0.24 dB
174	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (comparison)	Power (Signal Generator , RF Reference Source) 10 MHz to 18 GHz	Using Power Meter , Spectrum Analyzer Method	-60 dBm to -100 dBm	0.17 dB to 0.65 dB
175	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Frequency, Signal Generator , RF Reference Source	Using Rubidium Frequency Standard locking to other Equipment Frequency Counter 5350B, Spectrum Analyzer by Direct Method Locked to rubidium frequency standard	10 Hz to 29.999 GHz	190 μ Hz to 17 Hz
176	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Reflection Coefficient Maury Microwave Mismatch Test Set 1 kHz to 18 GHz	Using Network Analyzer - ZVB20 by direct method using Cal kit Z270 by Network Analyzer Method	0.024 to 0.33	0.032 rho



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177	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Spectral Purity(THD) No. of harmonics (n=3 to 10), frequency 10 Hz to 2.9GHz	Using Spectrum Analyzer FSV-30 Upto 30 GHz by Direct Method	0.17 % to 3.19 %	0.03 % to 0.2 %
178	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Messure)	3 dB Bandwidth, (Filter, Power meter, Power Sensor - E 4412A)	Using RF Reference Source - 9640ALPNX Signal Generator by Direct Method	Upto 18 GHz	0.5%
179	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (source)	Frequency	Using Rubidium Frequency Standard , Signal Generator , RF Reference Source by Direct Method	10 Hz to 40 GHz	90 μHz to 16 Hz
180	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Modulation AM CW: 100 kHz to 3.9GHz Modulation Rate 1 kHz to 10 kHz AM Depth	Using Rhode & Schwarz Signal/ Spectrum Analyzer FSV 30, Modulation analyzer HP 8901B as transfer by Relative Sideband Amplitude Method	1 % to 98 %	0.2 % to 2 %



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181	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (source)	Modulation FM CW : 100 kHz to 25 GHz Modulation Rate 50 Hz to 267 kHz FM Deviation	Using Rohde & Schwarz Signal/Spectrum Analyzer FSV30 by Bessel Function Method	50 Hz to 4 MHz	0.1%
182	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Modulation, FM , CW : 100 kHz to 25 GHz, Modulation Rate : 50 Hz to 267 kHz, FM Deviation	By Bessel Function Method		0.1%
183	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Calibration of temperature indicator / controller / recorder - L Type	Using DMM 8½ 3458A DC mV Measurement method	-200°C to 900°C	0.08°C
184	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Calibration of temperature indicator / controller / recorder - N Type	Using 8½ DMM 3458 A DC mC measurement method	-200°C to 1300°C	0.07°C
185	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Calibration of temperature indicator / controller / recorder - RTD	Resistance method	-200°C to 800°C	0.02°C



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186	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Calibration of temperature indicator / controller / recorder - U Type	Using 8½ DMM HP 3458A DC mV Measurement Method	-200°C to 400°C	0.07°C
187	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Calibration of temperature indicator / controller / recorder - B Type	Using DMM 8½ 3458A DC mV measurement method	600°C to 1800°C	0.5°C
188	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Calibration of temperature indicator / controller / recorder - E Type	Using DMM 8½ 3458A DC mV Measurement Method	-200°C to 1000°C	0.08°C
189	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Calibration of temperature indicator / controller / recorder - J Type	Using DMM 8½ 3458A DC mV measurement method	-200°C to 1200°C	0.06°C
190	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Calibration of temperature indicator / controller / recorder - K Type	Using DMM 8½ 3458A DC mV Measurement Method	-200°C to 1372°C	0.05°C



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191	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Calibration of temperature indicator / controller / recorder - R & S Type	Using DMM 8½ 3458A DC mV measurement method	0 to 1750°C	0.07°C
192	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Calibration of temperature indicator / controller / recorder - T Type	Using 8½ DMM 3458A DC mV measurement method	-200°C to 400°C	0.1°C
193	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	(Calibration of temperature indicator/controller / recorder) Thermocouple - B Type	Using 5700 Calibrator DC mV Measurement Method	600°C to 1800°C	0.5°C
194	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	(Calibration of temperature indicator/controller / recorder) Thermocouple - E Type	Using 5700 Calibrator DC mV measurement method	-200°C to 1000°C	0.08°C
195	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	(Calibration of temperature indicator/controller / recorder) Thermocouple - J Type	Using 5700 Calibrator DC mV measurement method	-200 °C to 1200°C	0.06°C



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196	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	(Calibration of temperature indicator/controller / recorder) Thermocouple - K Type	Using 5700 Calibrator DC mV measurement Method	-200 °C to 1372°C	0.06°C
197	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	(Calibration of temperature indicator/controller / recorder) Thermocouple - L Type	Using 5700 calibrator DC mV Measurement Method	-200°C to 900°C	0.08°C
198	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	(Calibration of temperature indicator/controller / recorder) Thermocouple - N Type	Using 5700 Calibrator DC mV Measurement Method	-200°C to 1300°C	0.07°C
199	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	(Calibration of temperature indicator/controller / recorder) Thermocouple - R Type & S Type	Using 5700 Calibrator DC mV Measurement method	0°C to 1750°C	0.07°C
200	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	(Calibration of temperature indicator/controller / recorder) Thermocouple - RTD	Using Resistance Method	-200°C to 800°C	0.07°C



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201	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	(Calibration of temperature indicator/controller / recorder) Thermocouple - T Type	Using 5700 Calibrator DC mV Measurement method	-200 °C to 400°C	0.1°C
202	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	(Calibration of temperature indicator/controller / recorder) Thermocouple - U Type	Using 5700 calibrator DC mV measurement method	-200°C to 400°C	0.07°C
203	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Timer by Direct method	100 msec to 9999 sec	0.1 m sec to 0.08 sec
204	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Timer by Direct Method	9999 sec to 86400 sec	0.08 sec to 50 sec
205	FLUID FLOW-FLOW MEASURING DEVICES	Flow Meters (Air)	Using Mass Flow Meter by Comparison Method	0.1 LPM to 5 LPM	0.4%



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206	FLUID FLOW- FLOW MEASURING DEVICES	Flow Meters (Air)	Using Mass Flow Meter by Comparison method	5 LPM to 500 LPM	1.0% to 1.6%
207	MECHANICAL- ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Digital Tachometer with VFD Source. Procedure based on SANAS TR 45-1 & 2.	10000 to 90000 rpm	0.03 % to 0.06 %
208	MECHANICAL- ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Digital Tachometer with VFD source. Procedure based on SANAS TR 45-1 & 2.	12 to 1000 rpm	1.5 % to 0.09 %
209	MECHANICAL- ACCELERATION AND SPEED	Tachometer (Contact Type)	Digital Tachometer and VFD source. Procedure based on SANAS TR 45 - 1 & 2.	12 to 3000 rpm	1.5 % to 0.06 %
210	MECHANICAL- ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Digital Tachometer with VFD source. Procedure based on SANAS TR 45 -1 & 2.	1000 to 10000 rpm	0.09 % to 0.03 %
211	MECHANICAL- ACCELERATION AND SPEED	Vibration tester Acceleration (Frequency range:10 Hz to 1 kHz)	Digital Vibration tester with Transducer. Procedure based on ISO 16063.	1 to 100 m/s ²	12.9 % to 2.5 %



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212	MECHANICAL-ACCELERATION AND SPEED	Vibration Tester Displacement (Frequency range 10 Hz to 250 Hz)	Digital Vibration Tester with Transducer. Procedure based on ISO 16063.	0.01 to 2 mm	10.5 % to 2.5 %
213	MECHANICAL-ACCELERATION AND SPEED	Vibration Tester Velocity (Frequency range: 10 Hz - 1 kHz)	Digital Vibration Testerwith Transducer. Procedure based on ISO 16063.	1 to 100 mm/s	2.6 % to 3.8 %
214	MECHANICAL-ACOUSTICS	Sound Level Meter Frequency range: 1 kHz.	Sound level Calibrator, Calibration points at 94 & 114 dB. Procedure based on TSC/CAL/612.	30 to 130 dB	0.3 dB
215	MECHANICAL-DENSITY AND VISCOSITY	Hydrometers	Calibration of Hydrometers by cuckows method	0.6 g/ml to 1.000 g/ml	0.00014g/ml
216	MECHANICAL-DENSITY AND VISCOSITY	Hydrometers	Calibration of Hydrometers by cuckows method	1.000 g/ml to 2.000 g/ml	0.00014g/ml
217	MECHANICAL-DENSITY AND VISCOSITY	Viscosity Cups, Zahn Cups	Using liquid of known Kinematic viscosity and Timer as per IS 3944	30 cst to 240 cst	0.33%



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218	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Gaticule	Using Vision System, Comparison method	0 to 360 deg	1.8min
219	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate	Using Liver Dial Gauge by direct method	180 x 120 x 110 mm	10.8µm
220	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate	Using Liver Dial Gauge, IS 2554, IS 6973	180 x 120 x 110 mm	10.8µm
221	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Co-axility)	Using Straight & Taper Mandrels, Dial Gauge by Comparison Method	0 to 500 mm	8.9µm



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222	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Co-axility)	Using Straight & Taper Mandrels, Dial Gauge. IS 5980	0 to 500 mm	8.9µm
223	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor / Combination Set LC : 5 '	Using Angle Block Set	0-90-0 °	2.9arc min
224	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor / Combination Set LC : 5 '	Using Angle Block Set by Comparison Method	0-90-0 °	2.9arc min
225	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Dial Gauge for Transmission Accuracy check LC : 1 µm	Using Length Measuring Machine	0 to 2 mm	1.8µm



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226	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Dial Gauge for Transmission Accuracy check LC : 1 µm	Using Length Measuring Machine by direct method	0 to 2 mm	1.8µm
227	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Digital) LC : 10 µm	Using Gauge Block Set , Caliper Checker	0 to 1000 mm	10.3µm
228	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Digital) LC : 10 µm	Using Gauge Block Set , Caliper Checker by Comparison Method	0 to 1000 mm	10.3µm
229	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Digital) LC : 10 µm	Using Gauge Block Set , Caliper Checker	0 to 600 mm	9.8µm



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230	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Digital) LC : 10 µm	Using Gauge Block Set , Caliper Checker by Comparison Method	0 to 600 mm	9.8µm
231	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (vernier, dial, digital) L.C. 0.01 mm	Using Gauge Block Set , Caliper Checker	0 to 2000 mm	12µm
232	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (vernier, dial, digital) L.C. 0.01 mm	Using Gauge Block Set , Caliper Checker by Comparison Method	0 to 2000 mm	12µm
233	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge with Foils LC:1.0 µm	Using Standard Thickness Foils	0 to 2000 mm	4.3µm



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234	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge with Foils LC:1.0 µm	Using Standard Thickness Foils by Comparison Method	0 to 2000 mm	4.3µm
235	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness of work Table)	Using Lever Dial Gauge	200 x 200 mm	2.4µm
236	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness of work Table)	Using Lever Dial Gauge by direct method	200 x 200 mm	2.4µm
237	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pin	Electronic Probe with Comparator Stand by Comparison Method	0.1 to 26 mm	0.9µm



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238	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pin	Electronic Probe with Comparator Stand.	0.1 to 26 mm	0.9µm
239	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper LC : 10 µm	Using Gauge Block Set	0 to 300 mm	6.4µm
240	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper LC : 10 µm	Using Gauge Block Set by Comparison Method	0 to 300 mm	6.4µm
241	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper, L.C.: 10 µm	Using Gauge Block Set	0 to 600 mm	13.1µm



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242	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper, L.C.: 10 µm	Using Gauge Block Set by Comparison Method	0 to 600 mm	13.1µm
243	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer LC : 1 µm	Using Gauge Block Set	0 to 300 mm	6.0µm
244	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer LC : 1 µm	Using Gauge Block Set by Comparison Method	0 to 300 mm	6.0µm
245	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer, L.C.: 1 µm	Using Gauge Block Set	0 to 600 mm	11.4µm



