



**National Accreditation Board for
Testing and Calibration Laboratories**

CERTIFICATE OF ACCREDITATION

N.C.L. PVT. LTD.

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

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

for its facilities at

B.D. NAGAR, MEERUT ROAD, GHAZIABAD, UTTAR PRADESH, INDIA

in the field of

CALIBRATION

Certificate Number: CC-2213

Issue Date: 29/01/2020

Valid Until:

28/01/2022

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)

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 N.C.L. PVT. LTD., B.D. NAGAR, MEERUT ROAD, GHAZIABAD, UTTAR PRADESH ,
INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number CC-2213 Page No. : 1 / 87
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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@10Hz to 10kHz	Using Fluke 8588A by Direct Method	1 A to 10 A	0.04% to 0.09%
2	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current@10Hz to 10kHz	Using Fluke 8588A by Direct Method	1 mA to 10 mA	0.06% to 0.08%
3	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current@10Hz to 10kHz	Using Fluke 8588A By Direct Method	10 µA to 100 µA	0.2% to 0.03%
4	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current@10Hz to 10kHz	Using Fluke 8588A by Direct Method	10 A to 30 A	0.09% to 0.07%
5	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current@10Hz to 10kHz	Using Fluke 8588A by Direct Method	10 mA to 100 mA	0.08%



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6	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current@10Hz to 10kHz	Using Fluke 8588A By Direct Method	100 µA to 1 mA	0.03% to 0.06%
7	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current@10Hz to 10kHz	Using Fluke 8588A by Direct Method	100 mA to 1 A	0.08% to 0.041%
8	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current@10kHz to 30kHz	Using Fluke 8588A by Direct Method	1 mA to 10 mA	0.06% to 0.07%
9	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current@10kHz to 30kHz	Using Fluke 8588A by Direct Method	10 µA to 100 µA	0.2% to 0.02%
10	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current@10kHz to 30kHz	Using Fluke 8588A by Direct Method	10 mA to 100 mA	0.07% to 0.08%



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11	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current@10kHz to 30kHz	Using Fluke 8588A by Direct Method	100 µA to 1 mA	0.03% to 0.06%
12	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 10Hz to 45Hz	Using Fluke Calibrator 5502A By Direct Method	1.1 A to 2.99 A	0.17% to 0.23%
13	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 10Hz to 45Hz	Using Fluke Calibrator 5502A By Direct Method	1.9 mA to 3.29 mA	0.11%
14	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 10Hz to 45Hz	Using Fluke Calibrator 5502A By Direct Method	3.29 mA to 1.1 A	0.11% to 0.17%
15	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 10Hz to 45Hz	Using Fluke Calibrator 5502A By Direct Method	33 µA to 330 µA	0.14% to 0.23%



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16	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 10Hz to 45Hz	Using Fluke Calibrator 5502A By Direct Method	330 µA to 1.9 mA	0.23% to 0.11%
17	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 1kHz o 30kHz	Using Fluke Calibrator 5502A By Direct Method	33 µA to 190 µA	0.14% to 0.21%
18	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 45Hz to 1kHz	Using Fluke Calibrator 5502A By Direct Method	1.1 A to 2.99 A	0.07%
19	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 45Hz to 1kHz	Using Fluke Calibrator 5502A By Direct Method	1.9 mA to 3.29 mA	0.14% to 0.23%
20	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 45Hz to 1kHz	Using Fluke Calibrator 5502A By Direct Method	11 A to 20 A	0.11% to 0.09%



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21	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 45Hz to 1kHz	Using Fluke Calibrator 5502A By Direct Method	2.99 A to 3.3 A	0.07% to 0.09%
22	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 45Hz to 1kHz	Using Fluke Calibrator 5502A By Direct Method	3.29 mA to 329 mA	0.14% to 0.21%
23	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 45Hz to 1kHz	Using Fluke Calibrator 5502A By Direct Method	3.3 A to 11 A	0.09% to 0.11%
24	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 45Hz to 1kHz	Using Fluke Calibrator 5502A By Direct Method	329 mA to 1.1 A	0.21% to 0.07%
25	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 45Hz to 1kHz	Using Fluke Calibrator 5502A By Direct Method	33 µA to 330 µA	0.1% to 0.2%



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26	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 45Hz to 1kHz	Using Fluke Calibrator 5502A By Direct Method	330 µA to 1.9 mA	0.14% to 0.23%
27	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current@1kHz to 30kHz	Using Fluke 5502 Calibrator by Direct Method	190 µA to 190 mA	0.14% to 0.22%
28	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current@1kHz to 30kHz	Using Fluke 5502 Calibrator by Direct Method	190 mA to 329 mA	0.11% to 0.23%
29	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current@45Hz to 100Hz	Using Fluke 5502 Calibrator with Current Coil by Direct Method	20 A to 400 A	0.16 to 0.14
30	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current@45Hz to 100Hz	Using Fluke 5502 Calibrator with current coil by Direct Method	400 A to 1000 A	0.14% to 0.17%
31	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Fluke 8588A By Direct Method	1 µA to 10 µA	0.5% to 0.05%



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32	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Fluke 8588A By Direct Method	1 A to 10 A	0.013% to 0.02%
33	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Fluke 8588A By Direct method	10 µA to 100 µA	0.05%
34	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Fluke 8588A By Direct Method	10 A to 20 A	0.02% to 0.07%
35	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Fluke 8588A By Direct Method	10 mA to 100 mA	0.005%
36	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Fluke 8588A By Direct Method	100 µA to 1 mA	0.05%
37	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Fluke 8588A By Direct Method	100 mA to 200 mA	0.005% to 0.004%
38	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Fluke Calibrator 5502A By Direct Method	100 µA to 330 µA	0.01%
39	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Fluke Calibrator 5502A By Direct Method	11 A to 20 A	0.07%
40	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Fluke Calibrator 5502A By Direct Method	2.9 A to 11 A	0.01% to 0.07%



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41	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Fluke Calibrator with Current Coil 5502A By Direct Method	20 A to 400 A	0.07% to 0.11%
42	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Fluke Calibrator 5502A By Direct Method	3.3 mA to 33 mA	0.01%
43	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Fluke Calibrator 5502A By Direct Method	33 µA to 100 µA	0.02% to 0.01%
44	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC current	Using Fluke Calibrator 5502A By Direct Method	33 mA to 330 mA	0.01%
45	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Fluke Calibrator 5502A By Direct Method	330 µA to 3.3 mA	0.01%
46	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Fluke Calibrator 5502A By Direct Method	330 mA to 2.9 A	0.01%
47	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Fluke Calibrator with Current Coil 5502A By Direct Method	400 A to 1000 A	0.11%
48	ELECTRO-TECHNICAL- ELECTRICAL EQUIPMENT (Measure)	AC Current@10kHz to 30kHz	Using Fluke 8588A by Direct Method	100 mA to 1 A	0.08% to 0.04%



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49	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Power/active Energy 50 Hz(-)0.1 PF to upf to0.1 PF to UPF(1-Phase and 3-Phase)4V to 600 V(0.1 A to 20 A)	Using Power Meter AC/DC by Direct Method	0.4 wh to 12 KWh	0.24% to 0.09%
50	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Volatge@10kHz to 100kHz	By Using Fluke 8588A By Direct Method	1 mV to 10 mV	1.4% to 0.04%
51	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Volatge@10kHz to 100kHz	Using Fluke 8588A By Direct Method	10 mV to 100 mV	0.04% to 0.013%
52	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Volatge@10kHz to 100kHz	By Using Fluke 8588A By Direct Method	100 mV to 1 V	0.013% to 0.02%
53	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Voltage@ 10kHz to 100kHz	By Using Fluke 8588A By Direct Method	1 V to 100 V	0.02%



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54	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Voltage@10 Hz to 10kHz	Using Fluke 8588A By Direct Method	1 mV to 10 mV	1.07% to 0.04%
55	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Voltage@10 Hz to 10kHz	Using Fluke 8588A By Direct Method	1 V to 100 V	0.008% to 0.009%
56	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Voltage@10 Hz to 10kHz	Using Fluke 8588A By Direct Method	10 mV to 100 mV	0.04% to 0.009%
57	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Voltage@10 Hz to 10kHz	Using Fluke 8588A By Direct Method	100 mV to 1 V	0.009% to 0.008%
58	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Voltage@10 Hz to 10kHz	Using Fluke 8588A By Direct Method	100 V to 1000 V	0.009%



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59	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC VoltageAt 10 KHz to 100 KHz	Using Fluke 8588A by Direct Method	100 V to 1000 V	0.01%
60	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Capacitance	Using Fluke 8588A By Direct Method	1 µF to 10 uF	0.08%
61	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Capacitance	Using Fluke 8588A By Direct Method	1 mF to 100 mF	0.08% to 0.09%
62	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Capacitance	Using Fluke 8588A By Direct Method	1 nF to 10 nF	0.2% to 0.05%
63	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Capacitance	Using Fluke 8588A By Direct Method	10 µF to 1 mF	0.08%



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64	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Capacitance	Using Fluke 8588A By Direct Method	10 nF to 100 nF	0.05%
65	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Capacitance	Using Fluke 8588A By Direct Method	100 nF to 1 µF	0.05%
66	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Current	Using Fluke 8588A By Direct Method	1 mA to 10 mA	0.05% to 0.005%
67	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Current	Using Fluke 8588A By Direct Method	200 mA to 1 A	0.004% to 0.013%
68	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Power (1phase)10 V to 1000 V(0.1 A to 20 A)	Using Power Meter AC/DC By Direct Method	1 W to 20 KW	0.03% to 0.06%



