National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	PRECISION INSTRUMENTATION AND SERVICES PVT.LTD, 21,SHREERAM BHAVAN,F-9, SHREERAM KUNJ,TAKLI ROAD,DWARKA,, NASHIK, MAHARASHTRA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	CC-2098
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Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current at 50 Hz	Using MFC Fluke 9100 by Direct method	100 mA to 10 A	0.14 % to 0.29 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current at 50Hz	Using MFC Fluke 9100 by Direct method	10 A to 20 A	0.30%
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current at 50Hz	Using MFC Fluke 9100 by Direct Method	100 µA to 100 mA	0.44 % to 0.14 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current at 50Hz	Using MFC Fluke 9100 with Current Coil by Direct Method	20 A to 900 A	0.76%
5	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 1/2 DMM HP 34401A by Direct Method	0.1 mA to 1 mA	2.40 % to 0.29 %

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6	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 1/2 DMM HP 34401A by Direct Method	1 mA to 100 mA	0.29 % to 0.065 %
7	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 1/2 DMM HP 34401A by Direct Method	100 mA to 3 A	0.065 % to 0.18 %
8	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC Fluke 9100 by Direct Method	10 µA to 100 mA	0.16 % to 0.03 %
9	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC Fluke 9100 by Direct Method	10 A to 20 A	0.11%
10	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC Fluke 9100 by Direct Method	100 mA to 10 A	0.03 % to 0.13 %

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11	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC Fluke 9100 with current coil by Direct Method	20 A to 1000 A	0.45%
12	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Current at 50Hz to 1KHz	Using 6 1/2 DMM HP 34401A by Direct Method	200 mA to 3 A	0.19 % to 0.24 %
13	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Voltage at 50Hz to 1KHz	Using 6 1/2 DMM HP34401A by Direct Method	1 mV to 100 mV	5.10 % to 0.12 %
14	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Voltage at 50Hz to 1KHz	Using 6 1/2 DMM HP34401A by Direct Method	1 V to 750 V	1.18 % to 0.10 %
15	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Voltage at 50Hz to 1KHz	Using 6& 1/2 DMM HP34401A by Direct Method	100 mV to 1 V	0.12 % to 1.18 %

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16	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Resistance	Using 6 1/2 DMM HP34401A by Direct Method	1 ohm to 100 ohm	0.57 % to 0.017 %
17	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Resistance	Using 6 1/2 DMM HP 34401A by Direct Method	100 k ohm to 1 M ohm	0.013 % to 0.052 %
18	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Resistance	Using 6 1/2 DMM HP34401A by Direct Method	100 ohm to 100 k ohm	0.017 % to 0.013 %
19	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Resistance	Using 6 1/2 DMM HP34401A by Direct Method	1 M ohm to 100 M ohm	0.052 % to 1.12 %
20	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Using 6 1/2 DMM HP34401A by Direct Method	0.5 mV to 1 mV	1.70 % to 0.48 %

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21	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Using 6 1/2 DMM HP 34401A by Direct Method	1 mV to 100 mV	0.48 % to 0.046 %
22	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Using 6 1/2 DMM HP 34401A by Direct Method	100 mV to 1000 V	0.046 % to 0.007 %
23	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Frequency	Using 6 1/2 DMM HP 34401A by Direct Method	50 Hz to 300 kHz	0.012 % to 0.0058 %
24	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage at 50Hz	Using MFC Fluke By Direct Method	1 V to 1000 V	0.07 % to 0.08 %
25	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage at 50Hz	Using MFC Fluke 9100 by Direct Method	10 mV to 1 V	4.48 % to 0.07 %