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246	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer, L.C.: 1 µm	Using Gauge Block Set by Comparison Method	0 to 600 mm	11.4µm
247	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (Lever Type) LC : 1 µm	Using Length Measuring Machine	0 to 2 mm	0.5µm
248	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (Lever Type) LC : 1 µm	Using Length Measuring Machine by direct method	0 to 2 mm	0.5µm
249	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (Plunger /Digital/ Dial Thickness Gauge) LC : 1 µm	Using Length Measuring Machine	0 to 100 mm	2.9µm



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250	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (Plunger /Digital/ Dial Thickness Gauge) LC : 1 µm	Using Length Measuring Machine by direct method	0 to 100 mm	2.9µm
251	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe	Using Gauge Blocks	0 to 25 mm to 0 to 50 mm	0.9 µm to 1.4 um
252	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe	Using Gauge Blocks by Comparison Method	0 to 25 mm to 0 to 50 mm	0.9 µm to 1.4 um
253	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge	using 2D Height Gauge, Comparison Method	0 to 100 mm	5.9um



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254	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square (Squareness)	Using Granite Square & Slip Gauge	Up to 400 mm	6.2µm
255	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square (Squareness)	Using Granite Square & Slip Gauge by direct method	Up to 400 mm	6.2µm
256	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Mech / Electronic / Digital) LC : 0.1µm	Using gauge blocks	0 to 25 mm	0.4µm
257	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Mech / Electronic / Digital) LC : 0.1µm	Using gauge blocks by Comparison Method	0 to 25 mm	0.4µm



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258	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Mech / Electronic / Digital) LC : 1 µm	Using Gauge Block Set	0 to 150 mm	1.7µm
259	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Mech / Electronic / Digital) LC : 1 µm	Using Gauge Block Set by Comparison Method	0 to 150 mm	1.7µm
260	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Mech / Electronic / Digital) LC : 1 µm	Using Gauge Block Set	> 150 to 450 mm	2.0µm
261	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Mech / Electronic / Digital) LC : 1 µm	Using Gauge Block Set by Comparison Method	> 150 to 450 mm	2.0µm



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262	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Mech / Electronic / Digital) LC : 1 µm	Using Gauge Block Set	0 mm to 1000 mm	8.1µm
263	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Mech / Electronic / Digital) LC : 1 µm	Using Gauge Block Set by Comparison Method	0 mm to 1000 mm	8.1µm
264	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Mech / Electronic / Digital) LC : 10 µm	Using Gauge blocks	0 to 2000 mm	9.0µm
265	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Mech / Electronic / Digital) LC : 10 µm	Using Gauge blocks by Comparison Method	0 to 2000 mm	9.0µm



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266	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Electronic Probe with Comparator Stand	Up to 1 mm	1.4µm
267	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Electronic Probe with Comparator Stand by direct method	Up to 1 mm	1.4µm
268	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Fillet Gauge/ Form Gauge	Using Vision System	0 ° to 90 °	2.2min
269	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Fillet Gauge/ Form Gauge	Using Vision System by direct method	0 ° to 90 °	2.2min



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270	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Fillet Gauge/ Form Gauge	Using Vision System	0 mm to 150 mm	3.1µm
271	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Fillet Gauge/ Form Gauge	Using Vision System by direct method	0 mm to 150 mm	3.1µm
272	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flankiness Gauge	Using Vision System & 2D Height Gauge, Comparison Method	0 to 100 mm	5.9µm
273	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Gauge	Using Plunger Dial gauge	up to 1 mm	2.3µm



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274	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Gauge	Using Plunger Dial gauge by direct method	up to 1 mm	2.3µm
275	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) LC: 10 µm	Using Gauge Block Set and Caliper Checker	0 mm to 1000 mm	8.7µm
276	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) LC: 10 µm	Using Gauge Block Set and Caliper Checker by Comparison Method	0 mm to 1000 mm	8.7µm
277	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) L.C:10µm	Gauge blocks/ Caliper Checker	0 to 600	8.0um



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278	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) L.C:10µm	Gauge blocks/ Caliper Checker by Comparison Method	0 to 600	8.0um
279	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inclinometer	Using Angle Gauge Blocks, Comparison Method	0 to 90 deg	1.7 min
280	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside/ Outside Dial Caliper LC: 10 µm	Using Gauge Block Set	0 to 150 mm	8.6µm
281	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside/ Outside Dial Caliper LC: 10 µm	Using Gauge Block Set by Comparison Method	0 to 150 mm	8.6µm



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282	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal / Stick Micrometer (2 Point) LC : 10 µm	Using Gauge Block Set	50 mm to 2100 mm	(1.25+3.27L)µm L is length in m
283	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal / Stick Micrometer (2 Point) LC : 10 µm	Using Gauge Block Set by direct method	50 mm to 2100 mm	(1.25+3.27L)µm L is length in m
284	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Laser Distance Meter L.C.0.10 mm	Using Slip Gauge, Comparison Method	0 to 2000 mm	350µm
285	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Bars	Using Length Measuring Machine	50 mm to 500 mm	2.9µm



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286	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Bars	Using Length Measuring Machine by direct method	50 mm to 500 mm	2.9µm
287	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauge (Length,Radius/Diameter,Angle) Angle	Using Vision System	360 °	2.4min
288	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauge (Length,Radius/Diameter,Angle) Angle	Using Vision System by direct method	360 °	2.4min
289	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauge (Length,Radius/Diameter,Angle) Diameter	Using Vision System	Up to 100 mm	2.7µm



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290	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauge (Length,Radius/Diameter,Angle) Diameter	Using Vision System by direct method	Up to 100 mm	2.7µm
291	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauge (Length,Radius/Diameter,Angle) Length	Using Vision System	0 mm to 150 mm	4.6µm
292	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauge (Length,Radius/Diameter,Angle) Length	Using Vision System by direct method	0 mm to 150 mm	4.6µm
293	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scales LC : 0.5 mm	Using Length Measuring Machine	Up to 2000 mm	114vL L is in Mtrµm



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294	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scales LC : 0.5 mm	Using Length Measuring Machine by direct method	Up to 2000 mm	114vL L is in Mtr μ m
295	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape/Pi Tape LC : 0.5 mm	Using Length Measuring Method	Up to 50 mtr	114 v L μ m Where L in mtr
296	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape/Pi Tape LC : 0.5 mm	Using Length Measuring Method by direct method	Up to 50 mtr	114 v L μ m Where L in mtr
297	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head LC: 1 μ m	Using Length Measuring Machine	0 to 50 mm	0.8 μ m



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298	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head LC: 1 µm	Using Length Measuring Machine by direct method	0 to 50 mm	0.8µm
299	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Gauge Block Set	1000 to 1950 mm	7.9µm
300	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Gauge Block Set by Comparison Method	1000 to 1950 mm	7.9µm
301	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Gauge Block Set	12.5 to 1000 mm	4.7µm



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302	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Gauge Block Set by Comparison Method	12.5 to 1000 mm	4.7µm
303	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper LC: 100.0 µm	Using Gauge Block Set	0 to 100 mm	60.4µm
304	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper LC: 100.0 µm	Using Gauge Block Set by Comparison Method	0 to 100 mm	60.4µm
305	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Length Measuring Machine	0 to 100 mm	1.0µm



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306	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Length Measuring Machine by direct method	0 to 100 mm	1.0µm
307	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Length Measuring Machine	100 to 400 mm	1.6µm
308	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Length Measuring Machine by direct method	100 to 400 mm	1.6µm
309	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using Length Measuring Machine , Master Ring	100 mm to 325 mm	2.6µm



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310	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using Length Measuring Machine , Master Ring by direct method	100 mm to 325 mm	2.6µm
311	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using Length Measuring Machine, Master Ring	3 to 100 mm	1.8µm
312	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using Length Measuring Machine, Master Ring by direct method	3 to 100 mm	1.8µm
313	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Vision System	0.4 to 50 mm	9.5µm



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314	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Vision System by direct method	0.4 to 50 mm	9.5µm
315	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar/ Sine Centre / Sine Table	Using Gauge Blocks , Angle Blocks, Lever Dial Gauge	0 ° to 45 °	2.82sec
316	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar/ Sine Centre / Sine Table	Using Gauge Blocks , Angle Blocks, Lever Dial Gauge by Comparison Method	0 ° to 45 °	2.82sec
317	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Gauge Block Set	3 to 500 mm	2.7µm



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318	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Gauge Block Set by Comparison Method	3 to 500 mm	2.7µm
319	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level (Type 1, 2 & 3) Sensitivity : 0.01 mm/m	Using Electronic Level	Up to 4 mm/m	7.9µm/m
320	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level (Type 1, 2 & 3) Sensitivity : 0.01 mm/m	Using Electronic Level by direct method	Up to 4 mm/m	7.9µm/m
321	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge/Parallels	Using Electronic Level	Up to 2000 mm	16.8µm



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322	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge/Parallels	Using Electronic Level by direct method	Up to 2000 mm	16.8µm
323	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic Level	3 m X 2 m	1.3 (Sqrt (L+W)/100)L = Length in mm, W = Width in mm
324	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic Level by direct method	3 m X 2 m	1.3 (Sqrt (L+W)/100)L = Length in mm, W = Width in mm
325	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge	Using Length Measuring Machine	Taper Half Angle	0.01098min



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326	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge	Using Length Measuring Machine by direct method	Taper Half Angle	0.01098min
327	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge	Using Length Measuring Machine	Up to 100 mm	0.9µm
328	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge	Using Length Measuring Machine by direct method	Up to 100 mm	0.9µm
329	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring Gauge	Using Length Measuring machine	Taper Half Angle	5.5sec



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330	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring Gauge	Using Length Measuring machine by direct method	Taper Half Angle	5.5sec
331	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring Gauge	Using Length Measuring machine	Up to 100 mm	0.9µm
332	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring Gauge	Using Length Measuring machine by direct method	Up to 100 mm	0.9µm
333	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale	Using Vision System	Up to 15 mm	9.5µm



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334	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale	Using Vision System by direct method	Up to 15 mm	9.5µm
335	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge	Using Length Measuring Machine, Master Disc, FCDM	Taper Half Angle	3.2sec
336	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge	Using Length Measuring Machine, Master Disc, FCDM by direct method	Taper Half Angle	3.2sec
337	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge	Using Length Measuring Machine	Up to 100 mm	1.4µm



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338	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge	Using Length Measuring Machine by direct method	Up to 100 mm	1.4µm
339	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge	Using Length Measuring Machine	Up to 100 mm	0.9µm
340	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge	Using Length Measuring Machine by direct method	Up to 100 mm	0.9µm
341	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Vision System	0.03 mm to 125 mm	9.4µm



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342	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Vision System by direct method	0.03 mm to 125 mm	9.4µm
343	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Foils	Using Electronic Probe With Comparator Stand	Up to 2.5 mm	1.6µm
344	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Foils	Using Electronic Probe With Comparator Stand by direct method	Up to 2.5 mm	1.6µm
345	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge Angle	Using Vision System	55 & 60 °	2.2min



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346	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge Angle	Using Vision System by direct method	55 & 60 °	2.2min
347	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge Pitch	Using Vision System	0.25 to 6.35 mm	9.4µm
348	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge Pitch	Using Vision System by direct method	0.25 to 6.35 mm	9.4µm
349	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major Dia , Effective Dia)	Using Length Measuring Machine , Master Disc	100 to 400 mm	1.7µm



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350	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major Dia , Effective Dia)	Using Length Measuring Machine , Master Disc by direct method	100 to 400 mm	1.7µm
351	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major Dia , Effective Dia)	FCDM	3 to 100 mm	2.3µm
352	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major Dia , Effective Dia)	FCDM by direct method	3 to 100 mm	2.3µm
353	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (For Effective Dia)	Using Length Measuring Machine , Master Ring	100 to 325 mm	1.9µm