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69	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Resistance 2 Wire	Using Fluke 8588A By Direct/Simulation Method	10 M ohm to 100 M ohm	0.001% to 0.008%
70	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Resistance 2 Wire	Using Fluke 8588A By Direct Method	100 ohm to 1 k ohm	0.0009% to 0.0008%
71	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Using Fluke 8588A By Direct Method	1 mV to 100 mV	0.001% to 0.0002%
72	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Using Fluke 8588A By Direct Method	1 V to 10 V	0.0003% to 0.00009%
73	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Using Fluke 8588A By Direct Method	10 V to 100 V	0.00009% to 0.0005%



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74	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Using Fluke 8588A By Direct Method	100 mV to 1 V	0.0002% to 0.0003%
75	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Using Fluke 8588A By Direct Method	100 V to 1000 V	0.0005 to 0.0001
76	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance 2 wireDC	Using Fluke 8588A By Direct Method	1 G ohm to 10 G ohm	0.5%
77	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance 2 wireDC	Using Fluke 8588A By Direct Method	1 M ohm to 10 M ohm	0.001%
78	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance 2 wireDC	Using Fluke 8588A By Direct Method	1 ohm to 10 ohm	0.001%



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79	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance 2 wireDC	Using Fluke 8588A By Direct Method	10 ohm to 100 ohm	0.001% to 0.0009%
80	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance 2 wireDC	Using Fluke 8588A By Direct Method	100 k ohm to 1 M ohm	0.0008% to 0.0009%
81	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance 2 wireDC	Using Fluke 8588A By Direct Method	100 M ohm to 1 G ohm	0.008% to 0.05%
82	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance 2 wireDC	Using Fluke 8588A By Direct Method	100 ohm to 100 k ohm	0.0009% to 0.0008%
83	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance 4 wireDC	Using Fluke 8588A By Direct Method	1 ohm to 10 ohm	0.001%



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84	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance 4 wireDC	Using Fluke 8588A By Direct MEthod	10 ohm to 100 ohm	0.001% to 0.0009%
85	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance 4 wireDC	Using Fluke 8588A by Direct Method	100 ohm to 1 k ohm	0.0009% to 0.0008%
86	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Capacitance@100Hz	Using Fluke 5502 Calibrator by Direct Method	10.9 µF to 30 µF	0.2% to 0.4%
87	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Capacitance@100Hz	Using Fluke 5502 Calibrator by Direct Method	330 nF to 10.9 µF	0.1% to 0.2%
88	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Capacitance@1kHz	Using Fluke 5502 Calibrator by Direct Method	0.22 nF to 11 nF	0.9% to 0.2%
89	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Capacitance@1kHz	Using Fluke 5502 Calibrator by Direct Method	11 nF to 330 nF	0.2%



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90	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Capacitance@50Hz	Using Fluke 5502 Calibrator by Direct Method	30 μ F to 109 μ F	0.4% to 0.5%
91	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage@100kHz to 500MHz	Using Fluke Calibrator 5502A By Direct Method	0.33 V to 3.3 V	0.05% to 0.06%
92	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage@100kHz to 500MHz	Using Fluke Calibrator 5502A By Direct Method	1 mV to 30 mV	0.19% to 0.17%
93	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage@100kHz to 500MHz	Using Fluke Calibrator 5502A By Direct Method	30 mV to 300 mV	0.05%
94	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage@10Hz to 45Hz	Using Fluke Calibrator 5502A By Direct Method	0.33 V to 3 V	0.060% to 0.059%
95	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage@10Hz to 45Hz	Using Fluke Calibrator 5502A By Direct Method	1 mV to 30 mV	0.17% to 0.19%
96	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage@10Hz to 45Hz	Using Fluke Calibrator 5502A By Direct Method	3 V to 3.3 V	0.059% to 0.086%



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97	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage@10Hz to 45Hz	Using Fluke Calibrator 5502A By Direct Method	3.3 V to 30 V	0.086% to 0.056%
98	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage@10Hz to 45Hz	Using Fluke Calibrator 5502A By Direct Method	30 mV to 33 mV	0.059% to 0.17%
99	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage@10Hz to 45Hz	Using Fluke Calibrator 5502A By Direct Method	33 mV to 330 mV	0.059% to 0.058%
100	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage@10Hz to 45Hz	Using Fluke Calibrator 5502A By Direct Method	330 mV to 3.3 V	0.058% to 0.057%
101	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage@10kHz to 100kHz	Using Fluke Calibrator 5502A By Direct Method	0.33 V to 3.3 V	0.08% to 0.07%
102	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage@10kHz to 100kHz	Using Fluke Calibrator 5502A By Direct Method	1 mV to 30 mV	0.1% to 0.4%
103	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage@10kHz to 100kHz	Using Fluke Calibrator 5502A By Direct Method	3.3 V to 33 V	0.08%



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104	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage@10kHz to 100kHz	Using Fluke Calibrator 5502A By Direct Method	30 mV to 330 mV	0.1% to 0.8%
105	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage@10kHz to 100kHz	Using Fluke Calibrator 5502A By Direct Method	33 V to 330 V	0.08% to 0.06%
106	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage@45Hz to 10kHz	Using Fluke Calibrator 5502A By Direct Method	1 mV to 30 mV	0.11% to 0.14%
107	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage@45Hz to 10kHz	Using Fluke Calibrator 5502A By Direct Method	3.3 V to 33 V	0.05% to 0.05%
108	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage@45Hz to 10kHz	Using Fluke Calibrator 5502A By Direct Method	30 mV to 3.3 V	0.03% to 0.11%
109	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage@45Hz to 10kHz	Using Fluke Calibrator 5502A By Direct Method	33 V to 330 V	0.056% to 0.05%
110	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage@45Hz to 10kHz	Using Fluke Calibrator 5502A By Direct Method	330 V to 1000 V	0.056% to 0.05%



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111	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Capacitance	Using Fluke 5502A By Direct Method	1.1 mF to 3.3 mF	0.1% to 0.2%
112	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Capacitance	Using Fluke 5502 A by Direct Method	200 µF to 330 µF	0.9% to 0.2%
113	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Capacitance	Using Fluke 5502A By Direct Method	3.3 mF to 33 mF	0.2% to 0.4%
114	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Capacitance	Using Fluke 5502A By Direct Method	33 mF to 110 mF	0.4% to 0.1%
115	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Capacitance	Using Fluke 5502A By Direct Method	330 µF to 1.1 mF	0.2% to 0.1%
116	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC High Resistance 2 wire@0-5000 VDC	Using HV mega ohm Box by Direct Method	1 G ohm	4.6%
117	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC High Resistance 2 wire@0-5000 VDC	Using HV mega ohm Box by Direct Method	1 T ohm	2.3%



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118	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC High Resistance 2 wire@0-5000 VDC	Using HV mega ohm Box by Direct Method	10 G ohm	2.3%
119	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC High Resistance 2 wire@0-5000 VDC	Using HV mega ohm Box by Direct Method	100 G ohm	2.3%
120	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC High Resistance 2 wire@0-5000 VDC	Using HV mega ohm Box by Direct Method	2 G ohm	4.0%
121	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC High Resistance 2 wire@0-5000 VDC	Using HV mega ohm Box by Direct Method	20 G Ohm	3.6%
122	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC High Resistance 2 wire@0-5000 VDC	Using HV mega ohm Box by Direct Method	20 M ohm	3.6%
123	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC High Resistance 2 wire@0-5000 VDC	Using HV mega ohm Box by Direct Method	200 G ohm	2.3%
124	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC High Resistance 2 wire@0-5000 VDC	Using HV mega ohm Box by Direct Method	200 M ohm	3.6%



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125	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC High Resistance 2 wire@0-5000 VDC	Using HV mega ohm Box by Direct Method	500 G ohm	2.3%
126	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC High Resistance 2 wire@0-5000VDC	Using HV Mega ohm Box by Direct Method	2 M ohm	3.6%
127	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Power (1phase)1 V to 1000 V0.1 A to 20 A	Using Fluke 5502A Calibrator by Direct method	0.1 W to 20 KW	0.7% to 0.1%
128	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance 2 wire	Using Fluke 5502 Calibrator by Direct Method	1 M ohm to 3 M ohm	0.01% to 0.04%
129	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance 2 wire	Using Fluke 5502 Calibrator by Direct Method	1 ohm to 1 M ohm	0.01% to 0.01%
130	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC resistance 2 wire	Using Fluke 5502 Calibrator by Direct Method	10 M ohm to 30 M ohm	0.07% to 0.09%
131	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC resistance 2 wire	Using Fluke 5502 Calibrator by Direct Method	100 M ohm to 300 M ohm	0.1% to 0.5%



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132	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC resistance 2 wire	Using Fluke 5502 Calibrator by Direct Method	3 M ohm to 10 M ohm	0.04% to 0.07%
133	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC resistance 2 wire	Using Fluke 5502 Calibrator by Direct Method	30 M ohm to 100 M ohm	0.09% to 0.1%
134	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC resistance 2 wire	Using Fluke 5502 Calibrator by Direct Method	300 M ohm to 1100 M ohm	0.5% to 1.7%
135	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance 4 wire	Using Standard Resistance Box By Direct Method	1 K ohm	3.5%
136	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance 4 wire	Using Standard Resistance Box By Direct Method	1 m ohm	3.5%
137	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance 4 wire	Using Standard Resistance Box By Direct Method	1 ohm	3.5%
138	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance 4 wire	Using Fluke 5502 Calibrator by Direct Method	1 ohm to 1 K ohm	0.01%



