



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

(A Constituent Board of Quality Council of India)



**CERTIFICATE OF ACCREDITATION**

**EXCEL CALIBRATION 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

PLOT NO.5-A/9, 1ST FLOOR, ROAD NO. 1 IDA NACHARAM, HYDERABAD, TELANGANA, INDIA

in the field of

**CALIBRATION**

Certificate Number: CC-2424

Issue Date: 23/10/2019

Valid Until: 22/10/2021

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](http://www.nabl-india.org))

Signed for and on behalf of NABL



N. Venkateswaran  
Chief Executive Officer



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## SCOPE OF ACCREDITATION

Laboratory Name EXCEL CALIBRATION PVT LTD, PLOT NO.5-A/9, 1ST FLOOR, ROAD NO. 1 IDA NACHARAM, HYDERABAD, TELANGANA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2424 Page No. : 1 / 76

Validity 23/10/2019 to 22/10/2021 Last Amended on -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrument	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)	Calibration or Measurement Method or procedure
<b>Permanent Facility</b>					
1	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current (50 Hz to 1 kHz)	1 A to 10 A	0.17% to 0.24%	Using 6½ DMM Fluke 8846A By Direct Method
2	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current (50 Hz to 1 kHz)	100 µA to 100 mA	0.17%	Using 6½ DMM Fluke 8846A By Direct Method
3	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current (50 Hz to 1 kHz)	100 mA to 1 A	0.17%	Using 6½ DMM Fluke 8846A By Direct Method
4	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current (50Hz to 1kHz)	1 A to 10 A	0.05% to 0.12%	Using 8½ DMM Fluke 8508A By Direct Method
5	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current (50Hz to 1kHz)	100 µA to 100 mA	0.07% to 0.061%	Using 8½ DMM Fluke 8508A By Direct Method



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6	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current (50Hz to 1kHz)	100 mA to 1 A	0.061% to 0.05%	Using 8½ DMM Fluke 8508A By Direct Method
7	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current(50Hz to 1kHz)	10 A to 20 A	0.12%	Using 8½ DMM Fluke 8508A By Direct Method
8	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC High Voltage(50Hz)	1 kV to 25 kV	8.8% to 5.2%	Using HV Probe & DMM By Direct Method
9	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Power - 1 Phase (50Hz)60V to 240V, 0.1A to 5A, 0.5 Lead/Lag to UPF	3 W to 1200 W	0.5% to 0.3%	Using AC Power Meter
10	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage (45 Hz to 1 kHz)	1 V to 100 V	0.11%	Using 6½ DMM Fluke 8846A By Direct Method



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11	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage (45 Hz to 1 kHz)	100 mV to 1 V	0.20% to 0.11%	Using 6½ DMM Fluke 8846A By Direct Method
12	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage (45 Hz to 1 kHz)	100 V to 1000 V	0.11%	Using 6½ DMM Fluke 8846A By Direct Method
13	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage(45Hz to 1kHz)	1 mV to 100 mV	3.7% to 0.2%	Using 6½ DMM Fluke 8846A By Direct Method
14	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage(50Hz to 10kHz)	10 mV to 100 mV	0.081% to 0.024%	Using 8½ DMM Fluke 8508A By Direct Method
15	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage(50Hz to 10kHz)	100 mV to 100 V	0.024% to 0.017%	Using 8½ DMM Fluke 8508A By Direct Method



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16	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage(50Hz to 1kHz)	100 V to 1000 V	0.017% to 0.016%	Using 8½ DMM Fluke 8508A By Direct Method
17	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current (10 Hz to 1 kHz)	30 µA to 300 µA	0.65% to 0.20%	Using Standard Calibrator Fluke 5522A By Direct Method
18	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current (10 Hz to 1 kHz)	300 µA to 300 mA	0.20% to 0.14%	Using Standard Calibrator Fluke 5522A By Direct Method
19	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current (10 Hz to 1 kHz)	300 mA to 3 A	0.14% to 0.21%	Using Standard Calibrator Fluke 5522A By Direct Method
20	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current (45 Hz to 1 kHz)	3 A to 20 A	0.15%	Using Standard Calibrator Fluke 5522A By Direct Method



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21	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current (50 Hz)	20 A to 1000 A	0.61% to 0.35%	Using Fluke 5522A with current coil 5500A By Direct Method
22	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Power - 1 Phase (50Hz)120V to 240V, 0.1A to 20A, 0.2 Lead/Lag to UPF	2.4 W to 4.8 kW	0.65% to 0.17%	Using Standard Calibrator Fluke 5522A By Direct Method
23	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage (45 Hz to 1 k Hz)	300 V to 1000 V	0.04%	Using Standard Calibrator Fluke 5522A By Direct Method
24	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage (45 Hz to 10 kHz)	1 V to 30 V	0.035% to 0.026%	Using Standard Calibrator Fluke 5522A By Direct Method
25	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage (45 Hz to 10 kHz)	100 mV to 1 V	0.031% to 0.035%	Using Standard Calibrator Fluke 5522A By Direct Method



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26	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage (45 Hz to 10 kHz)	30 mV to 100 mV	0.08% to 0.031%	Using Standard Calibrator Fluke 5522A By Direct Method
27	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage (45 Hz to 10 kHz)	30 V to 300 V	0.026% to 0.04%	Using Standard Calibrator Fluke 5522A By Direct Method
28	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage(45Hz to 10kHz)	3 mV to 30 mV	0.25% to 0.08%	Using Standard Calibrator Fluke 5522A By Direct Method
29	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Capacitance (100Hz)	3 µF to 100 µF	0.41% to 0.64%	Using Standard Calibrator Fluke 5522A By Direct Method
30	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Capacitance (100Hz)	700 nF to 3 µF	0.45% to 0.41%	Using Standard Calibrator Fluke 5522A By Direct Method





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31	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Capacitance (1kHz)	1 nF to 10 nF	1.8% to 0.43%	Using Standard Calibrator Fluke 5522A By Direct Method
32	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Capacitance (1kHz)	10 nF to 300 nF	0.43% to 0.28%	Using Standard Calibrator Fluke 5522A By Direct Method
33	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Capacitance (1kHz)	220 pF to 1 nF	5.6% to 1.8%	Using Standard Calibrator Fluke 5522A By Direct Method
34	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Inductance (1kHz)	100 µH to 10 H	1.25% to 1.65%	Using Decade Inductance Box By Direct Method
35	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Power Factor	0.2 PF Lead/Lag to 1 UPF	0.003PF	Using Standard Calibrator Fluke 5522A By Direct Method
36	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	1 A to 10 A	0.081% to 0.18%	Using 6½ DMM Fluke 8846A By Direct Method





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37	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	1 mA to 1 A	0.064% to 0.081%	Using 6½ DMM Fluke 8846A By Direct Method
38	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	1 mA to 100 mA	0.005% to 0.009%	Using 8½ DMM Fluke 8508A By Direct Method
39	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	10 µA to 1 mA	0.35% to 0.064%	Using 6½ DMM Fluke 8846A By Direct Method
40	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	10 µA to 1 mA	0.074% to 0.005%	Using 8½ DMM Fluke 8508A By Direct Method
41	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	10 A to 500 A	1.47% to 1.20%	Using DMM with Current Shunt By Direct Method
42	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	10 A to 20 A	0.060%	Using 8½ DMM Fluke 8508A By Direct Method
43	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	100 mA to 10 A	0.009% to 0.060%	Using 8½ DMM Fluke 8508A By Direct Method
44	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC High Voltage	1 kV to 10 kV	4.5%	Using HV Probe & DMM By Direct Method
45	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	1 ohm to 10 ohm	0.018% to 0.005%	Using 8½ DMM Fluke 8508A By Direct Method



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46	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	1 ohm to 10 ohm	0.36% to 0.060%	Using 6½ DMM Fluke 8846A By Direct Method
47	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	10 M ohm to 10 G ohm	0.01% to 0.3%	Using 8½ DMM Fluke 8508A By Direct Method
48	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	10 M ohm to 100 M ohm	0.047% to 0.93%	Using 6½ DMM Fluke 8846A By Direct Method
49	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	10 mohm to 1 ohm	0.5% to 0.018%	Using 8½ DMM Fluke 8508A By Direct Method
50	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	10 ohm to 100 ohm	0.06% to 0.03%	Using 6½ DMM Fluke 8846A By Direct Method
51	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	10 ohm to 100 ohm	0.005% to 0.002%	Using 8½ DMM Fluke 8508A By Direct Method
52	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	100 k ohm to 10 M ohm	0.005% to 0.01%	Using 8½ DMM Fluke 8508A By Direct Method
53	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	100 k ohm to 10 M ohm	0.045% to 0.047%	Using 6½ DMM Fluke 8846A By Direct Method
54	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	100 M ohm to 1 G ohm	0.93% to 2.29%	Using 6½ DMM Fluke 8846A By Direct Method