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354	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (For Effective Dia)	Using Length Measuring Machine , Master Ring by direct method	100 to 325 mm	1.9µm
355	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (For Effective Dia)	Using Length Measuring Machine , Master Ring	3 to 100 mm	1.9µm
356	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (For Effective Dia)	Using Length Measuring Machine , Master Ring by direct method	3 to 100 mm	1.9µm
357	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Point Micrometer LC: 1.0 µm	Using Setting Ring Gauge	2.5 mm to 100 mm	2.0µm



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358	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Point Micrometer LC: 1.0 µm	Using Setting Ring Gauge by Comparison Method	2.5 mm to 100 mm	2.0µm
359	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge LC: 100 µm	Using Gauge Block Set	0 to 300 mm	52.1µm
360	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge LC: 100 µm	Using Gauge Block Set by Comparison Method	0 to 300 mm	52.1µm
361	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V- Block (Parallelism,Symmetry)	Using Lever Dial Gauge & Mandrel	300 x 125 x 200 mm	4.4µm



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362	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V- Block (Parallelism,Symmetry)	Using Lever Dial Gauge & Mandrel by direct method	300 x 125 x 200 mm	4.4µm
363	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet Film Thickness Gauge	Vision System	0.025 to 5 mm	9.4µm
364	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet Film Thickness Gauge	Vision System by direct method	0.025 to 5 mm	9.4µm
365	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using Video Measuring M/c	0.19 to 7.62 mm	8.0µm



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366	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using Video Measuring M/c by direct method	0.19 to 7.62 mm	8.0µm
367	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Master (Diameter and Concentricity)	Electronic Probe with DRO, & FCDM by direct method	3 to 100 mm	1.1 µm for Diameter to 1.3 µm for Concentricity
368	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Master (Diameter and Concentricity)	Electronic Probe with DRO, & FCDM	3 to 100 mm	1.1 um for Diameter to 1.3 um for Concentricity
369	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester L.C. 0.1 um	Using Electronic Probe with DRO, Comparison Method	0 to 25 mm	0.7µm
370	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Micrometer L.C. 0.0001 mm	Using Mandrels & Master Cylinders, MOY/SCMI/9	0 to 100 mm	2.2µm
371	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Micrometer L.C. 0.0001 mm	Using Mandrels & Master Cylinders, MOY/SCMI/9 by direct method	0 to 100 mm	2.2µm



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372	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block (Carbide)	Slip Gauge Calibrator & K Grade Slip Gauge by direct method	> 25 to 50 mm	0.10µm
373	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block (Carbide)	Slip Gauge Calibrator & K Grade Slip Gauge, IS 2984, ISO 3650	> 25 to 50 mm	0.10µm
374	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block (Carbide)	Slip gauge Calibrator & K grade Slip Gauges by direct method	> 50 to 75 mm	0.12µm
375	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block (Carbide)	Slip gauge Calibrator & K grade Slip Gauges, IS 2984, ISO 3650	> 50 to 75 mm	0.12µm
376	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block (Carbide)	Slip Gauge Calibrator & K grade Slip Gauges	> 75 to 100 mm	0.15µm
377	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block (Carbide)	Slip Gauge Calibrator & K grade Slip Gauges by direct method	> 75 to 100 mm	0.15µm
378	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block (Carbide)	Gauge block Calibrator & k Grade Gauges by direct method	up to 25 mm	0.08µm



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379	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block (Carbide)	Gauge block Calibrator & k Grade Gauges, IS 2984, ISO 3650	up to 25 mm	0.08µm
380	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Comparators	Using K grade Gauge Blocks by Direct Method	0 to 100 mm	0.03µm
381	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Thread Measuring Wire	using Electronic Probe with DRO, Comparison Method	0.170 to 6.350 mm	0.5µm
382	MECHANICAL-DUROMETER	Spring force Calibration of Rubber Hardness Tester Shore A, B, E, O	Using Load Cell with Indicator	Shore A, B, E,O (0 to 100)	0.12 Shore A
383	MECHANICAL-DUROMETER	Spring force Calibration of Rubber Hardness Tester Shore A, B, E, O	Using Load Cell with Indicator, ASTM D2240	Shore A, B, E,O (0 to 100)	0.12 Shore A
384	MECHANICAL-DUROMETER	Spring Force Calibration of Rubber Hardness Tester Shore C, D, DO	Using Load Cell with Indicator	Shore C, D, DO (0 to 100)	0.09 Shore D



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385	MECHANICAL-DUROMETER	Spring Force Calibration of Rubber Hardness Tester Shore C, D, DO	Using Load Cell with Indicator, ASTM D2240	Shore C, D, DO (0 to 100)	0.09 Shore D
386	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Load cells / Force proving Instrument	Using Newton weights as per ISO 376	100 N* to 2000 N	0.15%
387	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge	Using Newtonian Weights And frame fixtureVDI/VDE 2624- part2.1	1 N to 2000 N	0.21 %rdg.
388	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analogue Pressure Gauges , Differential Pressure Gauges,Transducers /Transmitters & Switches	Digital Pressure Gauge with pressure pump. Procedure based on DKD-R 6-1.	20 to 40 bar	0.016 %
389	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analogue Pressure Gauges , Differential Pressure Gauges,Transducers /Transmitters & Switches	Digital Pressure Gauge with pressure pump. Procedure based on DKD-R 6-1.	20 bar to 40 bar	0.016 %



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390	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analogue Pressure Gauges , Transducers/Transmitters & Switches	Hydraulic (oil operated) Dead Weight Tester, procedure based on DKD-R 6-1.	35 to 1200 bar	0.017 % rdg.
391	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analogue Pressure Gauges , Transducers/Transmitters & Switches	Hydraulic (oil operated) Dead Weight Tester, procedure based on DKD-R 6-1.	35 bar to 1200 bar	0.017 % rdg.
392	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analogue Pressure Gauges , Transducers/Transmitters & Switches	Hydraulic (oil operated) Dead Weight Tester, Procedure based on DKD-R 6-1.	4 to 35 bar	0.026 % rdg.
393	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analogue Pressure Gauges , Transducers/Transmitters & Switches	Hydraulic (oil operated) Dead Weight Tester, Procedure based on DKD-R 6-1.	4 bar to 35 bar	0.026 % rdg.
394	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analogue Pressure Gauges , Differential Pressure Gauges, Transducers/Transmitters & Switches.	Digital Pressure Gauge using hydraulic comparator pump Based on DKD-R6-1	40 to 700 bar	0.023 % rdg.



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395	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analogue Pressure Gauges ,Differential Pressure Gauges, Transducers/Transmitters & Switches.	Digital Pressure Gauge using hydraulic comparator pump Based on DKD-R6-1	40 bar to 700 bar	0.023 % rdg.
396	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Absolute) Pressure Gauges.	Digital Barometer with uncertainty of 0.31 mbar Procedure based on DKD-R 6-1.	200 to 915 mbar (abs)	0.26 % rdg.
397	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (hydraulic) Digital/Analogue Pressure Gauges , Differential Pressure Gauges,Transducers /Transmitters & Switches	Digital Pressure Gauge with hydraulic comparator pump. Procedure based on. DKD-R 6-1.	700 to 1000 bar	0.02 %
398	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (hydraulic) Digital/Analogue Pressure Gauges , Differential Pressure Gauges,Transducers /Transmitters & Switches	Digital Pressure Gauge with hydraulic comparator pump. Procedure based on. DKD-R 6-1.	700 bar to 1000 bar	0.02 %



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399	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (pneumatic) Digital /Analogue Pressure Gauges , Differential Pressure Gauge, Transducers/Transmitters, Switches	Digital Pressure Gauge with uncertainty of 0.0031 bar and pneumatic pump. Procedure based on DKD-R 6-1	2 to 20 bar	0.043 % rdg.
400	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (pneumatic) Digital /Analogue Pressure Gauges , Differential Pressure Gauge, Transducers/Transmitters, Switches	Digital Pressure Gauge with uncertainty of 0.0031 bar and pneumatic pump. Procedure based on DKD-R 6-1	2 bar to 20 bar	0.043 % rdg.
401	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (pneumatic) Digital /Analogue Pressure Gauges ,Differential Pressure Gauge, Transducers/Transmitters, Switches	Digital Pressure Gauge with pneumatic pump. Procedure based on DKD-R 6-1	100 mbar to 2 bar	0.045 % rdg.
402	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (pneumatic) Digital/Analogue Pressure Gauges , Differential Pressure Gauges,Transducers /Transmitters , Switches	Digital Pressure Gauge with pneumatic pump. Procedure based on DKD-R 6-1.	0 to 10 mbar	0.93 %



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403	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (pneumatic) Digital/Analogue Pressure Gauges , Differential Pressure Gauges,Transducers /Transmitters , Switches	Digital Pressure Gauge with pneumatic pump. Procedure based on DKD-R 6-1	10 to 100 mbar	0.06 %
404	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (pneumatic) Digital/Analogue Pressure Gauges , Differential Pressure Gauges,Transducers /Transmitters , Switches	Digital Pressure Gauge with pneumatic pump. Procedure based on DKD-R 6-1	10 mbar to 100 mbar	0.06 %
405	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Digital/Analogue Vacuum Gauges , Transducers/Transmitters, Switches	Digital Pressure Gauge with pneumatic pressure pump. Procedure based on ISO 3567 & ISO 27893.	0 to (-) 0.9 bar	0.22 % rdg.
406	MECHANICAL-TORQUE GENERATING DEVICES	Torque Sensors	Using Dead Weight Torque Calibration System as per BS 7882:2017	>10 Nm to 500 Nm	0.30 %



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407	MECHANICAL-TORQUE GENERATING DEVICES	Torque Sensors	Using Dead Weight Torque Calibration System as per BS 7882:2017	1 Nm to 10 Nm	0.30 %
408	MECHANICAL-TORQUE GENERATING DEVICES	Torque, Torque Wrench , Torque Driver, Type-I Class B,C,D,E Type II, Class A,B,D,E	Using Torque sensors of Various capacities, Torque Calibration ring as per Based on ISO6789	0.1 Nm to 10 Nm	0.89%
409	MECHANICAL-TORQUE GENERATING DEVICES	Torque, Torque Wrench , Torque Driver, Type-I Class B,C,D,E Type II, Class A,B,D,E	Using Torque sensors of Various capacities, Torque Calibration ring as per Based on ISO6789	20 Nm to 200 Nm	0.43% rdg
410	MECHANICAL-TORQUE GENERATING DEVICES	Torque, Torque Wrench , Torque Driver, Type-I Class B,C,D,E Type II, Class A,B,D,E	Using Torque sensors of Various capacities, Torque Calibration ring as per Based on ISO6789	200 Nm to 1000 Nm	0.62% rdg.
411	MECHANICAL-TORQUE GENERATING DEVICES	Torque, Torque Wrench , Torque Driver, Type-I Class B,C,D,E Type II, Class A,B,D,E	Using Torque sensors of Various capacities, Torque Calibration ring as per Based on ISO6789	10 Nm to 20 Nm	0.35% rdg



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412	MECHANICAL-VOLUME	Glassware (Pipette , Burette ,Measuring Cylinder, Volumetric flask)	Using Weighing Balance with d = 0.1 mg , 1 mg, 10 mg Respectively and Distilled water by Gravimetric method as per ISO 4787	1 ml to 10 ml	0.00018ml
413	MECHANICAL-VOLUME	Glassware (Pipette , Burette ,Measuring Cylinder, Volumetric flask)	Using Weighing Balance with d = 0.1 mg , 1 mg, 10 mg Respectively and Distilled water by Gravimetric method as per ISO 4787	100 ml to 1000 ml	0.005ml
414	MECHANICAL-VOLUME	Glassware (Pipette , Burette ,Measuring Cylinder, Volumetric flask)	Using Weighing Balance with d = 0.1 mg , 1 mg, 10 mg Respectively and Distilled water by Gravimetric method as per ISO 4787	1000 ml to 5000 ml	0.017ml
415	MECHANICAL-VOLUME	Glassware (Pipette , Burette, Measuring Cylinder, Volumetric flask)	Using Weighing Balance with d = 0.1 mg , 1 mg, 10 mg Respectively and Distilled water by Gravimetric method as per ISO 4787	10 ml to 100 ml	0.0004ml