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139	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance 4 wire	Using Standard Resistance Box By Direct Method	10 m ohm	3.5%
140	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance 4 wire	Using Standard Resistance Box By Direct Method	10 ohm	3.5%
141	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance 4 wire	Using Standard Resistance Box By Direct Method	100 μ ohm	0.02%
142	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance 4 Wire	Using Standard Resistance Box By Direct Method	100 m ohm	3.5%
143	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance 4 wire	Using Standard Resistance Box By Direct Method	100 ohm	3.5%
144	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance 4 wire	Using Standard Resistance Box By Direct Method	50 μ ohm	0.03%
145	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Voltage	Using Fluke 5502 A calibrator By direct Method	1 mV to 330 mV	0.0071% to 0.0069%



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146	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Voltage	Using Fluke Calibrator 5502A By Direct Method	3.3 V to 33 V	0.0060%
147	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Voltage	Using Fluke Calibrator 5502A By Direct Method	33 V to 330 V	0.0060% to 0.0066%
148	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Voltage	Using Fluke Calibrator 5502A By Direct Method	330 mV to 3.3 V	0.0069% to 0.0060%
149	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Voltage	Using Fluke Calibrator 5502A By Direct Method	330 V to 1000 V	0.0066% to 0.0065%
150	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Inductance	Using Standard Inductance Box by Direct Method	100 µH to 10 H	1.22%
151	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Vertical(Amplitude)	Using Fluke 5502A, SC600 Scope Option by Direct Method	0.1 mV to 2.49 mV	5.5% to 0.46%
152	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Vertical(Amplitude)	Using Fluke 5502A, SC600 Scope Option by Direct Method	11 V to 130 V	0.08% to 0.07%



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153	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Vertical(Amplitude)	Using Fluke 5502A, SC600 Scope Option by Direct Method	2.2 V to 11 V	0.06% to 0.08%
154	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Vertical(Amplitude)	Using Fluke 5502A, SC600 Scope Option by Direct Method	2.49 mV to 500 mV	0.46% to 0.05%
155	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Vertical(Amplitude)	Using Fluke 5502A, SC600 Scope Option by Direct Method	500 mV to 2.2 V	0.05% to 0.06%
156	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Vertical(Amplitude)Square Wave	Using Fluke 5502A, SC600 Scope Option by Direct Method	1.8 mV to 90 mV	1.9% to 0.39%
157	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Vertical(Amplitude)Square Wave	Using Fluke 5502A, SC600 Scope Option by Direct Method	30 V to 55 V	0.06% to 0.03%
158	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Vertical(Amplitude)Square Wave	Using Fluke 5502A, SC600 Scope Option by Direct Method	90 mV to 900 mV	0.39% to 0.05%
159	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Vertical(Amplitude)Square Wave	Using Fluke 5502A, SC600 Scope Option by Direct Method	900 mV to 30 V	0.05% to 0.06%



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160	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	OscilloscopeBandwidth (Leveling)	Using Fluke 5502A, SC600 Scope Option By Direct Method	1 MHz to 600 MHz (5mV to 5.5V)	3.9% to 4.1%
161	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	OscilloscopeHorizontal (Time Based)	Using Fluke 5502A, SC600 Scope Option By Direct Method	100 ns to 20 ms	0.03%
162	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	OscilloscopeHorizontal (Time Based)	Using Fluke 5502A, SC600 Scope Option By Direct Method	2 ns to 50 ns	0.05% to 0.02%
163	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	OscilloscopeHorizontal (Time Based)	Using Fluke 5502A, SC600 Scope Option By Direct Method	20 ms to 5 s	0.03% to 0.02%
164	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	OscilloscopeHorizontal (Time Based)	Using Fluke 5502A, SC600 Scope Option By Direct Method	50 ns to 100 ns	0.02% to 0.03%
165	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Power Active Only45 Hz to 50Hz(-)0.1 PF to (-)0.9 PF0.1 PF to UPF (1phase & 3phase)40V to 600 V0.1 A to 20 A	Using Fluke 5502 Calibrator By Direct Method	0.4 W to 12.0 KW	0.09% to 0.11%



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166	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Power Factor/Phase Angle50Hz , 240 Volt(Lead & Lag)	By Fluke 5502A Calibrator by Direct Method	0.1 pF to 1.0 pF	0.0029pF
167	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Resistance 4 W	Using Standard Resistance Box by Direct Metho	1 m ohm to 1 k ohm	3.71% to 1.75%
168	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature SimulationTemp Indicator/Controller/Dat a Logger/RecordsB - Type	Using Fluke 8588A By Direct/Simulation Method	600 °C to 1800 °C	0.06°C
169	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature SimulationTemp Indicator/Controller/Dat a Logger/RecordsE - Type	Using Fluke 8588A By Direct/Simulation Method	(-)250 °C to 1000 °C	0.06°C
170	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature SimulationTemp Indicator/Controller/Dat a Logger/RecordsJ- Type	Using Fluke 8588A By Direct/Simulation Method	(-)200 °C to 1200 °C	0.03°C
171	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature SimulationTemp Indicator/Controller/Dat a Logger/RecordsK - Type	Using Fluke 8588A By Direct/Simulation Method	(-)200 °C to 1200 °C	0.03°C



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172	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature SimulationTemp Indicator/Controller/Data Logger/RecordsN - Type	Using Fluke 8588A By Direct/Simulation Method	(-)200 °C to 1300 °C	0.03°C
173	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature SimulationTemp Indicator/Controller/Data Logger/RecordsR - Type	Using Fluke 8588A By Direct/Simulation Method	0 °C to 1750 °C	0.03°C
174	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature SimulationTemp Indicator/Controller/Data Logger/RecordsRTD (PRT-100)	Using Fluke 8588A By Direct/Simulation Method	(-)200 °C to 800 °C	0.061°C
175	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature SimulationTemp Indicator/Controller/Data Logger/RecordsS - Type	Using Fluke 8588A By Direct/Simulation Method	0 °C to 1750 °C	0.02°C
176	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature SimulationTemp Indicator/Controller/Data Logger/RecordsT - Type	Using Fluke 8588A By Direct/Simulation Method	(-)250 °C to 400 °C	0.04°C



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177	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature SimulationTemp Indicator/Controller/Data logger/Recorder/CalibratorB- Type	Using Fluke 5502A Calibrator by Direct method	600 °C to 1800 °C	0.5°C
178	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature SimulationTemp Indicator/Controller/Data logger/Recorder/CalibratorE- Type	Using Fluke 5502 Fluke Calibrator By direct Method	(-) 250 °C to 1000 °C	0.5°C
179	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature SimulationTemp Indicator/Controller/Data logger/Recorder/CalibratorJ-Type	Using Fluke Calibrator 5502A by Direct Method	(-) 200 °C to 1200 °C	0.2°C
180	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature SimulationTemp Indicator/Controller/Data logger/Recorder/CalibratorK-Type	Using Fluke 5502 Calibrator By Direct Method	(-) 200 °C to 1200 °C	0.4°C



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181	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature SimulationTemp Indicator/Controller/Data logger/Recorder/CalibratorN- Type	Using Fluke 5502 A calibrator By direct Method	(-) 200 °C to 1300 °C	0.4°C
182	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature SimulationTemp Indicator/Controller/Data logger/Recorder/CalibratorR Type	Using Fluke 5502 Calibrator By Direct method	0 °C to 1750 °C	0.5°C
183	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature SimulationTemp Indicator/Controller/Data logger/Recorder/CalibratorRTD (PRT-100)	Using Fluke 5502A Calibrator By Direct Method	(-) 200 °C to 800	0.09°C
184	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature SimulationTemp Indicator/Controller/Data logger/Recorder/CalibratorS Type	Using Fluke 5502A calibrator By Direct method	0 °C to 1750 °C	0.5°C



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185	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature SimulationTemp Indicator/Controller/Data logger/Recorder/CalibratorT Type	Using Fluke 5502 calibrator By Direct Method	(-) 250 °C to 400 °C	0.7°C
186	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	Using Fluke 8588A By Direct Method	1 kHz to 10 kHz	0.005% to 0.0006%
187	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	Using Fluke 8588A By Direct Method	1 MHz to 10 MHz	0.005%
188	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	Using Fluke 8588A By Direct Method	10 Hz to 1 kHz	0.004% to 0.005%
189	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	Using Fluke 8588A By Direct Method	10 kHz to 100 kHz	0.0006%
190	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	Using Fluke 8588A By Direct Method	10 MHz to 100 MHz	0.005% to 0.0006%



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191	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	Using Fluke 8588A By Direct Method	100 kHz to 1 MHz	0.0006% to 0.005%
192	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	Using Time Calibrator by Direct Method	0.1 sec. to 60 sec.	0.02sec. to 0.04sec.
193	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	Using Time Calibrator by comparison method	18000 Sec to 86400 Sec	7.0Sec to 20sec
194	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	Using Time Calibrator by Direct Method	3600 sec to 18000 sec	1.2sec. to 7.0sec.
195	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	Using Time Calibrator by Direct Method	60 sec. to 3600 Sec	0.04sec. to 1.2sec.
196	ELECTRO-TECHNICAL- TIME & FREQUENCY (Source)	Frequency@3V	Using Fluke 5502 Calibrator by Direct Method	1 kHz to 100 kHz	0.005% to 0.009%
197	ELECTRO-TECHNICAL- TIME & FREQUENCY (Source)	Frequency@3V	Using Fluke 5502 Calibrator by Direct Method	10 Hz to 119 Hz	0.002%