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55	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	100 ohm to 100 k ohm	0.03% to 0.045%	Using 6½ DMM Fluke 8846A By Direct Method
56	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	100 ohm to 100 kohm	0.002% to 0.005%	Using 8½ DMM Fluke 8508A By Direct Method
57	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	1 mV to 100 mV	0.41% to 0.060%	Using 6½ DMM Fluke 8846A By Direct Method
58	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	1 mV to 200 mV	0.05% to 0.0035%	Using 8½ DMM Fluke 8508A By Direct Method
59	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	10 V to 100 V	0.0051%	Using 6½ DMM Fluke 8846A By Direct Method
60	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	100 mV to 10 V	0.060% to 0.0051%	Using 6½ DMM Fluke 8846A By Direct Method
61	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	100 V to 1000 V	0.0051% to 0.0059%	Using 6½ DMM Fluke 8846A By Direct Method
62	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	200 mV to 200 V	0.0035% to 0.0007%	Using 8½ DMM Fluke 8508A By Direct Method
63	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	200 V to 1000 V	0.0007% to 0.001%	Using 8½ DMM Fluke 8508A By Direct Method



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64	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	1 A to 10 A	0.03% to 0.062%	Using Standard Calibrator Fluke 5522A By Direct Method
65	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	1 mA to 1 A	0.017% to 0.03%	Using Standard Calibrator Fluke 5522A By Direct Method
66	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	10 µA to 100 µA	0.25% to 0.04%	Using Standard Calibrator Fluke 5522A By Direct Method
67	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	10 A to 20 A	0.062% to 0.12%	Using Standard Calibrator Fluke 5522A By Direct Method
68	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	100 µA to 1 mA	0.04% to 0.017%	Using Standard Calibrator Fluke 5522A By Direct Method
69	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	20 A to 1000 A	0.51% to 0.30%	Using Fluke 5522A with current coil 5500A By Direct Method
70	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	1 mV to 100 mV	0.24% to 0.0041%	Using Standard Calibrator Fluke 5522A By Direct Method
71	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	10 V to 100 V	0.0018% to 0.0037%	Using Standard Calibrator Fluke 5522A By Direct Method
72	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	100 mV to 10 V	0.0041% to 0.0018%	Using Standard Calibrator Fluke 5522A By Direct Method



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73	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	100 V to 1000 V	0.0037% to 0.0024%	Using Standard Calibrator Fluke 5522A By Direct Method
74	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance	0.1 M ohm to 1 G ohm	2.3% to 2.47%	Using Decade Megaohm Box by Direct Method
75	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance	1 G ohm to 1000 G ohm	2.47% to 7.64%	Using Decade Megaohm Box by Direct Method
76	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance	1 k Ohm to 100 k Ohm	0.12% to 0.15%	Using Decade Resistance Box by Direct Method
77	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance	1 kohm to 1 Mohm	0.004%	Using Standard Calibrator Fluke 5522A By Direct Method
78	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance	1 Mohm to 10 Mohm	0.004% to 0.017%	Using Standard Calibrator Fluke 5522A By Direct Method
79	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance	1 Ohm to 1 k Ohm	0.14% to 0.12%	Using Decade Resistance Box by Direct Method
80	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance	1 ohm to 100 ohm	0.12% to 0.006%	Using Standard Calibrator Fluke 5522A By Direct Method
81	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance	10 M ohm to 300 M ohm	0.017% to 0.40%	Using Standard Calibrator Fluke 5522A By Direct Method



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82	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance	100 ohm to 1 k ohm	0.006% to 0.004%	Using Standard Calibrator Fluke 5522A By Direct Method
83	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance	300 M ohm to 1 G ohm	0.40% to 1.78%	Using Standard Calibrator Fluke 5522A By Direct Method
84	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance(0.001)	0.001 ohm	0.18%	Using Standard Resistors at discrete Values by Direct Method
85	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance(0.01)	0.01 ohm	0.15%	Using Standard Resistors at discrete Values by Direct Method
86	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance(0.1)	0.1 ohm	0.7%	Using Standard Resistors at discrete Values by Direct Method
87	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance(0.5)	0.1 ohm to 1 ohm	1.4% to 0.14%	Using Decade Resistance Box by Direct Method
88	ELECTRO-TECHNICAL- ELECTRICAL EQUIPMENT (Source)	AC Energy 1-phase & 3-phase(@ 50Hz)	65 V / 0.5 A / 0.5 Lead/Lag to 240V / 5 A / 1 PF	0.72% to 0.4%	Using three phase Energy Source with built in Counter





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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	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)	Calibration or Measurement Method or procedure
89	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope ( Amplitude Signal)	2.5 mV to 130 V	0.85% to 0.075%	Using Scope Calibrator Fluke 5522A By Direct Method
90	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope ( Amplitude Square Wave @ 1 kHz)	10 mV to 55 V Peak to Peak	0.65% to 0.32%	Using Scope Calibrator Fluke 5522A By Direct Method
91	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Band Width)	50 kHz to 1 GHz	5.9%	Using Scope Calibrator Fluke 5522A By Direct Method
92	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Time Marker)	1 nS to 5 S	0.007% to 0.21%	Using Scope Calibrator Fluke 5522A By Direct Method
93	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth	1 GHz to 8 GHz	5 %	Using RF Source Fluke 96270A
94	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Attenuation(10 MHz to 18 GHz)	10 dB to 30 dB	0.4dB to 1.2dB	Using RF Source Fluke 96270A & RF Power Sensor





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95	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power (10 MHz to 18 GHz)	-20 dBm to 13 dBm	0.20dB to 0.25dB	Using RF Source Fluke 96270A & RF Power Sensor
96	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Frequency	1 MHz to 4 GHz	0.000082% to 0.0001%	Using RF Source Fluke 96270A
97	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Frequency	4 GHz to 27 GHz	0.0001% to 0.0002%	Using RF Source Fluke 96270A
98	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF Power @50 Ohm (1 MHz to 4 GHz)	-37 dBm to 13 dBm	0.6dB to 0.65dB	Using RF Source Fluke 96270A
99	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF Power @50 Ohm (10 MHz to 18 GHz)	-60 dBm to 13 dBm	0.65dB to 1.18dB	Using RF Source Fluke 96270A



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100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E-Type Measure	-200 °C to 1000 °C	0.45°C	Using Standard Calibrator Fluke 5522A By Direct Method
101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J-Type Measure	-200 °C to 1200 °C	0.24°C	Using MFC 5522A By Direct Method
102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-Type Measure	-200 °C to 1350 °C	0.36°C	Using MFC 5522A By Direct Method
103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-Type Measure	-200 °C to 1300 °C	0.36°C	Using MFC 5522A By Direct Method
104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT-100) Measure	-200 °C to 600 °C	0.16°C	Using 6½ DMM Fluke 8846A By Direct Method



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105	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type Measure	250 °C to 1700 °C	0.56°C	Using MFC 5522A By Direct Method
106	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S-Type Measure	300 °C to 1700 °C	0.43°C	Using MFC 5522A By Direct Method
107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T-Type Measure	-250 °C to 400 °C	0.25°C	Using MFC 5522A By Direct Method
108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B- Type	600 °C to 1800 °C	0.58°C	Using Standard Calibrator Fluke 5522A By Direct Method
109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E- Type	-250 °C to 1000 °C	0.45°C	Using Standard Calibrator Fluke 5522A By Direct Method
110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J- Type	-200 °C to 1200 °C	0.26°C	Using Standard Calibrator Fluke 5522A By Direct Method



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111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K- Type	-200 °C to 1350 °C	0.40°C	Using Standard Calibrator Fluke 5522A By Direct Method
112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N- Type	-200 °C to 1300 °C	0.35°C	Using Standard Calibrator Fluke 5522A By Direct Method
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	PT- 100 RTD	-200 °C to 800 °C	0.25°C	Using Standard Calibrator Fluke 5522A By Direct Method
114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type	250 °C to 1700 °C	0.56°C	Using Standard Calibrator Fluke 5522A By Direct Method
115	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S-Type	250 °C to 1700 °C	0.62°C	Using Standard Calibrator Fluke 5522A By Direct Method
116	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T- Type	-200 °C to 400 °C	0.15°C	Using Standard Calibrator Fluke 5522A By Direct Method
117	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	10 Hz to 1 MHz	0.035%	Using 61/2 DMM Fluke 8846A By Direct Method



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118	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time Interval / programmable timers	1 Sec to 9000 Sec	0.20% to 0.15%	Using Time Totalizer By Comparison Method
119	ELECTRO-TECHNICAL- TIME & FREQUENCY (Source)	Frequency	10 Hz to 1 MHz	0.0065% to 0.029%	Using Fluke calibrator 5522A By Direct Method
120	MECHANICAL- ACCELERATION AND SPEED	RPM indicator of Centrifuge, RPM Source / RPM Meter / Rotating Machineries	10 rpm to 1000 rpm	1.0rpm	Using Tachometer by RPM Source by Comparison Method SANAS TR45-02
121	MECHANICAL- ACCELERATION AND SPEED	RPM indicator of Centrifuge, RPM Source / RPM Meter / Rotating Machineries	1000 rpm to 10000 rpm	3.0rpm	Using Tachometer by RPM Source by Comparison Method SANAS TR45-02
122	MECHANICAL- ACCELERATION AND SPEED	Tachometer, Rotation Meters, Tacho Generator (Contact Type) L.C 0.1/1	10 rpm to 100 rpm	1.0rpm	Using Digital Tachometer and RPM Source BY Comparison Method By Using SANAS TR45-02
123	MECHANICAL- ACCELERATION AND SPEED	Tachometer, Rotation Meters, Tacho Generator (Contact Type) L.C 0.1/1	100 rpm to 1000 rpm	2.0rpm	Using Digital Tachometer and RPM Source by Comparison Method By Using SANAS TR45-02