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26	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Capacitance at 1kHz	Using MFC Fluke 9100 by Direct Method	1 nF to 100 nF	2.31 % to 1.59 %
27	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Capacitance at 1kHz	Using MFC Fluke 9100 by Direct Method	100 µF to 1 mF	1.87 % to 2.34 %
28	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Capacitance at 1kHz	Using MFC Fluke 9100 by Direct Method	100 nF to 100 µF	1.59 % to 1.87 %
29	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance	Using Resistance Box	1 ohm to 1 Mohm	1.49 % to 1.16 %
30	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance (Discrete)	Using Discrete Standard 4 Wire Low Resistance by direct Method	1 miliohm	0.22%

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31	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance (Discrete)	Using Discrete standard 4 wire Low resistance by Direct Method	1 ohm	0.12%
32	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance (Discrete)	Using Discrete Standard 4 wire Low Resistance By Direct method	10 µohm	6.11%
33	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance (Discrete)	Using Discrete Standard 4 Wire Low Resistance by Direct Method	10 miliohm	0.22%
34	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance (Discrete)	Using Discrete Standard 4 Wire Low Resistance By direct Method	100 µohm	0.89%
35	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance (Discrete)	Using Discrete Standard 4 wire Low Resistance by Direct Method	100 miliohm	0.14%

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36	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance (Discrete)	Using Discrete Standard 4 Wire Low Resistance by direct Method	50 µohm	1.25%
37	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance	Using MFC Fluke 9100 by Direct Method	1 M ohm to 100 M ohm	0.070 % to 0.35 %
38	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance	Using MFC Fluke 9100 By Direct Method	1 ohm to 10 ohm	1.46 % to 0.17 %
39	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance	Using MFC Fluke 9100 by Direct Method	10 ohm to 100 ohm	0.17 % to 0.04 %
40	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance	Using MFC Fluke 9100 by Direct Method	100 M ohm to 400 M ohm	0.35 % to 0.37 %

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41	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance	Using MFC Fluke 9100 by Direct Method	100 ohm to 1 M ohm	0.04 % to 0.070 %
42	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Voltage	Using MFC Fluke 9100 by Direct Method	1 mV to 10 mV	0.76 % to 0.09 %
43	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Voltage	Using MFC Fluke 9100 by Direct Method	1 V to 1000 V	0.014 % to 0.010 %
44	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Voltage	Using MFC Fluke 9100 by Direct Method	10 mV to 1 V	0.09 % to 0.014 %
45	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Energy Single And Three phase 50 Hz (6 A, PF 0.5 - 1)	Using Three Phase Power Energy Meter Calibrator by Direct Method	50 V to 300 V	1.35%

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46	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	High Resistance (@Test Voltage upto 5000V)	Using High Resistance Box by Direct Method	1 Gohm	5.97%
47	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	High Resistance (@Test Voltage upto 5000V)	Using High Resistance Box by Direct Method	10 Gohm	5.99%
48	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	High Resistance (@Test Voltage upto 5000V)	Using High Resistance Box by Direct Method	10 Mohm	8.30%
49	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	High Resistance (@Test Voltage upto 5000V)	Using High Resistance Box by Direct method	100 Gohm	7.97%
50	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	High Resistance (@Test Voltage upto 5000V)	Using High Resistance Box by Direct Method	100 Mohm	5.99%

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51	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	High Resistance (@Test Voltage upto 5000V)	Using Mega Ohm Meter by direct Method	5 Mohm	6.08%
52	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	High Resistance (@Test Voltage upto 5000V)	Using High Resistance Box by Direct Method	500 Mohm	5.99%
53	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	High Resistance (@Test Voltage upto 5000V)	Using High Resistance Box by direct method	200 Mohm	5.97%
54	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Power Factor	Using Three phase power Energy Calibrator by Direct Method	0.5 PF(Lead) to 0.5 PF(lag)	3.21 % to 2.84
55	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Single Phase/Three phase AC power 50 Hz (250V, 5 A, PF 0.5 lag & lead)	Using 3 Phase power Energy Meter Calibrator by Direct Method	0 W to 625 W	1.01%