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198	ELECTRO-TECHNICAL- TIME & FREQUENCY (Source)	Frequency@3V	Using Fluke 5502 Calibrator by Direct Method	100 kHz to 1000 kHz	0.009% to 0.004%
199	ELECTRO-TECHNICAL- TIME & FREQUENCY (Source)	Frequency@3V	Using Fluke 5502 Calibrator by Direct Method	1000 kHz to 2 MHz	0.004% to 0.009%
200	ELECTRO-TECHNICAL- TIME & FREQUENCY (Source)	Frequency@3V	Using Fluke 5502 Calibrator by Direct Method	119 Hz to 1 kHz	0.002% to 0.005%
201	MECHANICAL-ACCELERATION AND SPEED	Tachometer Calibrator/Stroboscope/RPM Meter/Centrifuge Etc	Using Digital Tacometer (Non Contact) by comparison method	10 rpm to 1000 rpm	5.3%
202	MECHANICAL-ACCELERATION AND SPEED	Tachometer Calibrator/Stroboscope/RPM Meter/Centrifuge Etc	Using Digital Tacometer (non Contact) by comparison method	1000 rpm to 99900 rpm	1.2%
203	MECHANICAL-ACCELERATION AND SPEED	TachometerContact type	Using Tachometer Calibrator contact and non contact type by comparison method	10 rpm to 5000 rpm	6.0% rdg to 2.5% rdg
204	MECHANICAL-ACCELERATION AND SPEED	TachometerNon - Contact Type	Using tachometer calibrator contact and non contact type by comparison method	10 rpm to 99900 rpm	5.42% rdg to 2.5% rdg
205	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Level Calibrator by Comparison Method	94 to 114 dB	0.7dB



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206	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel ProtectorAngle ProtectorCombination Set.	Using Angle Gauge Set. by Comparison Method	0 to 90 to 0 °	4min.
207	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge Travel only(0-1 mm) L.C.:- 0.001 mm	Using Universal Length Measuring Machine by Comparison Method	up to 1 mm	1.5µm
208	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Dial / Digital / Vernier Caliper) L.C. :- 0.01 mm	Using Slip Gauge Set & Steel Gauge Block with Accessories by Comparison Method	up to 1000 mm	12µm
209	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Dial / Digital / Vernier Caliper) L.C. :- 0.01 mm	Using Slip Gauge Set. with Accessories by Comparison Method	up to 300 mm	7µm
210	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Dial / Digital / Vernier Caliper) L.C. :- 0.01 mm	Using Slip Gauge Set.& Steel Gauge Block with Accessories by Comparison Method	up to 600 mm	10.0µm



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211	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper Checker	Using Slip Gauge Set , Long Gauge Block & Dial Test Indicator by Comparison Method	up to 600 mm	8.2µm
212	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge	Using Standard Foils by Comparison Method	up to 700 µm	4µm
213	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand # Flatness	Using Electronic Level by Comparison Method	up to 300X300 mm	6µm
214	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould	Using Digimatic Caliper by comparison method	300 x to 300 mm	90.5µm
215	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper L.C.:- 0.01 mm	Using Slip Gauge Set. by Comparison Method	up to 300 mm	11.2µm



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216	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C.:-0.001mm	Using Slip Gauge Set & Steel Gauge Block by Comparison Method	up to 300 mm	3µm
217	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (Lever Type) L.C.:- 0.001 mm	Using Universal Length Measuring Machine by Comparison Method	up to 2 mm	1.5µm
218	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (Plunger Type)L.C. 0.001 mm	Using Universal Length Measuring Machine by Comparison Method	up to 100 mm	1.5µm
219	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dig./Dial Thickness TesterL.C. :- 0.001 mm	Using Slip Gauge Set by Comparison Method	up to 50 mm	1.0µm
220	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ext. Micrometer , L.C. :- 0.001mm	Using Slip Gauge Set & Steel Gauge Block by Comparison Method	100 mm to 300 mm	2.5µm



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221	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ext. Micrometer , L.C. :- 0.001mm	Using Slip Gauge Set & Steel Gauge Block by Comparison Method	300 mm to 500 mm	9µm
222	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ext. Micrometer , L.C. :- 0.001mm	Using Slip Gauge Set. by Comparison Method	up to 100 mm	1.6µm
223	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ext. Micrometer , L.C. :- 0.01mm	Using Slip Gauge Set & Steel Gauge Block by Comparison Method	500 mm to 1000 mm	14µm
224	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Universal Length Measuring Machine by Comparison Method	up to 1 mm	1µm
225	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height GaugeL.C. :- 0.01 mm	Using Using Slip Gauge Set , Steel Gauge Block ,Dial Test Indicator with Accessories by Comparison Method	up to 1000 mm	15µm



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226	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge L.C. :- 0.01 mm	Using Slip Gauge Set , Long Slip Block & Dial Test Indicator With Acc. by Comparison Method	up to 300 mm	8µm
227	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge L.C. :- 0.01 mm	Using Using Slip Gauge Set , Steel Gauge Block , Dial Test Indicator with Accessories by Comparison Method	up to 600 mm	12µm
228	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Guuge L.C. :- 0.01 mm	Using Slip Gauge Set , Long Slip Block & Dial Test Indicator With Acc. by Comparison Method	up to 450 mm	10µm
229	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Dial Caliper L.C. 0.001 mm	Using Slip Gauge Set. with Accessories by Comparison Method	5 mm to 300 mm	9µm
230	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer Two Jaw & Sticks Type L.C.:-0.001mm	Using Using Slip Gauge Set , Steel Gauge Block , with Accessories by Comparison Method	300 mm to 1000 mm	19µm



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231	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer Two Jaw & Sticks Type L.C.: -0.001mm	Using Slip Gauge Set with slip Accessories by Comparison Method	5 mm to 50 mm	1.4µm
232	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer Two Jaw & Sticks Type L.C.: -0.001mm	Using Slip Gauge Set with slip Accessories by Comparison Method	50 mm to 300 mm	3µm
233	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Measuring Machine (LMM)L.C - 0.001 mm	Using Slip gauges, long slip gauges by comparison method	up to 1000 mm	8.7µm
234	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Linear Height Gauge L.C.: - 0.0001 mm	Using Using Slip Gauge Set , Steel Gauge Block , with Accessories by Comparison Method	up to 1000 mm	10µm
235	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape/Pie tape	Using Length Measuring Machine Machine by comparison method	up to 50 meter	578*sqrt(L)µm



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236	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Metric Steel Scales	Using Length Measuring(LMM), by compasion method	up to 3000 mm	578 * sqrt(L)µm
237	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rods/Length	Using Universal Length Measuring Machine & Long Slip Gauge. by Comparison Method	200 mm to 300 mm	3.5µm
238	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rods/Length Bar	Using Universal Length Measuring Machine & Long Slip Gauge. by Comparison Method	100 mm to 200 mm	2.5µm
239	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pin Gauge	Using Universal Length Measuring Machine by Comparison Method	0.5 mm to 10 mm	0.9µm
240	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pin Gauge	Using Universal Length Measuring Machine by Comparison Method	10 mm to 20 mm	1.0µm



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241	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauges / Air Plug Gauges (GO & NOGO	Using Universal Length Measuring Machine by Comparison Method	1 mm to 100 mm	3.3µm
242	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauges / Air Plug Gauges (GO & NOGO	Using Universal Length Measuring Machine by Comparison Method	100 mm to 200 mm	3.5µm
243	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector, comparison method	up to 40 mm	20.7µm
244	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Ring Gauge	Using Universal Length Measuring Machine by Comparison Method	100 mm to 200 mm	4µm
245	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Ring Gauge	Using Universal Length Measuring Machine by Comparison Method	3 mm to 100 mm	3.3µm



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246	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge (GO & NOGO)	Using Slip Gauge Set by Comparison Method	100 mm to 200 mm	4µm
247	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge (GO & NOGO)	Using Slip Gauge Set by Comparison Method	3 mm to 100 mm	2µm
248	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Parallelism & Straightness)	Using Dial Test Indicator & Slip Gauge Set. by Comparison Method	up to 500 mm	10.7µm to 11.0µm
249	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic by Comparison Method	up to 2000X2000 mm	1.81√ L+W/150 mm (L+W in mm)
250	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale	Using Profile Projector By comparison method	1 mm to 30 mm	65.6µm



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251	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Foils	Using Universal Length Measuring Machine by Comparison Method	up to 2 mm	0.9µm
252	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel (Run out & Diameter)	Using Universal Length Measuring Machine & Dial Test Indicator by Comparison Method	up to 150 mm	2.6µm
253	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Seives	Using Digimatic Caliper by comparison method	4 mm to 100 mm	20µm
254	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector by Comparison Method	32 µm to 4 mm	7µm
255	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge	Using Profile Projector By comparison Method	0.25 mm to 20 mm	6.5µm



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256	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge	Using Profile Projector By comparison Method	up to 60 °	73sec of arc'
257	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge / Wear Check Plug Gauge	Using Universal Length Measuring Machine by Comparison Method	1 mm to 100 mm	2µm
258	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge / Wear Check Plug Gauge	Using Universal Length Measuring Machine by Comparison Method	100 mm to 200 mm	3µm
259	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge / Wear Check Ring Gauge	Using Universal Length Measuring Machine by Comparison Method	3 mm to 100 mm	2.1µm
260	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Wire Set.	Using Universal Length Measuring Machine by Comparison Method	0.17 mm to 6.35 mm	1.1µm