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124	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Rotation Meters, Tacho Generator (Contact Type) L.C 0.1/1	1000 rpm to 6000 rpm	3.5rpm	Using Digital Tachometer and RPM Source by Comparison Method By Using SANAS TR45-02
125	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Indicators (Non Contact Type) L.C. 0.1/1 rpm	10 rpm to 1000 rpm	1.0rpm	Using Digital Tachometer and RPM Source by Comparison Method By Using SANAS TR45-02
126	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Indicators (Non Contact Type) L.C. 0.1/1 rpm	1000 rpm to 10000 rpm	2.7rpm	Using Digital Tachometer and RPM Source by Comparison Method By Using SANAS TR45-02
127	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Indicators (Non Contact Type) L.C. 0.1/1 rpm	10000 rpm to 90000 rpm	6.2rpm	Using Digital Tachometer and RPM Source BY Comparison Method By Using SANAS TR45-02
128	MECHANICAL-ACOUSTICS	Sound Level Meter	94dB & 114dB	0.5dB	Using Sound Level Calibrator By Comparison Method as per IS: 15575-1





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129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plates (Parallelism,Squarness )	300X300 mm	7.1µm	Using Height Gauge Surface table and dial indicators By Comparison Method
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor, Combination Set, Inclinator	360°	3.3arc of min	Using Angle gauge blocks By Comparison Method
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauges (Transmission Only)	Upto 2 mm	2.5µm	Using ULM and Dial Calibration Tester By Comparison Method
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge	Upto 2 mm	2µm	Using Coating Thickness Foil By Comparison Method
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth micrometer L.C.:0.01mm	Upto 150 mm	8.3µm	Using Gauge Blocks & Long gauge blocks By Comparison Method Base on BS:6468





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134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C.0.001mm	Upto 100 mm	8µm	Using Gauge Blocks By Comparison Method Base On IS:2092
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer Square (Squarness)	Upto 300 mm	7.2µm	Height Gauge Surface table and dial indicators By Comparison Method Base On IS:2103
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.0.0001 mm	Upto 25 mm	0.5µm	Using Gauge Blocks& Long gauge blocks By Comparison Method Base on IS:2967
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.0.001 mm L.C.0.01 mm	25 mm to 500 mm	4.2µm	Using Gauge Blocks& Long gauge blocks By Comparison Method Base on IS:2967
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.0.01 mm	500 mm to 1000 mm	12.6µm	Using Gauge Blocks& Long gauge blocks By Comparison Method Base on IS:2967



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139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauges	Upto 2 mm	1.7µm	Using Micrometer/ULM By Comparison Method Base on IS:3179
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Groove Micrometer	Upto 100 mm	2µm	Using Gauge blocks By Comparison Method
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge(digital, dial and Vernier)L.C.0.001mm	300 mm to 600 mm	9.3µm	Using Gauge Blocks / Long gauge blocks By Comparison Method Base on IS:2921
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge(digital, dial and Vernier)L.C.0.001mm	Upto 300 mm to	6.6µm	Using Gauge Blocks / Long gauge blocks By Comparison Method Base on IS:2921
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge(digital, dial and Vernier)L.C.0.01mm	600 mm to 1000 mm	15.3µm	Using Gauge Blocks / Long gauge blocks By Comparison Method Base on IS:2921



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144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal/External Groove Dial Gauge(Travel Only)L.C.0.01mm	Upto 100 mm	6µm	Using Gauge Blocks, ULM By Comparison Method
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal/Inside Micrometer (Travel Only)L.C.0.01mm	Upto 50 mm	7.2µm	Using ULM By Comparison Method
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial GaugeL.C:- 0.001 mm	Upto 2mm	1.72µm	Using ULM and Dial Calibration Tester By Comparison Method Base on IS:11498
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Millimess	Upto 1 mm	1.7µm	Using ULM By Comparison Method
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper	Upto 100 mm	28.9µm	Using Gauge blocks By Comparison Method



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149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauges	Upto 300 mm	2.2µm	Using ULM By Comparison Method Base on IS:3455
150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	1.8 mm to 100 mm	3.4µm	Using ULM By Comparison Method Base on IS:3544
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	100 mm to 300 mm	3.8µm	Using ULM By Comparison Method Base on IS:3544
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial GaugesL.C.0.001mm	Upto 100 mm	1.5µm	Using ULM By Comparison Method Base on IS:2092
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge/Form Gauge	0.5 mm to 100 mm	7.3µm	Using Profile Projector By Comparison Method



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154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar	Upto 500 mm	24 Sec of arc	Using Angle gauges, dial indicators, Slip Gauge Set By Comparison Method Base On IS:4239
155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Upto 300 mm	4.6µm	Using Gauge blocks / ULM By Comparison Method Base on IS:3477
156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge	Upto 100 mm	3.9µm	Using ULM By Comparison Method
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring Gauge	Upto 100 mm	3.1µm	Using ULM By Comparison Method
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective dia)	upto 100 mm	4.0µm	Using ULM By Comparison Method



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159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Effective dia)	upto 100 mm	4.3µm	Using ULM By Comparison Method
160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	0.032 mm to 25 mm	8.2µm	Using Profile Projector / Digital Vernier By Comparison Method Base On IS:460(part I,II,II)
161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	25 mm to 300 mm	8.1µm	Using Profile Projector / Digital Vernier By Comparison Method Base On IS:460(part I,II,II)
162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Foils	Upto 2 mm	1.7µm	Using ULM/Micrometer By Comparison Method
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge	0.1 mm to 25 mm	7.3µm	Using Profile Projector By Comparison Method





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164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective dia)	upto 100 mm	3.8µm	Using ULM By Comparison Method Base on IS:6311
165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective Diameter)	100 mm to 300 mm	5µm	Using ULM By comparison Method Base on IS:6311
166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective dia)	1.8 mm to 100 mm	3.8µm	Using ULM By Comparison Method Base on IS:2334
167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective dia)	100 mm to 300 mm	3.8µm	Using ULM By Comparison Method Base on IS:2334
168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Pin Micrometer	upto 100 mm	8.2µm	Using plain ring gauges By Comparison Method





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169	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge	upto 300 mm	5µm	Using Gauge Blocks & Long gauge blocks By Comparison Method
170	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Blocks (Parallelism)(Squares)(Symmetrically)	upto 250 mm	10µm	Using Test mandrel and Dial indicators By Comparison Method Base On IS:2949
171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier calipersL.C.0.01mm	Upto 300 mm	13.6µm	Using Caliper Checker / Long gauges Blocks By Comparison Method Base on IS:3651(part 1&2)
172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier calipersL.C.0.01mmL.C.0.02mm	300 mm to 1000 mm	15.9µm	Using Caliper Checker / Long gauges Blocks By Comparison Method Base on IS:3651(part 1&2)
173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Depth GaugeL.C.0.01mm	upto 600 mm	11.0µm	Using Gauge Blocks / Long gauge blocks By Comparison Method Base on IS:4213
174	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Measuring Instrument L.C.0.0001 mm	Upto 1000 mm	9.3µm	Using Long gauge blocks By Comparison Method Base On IS:2921



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175	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Angle Gauge, Angular Scale, Angle graticule	0 ° to 360 °	0.4arc of min	Using Profile Project By Comparison Method
176	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester, Micrometer Head, L.C: 0.0002 mm	0 mm to 25 mm	0.3µm	Using ULM By Comparison Method
177	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Extension Rods Of internal Mic./Length Bars/Width gauge/Setting Rod of Ext. Mic.	300 mm to 1000 mm	14.0µm	Using Electronic height gauge & Surface Plate as Reference By Comparison Method Base on IS:2966
178	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Extension Rods Of internal Mic./Length Bars/Width gauge/Setting Rod of Ext. Mic.	Upto 300 mm	3.0µm	Using Electronic height gauge & Surface Plate as Reference By Comparison Method Base on IS:2966
179	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge Grade 0, I, II	0.5 mm to 25 mm	0.18µm	Using Gauge blocks Comparator & "K" Grade Slip Gauges By Comparison Method Base on IS:3650
180	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge Grade 0, I, II	25 mm to 50 mm	0.21µm	Using Gauge blocks Comparator & "K" Grade Slip Gauges By Comparison Method Base on IS:3650



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181	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge Grade 0,I,II	50 mm to 100 mm	0.30µm	Using Gauge blocks Comparator & "K" Grade Slip Gauges By Comparison Method Base on IS:3650
182	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tape & Scale Measuring Machine	Upto 1000 mm	(0.8+0.93L)µm; L in meter	Using Laser Interferometer By Comparison Method
183	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Thread Measuring Wire /Cylindrical Measuring pins	0.17 mm to 6.35 mm	0.7µm	Using ULM By Comparison Method Base on IS:11103
184	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Thread Measuring Wire /Cylindrical Measuring pins	Upto 20 mm	1.0µm	Using ULM By Comparison Method Base on IS:11103
185	MECHANICAL-FORCE PROVING INSTRUMENTS	Load Cells (With/Without Indicator), Proving Rings, Dynamometer (Compression and Tension Mode) (Class 00 and Coarser)	0.5 N to 10 N	0.04%	Using Dead Weight Force Calibration Machine with Stainless Steel / Dead Weight and Loading Hangers as per IS:4169-2014 and ISO 376-2011