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56	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Three phase energy 50 Hz	Using Three Phase Power Energy Meter calibrator by Direct method	5 Wh to 400 Wh	1.3%
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J- Type Thermocouple (Indicator/controller Calibration)	Using MFC Fluke 9100 by Direct Method	(-)200 °C to 1100 °C	0.42°C
58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K- Type Thermocouple (Indicator/Controller Calibration)	Using MFC Fluke 9100 by Direct Method	(-)200 °C to 1300 °C	0.47°C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R- Type Thermocouple (indicator/Controller Calibration)	Using MFC Fluke 9100 by Direct Method	300 °C to 1750 °C	1.24°C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD- Thermocouple (Indicator/Controller Calibration)	Using MFC Fluke 9100 by Direct Method	(-)200 °C to 850 °C	0.40°C

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61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S- Type Thermocouple (indicator/Controller Calibration)	Using MFC Fluke 9100 by Direct Method	300 °C to 1750 °C	1.24°C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-Type Thermocouple (Indicator/Controller Calibration)	Using MFC Fluke 9100 by Direct Method	(-)200 °C to 350 °C	0.76°C
63	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using MFC Fluke 9100 by Direct Method	10 Hz to 100 kHz	0.058 % to 0.0095 %
64	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using MFC Fluke 9100 by Direct Method	100 kHz to 4 MHz	0.058%
65	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using MFC Fluke 9100 by Direct Method	4 MHz to 10 MHz	0.058%

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66	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Time	Using Digital Stop Watch By Comparison Method	6 s to 24 hour	0.23 s to 1.22 s
67	MECHANICAL-ACCELERATION AND SPEED	RPM Meter/Speed centrifuge (Contact)	Using Digital Tachometer by Comparison Method	10 to 5000 rpm	4rpm
68	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact)	Using tachometer Calibrator	10 to 1000000 rpm	17rpm
69	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Level calibrator	94 dB to 114 dB	1.3dB
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge L.C.:10µm	Using ULM by Comparison Method	Up to 1 mm	3.3µm
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper(Vernier/Dial/ Digital) L.C.:10µm	Using Caliper Checker;Gauge Block;Length Bar & External micrometer by comparison Method	0 mm to 600 mm	15µm

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72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Circumference / Pie Tape	Using Scale & Tape calibrator by comparison Method	Up to 50	148*(under root of L/1000),Where L is in mmµm (where L is in mm)
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pin	Using ULM by Comparison Method	Up to 20 mm	1.0µm
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C.:1µm	Using Grade Block Sets& surface Plate by comparison method	Up to 300 mm	6.7µm
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier(Vernier/Dial/ Digital) L.C.:20µm	Using Gauge Block sets & surface Plate by Comparison Method	0 mm to 300 mm	16µm

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76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C.:1µm	Using Gauge Block Sets by comparison Method	Up to 10 mm	0.7µm
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog,dial,digital) L.C:0.01µm	Using Gauge Block Sets Grade'0' by comparison Method	Up to 400 mm	8.6µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog/Dial/Digital) L.C.:1µm	Using Gauge Block Sets Grade'0',Length Bar by comparison Method	0 mm to 150 mm	1.8µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler gauge	Using ULM by Comparison Method	Up to 2 mm	0.9µm

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80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) L.C.:10µm	Using Caliper Checker,Length Bar & surface Plate by comparison Method	0 to 1000 mm	20µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) L.C.:10µm	Using Caliper Checker,Length Bar & Surface Plate by Comparision Method	0 mm to 600 mm	15µm
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside /Inner dia Caliper	Using Caliper Checker;Gauge Block,Length Bar & external micrometer by comparison Method	Up to 600 mm	15µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer L.C-0.01mm	Using Gauge Block Sets Gr '0' by comparison Method	0 to 300 mm	10.84µm