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261	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge L.C - 0.01 mm	Using Slip Gauge Set By comparison method	up to 200 mm	111.4µm
262	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Universal Length Measuring Machine / Single Axis Machine	Using Slip Gauge Set by Comparison Method	0 to 100 mm	1µm
263	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block Flatness Parallelism Symmetry	Using Digimatic Indicator, test Mandrel and Angle gauge by comparison method	upto 300 mm	5.6µm
264	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	welding fillet gauge	Using Profile Projector by comparison method	0 mm to 60 mm	0.260µm
265	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Fillet gauge	Using Profile Projector by comparison method	1 ° to 90 °	3'
266	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Comparator Stand	Using Dial gauge with stand	150 X150 mm	3.0µm



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267	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	LVDT/Probe with DRO L.C - 0.0001 mm L.C - 0.001 mm	Using Universal Length Measuring Machine and slip gauge set by comparison method	up to 100 mm	1.5µm
268	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	LVDT/Probe with DRO L.C - 0.0001 mm L.C - 0.001 mm	Using Universal Length Measuring Machine by comparison method	up to 25 mm	1 1µm
269	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Measuring Microscope L.C.:- 0.001 mm / 1 sec. Linear Angle Magnification	Using Glass Scale Angle Gauge & Dig. Caliper by Comparison Method	up to 100 X	0.4%
270	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Measuring Microscope L.C.:- 0.001 mm / 1 sec. Linear Angle Magnification	Using Glass Scale Angle Gauge & Dig. Caliper by Comparison Method	up to 300 mm	12.7µm
271	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Measuring Microscope L.C.:- 0.001 mm / 1 sec. Linear Angle Magnification	Using Glass Scale Angle Gauge & Dig. Caliper by Comparison Method	up to 360 deg.	1min.
272	MECHANICAL-DUROMETER	Rubber Hardness Tester (Shore A&D)	Using Rubber Hardness Tester Calibrator Comparison Method	0 to 100 Shore (A&D)	1.3Shore (A&D)



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273	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure Gauge (Dial / Digital / Transmitter / Switch / Transducers)	Using Precision Digital Gauge Comparison Method Based on DKD - R 6 - 1	0 to 1 bar	0.0012bar
274	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure Gauge (Dial / Digital / Transmitter / Switch / Transducers)	Using Precision Digital gauges by comparison Method	0 bar to 10 bar	0.0083bar
275	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure Gauge (Dial / Digital / Transmitter / Switch / Transducers / Magnehelic)	Using Precision Digital Gauge Comparison Method Based on DKD - R 6 -	0 to 2000 Pa	1.72Pa
276	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital / Transmitter / Switch / Transducers)	Using Precision Digital Gauge Comparison Method Based on DKD - R - 6 - 1	0 to 100 bar	0.09bar
277	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital / Transmitter / Switch / Transducers)(Hydraulic)	Using Precision Digital Gauge Comparison Method Based on DKD - R 6 - 1	0 to 1000 bar	0.25bar
278	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital / Transmitter / Switch / Transducers)(Hydraulic)	Using Precision Digital Gauge Comparison Method Based on DKD - R 6 - 1	0 to 700 bar	0.14bar



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279	MECHANICAL-PRESSURE INDICATING DEVICES	Vaccumme Gauge (Dial / Digital / Transmitter / Switch / Transducers)(Hydraulic)	Using Precision Digital guages by Comparision Method	0 bar to (-) 0.90 bar	0.0012bar
280	MECHANICAL-TORQUE GENERATING DEVICES	Torque Screw Driver (Type A - Class D) (Type B - Class D&E	Using Digital Torque Sensor with Indicator by Comparison Method	0.5 Nm to 5 Nm	2.1%
281	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I - Class B & C)	Using Digital Torque Sensor with Indicator by Comparison Method	0.5 to 100 Nm	1.7%
282	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type II - Class A & B)	Using Digital Torque Sensor with Indicator by Comparison Method	50 to 500 Nm	1.2%
283	MECHANICAL-VOLUME	Glassware Pipettes / Burettes	Using Precision Balance and Distilled Water of Known Density Gravimetric Method	0.1 ml to 1 ml	0.3µl
284	MECHANICAL-VOLUME	Glassware Pipettes / Burettes	Using Precision Balance and Distilled Water of Known Density Gravimetric Method	1 ml to 10 ml	0.8µl



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285	MECHANICAL-VOLUME	Glassware Pipettes / Burettes	Using Precision Balance and Distilled Water of Known Density Gravimetric Method	10 ml to 50 ml	8.2µl
286	MECHANICAL-VOLUME	Measuring Cylinder / volumetric flask / Graduated jar / Can / Beaker etc	Using Precision Balance and Distilled Water of Known Density Gravimetric Method	0.1 ml to 10 ml	3.4µl
287	MECHANICAL-VOLUME	Measuring Cylinder / volumetric flask / Graduated jar / Can / Beaker etc	Using Precision Balance and Distilled Water of Known Density Gravimetric Method	10 ml to 100 ml	8.2µl
288	MECHANICAL-VOLUME	Measuring Cylinder / volumetric flask / Graduated jar / Can / Beaker etc	Using Precision Balance and Distilled Water of Known Density Gravimetric Method	100 ml to 250 ml	196µl
289	MECHANICAL-VOLUME	Measuring Cylinder / volumetric flask / Graduated jar / Can / Beaker etc	Using Precision Balance and Distilled Water of Known Density Gravimetric Method	1000 ml to 5000 ml	3.4ml



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290	MECHANICAL-VOLUME	Measuring Cylinder / volumetric flask / Graduated jar / Can / Beaker etc	Using Precision Balance and Distilled Water of Known Density Gravimetric Method	250 ml to 1000 ml	1.03ml
291	MECHANICAL-VOLUME	Micropipette	Using Precision Balance and Distilled Water of Known Density Gravimetric Method	10 µl to 100 µl	0.5µl
292	MECHANICAL-VOLUME	Micropipette	Using Precision Balance and Distilled Water of Known Density Gravimetric Method	100 µl to 1000 µl	0.6µl
293	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances @ Readability = 0.1 mg and Coarser	Using Standard Weights of Accuracy Class F1 Based on OIML R - 76 - 1 by Comparison Method	0 to 200 g	0.5mg
294	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances @ Readability = 1 g and Coarser	Using Standard Weights of Accuracy Class F1 & F2 Based on OIML R - 76 - 1 by Comparison Method	0 to 100 kg	2.3g



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295	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances @ Readability = 1 mg and Coarser	Using Standard Weights of Accuracy Class F1 Based on OIML R - 76 - 1 by Comparison Method	0 to 1 kg	3.0mg
296	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances @ Readability = 10 g and Coarser	Using Standard Weights of Accuracy Class F1 , F2 & M1 Based on OIML R - 76 - 1 by Comparison Method	0 to 200 kg	10g
297	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances @ Readability = 10 g and Coarser	Using Standard Weights of Accuracy Class F1 , F2 & M1 Based on OIML R - 76 - 1 by Comparison Method	0 to 300 kg	22.7g
298	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances @ Readability = 10 mg and Coarser	Using Standard Weights of Accuracy Class F1 Based on OIML R - 76 - 1 by Comparison Method	0 to 10 kg	15mg
299	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances @ Readability = 100 mg and Coarser	Using Standard Weights of Accuracy Class F1 Based on OIML R - 76 - 1 by Comparison Method	0 to 50 kg	1.1g



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300	MECHANICAL-WEIGHTS	Weights of Accuracy Class F2 Coarse	Using Standard Weights of Accuracy Class F1 Substitution Method of Weighing and ABBA Weighing Cycle Based on OIML R111-1 & Precision Balance of Readability, 0.01 mg	1 g	0.1mg
301	MECHANICAL-WEIGHTS	Weights of Accuracy Class F2 Coarse	Using Standard Weights of Accuracy Class F1 Substitution Method of Weighing and ABBA Weighing Cycle Based on OIML R111-1 & Precision Balance of Readability, 1 mg	1 kg	5mg
302	MECHANICAL-WEIGHTS	Weights of Accuracy Class F2 Coarse	Using Standard Weights of Accuracy Class F1 Substitution Method of Weighing and ABBA Weighing Cycle Based on OIML R111-1 & Precision Balance of Readability, 0.01 mg	10 g	0.2mg



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303	MECHANICAL-WEIGHTS	Weights of Accuracy Class F2 Coarse	Using Standard Weights of Accuracy Class F1 Substitution Method of Weighing and ABBA Weighing Cycle Based on OIML R111-1 & Precision Balance of Readability, 0.01 mg	10 mg	0.02mg
304	MECHANICAL-WEIGHTS	Weights of Accuracy Class F2 Coarse	Using Standard Weights of Accuracy Class F1 Substitution Method of Weighing and ABBA Weighing Cycle Based on OIML R111-1 & Precision Balance of Readability, 0.01 mg	100 g	0.5mg
305	MECHANICAL-WEIGHTS	Weights of Accuracy Class F2 Coarse	Using Standard Weights of Accuracy Class F1 Substitution Method of Weighing and ABBA Weighing Cycle Based on OIML R111-1 & Precision Balance of Readability, 0.01 mg	100 mg	0.05mg