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186	MECHANICAL-FORCE PROVING INSTRUMENTS	Load Cells (With/Without Indicator), Proving Rings, Dynamometer (Compression and Tension Mode) (Class 00 and Coarser)	10 N to 5000 N	0.06%	Using Dead Weight Force Calibration Machine with Stainless Steel / Dead Weight and Loading Hangers as per IS:4169-2014 and ISO 376-2011
187	MECHANICAL-FORCE PROVING INSTRUMENTS	Load Cells , Proving Rings, Dynamometer (Compression and Tension Mode) (Class 1 and Coarser)	5 kN to 50 kN	0.064%	Using Force Comparator Machine and Calibrated Load Cells as per IS 4169-2014 and ISO 376-2011
188	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge, Force Gauges (Push and Pull Mode)	10 N to 500 N	0.67%	Using Dead Weight Force Calibration Machine with Stainless Steel / Dead Weight and Loading Hangers and as per VDI/VDE-2624
189	MECHANICAL-PRESSURE BALANCE OR DEAD WEIGHT TESTER	Pressure HydraulicDead Weight Tester	6 bar to 60 bar	0.016% rdg	Using Dead Weight Tester and Cross Float Method (Generated Pressure Method)
190	MECHANICAL-PRESSURE BALANCE OR DEAD WEIGHT TESTER	Pressure HydraulicDead Weight Tester	60 bar to 1200 bar	0.016% rdg	Using Dead Weight Tester and Cross Float Method (Generated Pressure Method)



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191	MECHANICAL-PRESSURE BALANCE OR DEAD WEIGHT TESTER	Pressure PneumaticDead Weight Tester	2 bar to 50 bar	0.06% rdg	Using Dead Weight Tester and Cross Float Method (Generated Pressure Method)
192	MECHANICAL-PRESSURE INDICATING DEVICES	Absolute PressurePneumaticPre ssure Gauges, Pressure Indicator, Pressure Transmitter / Transducers and Barometers	25 mbar to 1050 mbar	2.84mbar	Using Absolute Pressure Calibrator By Comparison Method as per DKD-R6-1
193	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Pressure Gauge,Digital Pressure Guage,Transmitter/Transducer,Pressure Switch	0 bar to 1000 bar	1.2bar	Using Digital Pressure Gauge / Pressure Calibrator By Comparison Method as per DKD R6-1
194	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Pressure Gauge,Digital Pressure Guage,Transmitter/Transducer,Pressure Switch	0 bar to 200 bar	0.4bar	Using Digital Pressure Gauge / Pressure Calibrator By Comparison Method as per DKD R6-1
195	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Pressure Gauge,Digital Pressure Guage,Transmitter/Transducer,Pressure Switch	0 bar to 700 bar	0.81bar	Using Digital Pressure Gauge / Pressure Calibrator By Comparison Method as per DKD R6-1



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196	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure Magnehelic GaugeManometerPressureTransmitter	0 Pa to 980 Pa	2.75Pa	Using Low Pressure Calibrator By Comparison Method as per DKD R6-1
197	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure Magnehelic GaugeManometerPressureTransmitter	980 Pa to 19600 Pa	20.6Pa	Using Low Pressure Calibrator By Comparison Method as per DKD R6-1
198	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge, Digital Pressure Gauge, Transmitter/Transducer ,Pressure Switch	0 bar to 2 bar	0.004bar	Using Digital Pressure Gauge / Hand Pump By Comparison Method as per DKD R6-1
199	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic PressureGaugeDigital Pressure Gauge,Transmitter/Transducer,Pressure Switch	0 bar to 40 bar	0.1bar	Using Digital Pressure Gauge / Hand Pump By Comparison Method as per DKD R6-1
200	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure HydraulicPressure Calibrators, Pressure Gauges and Transducers	6 bar to 60 bar	0.012bar	Using Dead Weight Tester (Hydraulic) by Comparison method as per DKD-R6-1
201	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic, Pressure Calibrators, Pressure Gauges and Transducers	60 bar to 1200 bar	0.23bar	Using Dead Weight Tester (Hydraulic) by Comparison method as per DKD-R6-1





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202	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Pressure Calibrators, Pressure Gauges and Transducers	2 bar to 50 bar	0.01bar	Using Dead Weight Tester (Pneumatic) by Comparison method as per DKD-R6-1
203	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic, Pressure Calibrators, Pressure Gauges and Transducers	(-)-950 mbar to (-)15 mbar	0.14mbar	Using Dead Weight Tester (Pneumatic and Vacuum) by Comparison method as per DKD-R6-1
204	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic, Pressure Calibrators, Pressure Gauges and Transducers	15 mbar to 1000 mbar	0.14mbar	Using Dead Weight Tester (Pneumatic and Vacuum) by Comparison method as per DKD-R6-1
205	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Vacuum GaugeDigital Vacuum Gauge,Vacuum Transmitter/Transducer Vacuum switch	- 0.95 bar to 0 bar	0.002bar	Using Digital Pressure Gauge / Vaccum Pump By Comparison Method as per DKD R6-2
206	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench Type I Class B,C,D,EType II Class A,B,D,E	1 Nm to 100 Nm	1.9%	Using Digital Torque Wrench Tester By Comparison Method as per IS:6789
207	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench Type I Class B,C,D,EType II Class A,B,D,E	100 Nm to 1000 Nm	1.5%	Using Digital Torque Wrench Tester By Comparison Method as per IS:6789





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208	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench Type I Class B,C,D,E Type II Class A,B,D,E	1000 Nm to 2000 Nm	1.6%	Using Digital Torque Wrench Tester By Comparison Method as per IS:6789
209	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator, Torque Transducers with and without indicator, Torque Meter and Torque Tester Class 0.2 and Coarser	0.5 Nm to 5 Nm	0.28%	Using Dead Weight Torque Calibration System Consisting of Lever Arm and Dead Weight As Per BS 7882-2008
210	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator, Torque Transducers with and without indicator, Torque Meter and Torque Tester Class 0.2 and Coarser	2 Nm to 20 Nm	0.04%	Using Dead Weight Torque Calibration System Consisting of Lever Arm and Dead Weights As per BS 7882-2008
211	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator, Torque Transducers with and without indicator, Torque Meter and Torque Tester Class 0.2 and Coarser	20 Nm to 200 Nm	0.04%	Using Dead Weight Torque Calibration System Consisting of Lever Arm and Dead Weights As per BS 7882-2008
212	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator, Torque Transducers with and without indicator, Torque Meter and Torque Tester Class 0.2 and Coarser	200 Nm to 2000 Nm	0.074%	Using Dead Weight Torque Calibration System Consisting of Lever Arm and Dead Weights As per BS 7882-2008



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213	MECHANICAL-VOLUME	Glass Pipettes (Graduated / non graduated) and Glass burette, Measuring Cylinder, Volumetric Flask, Conical Flask Beaker and jar.	>2500 ml to 5000 ml	14.0ml	Using weighing Balance of Range 6 kg / 10 mg and 30 kg / 100 mg as per ISO 4787 and ISO/TR 20461
214	MECHANICAL-VOLUME	Glass Pipettes (Graduated / non graduated) and Glass Burette, Measuring Cylinder, Volumetric Flask, Conical Flask, Beaker and Jar	>1 ml to 100 ml	0.7ml	Using weighing Balance of Range 1kg / 1mg, 6 kg / 10 mg and 30 kg / 100 mg as per ISO 4787 and ISO/TR 20461
215	MECHANICAL-VOLUME	Glass Pipettes (Graduated / non graduated) and Glass Burette, Measuring Cylinder, Volumetric Flask, Conical Flask, Beaker and Jar	>100 ml to 500 ml	0.31ml	Using weighing Balance of Range 1kg / 1mg, 6 kg / 10 mg and 30 kg / 100 mg as per ISO 4787 and ISO/TR 20461
216	MECHANICAL-VOLUME	Glass Pipettes (Graduated / non graduated) and Glass Burette, Measuring Cylinder, Volumetric Flask, Conical Flask, Beaker and Jar	>1000 ml to 2500 ml	8.0ml	Using weighing Balance of Range 1kg / 1mg, 6 kg / 10 mg and 30 kg / 100 mg as per ISO 4787 and ISO/TR 20461



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217	MECHANICAL-VOLUME	Glass Pipettes (Graduated / non graduated) and Glass Burette, Measuring Cylinder, Volumetric Flask, Conical Flask, Beaker and Jar	>500 ml to 1000 ml	4.6ml	Using weighing Balance of Range 1kg / 1mg, 6 kg / 10 mg and 30 kg / 100 mg as per ISO 4787 and ISO/TR 20461
218	MECHANICAL-VOLUME	Glass Pipettes (Graduated / non graduated) and Glass Burette, Measuring Cylinder, Volumetric Flask, Conical Flask, Beaker and Jar	>5000 ml to 10000 ml	20.14ml	Using weighing Balance of Range 1kg / 1mg, 6 kg / 10 mg and 30 kg / 100 mg as per ISO 4787 and ISO/TR 20461
219	MECHANICAL-VOLUME	Piston Pipettes and Micropipettes	>10 µl to 100 µl	0.31µl	Using weighing Balance of Range 82 g / 220 g and Readability 0.01 mg /0.1 mg as per ISO 8655-6 ISO/TR 20461
220	MECHANICAL-VOLUME	Piston Pipettes and Micropipettes	>100 µl to 1000 µl	3.6µl	Using weighing Balance of Range 82 g / 220 g and Readability 0.01 mg /0.1 mg as per ISO 8655-6 ISO/TR 20461