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416	MECHANICAL-VOLUME	Micropipettes, Syringes	Using Weighing Balance of d=0.001 mg & 0.01 mg and distilled water by Gravimetric method as per ISO 8655	1 µl to 10 µl	0.02µl
417	MECHANICAL-VOLUME	Micropipettes, Syringes	Using Weighing Balance of d=0.001 mg & 0.01 mg and distilled water by Gravimetric method as per ISO 8655	100 µl to 1 ml	0.11µl
418	MECHANICAL-VOLUME	Micropipettes, Syringes	Using Weighing Balance of d=0.001 mg & 0.01 mg and distilled water by Gravimetric method as per ISO 8655	1 ml to 5 ml	1.92µl
419	MECHANICAL-VOLUME	Micropipettes, Syringes	Using Weighing Balance of d=0.001 mg & 0.01 mg and distilled water by Gravimetric method as per ISO 8655	10 µl to 100 µl	0.04µl
420	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 1 and Coarser d>= 0.0001 mg	Using E1 Class Standard Weights 1 mg to 20 kg as per OIML R-76	1 mg to 2 g	0.0035mg



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421	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 1 and Coarser $d \geq 0.001$ mg	Using E1 Class Standard Weights 1 mg to 20 kg as per OIML R-76	1 mg to 20 g	0.007mg
422	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 1 and Coarser $d \geq 0.001$ mg	Using E1 Class Standard Weights 1 mg to 20 kg as per OIML R-76	1 mg to 5 g	0.005mg
423	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 1 and Coarser $d \geq 0.01$ mg	Using E1 Class Standard Weights 1 mg to 20 kg as per OIML R-76	1 mg to 1 kg	0.2mg
424	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 1 and Coarser $d \geq 0.01$ mg	Using E1 Class Standard Weights 1 mg to 20 kg as per OIML R-76	1 mg to 200 g	0.03mg
425	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 1 and Coarser $d \geq 0.01$ mg	Using E1 Class Standard Weights 1 mg to 20 kg as per OIML R-76	1 mg to 50 g	0.02mg
426	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 1 and Coarser $d \geq 0.01$ mg	Using E1 Class Standard Weights 1 mg to 20 kg as per OIML R-76	1 mg to 500 g	0.1mg
427	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 1 and Coarser $d \geq 1$ mg	Using E1 Class Standard Weights 1 mg to 20 kg as per OIML R-76	500 mg to 20 kg	7mg



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428	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 1 and Coarser $d \geq 1$ mg	Using E1 Class Standard Weights 1 mg to 20 kg as per OIML R-76	500 mg to 5 kg	1mg
429	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 2 and Coarser $d \geq 1$ g	Using E2 and F1 class up to 1000 kg as per OIML R-76	500 mg to 150 kg	1g
430	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 2 and Coarser $d \geq 100$ g	Using E2 and F1 class up to 1000 kg as per OIML R-76	1 kg to 1000 kg	100g
431	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 2 and Coarser $d \geq 100$ g	Using E2 and F1 class up to 1000 kg as per OIML R-76	2 kg to 3000 kg	500g
432	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 2 and Coarser $d \geq 100$ mg	Using E2 and F1 class up to 1000 kg as per OIML R-76	500 mg to 50 kg	100mg
433	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 2 and Coarser $d \geq 20$ g	Using E2 and F1 class up to 1000 kg as per OIML R-76	1 kg to 300 kg	20g
434	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance	Using F1 class Weights , as per OIML R-76	> 1500 g to 100 kg	0.1% of applied load



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435	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance	Using F1 class Weights , as per OIML R-76	0 g to 1500 g	0.28% of applied load
436	MECHANICAL-WEIGHTS	Weights E1 class and Coarser	Using Mass Comparator of d = 1 µg	1 g	0.0030mg
437	MECHANICAL-WEIGHTS	Weights E1 class and Coarser	Using Mass Comparator of d = 0.01 mg	1 kg	0.2mg
438	MECHANICAL-WEIGHTS	Weights E1 Class and coarser	Using E1 class Standard weights 1 mg to 20 kg and Mass comparator of d= 0.1 µg as per OIML R-111 by Subdivision & Substitution methods Through ABBA cycles	1 mg	0.0010mg
439	MECHANICAL-WEIGHTS	Weights E1 class and Coarser	Using Mass Comparator of d = 1 µg	10 g	0.006mg



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440	MECHANICAL-WEIGHTS	Weights E1 Class and coarser	Using E1 class Standard weights 1 mg to 20 kg and Mass comparator of $d= 0.1 \mu\text{g}$ as per OIML R-111 by Subdivision & Substitution methods Through ABBA cycles	10 mg	0.0010mg
441	MECHANICAL-WEIGHTS	Weights E1 class and Coarser	Using Mass Comparator of $d = 0.01 \text{ mg}$	100 g	0.02mg
442	MECHANICAL-WEIGHTS	Weights E1 Class and coarser	Using E1 class Standard weights 1 mg to 20 kg and Mass comparator of $d= 0.1 \mu\text{g}$ as per OIML R-111 by Subdivision & Substitution methods Through ABBA cycles	100 mg	0.0013mg
443	MECHANICAL-WEIGHTS	Weights E1 class and Coarser	Using Mass Comparator of $d = 1 \mu\text{g}$	2 g	0.0040mg



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444	MECHANICAL-WEIGHTS	Weights E1 Class and coarser	Using E1 class Standard weights 1 mg to 20 kg and Mass comparator of $d= 0.1 \mu\text{g}$ as per OIML R-111 by Subdivision & Substitution methods Through ABBA cycles	2 mg	0.0010mg
445	MECHANICAL-WEIGHTS	Weights E1 class and Coarser	Using Mass Comparator of $d = 0.01 \text{ mg}$	20 g	0.007mg
446	MECHANICAL-WEIGHTS	Weights E1 Class and coarser	Using E1 class Standard weights 1 mg to 20 kg and Mass comparator of $d= 0.1 \mu\text{g}$ as per OIML R-111 by Subdivision & Substitution methods Through ABBA cycles	20 mg	0.0010mg
447	MECHANICAL-WEIGHTS	Weights E1 class and Coarser	Using Mass Comparator of $d = 0.01 \text{ mg}$	200 g	0.03mg



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448	MECHANICAL-WEIGHTS	Weights E1 Class and coarser	Using E1 class Standard weights 1 mg to 20 kg and Mass comparator of $d= 0.1 \mu\text{g}$ as per OIML R-111 by Subdivision & Substitution methods Through ABBA cycles	200 mg	0.0014mg
449	MECHANICAL-WEIGHTS	Weights E1 class and Coarser	Using Mass Comparator of $d = 1 \mu\text{g}$	5 g	0.005mg
450	MECHANICAL-WEIGHTS	Weights E1 Class and coarser	Using E1 class Standard weights 1 mg to 20 kg and Mass comparator of $d= 0.1 \mu\text{g}$ as per OIML R-111 by Subdivision & Substitution methods Through ABBA cycles	5 mg	0.0010mg
451	MECHANICAL-WEIGHTS	Weights E1 class and Coarser	Using Mass Comparator of $d = 0.01 \text{ mg}$	50 g	0.01mg



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452	MECHANICAL-WEIGHTS	Weights E1 Class and coarser	Using E1 class Standard weights 1 mg to 20 kg and Mass comparator of $d= 0.1 \mu\text{g}$ as per OIML R-111 by Subdivision & Substitution methods Through ABBA cycles	50 mg	0.0010mg
453	MECHANICAL-WEIGHTS	Weights E1 class and Coarser	Using Mass Comparator of $d = 0.01 \text{ mg}$	500 g	0.1mg
454	MECHANICAL-WEIGHTS	Weights E1 Class and coarser	Using E1 class Standard weights 1 mg to 20 kg and Mass comparator of $d= 0.1 \mu\text{g}$ as per OIML R-111 by Subdivision & Substitution methods Through ABBA cycles	500 mg	0.0016mg



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455	MECHANICAL-WEIGHTS	Weights E2 class and Coarser	Using Mass Comparator of d = 1 mg upto 20 kg and 100 mg upto 50 kg by Substitution Methods through ABBA cycles as per OIML R-111	10 kg	3mg
456	MECHANICAL-WEIGHTS	Weights E2 class and Coarser	Using Mass Comparator of d = 1 mg upto 20 kg and 100 mg upto 50 kg by Substitution Methods through ABBA cycles as per OIML R-111	2 kg	1mg
457	MECHANICAL-WEIGHTS	Weights E2 class and Coarser	Using Mass Comparator of d = 1 mg upto 20 kg and 100 mg upto 50 kg by Substitution Methods through ABBA cycles as per OIML R-111	20 kg	7mg



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458	MECHANICAL-WEIGHTS	Weights E2 class and Coarser	Using Mass Comparator of d = 1 mg upto 20 kg and 100 mg upto 50 kg by Substitution Methods through ABBA cycles as per OIML R-111	5 kg	2mg
459	MECHANICAL-WEIGHTS	Weights E2 class and Coarser	Using Mass Comparator of d = 1 mg upto 20 kg and 100 mg upto 50 kg by Substitution Methods through ABBA cycles as per OIML R-111	50 kg	100mg
460	OPTICAL-OPTICAL	Lux Meter / Light Meter	Using Standard Lux Meter by Comparison Method	100 lux to 10000 lux	3.0 %Rdg
461	OPTICAL-OPTICAL	Lux Meter / Light Meter	Using Standard Lux Meter by Comparison Method	10000 lux to 20,000 lux	3.0%Rdg
462	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chambers, Dry cabinet, De-humidifier @ ambient temperature	Using Temperature & Humidity Meter by Direct Method	5 % to 10 %	1.3%



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463	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Dial / Digital Meters (@ 10 °C to 60 ° C)	Using Temperature & Humidity Meter with Humidity Chamber by Comparison Method	30 % RH to 95 % RH	0.8% RH
464	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Dial / Digital Meters (@ 20 °C to 60 ° C)	Using Temperature & Humidity Meter with Humidity chamber by comparison Method	10 % RH to 95 % RH	0.80% RH
465	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Meters (Dial / Digital)	Using Humidity standard solution by direct method	0.5 % RH	0.33% RH
466	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Meters (Dial / Digital)	Using Humidity standard solution by direct method	5 % RH	0.33% RH
467	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Meters (Dial / Digital)	Using Humidity standard solution by direct method	95 % RH	0.81% RH
468	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Transmitter / Digital Humidity Meters	Using Class A RTD Sensor with Digital Indicator by Comparison Method	0 ° C to 60 ° C	0.18 ° C
469	THERMAL-TEMPERATURE	Glass Thermometer	Using Liquid Bath , SPRT with Digital Indicator by Comparison Method	-40 ° C to 200 ° C	0.18° C



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470	THERMAL-TEMPERATURE	Oil Bath , Low & High Temperature Bath,Dry Bath	Using SPRT with Digital Indicator by Direct Method	-100 ° C to 140 ° C	0.072° C
471	THERMAL-TEMPERATURE	Oil Bath , Low & High Temperature Bath,Dry Bath	Using SPRT with Digital Indicator by Direct Method	140 ° C to 650 ° C	0.08 ° C
472	THERMAL-TEMPERATURE	Oil Bath , Low & High Temperature Bath,Dry Bath	Using S- Type Thermo couple with Digital Indicator by Direct Method	650 ° C to 1200 ° C	1.49° C
473	THERMAL-TEMPERATURE	RTD , Thermocouples , Indicator with Sensor	Using Dry Temperature Bath, S Type Thermo couple with Digital Indicator by Comparison Method	1000 ° C to 1200 ° C	1.45° C
474	THERMAL-TEMPERATURE	RTD , Thermocouples , Indicator with Sensor	Using Dry Bath , SPRT with Digital Indicator by Comparison Method	140 ° C to 650 ° C	0.08 ° C
475	THERMAL-TEMPERATURE	RTD , Thermocouples , Indicator with Sensor	Using Dry Temperature Bath, SPRT with Digital Indicator by comparison Method	-45 ° C to 140 ° C	0.02° C