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306	MECHANICAL-WEIGHTS	Weights of Accuracy Class F2 Coarse	Using Standard Weights of Accuracy Class F1 Substitution Method of Weighing and ABBA Weighing Cycle Based on OIML R111-1 & Precision Balance of Readability, 0.01 mg	2 g	0.12mg
307	MECHANICAL-WEIGHTS	Weights of Accuracy Class F2 Coarse	Using Standard Weights of Accuracy Class F1 Substitution Method of Weighing and ABBA Weighing Cycle Based on OIML R111-1 & Precision Balance of Readability, 10 mg	2 kg	10.5mg
308	MECHANICAL-WEIGHTS	Weights of Accuracy Class F2 Coarse	Using Standard Weights of Accuracy Class F1 Substitution Method of Weighing and ABBA Weighing Cycle Based on OIML R111-1 & Precision Balance of Readability, 0.01 mg	2 mg	0.02mg



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309	MECHANICAL-WEIGHTS	Weights of Accuracy Class F2 Coarse	Using Standard Weights of Accuracy Class F1 Substitution Method of Weighing and ABBA Weighing Cycle Based on OIML R111-1 & Precision Balance of Readability, 0.01 mg	20 g	0.25mg
310	MECHANICAL-WEIGHTS	Weights of Accuracy Class F2 Coarse	Using Standard Weights of Accuracy Class F1 Substitution Method of Weighing and ABBA Weighing Cycle Based on OIML R111-1 & Precision Balance of Readability, 0.01 mg	20 mg	0.03mg
311	MECHANICAL-WEIGHTS	Weights of Accuracy Class F2 Coarse	Using Standard Weights of Accuracy Class F1 Substitution Method of Weighing and ABBA Weighing Cycle Based on OIML R111-1 & Precision Balance of Readability, 0.01 mg	200 g	0.5mg



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312	MECHANICAL-WEIGHTS	Weights of Accuracy Class F2 Coarse	Using Standard Weights of Accuracy Class F1 Substitution Method of Weighing and ABBA Weighing Cycle Based on OIML R111-1 & Precision Balance of Readability, 0.01 mg	200 mg	0.06mg
313	MECHANICAL-WEIGHTS	Weights of Accuracy Class F2 Coarse	Using Standard Weights of Accuracy Class F1 Substitution Method of Weighing and ABBA Weighing Cycle Based on OIML R111-1 & Precision Balance of Readability, 0.01 mg	5 g	0.16mg
314	MECHANICAL-WEIGHTS	Weights of Accuracy Class F2 Coarse	Using Standard Weights of Accuracy Class F1 Substitution Method of Weighing and ABBA Weighing Cycle Based on OIML R111-1 & Precision Balance of Readability, 10 mg	5 kg	25mg



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315	MECHANICAL-WEIGHTS	Weights of Accuracy Class F2 Coarse	Using Standard Weights of Accuracy Class F1 Substitution Method of Weighing and ABBA Weighing Cycle Based on OIML R111-1 & Precision Balance of Readability, 0.01 mg	5 mg	0.02mg
316	MECHANICAL-WEIGHTS	Weights of Accuracy Class F2 Coarse	Using Standard Weights of Accuracy Class F1 Substitution Method of Weighing and ABBA Weighing Cycle Based on OIML R111-1 & Precision Balance of Readability, 0.01 mg	50 mg	0.03mg
317	MECHANICAL-WEIGHTS	Weights of Accuracy Class F2 Coarse	Using Standard Weights of Accuracy Class F1 Substitution Method of Weighing and ABBA Weighing Cycle Based on OIML R111-1 & Precision Balance of Readability, 1 mg	500 g	2.5mg



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318	MECHANICAL-WEIGHTS	Weights of Accuracy Class F2 Coarse	Using Standard Weights of Accuracy Class F1 Substitution Method of Weighing and ABBA Weighing Cycle Based on OIML R111-1 & Precision Balance of Readability, 0.01 mg	500 mg	0.08mg
319	MECHANICAL-WEIGHTS	Weights of Accuracy Class F2 Coarser	Using Standard Weights of Accuracy Class F1 Substitution Method of Weighing and ABBA Weighing Cycle Based on OIML R111-1 & Precision Balance of Readability, 0.01 mg	1 mg	0.02mg
320	MECHANICAL-WEIGHTS	Weights of Accuracy Class F2 Coarser	Using Standard Weights of Accuracy Class F1 Substitution Method of Weighing and ABBA Weighing Cycle Based on OIML R111-1 & Precision Balance of Readability, 0.01 mg	50 g	0.3mg



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321	MECHANICAL-WEIGHTS	Weights of Accuracy Class M3 Coarse	Using Standard Weights of Accuracy Class F1 Substitution Method of Weighing and ABBA Weighing Cycle Based on OIML R111-1 & Precision Balance of Readability, 1 g	10 kg	1.6g
322	MECHANICAL-WEIGHTS	Weights of Accuracy Class M3 Coarse	Using Standard Weights of Accuracy Class F1 Substitution Method of Weighing and ABBA Weighing Cycle Based on OIML R111-1 & Precision Balance of Readability, 1 g	20 kg	2.1g
323	MECHANICAL-WEIGHTS	Weights of Accuracy Class M3 Coarse	Using Standard Weights of Accuracy Class F1 Substitution Method of Weighing and ABBA Weighing Cycle Based on OIML R111-1 & Precision Balance of Readability, 1 g	50 kg	7g



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324	THERMAL- SPECIFIC HEAT & HUMIDITY	Dial / Digital / Analog Thermo Hygrometer / RH Sensors / with Indicator / Recorder / Data Logger	Using Humidity Chamber & Digital RH & Temperature Indicator with SPRT by Comparison Method	10 % RH to 95 % RH @ 25°C	0.83%
325	THERMAL- SPECIFIC HEAT & HUMIDITY	Dial / Digital / Analog Thermo Hygrometer / RH Sensors / with Indicator / Recorder / Data Logger	Using Humidity Chamber & Digital RH & Temperature Indicator with SPRT by Comparison Method	5 °C to 55 @50 % RH	0.4°C
326	THERMAL- TEMPERATURE	Black Body Source (e = 0.95)	IR Thermometer	50 °C to 500 °C	3.69°C
327	THERMAL- TEMPERATURE	IR thermometer/Laser Gun/Pyrometer/Thermal Imaging Camera etc.	Using Black body source and IR Thermometer by comparison method	50 °C to 500 °C	3.62°C
328	THERMAL- TEMPERATURE	RTD" s , Thermocouples With or Without Indicator / Data Logger / Recorder , Temperature Transmitter , Digital Thermometer etc.	Using SPRT with Temperature Indicator & Drywell Furnace by Comparison Method	(-) 25 °C to 140 °C	0.21°C



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329	THERMAL-TEMPERATURE	RTD" s , Thermocouples With or Without Indicator / Data Logger / Recorder , Temperature Transmitter , Digital Thermometer etc.	Using SPRT with Temperature Indicator & Drywell Furnace by Comparison Method	150 °C to 600 °C	0.63°C
330	THERMAL-TEMPERATURE	RTD" s , Thermocouples With or Without Indicator / Data Logger / Recorder , Temperature Transmitter , Digital Thermometer etc.	Using " S" type Thermocouple with Temperature Indicator & Drywell Furnace by Comparison Method	600 °C to 1200 °C	1.67°C



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Site Facility					
1	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current@50 Hz to 1 kHz	Using Fluke Dig. Precision Multimeter 8846A by Direct Method	10 µA to 10 A	0.25%
2	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current@50 Hz to 1 kHz	Using Fluke Calibrator 5080A by Direct Method	10 A to 20 A	0.4% to 0.9%
3	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current@50 Hz to 1 kHz	Using Fluke Calibrator 5080A by Direct Method	3.3 mA to 3 A	0.3% to 0.6%
4	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current@50 Hz to 1 kHz	Using Fluke Calibrator 5080A by Direct Method	30 µA to 300 µA	3.2% to 0.6%
5	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current@50 Hz to 1kHz	Using Fluke Calibrator 5080A With Current Coil (50 turn) by Direct Method	20 A to 1000 A	0.9% to 1.1%



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Site Facility					
6	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current@50 Hz to 1kHz	Using Fluke Calibrator 5080A by Direct Metho	3 A to 10 A	0.3% to 0.4%
7	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current@50 Hz to 1kHz	Using Fluke Calibrator 5080A by Direct Method	300 µA to 3.3 mA	0.6% to 0.3%
8	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Fluke Dig. Precision Multimeter 8846A by Direct Method	1 µA to 10 µA	0.4% to 0.09%
9	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Fluke Dig. Precision Multimeter 8846A by Direct Method	10 µA to 100 µA	0.09%
10	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Fluke Dig. Precision Multimeter 8846A by Direct Method	100 µA to 10 A	0.09% to 0.2%
11	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Fluke Calibrator 5080A by Direct Method	10 µA to 300 µA	1.5% to 0.13%



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Site Facility					
12	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Fluke Calibrator 5080A With Current Coil (50 turn) by Direct Method	20 A to 500 A	0.9% to 1.8%
13	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Fluke Calibrator 5080A by Direct Method	3 A to 20 A	0.2% to 0.9%
14	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Fluke Calibrator 5080A by Direct Method	3 mA to 30 mA	0.09% to 0.07%
15	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Fluke Calibrator 5080A by Direct Method	30 mA to 300 mA	0.07%
16	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Fluke Calibrator 5080A by Direct Method	300 µA to 3 mA	0.13% to 0.09%
17	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Fluke Calibrator 5080A by Direct Method	300 mA to 3 A	0.07% to 0.2%
18	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Fluke Calibrator 5080A With Current Coil (50 turn) by Direct Method	500 to 1000	1.8%