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221	MECHANICAL-VOLUME	Piston Pipettes and Micropipettes	>1000 µl to 5000 µl	13.1µl	Using weighing Balance of Range 82 g / 220 g and Readability 0.01 mg /0.1 mg as per ISO 8655-6 ISO/TR 20461
222	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances d=0.01 mg (Class I and Coarser)	1 mg to 80 g	0.08mg	Using E2 Class Weights as per OIML R-76
223	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balancesd=0.1g (Class II and Coarser)	>6 kg to 30 kg	2.1g	Using F1 Class Weights as per OIML R-76
224	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balancesd=0.1mg (Class I and Coarser)	>80 g to 200 g	1.1mg	Using E2 Class Weights as per OIML R-76
225	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balancesd=10 mg (Class II and Coarser)	>1 kg to 6 kg	11.43mg	Using F1 Class Weights as per OIML R-76
226	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balancesd=10 g (Class IV and Coarser)	>30 kg to 100 kg	8.3g	Using M1 Class Weights as per OIML R-76
227	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balancesd=1mg (Class II and Coarser)	>200 g to 1 kg	1.8mg	Using F1 Class Weights as per OIML R-76
228	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balancesd=200 g (Class IV and Coarser)	>500 kg to 1000 kg	200g	Using M1 Class Weights as per OIML R-76



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229	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balancesd=50 g (Class IV and Coarser)	>100 kg to 500 kg	50g	Using M1 Class Weights as per OIML R-76
230	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	1 g	0.015mg	Using E2 Class Standard Weights and Electronic Balance upto 80 g of d=0.01 mg and upto 200 g of d=0.1 mg Using ABBA method as per OIML R111:2004
231	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	1 kg	0.0018g	Using F1 Class Standard Weights and Electronic Balance upto 1 kg of d=1 mg, upto 6 kg of d=10 mg and upto 30 kg of d=100 mg Using ABBA method as per OIML R111:2004
232	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	1 mg	0.015mg	Using E2 Class Standard Weights and Electronic Balance upto 80 g of d=0.01 mg and upto 200 g of d=0.1 mg Using ABBA method as per OIML R111:2004



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233	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	10 g	0.015mg	Using E2 Class Standard Weights and Electronic Balance upto 80 g of d=0.01 mg and upto 200 g of d=0.1 mg Using ABBA method as per OIML R111:2004
234	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	10 kg	0.1g	Using M1 Class Standard Weights and Electronic Balance upto 1 kg of d=1 mg, upto 6 kg of d=10 mg and upto 30 kg of d=100 mg Using ABBA method as per OIML R111:2004
235	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	10 mg	0.015mg	Using E2 Class Standard Weights and Electronic Balance upto 80 g of d=0.01 mg and upto 200 g of d=0.1 mg Using ABBA method as per OIML R111:2004
236	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	100 g	0.13mg	Using E2 Class Standard Weights and Electronic Balance upto 80 g of d=0.01 mg and upto 200 g of d=0.1 mg Using ABBA method as per OIML R111:2004





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237	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	100 mg	0.015mg	Using E2 Class Standard Weights and Electronic Balance upto 80 g of d=0.01 mg and upto 200 g of d=0.1 mg Using ABBA method as per OIML R111:2004
238	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	2 g	0.015mg	Using E2 Class Standard Weights and Electronic Balance upto 80 g of d=0.01 mg and upto 200 g of d=0.1 mg Using ABBA method as per OIML R111:2004
239	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	2 kg	0.01g	Using F1 Class Standard Weights and Electronic Balance upto 1 kg of d=1 mg, upto 6 kg of d=10 mg and upto 30 kg of d=100 mg Using ABBA method as per OIML R111:2004
240	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	2 mg	0.015mg	Using E2 Class Standard Weights and Electronic Balance upto 80 g of d=0.01 mg and upto 200 g of d=0.1 mg Using ABBA method as per OIML R111:2004



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241	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	20 g	0.015mg	Using E2 Class Standard Weights and Electronic Balance upto 80 g of d=0.01 mg and upto 200 g of d=0.1 mg Using ABBA method as per OIML R111:2004
242	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	20 kg	0.15g	Using M1 Class Standard Weights and Electronic Balance upto 1 kg of d=1 mg, upto 6 kg of d=10 mg and upto 30 kg of d=100 mg Using ABBA method as per OIML R111:2004
243	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	20 mg	0.015mg	Using E2 Class Standard Weights and Electronic Balance upto 80 g of d=0.01 mg and upto 200 g of d=0.1 mg Using ABBA method as per OIML R111:2004
244	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	200 g	0.15mg	Using E2 Class Standard Weights and Electronic Balance upto 80 g of d=0.01 mg and upto 200 g of d=0.1 mg Using ABBA method as per OIML R111:2004



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245	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	200 mg	0.015mg	Using E2 Class Standard Weights and Electronic Balance upto 80 g of d=0.01 mg and upto 200 g of d=0.1 mg Using ABBA method as per OIML R111:2004
246	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	5 g	0.015mg	Using E2 Class Standard Weights and Electronic Balance upto 80 g of d=0.01 mg and upto 200 g of d=0.1 mg Using ABBA method as per OIML R111:2004
247	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	5 kg	0.012g	Using F1 Class Standard Weights and Electronic Balance upto 1 kg of d=1 mg, upto 6 kg of d=10 mg and upto 30 kg of d=100 mg Using ABBA method as per OIML R111:2004
248	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	5 mg	0.015mg	Using E2 Class Standard Weights and Electronic Balance upto 80 g of d=0.01 mg and upto 200 g of d=0.1 mg Using ABBA method as per OIML R111:2004



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249	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	50 g	0.04mg	Using E2 Class Standard Weights and Electronic Balance upto 80 g of d=0.01 mg and upto 200 g of d=0.1 mg Using ABBA method as per OIML R111:2004
250	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	50 mg	0.015mg	Using E2 Class Standard Weights and Electronic Balance upto 80 g of d=0.01 mg and upto 200 g of d=0.1 mg Using ABBA method as per OIML R111:2004
251	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	500 g	0.0013g	Using F1 Class Standard Weights and Electronic Balance upto 1 kg of d=1 mg, upto 6 kg of d=10 mg and upto 30 kg of d=100 mg Using ABBA method as per OIML R111:2004
252	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	500 mg	0.015mg	Using E2 Class Standard Weights and Electronic Balance upto 80 g of d=0.01 mg and upto 200 g of d=0.1 mg Using ABBA method as per OIML R111:2004



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253	THERMAL- SPECIFIC HEAT & HUMIDITY	Thermo Hygrometers, Data Loggers, Hygrometer, Humidity Meter with Sensor, Humidity Transmitter	20 %RH to 95 % RH @ 25°C	2.3% RH	Using Temperature and Humidity Meter and Humidity generator By Comparison Method
254	THERMAL- SPECIFIC HEAT & HUMIDITY	Thermo Hygrometers, Data Loggers, Hygrometer, Humidity Meter with Sensor, Humidity Transmitter	5 °C to 50 °C @ 50 % RH	1.04°C	Using Temperature and Humidity Meter and Humidity generator By Comparison Method
255	THERMAL- TEMPERATURE	Infra Red Thermometers, Pyrometers	50 °C to 500 °C	6.34°C	Using Infrared Thermometer & Black Body Source by Comparison Method
256	THERMAL- TEMPERATURE	Liquid in Glass Thermometer	-80 °C to 50 °C	0.349°C	Using 4-wire RTD with Digital temp.indicator,Low temperature Liquid Bath & Oil Bath By Comparison method
257	THERMAL- TEMPERATURE	Liquid in Glass Thermometers	50 °C to 250 °C	0.386°C	Using 4-Wire RTD with Digital Temperature Indicator, Low Temperature Liquid Bath and Oil Bath By Comparison method



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258	THERMAL-TEMPERATURE	RTDs, Thermocouples (With and Without Indicators), Data Loggers, Recorders, Transmitters, Digital Thermometers, Temperature Gauges, Temperature Switches	(-)-30 °C to 50 °C	0.2°C	Using 4-Wire RTD with Digital Temperature Indicator, Dry Bath and Oil Bath by Comparison method
259	THERMAL-TEMPERATURE	RTDs, Thermocouples (With and Without Indicators), Data Loggers, Recorders, Transmitters, Digital Thermometers, Temperature Gauges, Temperature Switches	(-)-80 °C to 50 °C	0.2°C	Using 4-Wire RTD with Digital Temperature Indicator and Liquid Bath By Comparison method
260	THERMAL-TEMPERATURE	RTDs, Thermocouples (With and Without Indicators), Data Loggers, Recorders, Transmitters, Digital Thermometers, Temperature Gauges, Temperature Switches	250 °C to 600 °C	1.856°C	Using S- Type Thermocouple With Digital Temperature Indicator and Dry Bath by Comparison method