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84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge L.C.:1µm	Using ULM by Comparison Method	Up to 0.14 mm	2.3µm
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge L.C.:10µm	Using ULM by Comparison Method	Up to 1.0 mm	6.0µm
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale/Taper Scale	Using Scale & Tape Calibrator by Comparison Method	Up to 2000 mm	148(under root of L/1000µm (where L is in mm)
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape	Using Scale & Tape calibrator by comparison Method	Up to 50 m	291(under root of L/1000)(where L in mm)µm(where L is in mm)

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88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using ULM by Comparison Method	13 mm to 225 mm	8µm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using ULM & OD MAster by Comparison Method	0 to 200 mm	2.0µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring gauge	Using ULM & Master Ring by Comparison Method	3 mm to 200 mm	2.0µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge L.C.:1µm	using ULM by Comparison Method	Up to 10 mm	1.5µm

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92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge L.C.:10µm	Using ULM by comparison Method	Up to 25 µm	5.9µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge L.C.:10µm	Using ULM by Comparison Method	Up to 50 mm	5.9µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Shim /Foil	Using ULM by Comparison Method	Up to 2 mm	2.9µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap gauge	Using ULM & Master ring by Comparison Method	Up to 200 mm	2.5µm

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96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level / Electronic Level/Frame Level	Using Electronic level by Comparison Method	Up to 5 mm	0.015mm/m
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface plate	Using Electronic Level	5100 mm to 5100 mm	1.2*under root (L+W/150)µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves(Apparatus Size)	Using Digital Vernier Caliper	4.75 mm to 150 mm	39.0µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wires	Using ULM by Comparison Method	0.16 mm to 6.35 mm	0.9µm

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100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug gauge	Using ULM ,OD Master& Thread measuring wires by comparison method	0 to 200 mm	5µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring gauge	Using ULM & Master Ring By Comparison Method	Up to 100 mm	2.0µm
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (0.01 mm)	Using Gauge Block Sets	Up to 40 mm	12.6µm
103	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic (Dial Pressure gauges, Digital Pressure gauges, Pressure Transmitter, Pressure Switch,pressure recorder)	Digital pressure indicator by comparison method as per DKD R6-1	30 to 300 bar	0.123bar

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104	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic (Dial Pressure gauges, Digital Pressure gauges, Pressure Transmitter, Pressure Switch,pressure recorder)	Digital pressure indicator by comparison method as per DKD R6-1	300 to 700 bar	0.137bar
105	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure Gauges	Digital pressure indicator by comparison method as per DKD -R6-1	0 to 0.196 bar	0.059mbar
106	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure Gauges	Digital pressure indicator by comparison method as per DKD -R6-1	0.98 to 9.8 bar	0.890mbar
107	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic (Dial Pressure gauge, Digital Pressure gauge, Pressure Transmitter, Pressure Switch,pressure recorder)	Digital pressure indicator by comparison method as per DKD- R-1	0 to 3 bar	0.004bar

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108	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic (Dial Pressure gauge, Digital Pressure gauge, Pressure Transmitter, Pressure Switch,pressure recorder)	Digital pressure indicator by comparison method as per DKD R6-1	3 to 30 bar	0.12bar
109	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum (Dial Gauges,Digital Gauges' Vacuum transmitter,Vacuum Switch)	Digital pressure indicator by comparison method as per DKD - R6-1DKD-R6-2	(-)0.94 bar to 0 bar	0.0116bar
110	MECHANICAL-TORQUE GENERATING DEVICES	Torque Generating Devices (Torque wrench) Type -I Class A,B,C,D,E Type-II Class A,B,C,D,E	Using Torque Transducers with Display Unit As per IS/ISO6789:2003	0.5 Nm to 20 Nm	3.36%
111	MECHANICAL-TORQUE GENERATING DEVICES	Torque Generating Devices (Torque wrench) Type -I Class A,B,C,D,E Type-II Class A,B,C,D,E	Using torque transducers with display Unit As per IS/ISO 6789:2003	10 Nm to 500 Nm	1.75%