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476	THERMAL-TEMPERATURE	RTD , Thermocouples , Indicator with Sensor	Using Dry Temperature Bath , S- Type Thermo couple with Digital Indicator by Comparison Method	650 ° C to 1000 ° C	0.43 ° C
477	THERMAL-TEMPERATURE	RTD, Thermocouples, Indicator with sensor	Using Dry Temperature bath , SPRT with Digital indicator by comparison method	-100 ° C to -45 ° C	0.07° C
478	THERMAL-TEMPERATURE	RTD, Thermocouples, Indicator with sensor	Using LN2 and cryo bath by comparison method	-196 ° C	0.07° C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current, 1 kHz to 10 KHz	Using 8.5 digit DMM fluke 8508A	1 A to 10 A	0.09 % to 0.3 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current, 1 kHz to 10 KHz	Using 8.5 digit DMM fluke 8508A by direct method	1 A to 10 A	0.09 % to 0.3 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current, 1 kHz to 10 KHz	Using 8.5 digit DMM fluke 8508 A	10 mA to 1 A	0.05 % to 0.09 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current, 1 kHz to 10 KHz	Using 8.5 digit DMM fluke 8508 A by direct method	10 mA to 1 A	0.05 % to 0.09 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current, 50 Hz	Using Shunt with DMM .by direct method	30 A to 1000 A	0.5 % to 1.35 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current, 50 Hz to 1 kHz	Using 8½ DMM 8508 A Fluke, by Direct Method	100 µA to 20 A	0.05 % to 0.1 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current, 50 Hz to 1 kHz	Using 8½ DMM 8508A Fluke, Direct Method	20 µA to 100 µA	0.18 % to 0.05 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current, 50 Hz to 5 kHz	Using Shunt with DMM by V-I Method	1 A to 30 A	0.37 % to 0.5 %



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9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power, 1 Phase , 50 Hz @ 0.2 Lag 120V to 240 V, 0.1 A to 20 A	Using Digital Power Meter WT 210 by Direct Method	2.4 W to 960 W	0.5%
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power, 1 Phase , 50 Hz @ 0.5 Lag 120V to 240 V, 0.1 A to 20 A	Using Digital Power Meter WT 210 by Direct Method	6 W to 2.4 kW	0.5%
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power, 1 Phase , 50 Hz @ 0.8 Lead 120V to 240 V, 0.1 A to 20 A	Using Digital Power Meter WT 210 by Direct Method	9.6 W to 3.8 kW	0.23%
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power, 1 Phase , 50 Hz @ UPF 120V to 240 V, 0.01 A to 20 A	Using Digital Power Meter WT 210 by Direct Method	1.2 W to 4.8 kW	0.25%



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13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage, 1 KHz to 20 kHz	Using 8½ DMM 8508A/HP 3458 A , by Direct Method	100 V to 1000 V	0.016 % to 0.16 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage, 100 KHz to 1 MHz	Using 8½ DMM 8508A , by Direct Method	1 V to 10 V	0.08 % to 3.4 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage, 20 Hz to 100 kHz	Using 8½ DMM 8508A/HP 3458 A , by Direct Method	1 V to 100 V	0.016 % to 0.08 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage, 20 Hz to 100 kHz	Using 8½ DMM 8508A/HP 3458 A , by Direct Method	100 mV to 1 V	0.02 % to 0.08 %



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17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage, 50 Hz to 1 kHz	Using 8½ DMM 8508A/HP 3458A, by Direct Method	1 mV to 10 V	0.47 % to 0.01 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage, 50 Hz to 1 kHz	Using 8½ DMM 8508A/HP 3458 A , by Direct Method	10 V to 1000 V	0.01 % to 0.02 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage,50 Hz	Using HV Divider with DMM's, Sources and HV Probe with DMM by Direct Method/Comparison Method	1 kV to 5 kV	0.2%
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage,50 Hz	Using HV Divider with DMM's , Source & HV Probe with DMM by Direct Method / comparison Method	28 kV to 100 kV	2.3%



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21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage,50 Hz	Using HV Divider with DMM's , Source & HV Probe with DMM by Direct Method / comparison Method	5 kV to 28 kV	1.6 % to 2.8 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 5 kHz to 10 kHz	Using Calibrator Fluke 5700A with 50 Turns current coil	200 µA to 200 mA	0.26 % to 0.09 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 5 kHz to 10 kHz	Using Calibrator Fluke 5700A with 50 Turns current coil by direct method	200 µA to 200 mA	0.26 % to 0.09 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 5 kHz to 10 kHz	Using Calibrator Fluke 5520A with 50 Turns current coil	200 mA to 3 A	0.09 % to 3 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 5 kHz to 10 kHz	Using Calibrator Fluke 5520A with 50 Turns current coil by direct method	200 mA to 3 A	0.09 % to 3 %



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26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 10 Hz to 40 Hz	Using Calibrator Fluke 5700A By Direct Method	200 µA to 200 mA	0.12 % to 0.019 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 40 Hz to 1 KHz	Using Calibrator Fluke 5700A, By Direct Method	20 µA to 200 µA	0.11 % to 0.09 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 40 Hz to 5 KHz	Using Calibrator Fluke 5700A, By Direct Method	200 µA to 200 mA	0.09 % to 0.019 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 40 Hz to 5 KHz	Using Calibrator Fluke 5700A, By Direct Method	200 mA to 2 A	0.019 % to 0.13 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 45 Hz to 5 kHz	Using Calibrator Fluke 5520A with 50 Turns current coil	2 A to 20 A	0.07 % to 3.5 %



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31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 45 Hz to 5 kHz	Using Calibrator Fluke 5520A with 50 Turns current coil by direct method	2 A to 20 A	0.07 % to 3.5 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 5 kHz to 10 kHz	Using Calibrator Fluke 5520A with 50 Turns current coil	200 mA to 330 mA	0.093 % to 0.45 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 5 kHz to 10 kHz	Using Calibrator Fluke 5520A with 50 Turns current coil by direct method	200 mA to 330 mA	0.093 % to 0.45 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 50 Hz	Using current source current coil	120 A to 3000 A	0.5 % to 0.62 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current, 50 Hz	Using current source current coil by direct method	120 A to 3000 A	0.5 % to 0.62 %



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36	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current, 50 Hz	Using current source omicron	20 A to 120 A	0.5%
37	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current, 50 Hz	Using current source omicron by direct method	20 A to 120 A	0.5%
38	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current, 50 Hz to 1kHz	Using Calibrator Fluke 5700A with 50 Turns current coil	20 μ A to 200 μ A	0.5 % to 0.23 %
39	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current, 50 Hz to 1kHz	Using Calibrator Fluke 5700A with 50 Turns current coil by direct method	20 μ A to 200 μ A	0.5 % to 0.23 %
40	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Energy Active / Reactive Single & Three Phase, 40 V to 300 V, 0.05A to 20 A, 40 Hz to 70 Hz,0.25(lead/lag) to UPF	Using Three Phase Energy Source Direct Method	0.5 W to 6 kW	0.25 % to 0.3 %



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41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power, Single Phase, 50Hz @ 0.2 PF, 120V to 1000 V, 0.1 A to 20 A	Using Calibrator Fluke 5520 A Direct Method	2.4 W to 200 kW	1%
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power, Single Phase, 50Hz @ 0.5 PF, 120V to 1000 V, 0.1 A to 20 A	Using Calibrator Fluke 5520A Direct Method	6 W to 500 kW	0.5%
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power, Single Phase, 50Hz @ 0.8 PF, 120V to 1000 V, 0.1 A to 20 A	Using Calibrator Fluke 5520A Direct Method	9.6 W to 800 kW	0.23%
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power, Single Phase, 50Hz @ UPF, 120V to 1000 V, 0.01 A to 20 A	Using Calibrator Fluke 5520A Direct Method	0.01 w to 4.8 kW	0.12%
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power, Single Phase, 50Hz @ UPF, 120 V to 1000 V, 0.01 A to 20 A	Using Calibrator Fluke 5520A Direct Method	4.8 kW to 1 MW	0.8%



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46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage, 10 Hz to 1 kHz	Using Calibrator Fluke 5520A Direct Method	200 V to 1000 V	0.06 % to 0.02 %
47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage, 10 Hz to 50 kHz	Using Calibrator fluke 5700A by Direct Method	2 mV to 20 mV	0.33 % to 0.041 %
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage, 10 Hz to 50 kHz	Using calibrator fluke 5700A by direct method	20 mV to 200 mV	0.09 % to 0.043 %
49	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage, 10 Hz to 50 kHz	Using calibrator fluke 5700 A by Direct Method	200 mV to 100 V	0.07%
50	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage, 300 kHz to 1 MHz	Using Calibrator Fluke 5700A by Direct Method	2 mV to 20 mV	2.11 % to 0.2 %



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51	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage, 300 kHz to 1 MHz	Using Calibrator Fluke 5700 A by Direct Method	20 mV to 200 mV	0.54 % to 0.5 %
52	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage, 300 kHz to 1 MHz	Using Calibrator Fluke 5700A by direct method	200 mV to 20 V	0.5 % to 0.4 %
53	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage, 300 kHz to 500 kHz	Using Calibrator Fluke 5700 A by Direct Method	20 V to 30 V	0.9%
54	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage, 50 Hz to 1 kHz	Using Calibrator Fluke 5700A by V I Method	50 µV to 2 mV	1 % to 0.33 %
55	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage, 50 kHz to 300 kHz	Using Calibrator Fluke 5700A by Direct Method	2 mV to 20 mV	0.88 % to 0.071 %



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56	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage, 50 kHz to 300 kHz	Using Calibrator Fluke 5700A by Direct Method	20 mV to 200 mV	0.071 % to 0.043 %
57	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage, 50 kHz to 300 kHz	Using Calibrator Fluke 5700A by Direct Method	200 mV to 20 V	0.043 % to 0.4 %
58	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Harmonics @ 50 Hz	FLUKE 5520A Source, Direct Method	1 order to 39 order	0.2%
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt with DMM V-I Method	10 nA to 100 nA	0.46% to 0.08%
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM HP 3458A, by Direct Method	10µA to 100µA	0.0045%



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61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt with DMM V-I Method	100 A to 800 A	0.6% to 1%
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM HP 3458A by Direct Method	100 mA to 1 A	0.006% to 0.016%
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM HP 3458A by Direct Method	100µA to 100 mA	0.0045% to 0.0060%
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt with DMM V-I Method	100nA to 10µA	0.08% to 0.00049%
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt with DMM V-I Method	1A to 75A	0.016% to 0.08%



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66	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt with DMM V-I Method	75 A to 100 A	0.08% to 0.6%
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Power, 1V to 600V, 1 mA to 20 A	Using Digital Power Meter WT 210 by Direct Method	1 kW to 12 kW	0.45 % to 0.65 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Power, 1v to 600V, 1 mA to 20 A	Using Digital Power Meter WT 210 by Direct Method	1 mW to 10 W	0.1% to 0.08%
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Power, 1V to 600V, 1 mA to 20 A	Using Digital Power Meter WT 210 by Direct Method	10 W to 1 kW	0.08% to 0.45%
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM HP 3458A by Direct Method	0.5 mV to 100 mV	0.83% to 0.0011%



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71	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using HV Divider with DMMs by Direct Method	1 kV to 5 kV	0.2%
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM HP 3458A by Direct Method	100 mV to 1 V	0.0011% to 0.00061%
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM HP 3458A by Direct Method	10V to 1000V	0.00050% to 0.00080%
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½DMM HP 3458A by Direct Method	1V to 10V	0.00061% to 0.00050%
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using HV Divider with DMM by Direct Method	40 kV to 100 kV	1.7%