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261	THERMAL-TEMPERATURE	RTDs, Thermocouples (With and Without Indicators), Data Loggers, Recorders, Transmitters, Digital Thermometers, Temperature Gauges, Temperature Switches	50 °C to 250 °C	0.288°C	Using 4-Wire RTD with Digital Temperature Indicator, Dry Bath and Oil Bath by Comparison method
262	THERMAL-TEMPERATURE	RTDs, Thermocouples (With and Without Indicators), Data Loggers, Recorders, Transmitters, Digital Thermometers, Temperature Gauges, Temperature Switches	600 °C to 1200 °C	2.5°C	Using S- Type Thermocouple With Digital Temperature Indicator and Dry Bath by Comparison method
263	THERMAL-TEMPERATURE	Temperature Indicator Of Liquid Bath, Dry Block Furnace, Freezers, Oven, Incubator / Autoclave (for non medical applications), Centrifuge Chamber, Furnace	(-)-80 °C to 250 °C	0.416°C	Using 4-Wire RTD with Digital Temperature Indicator, By Comparison method (Single Position)



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264	THERMAL-TEMPERATURE	Temperature Indicator Of Liquid Bath, Dry Block Furnace, Freezers, Oven, Incubator / Autoclave (for non medical applications), Centrifuge Chamber, Furnace	250 °C to 600 °C	1.86°C	Using S-Type Thermocouple With Digital Temperature Indicator By Comparison method (Single Position)
265	THERMAL-TEMPERATURE	Temperature Indicator Of Liquid Bath, Dry Block Furnace, Freezers, Oven, Incubator / Autoclave (for non medical applications), Centrifuge Chamber, Furnace	600 °C to 1200 °C	2.5°C	Using S-Type Thermocouple With Digital Temperature Indicator By Comparison method (Single Position)



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<b>Site Facility</b>					
1	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current (50 Hz to 1 kHz)	1 A to 10 A	0.17% to 0.24%	Using 6½ DMM Fluke 8846A By Direct Method
2	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current (50 Hz to 1 kHz)	100 µA to 100 mA	0.17%	Using 6½ DMM Fluke 8846A By Direct Method
3	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current (50 Hz to 1 kHz)	100 mA to 1 A	0.17%	Using 6½ DMM Fluke 8846A By Direct Method
4	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC High Voltage(50Hz)	1 kV to 25 kV	8.8% to 5.2%	Using HV Probe & DMM By Direct Method
5	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Power - 1 Phase (50Hz)60V to 240V, 0.1A to 5A, 0.5 Lead/Lag to UPF	3 W to 1200 W	0.5% to 0.3%	Using AC Power Meter



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<b>Site Facility</b>					
6	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage (45 Hz to 1 kHz)	1 V to 100 V	0.11%	Using 6½ DMM Fluke 8846A By Direct Method
7	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage (45 Hz to 1 kHz)	100 mV to 1 V	0.20% to 0.11%	Using 6½ DMM Fluke 8846A By Direct Method
8	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage (45 Hz to 1 kHz)	100 V to 1000 V	0.11%	Using 6½ DMM Fluke 8846A By Direct Method
9	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage(45Hz to 1kHz)	1 mV to 100 mV	3.7% to 0.2%	Using 6½ DMM Fluke 8846A By Direct Method
10	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current (10 Hz to 1 kHz)	30 µA to 300 µA	0.65% to 0.20%	Using Standard Calibrator Fluke 5522A By Direct Method



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<b>Site Facility</b>					
11	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current (10 Hz to 1 kHz)	300 µA to 300 mA	0.20% to 0.14%	Using Standard Calibrator Fluke 5522A By Direct Method
12	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current (10 Hz to 1 kHz)	300 mA to 3 A	0.14% to 0.21%	Using Standard Calibrator Fluke 5522A By Direct Method
13	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current (45 Hz to 1 kHz)	3 A to 20 A	0.15%	Using Standard Calibrator Fluke 5522A By Direct Method
14	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current (50 Hz)	20 A to 1000 A	0.61% to 0.35%	Using Fluke 5522A with current coil 5500A By Direct Method
15	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Power - 1 Phase (50Hz)120V to 240V, 0.1A to 20A, 0.2 Lead/Lag to UPF	2.4 W to 4.8 kW	0.65% to 0.17%	Using Standard Calibrator Fluke 5522A By Direct Method



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<b>Site Facility</b>					
16	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage (45 Hz to 1 k Hz)	300 V to 1000 V	0.04%	Using Standard Calibrator Fluke 5522A By Direct Method
17	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage (45 Hz to 10 kHz)	1 V to 30 V	0.035% to 0.026%	Using Standard Calibrator Fluke 5522A By Direct Method
18	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage (45 Hz to 10 kHz)	100 mV to 1 V	0.031% to 0.035%	Using Standard Calibrator Fluke 5522A By Direct Method
19	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage (45 Hz to 10 kHz)	30 mV to 100 mV	0.08% to 0.031%	Using Standard Calibrator Fluke 5522A By Direct Method
20	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage (45 Hz to 10 kHz)	30 V to 300 V	0.026% to 0.04%	Using Standard Calibrator Fluke 5522A By Direct Method





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<b>Site Facility</b>					
21	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage(45Hz to 10kHz)	3 mV to 30 mV	0.25% to 0.08%	Using Standard Calibrator Fluke 5522A By Direct Method
22	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Capacitance (100Hz)	3 µF to 100 µF	0.41% to 0.64%	Using Standard Calibrator Fluke 5522A By Direct Method
23	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Capacitance (100Hz)	700 nF to 3 µF	0.45% to 0.41%	Using Standard Calibrator Fluke 5522A By Direct Method
24	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Capacitance (1kHz)	1 nF to 10 nF	1.8% to 0.43%	Using Standard Calibrator Fluke 5522A By Direct Method
25	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Capacitance (1kHz)	10 nF to 300 nF	0.43% to 0.28%	Using Standard Calibrator Fluke 5522A By Direct Method



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<b>Site Facility</b>					
26	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Capacitance (1kHz)	220 pF to 1 nF	5.6% to 1.8%	Using Standard Calibrator Fluke 5522A By Direct Method
27	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Inductance (1kHz)	100 µH to 10 H	1.25% to 1.65%	Using Decade Inductance Box By Direct Method
28	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Power Factor	0.2 PF Lead/Lag to 1 UPF	0.003PF	Using Standard Calibrator Fluke 5522A By Direct Method
29	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	1 A to 10 A	0.081% to 0.18%	Using 6½ DMM Fluke 8846A By Direct Method
30	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	1 mA to 1 A	0.064% to 0.081%	Using 6½ DMM Fluke 8846A By Direct Method
31	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	10 µA to 1 mA	0.35% to 0.064%	Using 6½ DMM Fluke 8846A By Direct Method



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<b>Site Facility</b>					
32	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	10 A to 500 A	1.47% to 1.20%	Using DMM with Current Shunt By Direct Method
33	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC High Voltage	1 kV to 10 kV	4.5%	Using HV Probe & DMM By Direct Method
34	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	1 ohm to 10 ohm	0.36% to 0.060%	Using 6½ DMM Fluke 8846A By Direct Method
35	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	10 M ohm to 100 M ohm	0.047% to 0.93%	Using 6½ DMM Fluke 8846A By Direct Method
36	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	10 ohm to 100 ohm	0.06% to 0.03%	Using 6½ DMM Fluke 8846A By Direct Method
37	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	100 k ohm to 10 M ohm	0.045% to 0.047%	Using 6½ DMM Fluke 8846A By Direct Method
38	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	100 M ohm to 1 G ohm	0.93% to 2.29%	Using 6½ DMM Fluke 8846A By Direct Method
39	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Resistance	100 ohm to 100 k ohm	0.03% to 0.045%	Using 6½ DMM Fluke 8846A By Direct Method



# National Accreditation Board for Testing and Calibration Laboratories

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## SCOPE OF ACCREDITATION

Laboratory Name EXCEL CALIBRATION PVT LTD, PLOT NO.5-A/9, 1ST FLOOR, ROAD NO. 1 IDA NACHARAM, HYDERABAD, TELANGANA , INDIA

Accreditation Standard ISO/IEC 17025:2017

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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	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)	Calibration or Measurement Method or procedure
<b>Site Facility</b>					
40	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	1 mV to 100 mV	0.41% to 0.060%	Using 6½ DMM Fluke 8846A By Direct Method
41	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	10 V to 100 V	0.0051%	Using 6½ DMM Fluke 8846A By Direct Method
42	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	100 mV to 10 V	0.060% to 0.0051%	Using 6½ DMM Fluke 8846A By Direct Method
43	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	100 V to 1000 V	0.0051% to 0.0059%	Using 6½ DMM Fluke 8846A By Direct Method
44	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	1 A to 10 A	0.03% to 0.062%	Using Standard Calibrator Fluke 5522A By Direct Method
45	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	1 mA to 1 A	0.017% to 0.03%	Using Standard Calibrator Fluke 5522A By Direct Method
46	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	10 µA to 100 µA	0.25% to 0.04%	Using Standard Calibrator Fluke 5522A By Direct Method
47	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	10 A to 20 A	0.062% to 0.12%	Using Standard Calibrator Fluke 5522A By Direct Method