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Site Facility					
19	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC High Voltage(1-Phase)	Using High Voltage Divider With DMM by Direct Method	1 kV to 100 kV	1.07% to 1.5%
20	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Power/active Energy 50 Hz(-)0.1 PF to upf to0.1 PF to UPF(1-Phase and 3-Phase)4V to 600 V(0.1 A to 20 A)	Using Power Meter AC/DC by Direct Method	0.4 wh to 12 KWh	0.24% to 0.09%
21	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Voltage@ 50 Hz 1 kHz	Using Fluke Dig. Precision Multimeter 8846A by Direct Method	1 mV to 100 mV	4.75%
22	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Voltage@ 50 Hz 1 kHz	Using Fluke Dig. Precision Multimeter 8846A by Direct Method	100 mV to 1000 V	0.12%
23	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Capacitance	Using Fluke Dig. Precision Multimeter 8846A by Direct Method	1 nF to 1 mF	1.17% to 0.014%



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Site Facility					
24	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC High Voltage	Using High Voltage Divider By Direct Method	1 kV to 100 kV	0.9%
25	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Using Fluke Dig. Precision Multimeter 8846A by Direct Method	1 mV to 100 mV	0.5% to 0.01%
26	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Using Fluke Dig. Precision Multimeter 8846A by Direct Method	10 V to 1000 V	0.007% to 0.008%
27	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Using Fluke Dig. Precision Multimeter 8846A by Direct Method	100 mV to 10 V	0.01% to 0.007%
28	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance	Using Fluke Dig. Precision Multimeter 8846A by Direct Method	1 k ohm to 1 M ohm	0.02% to 0.01%



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Site Facility					
29	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance	Using Fluke Dig. Precision Multimeter 8846A by Direct Method	1 M ohm to 10 M ohm	0.01% to 0.05%
30	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance	Using Fluke Dig. Precision Multimeter 8846A by Direct Method	1 ohm to 10 ohm	0.4% to 0.05%
31	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance	Using Fluke Dig. Precision Multimeter 8846A by Direct Method	10 M ohm to 100 M ohm	0.05% to 1%
32	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance	Using Fluke Dig. Precision Multimeter 8846A by Direct Method	10 ohm to 1 k ohm	0.04% to 0.02%
33	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance	Using Fluke Dig. Precision Multimeter 8846A by Direct Method	100 M ohm to 1 G ohm	1% to 2.3%



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Site Facility					
34	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage @50 Hz to 1 kHz	Using Fluke Calibrator 5080A by Direct Method	10 mV to 30 mV	1.5% to 0.66%
35	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage @50 Hz to 1 kHz	Using Fluke Calibrator 5080A by Direct Method	30 mV to 300 mV	0.66% to 0.02%
36	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage @50 Hz to 1 kHz	Using Fluke Calibrator 5080A by Direct Method	300 mV to 1000 V	0.03% to 0.02%
37	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Active power UPF , 50 Hz(-)0.1 PF to (-) 0.9 PF & 0.1 to UPF(1 & 3 Phase)10 V to 600 V0.1 A to 20A	Using Fluke Calibrator 5080A by Direct Metho	0.1 W to 12 kW	1.76%
38	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Capacitance @1kHz	Using Standard Capacitance Box by Direct Method	1 nF to 1 mF	2.2%
39	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Capacitance	using Decade Capacitance box by Direct Method	100 pF to 100 μF	0.9% to 1.1%



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Site Facility					
40	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC High Resistance 2 wire@0-5000 VDC	Using HV mega ohm Box by Direct Method	1 G ohm	4.6%
41	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC High Resistance 2 wire@0-5000 VDC	Using HV mega ohm Box by Direct Method	1 T ohm	2.3%
42	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC High Resistance 2 wire@0-5000 VDC	Using HV mega ohm Box by Direct Method	10 G ohm	2.3%
43	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC High Resistance 2 wire@0-5000 VDC	Using HV mega ohm Box by Direct Method	100 G ohm	2.3%
44	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC High Resistance 2 wire@0-5000 VDC	Using HV mega ohm Box by Direct Method	2 G ohm	4.0%
45	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC High Resistance 2 wire@0-5000 VDC	Using HV mega ohm Box by Direct Method	20 G Ohm	3.6%



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Site Facility					
46	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC High Resistance 2 wire@0-5000 VDC	Using HV mega ohm Box by Direct Method	20 M ohm	3.6%
47	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC High Resistance 2 wire@0-5000 VDC	Using HV mega ohm Box by Direct Method	200 G ohm	2.3%
48	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC High Resistance 2 wire@0-5000 VDC	Using HV mega ohm Box by Direct Method	200 M ohm	3.6%
49	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC High Resistance 2 wire@0-5000 VDC	Using HV mega ohm Box by Direct Method	500 G ohm	2.3%
50	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC High Resistance 2 wire@0-5000VDC	Using HV Mega ohm Box by Direct Method	2 M ohm	3.6%
51	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Power1 V -600 V0.1 A - 20 A	Using Fluke Calibrator 5080A by Direct Method	0.1 W to 12 KW	0.70%



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Site Facility					
52	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance 2 wire	Using Fluke 5502 Calibrator by Direct Method	1 M ohm to 3 M ohm	0.01% to 0.04%
53	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance 2 Wire	Using Decade Resistance Box by Direct Method	1 ohm to 1 M ohm	1.3%
54	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance 4 wire	Using Standard Resistance Box By Direct Method	1 K ohm	3.5%
55	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance 4 wire	Using Standard Resistance Box By Direct Method	1 m ohm	3.5%
56	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance 4 wire	Using Standard Resistance Box By Direct Method	1 ohm	3.5%
57	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance 4 wire	Using Standard Resistance Box By Direct Method	10 m ohm	3.5%



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Site Facility					
58	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance 4 wire	Using Standard Resistance Box By Direct Method	10 ohm	3.5%
59	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance 4 wire	Using Standard Resistance Box By Direct Method	100 μ ohm	0.02%
60	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance 4 Wire	Using Standard Resistance Box By Direct Method	100 m ohm	3.5%
61	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance 4 wire	Using Standard Resistance Box By Direct Method	100 ohm	3.5%
62	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance 4 wire	Using Standard Resistance Box By Direct Method	50 μ ohm	0.03%
63	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Voltage	Using Fluke Calibrator 5080A by Direct Method	1 mV to 30 mV	0.06% to 1.4%



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Site Facility					
64	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Voltage	Using Fluke Calibrator 5080A by Direct Method	30 mV to 300 mV	0.06% to 0.03%
65	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Voltage	Using Fluke Calibrator 5080A by Direct Method	300 mV to 1000 V	0.02%
66	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Inductance	Using Standard Inductance Box by Direct Method	100 µH to 10 H	1.22%
67	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Power Factor (Lag & Lead)	Using Fluke Calibrator 5080A by Direct Method	(-) 0.1 pF to (+) 0.1 pF	0.05pF
68	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Resistance	Using Standard Resistance Box by Direct Method	1 m ohm to 1 K ohm	1.4%
69	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Resistance 4 W	Using Fluke Calibrator 5080A&Standrad Resistance box by Direct Metho	1 ohm to 190 M ohm	1.4%



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Site Facility					
70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type (Indicator/Controller/Recorder)	Using Fluke Multifunction Process Calibrator 725 by Direct Method	(-) 20 °C to 750 °C	0.82°C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type (Indicator/Controller/Recorder)	Using Fluke Multifunction Process Calibrator 725 by Direct Method	(-) 140 °C to 1300 °C	1.4°C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type (Indicator/Controller/Recorder)	Using Fluke Multifunction Process Calibrator 725 by Direct Method	0 °C to 1400 °C	1.1°C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type (Indicator/Controller/Recorder)	Using Fluke Multifunction Process Calibrator 725 by Direct Method	600 °C to 1600 °C	1.8°C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100) (Indicator/Controller/Recorder)	Using Fluke Multifunction Process Calibrator 725 by Direct Method	(-)100 °C to 650 °C	0.41°C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type (Indicator/Controller/Recorder)	Using Fluke Multifunction Process Calibrator 725 by Direct Method	0 °C to 1600 °C	1.8°C



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Site Facility					
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type (Indicator/Controller/Recorder)	Using Fluke Multifunction Process Calibrator 725 by Direct Method	0 °C to 1200 °C	1.1°C
77	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	Using Fluke Dig. Precision Multimeter 8846A by Direct Method	10 Hz to 1 MHz	0.06% to 0.5%
78	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	Using Time Calibrator by Direct Method	0.1 sec. to 60 sec.	0.02sec. to 0.04sec.
79	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	Using Time Calibrator by comparison method	18000 Sec to 86400 Sec	7.0Sec to 20sec
80	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	Using Time Calibrator by Direct Method	3600 sec to 18000 sec	1.2sec. to 7.0sec.
81	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	Using Time Calibrator by Direct Method	60 sec. to 3600 Sec	0.04sec. to 1.2sec.