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76	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Source & HV Probe with DMM by Direct/Comparison Method	5 kV to 40 kV	2%
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Divider Method,Using 8½ DMM HP 3458A /8508A,	50 µV to 0.5 mV	0.7 % to 0.83 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5700A	1 mA to 100 mA	0.0070% to 0.0079%
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5700A by direct method	1 mA to 100 mA	0.0070% to 0.0079%
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5700A	10 µA to 100 µA	0.1% to 0.015%



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81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5700A by direct method	10 μ A to 100 μ A	0.1% to 0.015%
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5520	10 A to 20 A	0.064 % to 0.012 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5520 by direct method	10 A to 20 A	0.064 % to 0.012 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Reference 732B Decade meha Ohm Box by Direct Method	10 nA to 10 μ A	0.15%
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5700A	100 μ A to 1 mA	0.015 % to 0.0070 %



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86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5700A by direct method	100 μ A to 1 mA	0.015 % to 0.0070 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5700A	100 mA to 2 A	0.0079 % to 0.012 %
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5700A by direct method	100 mA to 2 A	0.0079 % to 0.012 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Current Source with current coil	120A to 3000A	0.65% to 1.2%
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Current Source with current coil by direct method	120A to 3000A	0.65% to 1.2%



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91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5520	2 A to 10 A	0.012 % to 0.064 %
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Fluke 5520 by direct method	2 A to 10 A	0.012 % to 0.064 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Current Source	20A to 120A	0.6% to
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Current Source by direct method	20A to 120A	0.6% to
95	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power, 1V to 1000 V, 1 mA to 1000 A	Using Calibrator Fluke 5520A with 50 Turns Current Coil Direct Method	1 kW to 1 MW	0.45 % to 0.65 %



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96	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power, 1V to 1000 V, 1mA to 1000 A	Using Calibrator Fluke 5520A with 50 Turns Current Coil Direct Method	10 W to 1 kW	0.08% to 0.45%
97	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power, 1V to 1000 V, 1mA to 1000 A	Using Calibrator Fluke 5520A with 50 Turns Current Coil Direct Method	1mW to 10 W	0.1% to 0.08%
98	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Calibrator Fluke 5700A by Direct Method	0.5 mV to 100 mV	0.19 % to 0.0016%
99	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Calibrator Fluke 5700A by direct method	10 V to 100 V	0.0009% to 0.0010%
100	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Calibrator Fluke 5700A by Direct Method	100 mV to 10 V	0.0016% to 0.0009%



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101	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Calibrator Fluke 5700A by Direct Method	100 V to 1000 V	0.0010% to 0.0011%
102	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Std. Resistors & Shunts by VI Method	0.001 Ohm to 0.1 Ohm	0.6% to 0.025%
103	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Standard Resistors & Shunts by VI Method	0.1 Ohm to 1 Ohm	0.025 % to 0.1 %
104	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Calibrator Fluke 5520A and DMM 3458 by VI Method	1 G ohm to 1 T ohm	1%
105	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Calibrator Fluke 5520A by Direct Method	1 MOhm to 10 MOhm	0.004% to 0.02%



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106	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Calibrator Fluke 5520 A by Direct Method	1 ohm to 10 ohm	0.1% to 00.02%
107	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Calibrator Fluke 5520A by Direct Method	10 MOhm to 300 MOhm	0.02% to 0.5%
108	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Calibrator Fluke 5520A by Direct Method	10 Ohm to 100 Ohm	0.02% to 0.005%
109	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Calibrator Fluke 5520A by Direct method	100 kOhm to 1 MOhm	0.004%
110	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Calibrator Fluke 5520A by Direct Method	100 Ohm to 100 kOhm	0.005% to 0.004%



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111	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Calibrator Fluke 5520 A by Direct Method	300 MOhm to 1 GOhm	0.5% to 1.8%
112	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Standard Resistors & Shunts by VI method	75 µohm	1%
113	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope, 0 to 130V (DC Signal)	Using Calibrator Fluke 5520A with 1.1 GHz option by Direct Method	1 mV to 55 Vp-p	0.2%
114	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope, 0 to 130V (DC Signal)	Using Calibrator Fluke 5520A with 1.1 GHz option by Direct Method	1 mV to 130 V	0.2%
115	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope, Band Width @ 50 kHz ref	Using Calibrator Fluke 5520A with 1.1GHz Option by Direct Method	50 kHz to 1 GHz	0.07%



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116	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope, Scope Amplitude Square Wave Signal, 10 Hz to 10 k Hz	Using Calibrator Fluke 5520A with 1.1GHz option by Direct Method	1 mV to 55 V	0.2%
117	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope, Time Marker	Using Calibrator Fluke 5520A with 1.1 GHz option by Direct method	1 ns to 1000 sec	0.0006% to 0.1%
118	ELECTRO-TECHNICAL-MISCELLANEOUS (Measure)	Capacitance, 1 kHz	Using LCR Meter by Direct / Comparison Method	1 pF to 100 pF	0.41% to 0.06%
119	ELECTRO-TECHNICAL-MISCELLANEOUS (Measure)	Capacitance, 1 kHz	Using LCR Meter by Direct/Comparison Method	100 nF to 100µF	0.06%
120	ELECTRO-TECHNICAL-MISCELLANEOUS (Measure)	Capacitance, 1 kHz	Using LCR Meter by Direct / Comparison Method	100 pF to 100 nF	0.06%
121	ELECTRO-TECHNICAL-MISCELLANEOUS (Measure)	Capacitance, 1 kHz	Using LCR Meter by Direct / Comparison Method	100µF to 100mF	0.5%



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122	ELECTRO-TECHNICAL-MISCELLANEOUS (Measure)	Inductance, 1 kHz	Using LCR Meter by Direct / Comparison Method	100 mH to 10 H	0.06% to 0.3%
123	ELECTRO-TECHNICAL-MISCELLANEOUS (Measure)	Inductance, 1 kHz	Using LCR Meter by Direct / Comparison Method	100µH to 100mH	0.24% to 0.06%
124	ELECTRO-TECHNICAL-MISCELLANEOUS (Measure)	Resistance	Using DMM 81/2 8508A by Direct method	1 ohm to 10 ohm	0.0017 % to 0.0021 %
125	ELECTRO-TECHNICAL-MISCELLANEOUS (Measure)	Resistance	Using DMM 8½ 8508 A by Direct Method	1 MOhm to 10 MOhm	0.002%
126	ELECTRO-TECHNICAL-MISCELLANEOUS (Measure)	Resistance	Using DMM 8½ 8508A by Direct Method	10 ohm to 100 ohm	0.0021 % to 0.0019 %
127	ELECTRO-TECHNICAL-MISCELLANEOUS (Measure)	Resistance	Using DMM 8½ 8508A by Direct Method	10 k Ohm to 100 k ohm	0.0010 % to 0.0011 %
128	ELECTRO-TECHNICAL-MISCELLANEOUS (Measure)	Resistance	Using DMM 8½ 8508A by Direct Method	10 MOhm to 100 MOhm	0.002 % to 0.012 %



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129	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance	Using 8½ DMM 8508A by Direct Method	100 kOhm to 1 MOhm	0.0011 % to 0.002 %
130	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance	Using DMM 8½ 8508A by Direct Method	100 ohm to 10 k Ohm	0.0019 % to 0.001 %
131	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance	Using DMM 8½ 8508A by Direct method	100 MOhm to 20 G ohm	0.012 % to 0.121 %
132	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance	Using DMM 8½ , Calibrator Fluke 5520A, V/I method	1mOhm to 10 Ohm	0.08% to 0.0025%
133	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance	Using Fluke Calibrator & 8½ DMM by VI Method	20 G ohm to 1 TOhm	1%
134	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance	Using DMM 8½ calibrator fluke 5520A V/I Method	75 µOhm to 1 mOhm	0.5%
135	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance, 1 kHz	Using LCR Meter	1 Ohm to 10 Ohm	0.1% to 0.025%



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136	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance, 1 kHz	Using LCR Meter by direct method	1 Ohm to 10 Ohm	0.1% to 0.025%
137	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance, 1 kHz	Using LCR Meter	10 Ohm to 100 Ohm	0.025% to 0.1%
138	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance, 1 kHz	Using LCR Meter by direct method	10 Ohm to 100 Ohm	0.025% to 0.1%
139	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance, 1 kHz	Using LCR Meter	100 Ohm to 10 kOhm	0.1% to 0.02%
140	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance, 1 kHz	Using LCR Meter by direct method	100 Ohm to 10 kOhm	0.1% to 0.02%
141	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance, 1 kHz - 100 kHz	Using LCR Meter	100 ohm to 10 k ohm	0.05%
142	ELECTRO-TECHNICAL-MISCELLANEO US (Measure)	Resistance, 1 kHz - 100 kHz	Using LCR Meter by direct method	100 ohm to 10 k ohm	0.05%



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143	ELECTRO-TECHNICAL-MISCELLANEOUS (Source)	Capacitance, 1 kHz	Using Calibrator Fluke 5520A, DCB by Direct Method	10 µF to 110 mF	0.5% to 1.3%
144	ELECTRO-TECHNICAL-MISCELLANEOUS (Source)	Capacitance, 1 kHz	Using Calibrator Fluke 5520A,DCB by direct method	220 pF to 10 µF	6% to 0.5%
145	ELECTRO-TECHNICAL-MISCELLANEOUS (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458A by Direct Method	1 kOhm	0.0015%
146	ELECTRO-TECHNICAL-MISCELLANEOUS (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458A by Direct Method	1 MOhm	0.0023%
147	ELECTRO-TECHNICAL-MISCELLANEOUS (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458 A by Direct Method	1 Ohm	0.011%
148	ELECTRO-TECHNICAL-MISCELLANEOUS (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458A by Direct Method	1.9 kOhm	0.0016%
149	ELECTRO-TECHNICAL-MISCELLANEOUS (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458A by Direct Method	1.9 MOhm	0.0024%



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150	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458A by Direct method	1.9 Ohm	0.0059%
151	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458A by Direct Method	10 kOhm	0.0014%
152	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458A by Direct Method	10 MOhm	0.0047%
153	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Discrete Resistance	Using calibrator Fluke 5700 with DMM 3458 A by Direct method	10 Ohm	0.0028%
154	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Discrete Resistance	Using Calibrator 5700 with DMM 3458A by Direct Method	100 kOhm	0.0016%
155	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458A by Direct	100 MOhm	0.0134%
156	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458A by Direct Method	100 Ohm	0.002 %



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157	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458A by Direct Method	19 kOhm	0.0014%
158	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458 A by Direct Method	19 MOhm	0.0055%
159	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458 A by Direct Method	19 Ohm	0.0032 %
160	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458A by Direct Method	190 kOhm	0.0016%
161	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Discrete Resistance	Using Calibrator Fluke 5700 with DMM 3458A by Direct Method	190 Ohm	0.002%
162	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Power Factor , Single phase	Using Calibrator Fluke 5520 A by Direct Method	0.2 Lag to Unity	0.002 pF
163	ELECTRO-TECHNICAL-MISCELLANEO US (Source)	Power Factor , Single phase	Using Calibrator Fluke 5520A by Direct Method	0.2 lead to unity	0.002 pF



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164	ELECTRO-TECHNICAL-MISCELLANEOUS (Source)	Power Factor , Three phase	Using Edutech Energy source by direct method	0.25 Lag to Unity	0.008 pF
165	ELECTRO-TECHNICAL-MISCELLANEOUS (Source)	Power Factor , Three phase	Using Edutech energy source by direct method	0.25 Lead to Unity	0.008 pF
166	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (comparison)	Attenuation (Attenuator/Signal Generator) 1 kHz to 18 GHz	Using Multimeter & Power Meter method	1 dB to 70 dB	0.086 dB to 0.14 dB
167	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (comparison)	Attenuation (Attenuator/Signal Generator) 10 MHz to 18 GHz	Using Power Meter , Spectrum Analyzer Method	70 dB to 110 dB	0.14 dB to 0.50 dB
168	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (comparison)	Attenuation, 1 kHz to 18 GHz	Using RF Reference Source 9640A LPNX Signal Generator-Attenuator-8494B, 8496B Multimeter & Power Meter Method	1 dB to 70 dB	0.026 dB to 0.14 dB