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<b>Site Facility</b>					
48	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	100 µA to 1 mA	0.04% to 0.017%	Using Standard Calibrator Fluke 5522A By Direct Method
49	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	20 A to 1000 A	0.51% to 0.30%	Using Fluke 5522A with current coil 5500A By Direct Method
50	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	1 mV to 100 mV	0.24% to 0.0041%	Using Standard Calibrator Fluke 5522A By Direct Method
51	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	10 V to 100 V	0.0018% to 0.0037%	Using Standard Calibrator Fluke 5522A By Direct Method
52	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	100 mV to 10 V	0.0041% to 0.0018%	Using Standard Calibrator Fluke 5522A By Direct Method
53	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	100 V to 1000 V	0.0037% to 0.0024%	Using Standard Calibrator Fluke 5522A By Direct Method
54	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance	0.1 M ohm to 1 G ohm	2.3% to 2.47%	Using Decade Megaohm Box by Direct Method
55	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance	1 G ohm to 1000 G ohm	2.47% to 7.64%	Using Decade Megaohm Box by Direct Method



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<b>Site Facility</b>					
56	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance	1 k Ohm to 100 k Ohm	0.12% to 0.15%	Using Decade Resistance Box by Direct Method
57	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance	1 kohm to 1 Mohm	0.004%	Using Standard Calibrator Fluke 5522A By Direct Method
58	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance	1 Mohm to 10 Mohm	0.004% to 0.017%	Using Standard Calibrator Fluke 5522A By Direct Method
59	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance	1 Ohm to 1 k Ohm	0.14% to 0.12%	Using Decade Resistance Box by Direct Method
60	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance	1 ohm to 100 ohm	0.12% to 0.006%	Using Standard Calibrator Fluke 5522A By Direct Method
61	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance	10 M ohm to 300 M ohm	0.017% to 0.40%	Using Standard Calibrator Fluke 5522A By Direct Method
62	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance	100 ohm to 1 k ohm	0.006% to 0.004%	Using Standard Calibrator Fluke 5522A By Direct Method
63	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance	300 M ohm to 1 G ohm	0.40% to 1.78%	Using Standard Calibrator Fluke 5522A By Direct Method





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<b>Site Facility</b>					
64	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance(0.001)	0.001 ohm	0.18%	Using Standard Resistors at discrete Values by Direct Method
65	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance(0.01)	0.01 ohm	0.15%	Using Standard Resistors at discrete Values by Direct Method
66	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance(0.1)	0.1 ohm	0.7%	Using Standard Resistors at discrete Values by Direct Method
67	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Resistance(0.5)	0.1 ohm to 1 ohm	1.4% to 0.14%	Using Decade Resistance Box by Direct Method
68	ELECTRO-TECHNICAL- ELECTRICAL EQUIPMENT (Source)	AC Energy 1-phase & 3-phase(@ 50Hz)	65 V / 0.5 A / 0.5 Lead/Lag to 240V / 5 A / 1 PF	0.72% to 0.4%	Using three phase Energy Source with built in Counter
69	ELECTRO-TECHNICAL- ELECTRICAL EQUIPMENT (Source)	Oscilloscope ( Amplitude Signal)	2.5 mV to 130 V	0.85% to 0.075%	Using Scope Calibrator Fluke 5522A By Direct Method



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<b>Site Facility</b>					
70	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope ( Amplitude Square Wave @ 1 kHz)	10 mV to 55 V Peak to Peak	0.65% to 0.32%	Using Scope Calibrator Fluke 5522A By Direct Method
71	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Band Width)	50 kHz to 1 GHz	5.9%	Using Scope Calibrator Fluke 5522A By Direct Method
72	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Time Marker)	1 nS to 5 S	0.007% to 0.21%	Using Scope Calibrator Fluke 5522A By Direct Method
73	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth	1 GHz to 8 GHz	5 %	Using RF Source Fluke 96270A
74	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Attenuation(10 MHz to 18 GHz)	10 dB to 30 dB	0.4dB to 1.2dB	Using RF Source Fluke 96270A & RF Power Sensor
75	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power (10 MHz to 18 GHz)	-20 dBm to 13 dBm	0.20dB to 0.25dB	Using RF Source Fluke 96270A & RF Power Sensor



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<b>Site Facility</b>					
76	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Frequency	1 MHz to 4 GHz	0.000082% to 0.0001%	Using RF Source Fluke 96270A
77	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Frequency	4 GHz to 27 GHz	0.0001% to 0.0002%	Using RF Source Fluke 96270A
78	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF Power @50 Ohm (1 MHz to 4 GHz)	-37 dBm to 13 dBm	0.6dB to 0.65dB	Using RF Source Fluke 96270A
79	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF Power @50 Ohm (10 MHz to 18 GHz)	-60 dBm to 13 dBm	0.65dB to 1.18dB	Using RF Source Fluke 96270A
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E-Type Measure	-200 °C to 1000 °C	0.45°C	Using Standard Calibrator Fluke 5522A By Direct Method



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<b>Site Facility</b>					
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J-Type Measure	-200 °C to 1200 °C	0.24°C	Using MFC 5522A By Direct Method
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-Type Measure	-200 °C to 1350 °C	0.36°C	Using MFC 5522A By Direct Method
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-Type Measure	-200 °C to 1300 °C	0.36°C	Using MFC 5522A By Direct Method
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT-100) Measure	-200 °C to 600 °C	0.16°C	Using 6½ DMM Fluke 8846A By Direct Method
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type Measure	250 °C to 1700 °C	0.56°C	Using MFC 5522A By Direct Method



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<b>Site Facility</b>					
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S-Type Measure	300 °C to 1700 °C	0.43°C	Using MFC 5522A By Direct Method
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T-Type Measure	-250 °C to 400 °C	0.25°C	Using MFC 5522A By Direct Method
88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B- Type	600 °C to 1800 °C	0.58°C	Using Standard Calibrator Fluke 5522A By Direct Method
89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E- Type	-250 °C to 1000 °C	0.45°C	Using Standard Calibrator Fluke 5522A By Direct Method
90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J- Type	-200 °C to 1200 °C	0.26°C	Using Standard Calibrator Fluke 5522A By Direct Method
91	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K- Type	-200 °C to 1350 °C	0.40°C	Using Standard Calibrator Fluke 5522A By Direct Method



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<b>Site Facility</b>					
92	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N- Type	-200 °C to 1300 °C	0.35°C	Using Standard Calibrator Fluke 5522A By Direct Method
93	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	PT- 100 RTD	-200 °C to 800 °C	0.25°C	Using Standard Calibrator Fluke 5522A By Direct Method
94	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type	250 °C to 1700 °C	0.56°C	Using Standard Calibrator Fluke 5522A By Direct Method
95	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S-Type	250 °C to 1700 °C	0.62°C	Using Standard Calibrator Fluke 5522A By Direct Method
96	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T- Type	-200 °C to 400 °C	0.15°C	Using Standard Calibrator Fluke 5522A By Direct Method
97	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	10 Hz to 1 MHz	0.035%	Using 61/2 DMM Fluke 8846A By Direct Method





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<b>Site Facility</b>					
98	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time Interval / programmable timers	1 Sec to 9000 Sec	0.20% to 0.15%	Using Time Totalizer By Comparison Method
99	ELECTRO-TECHNICAL- TIME & FREQUENCY (Source)	Frequency	10 Hz to 1 MHz	0.0065% to 0.029%	Using Fluke calibrator 5522A By Direct Method
100	MECHANICAL-ACCELERATION AND SPEED	RPM indicator of Centrifuge, RPM Source / RPM Meter / Rotating Machineries	10 rpm to 1000 rpm	1.0rpm	Using Tachometer by RPM Source by Comparison Method SANAS TR45-02
101	MECHANICAL-ACCELERATION AND SPEED	RPM indicator of Centrifuge, RPM Source / RPM Meter / Rotating Machineries	1000 rpm to 10000 rpm	3.0rpm	Using Tachometer by RPM Source by Comparison Method SANAS TR45-02
102	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Rotation Meters, Tacho Generator (Contact Type) L.C 0.1/1	10 rpm to 100 rpm	1.0rpm	Using Digital Tachometer and RPM Source BY Comparison Method By Using SANAS TR45-02
103	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Rotation Meters, Tacho Generator (Contact Type) L.C 0.1/1	100 rpm to 1000 rpm	2.0rpm	Using Digital Tachometer and RPM Source by Comparison Method By Using SANAS TR45-02



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<b>Site Facility</b>					
104	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Rotation Meters, Tacho Generator (Contact Type) L.C 0.1/1	1000 rpm to 6000 rpm	3.5rpm	Using Digital Tachometer and RPM Source by Comparision Method By Using SANAS TR45-02
105	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Indicators (Non Contact Type) L.C. 0.1/1 rpm	10 rpm to 1000 rpm	1.0rpm	Using Digital Tachometer and RPM Source by Comparision Method By Using SANAS TR45-02
106	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Indicators (Non Contact Type) L.C. 0.1/1 rpm	1000 rpm to 10000 rpm	2.7rpm	Using Digital Tachometer and RPM Source by Comparision Method By Using SANAS TR45-02
107	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Indicators (Non Contact Type) L.C. 0.1/1 rpm	10000 rpm to 90000 rpm	6.2rpm	Using Digital Tachometer and RPM Source BY Comparision Method By Using SANAS TR45-02
108	MECHANICAL-ACOUSTICS	Sound Level Meter	94dB & 114dB	0.5dB	Using Sound Level Calibrator By Comparision Method as per IS: 15575-1