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Site Facility					
82	ELECTRO-TECHNICAL- TIME & FREQUENCY (Source)	Frequency	Using Fluke Calibrator 5080A by Direct Method	45 Hz to 1000 Hz	0.02%
83	FLUID FLOW- FLOW MEASURING DEVICES	Flow meter, , Flow Transmitter, Flow indicating devices	By Using Ultrasonic handheld flow calibrator by comparison method	1.0 m ³ /hr to 718 m ³ /hr	1.5% rdg
84	MECHANICAL- ACCELERATION AND SPEED	Tachometer Calibrator/Stroboscope/ RPM Meter/Centrifuge Etc	Using Digital Tacometer (Non Contact) by comparison method	10 rpm to 1000 rpm	5.3%
85	MECHANICAL- ACCELERATION AND SPEED	Tachometer Calibrator/Stroboscope/ RPM Meter/Centrifuge Etc	Using Digital Tacometer (non Contact) by comparison method	1000 rpm to 99900 rpm	1.2%
86	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Parallelism & Coaxiality)	Using Dig. Indicator , Taper Mandrel & Standard Mandrel by Comparison Method	up to 700 mm	12µm
87	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand # Flatness	Using Electronic Level by Comparison Method	up to 300X300 mm	6µm



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Site Facility					
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould	Using Digimatic Caliper by comparison method	300 x to 300 mm	90.5µm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Measuring Machine (LMM)L.C - 0.001 mm	Using Slip gauges, long slip gauges by comparison method	up to 1000 mm	8.7µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic by Comparison Method	up to 2000X2000 mm	1.81v L+W/150 mm (L+W in mm)
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel (Run out & Diameter)	Using Universal Length Measuring Machine & Dial Test Indicator by Comparison Method	up to 150 mm	2.6µm
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Universal Length Measuring Machine / Single Axis Machine	Using Slip Gauge Set by Comparison Method	0 to 100 mm	1µm



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Site Facility					
93	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Comparator Stand	Using Dial gauge with stand	150 X150 mm	3.0µm
94	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Measuring Microscope L.C.: - 0.001 mm / 1 sec. Linear Angle Magnification	Using Glass Scale Angle Gauge & Dig. Caliper by Comparison Method	up to 100 X	0.4%
95	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Measuring Microscope L.C.: - 0.001 mm / 1 sec. Linear Angle Magnification	Using Glass Scale Angle Gauge & Dig. Caliper by Comparison Method	up to 300 mm	12.7µm
96	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Measuring Microscope L.C.: - 0.001 mm / 1 sec. Linear Angle Magnification	Using Glass Scale Angle Gauge & Dig. Caliper by Comparison Method	up to 360 deg.	1min.
97	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure Gauge (Dial / Digital / Transmitter / Switch / Transducers)	Using Precision Digital Gauge Comparison Method Based on DKD - R 6 - 1	0 to 1 bar	0.0012bar
98	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure Gauge (Dial / Digital / Transmitter / Switch / Transducers)	Using Precision Digital gauges by comparison Method	0 bar to 10 bar	0.0083bar



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Site Facility					
99	MECHANICAL- PRESSURE INDICATING DEVICES	Low Pressure Gauge (Dial / Digital / Transmitter / Switch / Transducers / Magnehelic)	Using Precision Digital Gauge Comparison Method Based on DKD - R 6 -	0 to 2000 Pa	1.72Pa
100	MECHANICAL- PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital / Transmitter / Switch / Transducers)	Using Precision Digital Gauge Comparison Method Based on DKD - R - 6 - 1	0 to 100 bar	0.09bar
101	MECHANICAL- PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital / Transmitter / Switch / Transducers)(Hydraulic)	Using Precision Digital Gauge Comparison Method Based on DKD - R 6 - 1	0 to 1000 bar	0.25bar
102	MECHANICAL- PRESSURE INDICATING DEVICES	Pressure Gauge (Dial / Digital / Transmitter / Switch / Transducers)(Hydraulic)	Using Precision Digital Gauge Comparison Method Based on DKD - R 6 - 1	0 to 700 bar	0.14bar
103	MECHANICAL- PRESSURE INDICATING DEVICES	Vaccumme Gauge (Dial / Digital / Transmitter / Switch / Transducers)(Hydraulic)	Using Precision Digital guages by Comparision Method	0 bar to (-) 0.90 bar	0.0012bar



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Site Facility					
104	MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE	Compression / Universal Testing Machine / Load Testing Machine / Spring Testing Machine / Flexural Testing Machine etc. @ Compression	Using Load Cell with Indicator by Comparison Method	1 kN to 1000 kN	0.80%
105	MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE	Compression / Universal Testing Machine / Load Testing Machine / Spring Testing Machine / Flexural Testing Machine etc. @ Compression	Using Load Cell with Indicator by Comparison Method	1 N to 10 N	0.81%
106	MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE	Compression / Universal Testing Machine / Load Testing Machine / Spring Testing Machine / Flexural Testing Machine etc. @ Compression	Using Load Cell with Indicator by Comparison Method	10 N to 1 kN	0.5%



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Site Facility					
107	MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE	Tension / Universal Testing Machine / Load Testing Machine / Spring Testing Machine / Flexural Testing Machine etc. @ Tension	Using Load Cell with Indicator by Comparison Method	1 kN to 100 kN	0.8%
108	MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE	Tension / Universal Testing Machine / Load Testing Machine / Spring Testing Machine / Flexural Testing Machine etc. @ Tension	Using Load Cell with Indicator by Comparison Method	10 N to 1 kN	0.82%
109	MECHANICAL- WEIGHING SCALE AND BALANCE	Weighing Balances @ Readability = 0.1 mg and Coarser	Using Standard Weights of Accuracy Class F1 Based on OIML R - 76 - 1 by Comparison Method	0 to 200 g	0.5mg
110	MECHANICAL- WEIGHING SCALE AND BALANCE	Weighing Balances @ Readability = 1 g and Coarser	Using Standard Weights of Accuracy Class F1 & F2 Based on OIML R - 76 - 1 by Comparison Method	0 to 100 kg	2.3g



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Site Facility					
111	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances @ Readability = 1 mg and Coarser	Using Standard Weights of Accuracy Class F1 Based on OIML R - 76 - 1 by Comparison Method	0 to 1 kg	3.0mg
112	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances @ Readability = 10 g and Coarser	Using Standard Weights of Accuracy Class F1 , F2 & M1 Based on OIML R - 76 - 1 by Comparison Method	0 to 200 kg	10g
113	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances @ Readability = 10 g and Coarser	Using Standard Weights of Accuracy Class F1 , F2 & M1 Based on OIML R - 76 - 1 by Comparison Method	0 to 300 kg	22.7g
114	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances @ Readability = 10 mg and Coarser	Using Standard Weights of Accuracy Class F1 Based on OIML R - 76 - 1 by Comparison Method	0 to 10 kg	15mg
115	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances @ Readability = 100 mg and Coarser	Using Standard Weights of Accuracy Class F1 Based on OIML R - 76 - 1 by Comparison Method	0 to 50 kg	1.1g



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Site Facility					
116	THERMAL- SPECIFIC HEAT & HUMIDITY	Humidity Indicator of Humidity Calibration / Generator , Humidity Chamber	Using Dig. RH Indicator with sensor Temperature Indicator with SPRT @ Single Position Calibration at Measuring Location in DUC by Comparison Method	10 % RH to 95 % RH @ 25°C	0.83%
117	THERMAL- SPECIFIC HEAT & HUMIDITY	Humidity Indicator of Humidity Calibration / Generator , Humidity Chamber	Using Dig. RH Indicator with sensor Temperature Indicator with SPRT @ Single Position Calibration at Measuring Location in DUC by Comparison Method	5 °C to 55 °C @ 50 %	0.33°C
118	THERMAL- TEMPERATURE	Black Body Source (e = 0.95)	IR Thermometer	50 °C to 500 °C	3.69°C
119	THERMAL- TEMPERATURE	Deep Freezer, Refrigerator, Oven , BOD Incubator , Environmental Chamber, Vacuum Oven	Using Data Logger with RTD Sensors Multi Position by Comparison Method	(-) 70 °C to 50 °C	1.44°C



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Site Facility					
120	THERMAL-TEMPERATURE	Dry Block Furnaces / Muffle Furnace	Using Data Logger with "K" Type Sensors Multi Position by Comparison Method	200 °C to 600 °C	5.5°C
121	THERMAL-TEMPERATURE	Dry Block Furnaces / Muffle Furnace	Using Data Logger with "K" Type Sensors Multi Position by Comparison Method	600 °C to 1000 °C	8.0°C
122	THERMAL-TEMPERATURE	Oven , Vacuum Oven , Aging Oven , BOD Incubator , Incubator , Centrifuge Chamber , Environment Chamber , Furnaces	Using Data Logger with RTD Sensors Multi Position by Comparison Method	50 °C to 250 °C	2.44°C
123	THERMAL-TEMPERATURE	RTD" s , Thermocouples With or Without Indicator / Data Logger / Recorder , Temperature Transmitter , Digital Thermometer etc.	Using SPRT with Temperature Indicator & Drywell Furnace by Comparison Method	(-) 25 °C to 140 °C	0.21°C



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Site Facility					
124	THERMAL-TEMPERATURE	RTD" s , Thermocouples With or Without Indicator / Data Logger / Recorder , Temperature Transmitter , Digital Thermometer etc.	Using SPRT with Temperature Indicator & Drywell Furnace by Comparison Method	150 °C to 600 °C	0.63°C
125	THERMAL-TEMPERATURE	RTD" s , Thermocouples With or Without Indicator / Data Logger / Recorder , Temperature Transmitter , Digital Thermometer etc.	Using " S" type Thermocouple with Temperature Indicator & Drywell Furnace by Comparison Method	600 °C to 1200 °C	1.67°C
126	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Liquid bath , Oven , Dry Block Furnace , Freezers , Auto Clave , BOD Incubator , Environmental Chamber , Furnace	Using SPRT with Temperature Indicator @ Single Position Calibration at Measuring Location in DUC by Comparison Method	(-) 80 °C to 600 °C	0.3°C



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Site Facility					
127	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Oven , Dry Block Furnaces / Muffle Furnace	Using "S" type Thermocouple with Temperature Indicator @ Single Position Calibration at Measuring Location in DUC by Comparison Method	600 °C to 1200 °C	2.03°C

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