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169	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (comparison)	Frequency	Using Signal Generator , RF Reference Source by Direct Method	1 mHz to 10 Hz	10 μHz to 90 μHz
170	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Comparison)	Power (Signal Generator , RF Reference Source) 1 kHz to 18 GHz	Using Multimeter , Power Meter , Spectrum Analyzer Method	-60 dBm to 13 dBm	0.17 dB to 0.24 dB
171	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (comparison)	Power (Signal Generator , RF Reference Source) 10 MHz to 18 GHz	Using Power Meter , Spectrum Analyzer Method	-60 dBm to -100 dBm	0.17 dB to 0.65 dB
172	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Frequency (Signal Generator , RF Reference Source)	Using Frequency counter, signal Analyzer, Direct Method without locking to Rubidium Standard	10 Hz to 29.999 GHz	90 μHz to 500 Hz



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173	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Reflection Coefficient Maury Microwave Mismatch Test Set 1 kHz to 18 GHz	Using Network Analyzer - ZVB20 by direct method using Cal kit Z270 by Network Analyzer Method	0.024 to 0.33	0.032 rho
174	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Spectral Purity(THD) No. of harmonics (n=3 to 10), frequency 10 Hz to 2.9GHz	Using Spectrum Analyzer FSV-30 Upto 30 GHz by Direct Method	0.17 % to 3.19 %	0.03 % to 0.2 %
175	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	3 dB Bandwidth, (Filter, Power meter, Power Sensor - E 4412A)	Using RF Reference Source - 9640ALPNX Signal Generator by Direct Method	Upto 18 GHz	0.5%
176	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Modulation AM CW: 100 kHz to 3.9GHz Modulation Rate 1 kHz to 10 kHz AM Depth	Using Rhode & Schwarz Signal/ Spectrum Analyzer FSV 30, Modulation analyzer HP 8901B as transfer by Relative Sideband Amplitude Method	1 % to 98 %	0.2 % to 2 %



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177	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (source)	Modulation FM CW : 100 kHz to 25 GHz Modulation Rate 50 Hz to 267 kHz FM Deviation	Using Rohde & Schwarz Signal/ Spectrum Analyzer FSV30 by Bessel Function Method	50 Hz to 4 MHz	0.1%
178	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Modulation, FM , CW : 100 kHz to 25 GHz, Modulation Rate : 50 Hz to 267 kHz, FM Deviation	By Bessel Function Method		0.1%
179	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Calibration of temperature indicator / controller / recorder - L Type	Using DMM 8½ 3458A DC mV Measurement method	-200°C to 900°C	0.08°C
180	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Calibration of temperature indicator / controller / recorder - N Type	Using 8½ DMM 3458 A DC mC measurement method	-200°C to 1300°C	0.07°C
181	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Calibration of temperature indicator / controller / recorder - RTD	Resistance method	-200°C to 800°C	0.02°C



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182	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Calibration of temperature indicator / controller / recorder - U Type	Using 8½ DMM HP 3458A DC mV Measurement Method	-200°C to 400°C	0.07°C
183	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Calibration of temperature indicator / controller / recorder - B Type	Using DMM 8½ 3458A DC mV measurement method	600°C to 1800°C	0.5°C
184	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Calibration of temperature indicator / controller / recorder - E Type	Using DMM 8½ 3458A DC mV Measurement Method	-200°C to 1000°C	0.08°C
185	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Calibration of temperature indicator / controller / recorder - J Type	Using DMM 8½ 3458A DC mV measurement method	-200°C to 1200°C	0.06°C
186	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Calibration of temperature indicator / controller / recorder - K Type	Using DMM 8½ 3458A DC mV Measurement Method	-200°C to 1372°C	0.05°C



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187	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Calibration of temperature indicator / controller / recorder - R & S Type	Using DMM 8½ 3458A DC mV measurement method	0 to 1750°C	0.07°C
188	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Calibration of temperature indicator / controller / recorder - T Type	Using 8½ DMM 3458A DC mV measurement method	-200°C to 400°C	0.1°C
189	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	(Calibration of temperature indicator/controller / recorder) Thermocouple - B Type	Using 5700 Calibrator DC mV Measurement Method	600°C to 1800°C	0.5°C
190	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	(Calibration of temperature indicator/controller / recorder) Thermocouple - E Type	Using 5700 Calibrator DC mV measurement method	-200°C to 1000°C	0.08°C
191	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	(Calibration of temperature indicator/controller / recorder) Thermocouple - J Type	Using 5700 Calibrator DC mV measurement method	-200 °C to 1200°C	0.06°C



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192	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	(Calibration of temperature indicator/controller / recorder) Thermocouple - K Type	Using 5700 Calibrator DC mV measurement Method	-200 °C to 1372°C	0.06°C
193	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	(Calibration of temperature indicator/controller / recorder) Thermocouple - L Type	Using 5700 calibrator DC mV Measurement Method	-200°C to 900°C	0.08°C
194	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	(Calibration of temperature indicator/controller / recorder) Thermocouple - N Type	Using 5700 Calibrator DC mV Measurement Method	-200°C to 1300°C	0.07°C
195	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	(Calibration of temperature indicator/controller / recorder) Thermocouple - R Type & S Type	Using 5700 Calibrator DC mV Measurement method	0°C to 1750°C	0.07°C
196	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	(Calibration of temperature indicator/controller / recorder) Thermocouple - RTD	Using Resistance Method	-200°C to 800°C	0.07°C



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197	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	(Calibration of temperature indicator/controller / recorder) Thermocouple - T Type	Using 5700 Calibrator DC mV Measurement method	-200 °C to 400°C	0.1°C
198	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	(Calibration of temperature indicator/controller / recorder) Thermocouple - U Type	Using 5700 calibrator DC mV measurement method	-200°C to 400°C	0.07°C
199	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Timer by Direct method	100 msec to 9999 sec	0.1 m sec to 0.08 sec
200	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Timer by Direct Method	9999 sec to 86400 sec	0.08 sec to 50 sec
201	FLUID FLOW-FLOW MEASURING DEVICES	Liquid Flow Meter	Using Ultra Sonic Flow Meter by Comparison Method	1.0 m3/hr to 350 m3/ hr	0.62%



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Laboratory Name :

TRANSCAL, #100, 10TH CROSS, BETWEEN SAMPIGE & MARGOSA ROAD, BENGALURU, KARNATAKA, 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)(±)
202	MECHANICAL-ACCELERATION AND SPEED	Speed (Non contact) Centrifuge	Digital Tachometer, Procedure based on SANAS TR 45-1 & 2.	10000 to 20000 rpm	0.06 %
203	MECHANICAL-ACCELERATION AND SPEED	Speed (Centrifuge)	Digital tachometer, Procedure based on SANAS TR 45-1 & 2.	12 to 10000 rpm	1.5 % to 0.06 %
204	MECHANICAL-ACCELERATION AND SPEED	Vibration Tester / Shaker Frequency range: 10 Hz to 6800 Hz	Accelerometer, Procedure based on ISO 16063.	1 to 40 g	3.2 %
205	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate	Using Liver Dial Gauge by direct method	180 x 120 x 110 mm	10.8µm
206	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate	Using Liver Dial Gauge, IS 2554, IS 6973	180 x 120 x 110 mm	10.8µm
207	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Co-axility)	Using Straight & Taper Mandrels, Dial Gauge by Comparison Method	0 to 500 mm	8.9µm



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208	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Co-axiality)	Using Straight & Taper Mandrels, Dial Gauge. IS 5980	0 to 500 mm	8.9µm
209	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Digital) LC : 10 µm	Using Gauge Block Set , Caliper Checker	0 to 1000 mm	10.3µm
210	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Digital) LC : 10 µm	Using Gauge Block Set , Caliper Checker by Comparison Method	0 to 1000 mm	10.3µm
211	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Digital) LC : 10 µm	Using Gauge Block Set , Caliper Checker	0 to 600 mm	9.8µm



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212	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Digital) LC : 10 µm	Using Gauge Block Set , Caliper Checker by Comparison Method	0 to 600 mm	9.8µm
213	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (vernier, dial, digital) L.C. 0.01 mm	Using Gauge Block Set , Caliper Checker	0 to 2000 mm	12µm
214	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (vernier, dial, digital) L.C. 0.01 mm	Using Gauge Block Set , Caliper Checker by Comparison Method	0 to 2000 mm	12µm
215	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square (Squareness)	Using Granite Square & Slip Gauge	Up to 400 mm	6.2µm



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216	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square (Squareness)	Using Granite Square & Slip Gauge by direct method	Up to 400 mm	6.2µm
217	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Mech / Electronic / Digital) LC : 1 µm	Using Gauge Block Set	0 to 150 mm	1.7µm
218	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Mech / Electronic / Digital) LC : 1 µm	Using Gauge Block Set by Comparison Method	0 to 150 mm	1.7µm
219	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Mech / Electronic / Digital) LC : 1 µm	Using Gauge Block Set	> 150 to 450 mm	2.0µm



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220	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Mech / Electronic / Digital) LC : 1 µm	Using Gauge Block Set by Comparison Method	> 150 to 450 mm	2.0µm
221	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Mech / Electronic / Digital) LC : 1 µm	Using Gauge Block Set	0 mm to 1000 mm	8.1µm
222	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Mech / Electronic / Digital) LC : 1 µm	Using Gauge Block Set by Comparison Method	0 mm to 1000 mm	8.1µm
223	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Mech / Electronic / Digital) LC : 10 µm	Using Gauge blocks	0 to 2000 mm	9.0µm



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224	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Mech / Electronic / Digital) LC : 10 µm	Using Gauge blocks by Comparison Method	0 to 2000 mm	9.0µm
225	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) LC: 0.1 µm	Using Gauge Blocks/Caliper Checker	0 to 1000 mm	8.9µm
226	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) LC: 0.1 µm	Using Gauge Blocks/Caliper Checker by Comparison Method	0 to 1000 mm	8.9µm
227	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) LC: 10 µm	Using Gauge Block Set and Caliper Checker	0 mm to 1000 mm	8.7µm



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228	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) LC: 10 µm	Using Gauge Block Set and Caliper Checker by Comparison Method	0 mm to 1000 mm	8.7µm
229	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) L.C:10µm	Gauge blocks/ Caliper Checker	0 to 600	8.0um
230	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) L.C:10µm	Gauge blocks/ Caliper Checker by Comparison Method	0 to 600	8.0um
231	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge/Parallels	Using Electronic Level	Up to 2000 mm	16.8µm



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232	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge/Parallels	Using Electronic Level by direct method	Up to 2000 mm	16.8µm
233	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic Level	3 m X 2 m	1.3 (Sqrt (L+W)/100)L = Length in mm, W = Width in mm
234	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic Level by direct method	3 m X 2 m	1.3 (Sqrt (L+W)/100)L = Length in mm, W = Width in mm
235	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V- Block (Parallelism,Symmetry)	Using Lever Dial Gauge & Mandrel	300 x 125 x 200 mm	4.4µm



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236	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V- Block (Parallelism,Symmetry)	Using Lever Dial Gauge & Mandrel by direct method	300 x 125 x 200 mm	4.4µm
237	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Micrometer L.C. 0.0001 mm	Using Mandrels & Master Cylinders, MOY/SCMI/9	0 to 100 mm	2.2µm
238	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Micrometer L.C. 0.0001 mm	Using Mandrels & Master Cylinders, MOY/SCMI/9 by direct method	0 to 100 mm	2.2µm
239	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Comparators	Using K grade Gauge Blocks by Direct Method	0 to 100 mm	0.03µm
240	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector Angle LC : 14 sec	Using Angle Gauge Blocks	0 ° to 360 °	3.4min
241	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector Length LC : 1µm	Using Glass Scale	0 - 300 mm	6.0µm