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<b>Site Facility</b>					
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector / Microscope L.C.1 Sec	0 ° to 360 °	5min of arc	Using Angle Gauge, Slip Gauge & Linear Glass Scale By Comparison Method
110	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	CMM L.C.0.001mm	0 to 700 mm	7.2µm	Using Long gauge blocks By Comparison Method ISO:15635,ISO:10360
111	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	CNC Machine, CNC Machine Tools Machining Centre	Upto 15000 mm	(0.8+0.93L)µm;L in m	Using Laser Interferometer By Comparison Method VDI 344
112	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge	Upto 700 mm	9.5µm	Using long gauge blocks By Comparison Method
113	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Microscope L.C.0.001mm	0 mm to 1000 mm	(0.6+0.5L)µm;L in meter	Using Angle Gauge, Slip Gauge & Linear Glass Scale BY Comparison Method
114	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Microscope L.C.0.001mm	5 X to 100 X	0.9%	Using Angle Gauge, Slip Gauge & Linear Glass Scale By Comparison Method



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<b>Site Facility</b>					
115	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Plates	4000X4000 mm	9µm/m	Using Spirit Level By Comparison Method ISO:7327:2003,ISO:8512-2
116	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tape & Scale Measuring Machine	Upto 1000 mm	(0.8+0.93L)µm; L in meter	Using Laser Interferometer By Comparison Method
117	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	ULM L.C.0.00001mm	0 mm to 1000 mm	(0.12+0.93 L)µm;L in meter	Using Laser Interferometer / K grade slip gauge blocks By Comparison Method
118	MECHANICAL-PRESSURE INDICATING DEVICES	Absolute Pressure Pneumatic Pressure Gauges, Pressure Indicator, Pressure Transmitter / Transducers and Barometers	25 mbar to 1050 mbar	2.84mbar	Using Absolute Pressure Calibrator By Comparison Method as per DKD-R6-1
119	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Pressure Gauge, Digital Pressure Guage, Transmitter/Transducer, Pressure Switch	0 bar to 1000 bar	1.2bar	Using Digital Pressure Gauge / Pressure Calibrator By Comparison Method as per DKD R6-1



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<b>Site Facility</b>					
120	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Pressure Gauge,Digital Pressure Guage,Transmitter/Transducer,Pressure Switch	0 bar to 200 bar	0.4bar	Using Digital Pressure Gauge / Pressure Calibrator By Comparison Method as per DKD R6-1
121	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Pressure Gauge,Digital Pressure Guage,Transmitter/Transducer,Pressure Switch	0 bar to 700 bar	0.81bar	Using Digital Pressure Gauge / Pressure Calibrator By Comparison Method as per DKD R6-1
122	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure Magnehelic GaugeManometerPressureTransmitter	0 Pa to 980 Pa	2.75Pa	Using Low Pressure Calibrator By Comparison Method as per DKD R6-1
123	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure Magnehelic GaugeManometerPressureTransmitter	980 Pa to 19600 Pa	20.6Pa	Using Low Pressure Calibrator By Comparison Method as per DKD R6-1
124	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge, Digital Pressure Gauge, Transmitter/Transducer,Pressure Switch	0 bar to 2 bar	0.004bar	Using Digital Pressure Gauge / Hand Pump By Comparison Method as per DKD R6-1



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Accreditation Standard ISO/IEC 17025:2017

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Validity 23/10/2019 to 22/10/2021 Last Amended on -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrument	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)	Calibration or Measurement Method or procedure
<b>Site Facility</b>					
125	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge, Digital Pressure Transmitter/Transducer, Pressure Switch	0 bar to 40 bar	0.1bar	Using Digital Pressure Gauge / Hand Pump By Comparison Method as per DKD R6-1
126	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge, Digital Vacuum Transmitter/Transducer Vacuum switch	- 0.95 bar to 0 bar	0.002bar	Using Digital Pressure Gauge / Vacuum Pump By Comparison Method as per DKD R6-2
127	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances d=0.01 mg (Class I and Coarser)	1 mg to 80 g	0.08mg	Using E2 Class Weights as per OIML R-76
128	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances d=0.1g (Class II and Coarser)	>6 kg to 30 kg	2.1g	Using F1 Class Weights as per OIML R-76
129	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances d=0.1mg (Class I and Coarser)	>80 g to 200 g	1.1mg	Using E2 Class Weights as per OIML R-76
130	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances d=10 mg (Class II and Coarser)	>1 kg to 6 kg	11.43mg	Using F1 Class Weights as per OIML R-76
131	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances d=10 g (Class IV and Coarser)	>30 kg to 100 kg	8.3g	Using M1 Class Weights as per OIML R-76





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132	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balancesd=1mg (Class II and Coarser)	>200 g to 1 kg	1.8mg	Using F1 Class Weights as per OIML R-76
133	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balancesd=200 g (Class IV and Coarser)	>500 kg to 1000 kg	200g	Using M1 Class Weights as per OIML R-76
134	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balancesd=50 g (Class IV and Coarser)	>100 kg to 500 kg	50g	Using M1 Class Weights as per OIML R-76
135	THERMAL- SPECIFIC HEAT & HUMIDITY	Environmental Chambers, Humidity Chambers	20 % RH to 95 % RH @ 10°C to 60°C	2.0% RH	Using Digital Humidity Meter / Data Loggers (Single Position) by Comparison method
136	THERMAL- SPECIFIC HEAT & HUMIDITY	Humidity Chambers, Environmental Chambers	20 % RH to 95 % RH @ 20°C to 50°C	3.6% RH	Using Temperature and Humidity data loggers (Minimum nine) Multi Position Calibration By Mapping



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<b>Site Facility</b>					
137	THERMAL-TEMPERATURE	Freezers, Ovens, Liquid Baths, Incubators (for non medical applications), Environmental Chambers, Autoclaves (for non medical applications), Temperature Enclosures, Industrial Furnaces, Clean Room Map	(-)80 °C to 250 °C	1.0°C	Using Multi channel Data Logger with RTD sensors (Multi Position Calibration) By Mapping
138	THERMAL-TEMPERATURE	Freezers, Ovens, Liquid Baths, Incubators (for non medical applications), Environmental Chambers, Autoclaves (for non medical applications), Temperature Enclosures, Industrial Furnaces, Clean Room Map	250 °C to 1200 °C	4.16°C	Multi Channel Data Loggers With Thermocouples and Portable Data Loggers (Multi Position Calibration) By Mapping



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<b>Site Facility</b>					
139	THERMAL-TEMPERATURE	RTDs, Thermocouples (With and Without Indicators), Data Loggers, Recorders, Transmitters, Digital Thermometers, Temperature Gauges, Temperature Switches	(-)30 °C to 50 °C	0.2°C	Using 4-Wire RTD with Digital Temperature Indicator, Dry Bath and Oil Bath by Comparison method
140	THERMAL-TEMPERATURE	RTDs, Thermocouples (With and Without Indicators), Data Loggers, Recorders, Transmitters, Digital Thermometers, Temperature Gauges, Temperature Switches	250 °C to 600 °C	1.856°C	Using S- Type Thermocouple With Digital Temperature Indicator and Dry Bath by Comparison method
141	THERMAL-TEMPERATURE	RTDs, Thermocouples (With and Without Indicators), Data Loggers, Recorders, Transmitters, Digital Thermometers, Temperature Gauges, Temperature Switches	50 °C to 250 °C	0.288°C	Using 4-Wire RTD with Digital Temperature Indicator, Dry Bath and Oil Bath by Comparison method



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<b>Site Facility</b>					
142	THERMAL-TEMPERATURE	RTDs, Thermocouples (With and Without Indicators), Data Loggers, Recorders, Transmitters, Digital Thermometers, Temperature Gauges, Temperature Switches	600 °C to 1200 °C	2.5°C	Using S- Type Thermocouple With Digital Temperature Indicator and Dry Bath by Comparison method
143	THERMAL-TEMPERATURE	Temperature Indicator Of Liquid Bath, Dry Block Furnace, Freezers, Oven, Incubator / Autoclave (for non medical applications), Centrifuge Chamber, Furnace	(-)80 °C to 250 °C	0.416°C	Using 4-Wire RTD with Digital Temperature Indicator, By Comparison method (Single Position)
144	THERMAL-TEMPERATURE	Temperature Indicator Of Liquid Bath, Dry Block Furnace, Freezers, Oven, Incubator / Autoclave (for non medical applications), Centrifuge Chamber, Furnace	250 °C to 600 °C	1.86°C	Using S-Type Thermocouple With Digital Temperature Indicator By Comparison method (Single Position)



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145	THERMAL-TEMPERATURE	Temperature Indicator Of Liquid Bath, Dry Block Furnace, Freezers, Oven, Incubator / Autoclave (for non medical applications), Centrifuge Chamber, Furnace	600 °C to 1200 °C	2.5°C	Using S-Type Thermocouple With Digital Temperature Indicator By Comparison method (Single Position)

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