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242	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector Magnification	Using Angle Gauge Blocks/Glass Scale	10 X to 100 X	0.1%
243	MECHANICAL-PRESSURE INDICATING DEVICES	Altimeter Chamber	Digital Barometer, Procedure based on OIML R 97 guidelines & AN 4528. (published paper)	30 to 915 mbar	3.0 mbar
244	MECHANICAL-PRESSURE INDICATING DEVICES	Altimeter Chamber	Digital Barometer, Procedure based on OIML R 97 guidelines & AN 4528. (published paper)	30 mbar to 915 mbar	3.0 mbar
245	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analogue Pressure Gauges , Differential Pressure Gauges,Transducers /Transmitters & Switches	Digital Pressure Gauge with pressure pump. Procedure based on DKD-R 6-1.	20 to 40 bar	0.016 %
246	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analogue Pressure Gauges , Differential Pressure Gauges,Transducers /Transmitters & Switches	Digital Pressure Gauge with pressure pump. Procedure based on DKD-R 6-1.	20 bar to 40 bar	0.016 %



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247	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analogue Pressure Gauges ,Differential Pressure Gauges, Transducers/Transmitters & Switches.	Digital Pressure Gauge using hydraulic comparator pump Based on DKD-R6-1	40 to 700 bar	0.023 % rdg.
248	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analogue Pressure Gauges ,Differential Pressure Gauges, Transducers/Transmitters & Switches.	Digital Pressure Gauge using hydraulic comparator pump Based on DKD-R6-1	40 bar to 700 bar	0.023 % rdg.
249	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (hydraulic) Digital/Analogue Pressure Gauges , Differential Pressure Gauges,Transducers /Transmitters & Switches	Digital Pressure Gauge with hydraulic comparator pump. Procedure based on. DKD-R 6-1.	700 to 1000 bar	0.02 %
250	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (hydraulic) Digital/Analogue Pressure Gauges , Differential Pressure Gauges,Transducers /Transmitters & Switches	Digital Pressure Gauge with hydraulic comparator pump. Procedure based on. DKD-R 6-1.	700 bar to 1000 bar	0.02 %



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251	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (pneumatic) Digital /Analogue Pressure Gauges , Differential Pressure Gauge, Transducers/Transmitters, Switches	Digital Pressure Gauge with uncertainty of 0.0031 bar and pneumatic pump. Procedure based on DKD-R 6-1	2 to 20 bar	0.043 % rdg.
252	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (pneumatic) Digital /Analogue Pressure Gauges , Differential Pressure Gauge, Transducers/Transmitters, Switches	Digital Pressure Gauge with uncertainty of 0.0031 bar and pneumatic pump. Procedure based on DKD-R 6-1	2 bar to 20 bar	0.043 % rdg.
253	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (pneumatic) Digital /Analogue Pressure Gauges ,Differential Pressure Gauge, Transducers/Transmitters, Switches	Digital Pressure Gauge with pneumatic pump. Procedure based on DKD-R 6-1	100 mbar to 2 bar	0.045 % rdg.
254	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (pneumatic) Digital/Analogue Pressure Gauges , Differential Pressure Gauges,Transducers /Transmitters , Switches	Digital Pressure Gauge with pneumatic pump. Procedure based on DKD-R 6-1.	0 to 10 mbar	0.93 %



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255	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (pneumatic) Digital/Analogue Pressure Gauges , Differential Pressure Gauges,Transducers /Transmitters , Switches	Digital Pressure Gauge with pneumatic pump. Procedure based on DKD-R 6-1	10 to 100 mbar	0.06 %
256	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (pneumatic) Digital/Analogue Pressure Gauges , Differential Pressure Gauges,Transducers /Transmitters , Switches	Digital Pressure Gauge with pneumatic pump. Procedure based on DKD-R 6-1	10 mbar to 100 mbar	0.06 %
257	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Digital/Analogue Vacuum Gauges , Transducers/Transmitters, Switches	Digital Pressure Gauge with pneumatic pressure pump. Procedure based on ISO 3567 & ISO 27893.	0 to (-) 0.9 bar	0.22 % rdg.
258	MECHANICAL-TORQUE GENERATING DEVICES	Torque, Torque Wrench , Torque Driver, Type-I Class B,C,D,E Type II, Class A,B,D,E	Using Torque sensors of Various capacities, Torque Calibration ring as per Based on ISO6789	0.1 Nm to 10 Nm	0.89%



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259	MECHANICAL-TORQUE GENERATING DEVICES	Torque, Torque Wrench , Torque Driver, Type-I Class B,C,D,E Type II, Class A,B,D,E	Using Torque sensors of Various capacities, Torque Calibration ring as per Based on ISO6789	20 Nm to 200 Nm	0.43% rdg
260	MECHANICAL-TORQUE GENERATING DEVICES	Torque, Torque Wrench , Torque Driver, Type-I Class B,C,D,E Type II, Class A,B,D,E	Using Torque sensors of Various capacities, Torque Calibration ring as per Based on ISO6789	10 Nm to 20 Nm	0.35% rdg
261	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine Compression	Using Force Proving Instruments as per IS 1828-1	20N to 10 kN and to 20 kN to 1000 kN	0.52%
262	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine Tension	Using Force Proving Instruments as per IS 1828-1	20 N to 10 kN and to 20 kN to 100 kN	0.29%
263	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 1 and Coarser $d \geq 0.0001$ mg	Using E1 Class Standard Weights 1 mg to 20 kg as per OIML R-76	1 mg to 2 g	0.0035mg



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264	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 1 and Coarser $d \geq 0.001$ mg	Using E1 Class Standard Weights 1 mg to 20 kg as per OIML R-76	1 mg to 20 g	0.007mg
265	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 1 and Coarser $d \geq 0.001$ mg	Using E1 Class Standard Weights 1 mg to 20 kg as per OIML R-76	1 mg to 5 g	0.005mg
266	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 1 and Coarser $d \geq 0.01$ mg	Using E1 Class Standard Weights 1 mg to 20 kg as per OIML R-76	1 mg to 1 kg	0.2mg
267	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 1 and Coarser $d \geq 0.01$ mg	Using E1 Class Standard Weights 1 mg to 20 kg as per OIML R-76	1 mg to 200 g	0.03mg
268	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 1 and Coarser $d \geq 0.01$ mg	Using E1 Class Standard Weights 1 mg to 20 kg as per OIML R-76	1 mg to 50 g	0.02mg
269	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 1 and Coarser $d \geq 0.01$ mg	Using E1 Class Standard Weights 1 mg to 20 kg as per OIML R-76	1 mg to 500 g	0.1mg
270	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 1 and Coarser $d \geq 1$ mg	Using E1 Class Standard Weights 1 mg to 20 kg as per OIML R-76	500 mg to 20 kg	7mg



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271	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 1 and Coarser $d \geq 1$ mg	Using E1 Class Standard Weights 1 mg to 20 kg as per OIML R-76	500 mg to 5 kg	1mg
272	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 2 and Coarser $d \geq 1$ g	Using E2 and F1 class up to 1000 kg as per OIML R-76	500 mg to 150 kg	1g
273	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 2 and Coarser $d \geq 100$ g	Using E2 and F1 class up to 1000 kg as per OIML R-76	1 kg to 1000 kg	100g
274	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 2 and Coarser $d \geq 100$ g	Using E2 and F1 class up to 1000 kg as per OIML R-76	2 kg to 3000 kg	500g
275	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 2 and Coarser $d \geq 100$ mg	Using E2 and F1 class up to 1000 kg as per OIML R-76	500 mg to 50 kg	100mg
276	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 2 and Coarser $d \geq 20$ g	Using E2 and F1 class up to 1000 kg as per OIML R-76	1 kg to 300 kg	20g
277	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chambers , Climatic Chambers (At Temp : 10 ° C to 60 ° C)	Using Temperature & Humidity Meter by Direct Method	10 % RH to 95 % RH	0.98% RH



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278	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chambers, Dry cabinet, De-humidifier @ ambient temperature	Using Temperature & Humidity Meter by Direct Method	5 % to 10 %	1.3%
279	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Dial / Digital Meters (@ 10 °C to 60 ° C)	Using Temperature & Humidity Meter with Humidity Chamber by Comparison Method	30 % RH to 95 % RH	0.8% RH
280	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Dial / Digital Meters (@ 20 °C to 60 ° C)	Using Temperature & Humidity Meter with Humidity chamber by comparison Method	10 % RH to 95 % RH	0.80% RH
281	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Meters (Dial / Digital)	Using Humidity standard solution by direct method	0.5 % RH	0.33% RH
282	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Meters (Dial / Digital)	Using Humidity standard solution by direct method	5 % RH	0.33% RH
283	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Meters (Dial / Digital)	Using Humidity standard solution by direct method	95 % RH	0.81% RH
284	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Transmitter / Digital Humidity Meters	Using Class A RTD Sensor with Digital Indicator by Comparison Method	0 ° C to 60 ° C	0.18 ° C



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285	THERMAL-TEMPERATURE	Incubators & Autoclave (for Non Medical purpose) Thermal Chambers / Ovens , Water Bath , Furnace	Using S Type Thermo couple with Digital Indicator by Direct Method	650 ° C to 1000 ° C	1.96 ° C
286	THERMAL-TEMPERATURE	Incubators & Autoclave (for Non Medical purpose), Thermal Chambers / Ovens , Water Bath , Furnace	Using S Type Thermo couple with Digital Indicator by Direct Method	1000 ° C to 1200 ° C	1.96 ° C
287	THERMAL-TEMPERATURE	Incubators & Autoclave (for Non Medical purpose), Thermal Chambers / Ovens , Water Bath , Furnace	Using SPRT with Digital Indicator by Direct Method	200 ° C to 650 ° C	0.55 ° C
288	THERMAL-TEMPERATURE	Incubators & Autoclave(for Non Medical purpose), Thermal Chambers / Ovens , Water Bath , Furnace	Using SPRT with Digital Indicator by Direct Method	-100 ° C to 200 ° C	0.56 ° C
289	THERMAL-TEMPERATURE	Oil Bath , Low & High Temperature Bath,Dry Bath	Using SPRT with Digital Indicator by Direct Method	-100 ° C to 140 ° C	0.072° C



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290	THERMAL-TEMPERATURE	Oil Bath , Low & High Temperature Bath,Dry Bath	Using SPRT with Digital Indicator by Direct Method	140 ° C to 650 ° C	0.08 ° C
291	THERMAL-TEMPERATURE	Oil Bath , Low & High Temperature Bath,Dry Bath	Using S- Type Thermo couple with Digital Indicator by Direct Method	650 ° C to 1200 ° C	1.49° C
292	THERMAL-TEMPERATURE	RTD , Thermocouples , Indicator with Sensor	Using Dry Temperature Bath, S Type Thermo couple with Digital Indicator by Comparison Method	1000 ° C to 1200 ° C	1.45° C
293	THERMAL-TEMPERATURE	RTD , Thermocouples , Indicator with Sensor	Using Dry Bath , SPRT with Digital Indicator by Comparison Method	140 ° C to 650 ° C	0.08 ° C
294	THERMAL-TEMPERATURE	RTD , Thermocouples , Indicator with Sensor	Using Dry Temperature Bath, SPRT with Digital Indicator by comparison Method	-45 ° C to 140 ° C	0.02° C
295	THERMAL-TEMPERATURE	RTD , Thermocouples , Indicator with Sensor	Using Dry Temperature Bath , S- Type Thermo couple with Digital Indicator by Comparison Method	650 ° C to 1000 ° C	0.43 ° C



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296	THERMAL-TEMPERATURE	RTD, Thermocouples, Indicator with sensor	Using Dry Temperature bath , SPRT with Digital indicator by comparison method	-100 ° C to -45 ° C	0.07° C
297	THERMAL-TEMPERATURE	RTD, Thermocouples, Indicator with sensor	Using LN2 and cryo bath by comparison method	-196 ° C	0.07° C

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