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112	MECHANICAL-TORQUE GENERATING DEVICES	Torque Generating Devices (Torque wrench) Type -I Class A,B,C,D,E Type-II Class A,B,C,D,E	Using Torque transducers with Display unit as per IS/ISO 6789:2003	200 Nm to 2000 Nm	1.56%
113	MECHANICAL-VOLUME	Burette, conical flask, Graduated Jar	Using Gravimetric Method Standard Weights,Balances, Double Distilled Water	1 ml to 100 ml	25µl
114	MECHANICAL-VOLUME	Graduated Cylinder/ Measuring Flask/Jar	Using Gravimetric Method Standard Weights,Balances, Double Distilled water	100 ml to 500 ml	25µl
115	MECHANICAL-VOLUME	Graduated Cylinder/ Measuring Flask/Jar	Using Gravimetric Method , Standard weights,Balances,Double Distilled Water	2000 ml to 5000 ml	2ml
116	MECHANICAL-VOLUME	Pipette	Using Gravimetric Method Standard Weights,Balances, Double Distilled water	1 µl to 10 µl	0.28µl

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117	MECHANICAL-VOLUME	Pipette	Using Gravimetric Method , Standard weights,Balances,Double Distilled Water	10 µl to 100 µl	0.5µl
118	MECHANICAL-VOLUME	Pipette	Using Gravimetric Method,Standard Weights,Balances,double Distilled Water.	100 µl to 1 ml	1.5µl
119	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance For Readability 100 g	USing Standard Weights F1 & M1 Class	0 to 300 kg	700g
120	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance For Readability 1µg	Using Standard Weights E1 Class based on OIML R 76(2006)	0 to 6.1 g	0.006mg
121	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance For Readability 10µg	Using Standard Weights E1 Class based on OIML R 76(2006)	0 to 210 g	0.03mg
122	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance For Readability 1mg	USing Standard Weights F1 Class Based on OIML R 76(2006)	0 to 1 kg	2mg

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123	MECHANICAL-WEIGHTS	Weights (Conventional Mass)	Using Standard Weights Accuracy Class E1, Substitution Method of Weighing And ABBA Weighing Cycle,i)0 to 6.1 g Microbalance of Readability 1µg based on OIML ,R 111(2004)	1 mg	0.002mg
124	MECHANICAL-WEIGHTS	Weights (Conventional Mass)	Using Standard Weights Accuracy Class E1, Substitution Method of Weighing And ABBA Weighing Cycle,i)0 to 6.1 g Microbalance of Readability 1µg based on OIML ,R 111(2004)	1 g	0.003mg

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125	MECHANICAL-WEIGHTS	Weights (Conventional Mass)	Using Standard Weights Accuracy Class E1, Substitution Method of Weighing And ABBA Weighing Cycle,i)0 to 210 g Semi Micro balance of Readability 10µg based on OIML ,R 111(2004)	10 g	0.02mg
126	MECHANICAL-WEIGHTS	Weights (Conventional Mass)	Using Standard Weights Accuracy Class E1, Substitution Method of Weighing And ABBA Weighing Cycle,i)0 to 6.1 g Microbalance of Readability 1µg based on OIML ,R 111(2004)	10 mg	0.002mg

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127	MECHANICAL-WEIGHTS	Weights (Conventional Mass)	Using Standard Weights Accuracy Class E1, Substitution Method of Weighing And ABBA Weighing Cycle,i)0 to 210 g Microbalance of Readability 10µg based on OIML ,R 111(2004)	100 g	0.03mg
128	MECHANICAL-WEIGHTS	Weights (Conventional Mass)	Using Standard Weights Accuracy Class E1, Substitution Method of Weighing And ABBA Weighing Cycle,i)0 to 6.1 g Microbalance of Readability 1µg based on OIML ,R 111(2004)	100 mg	0.003mg

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129	MECHANICAL-WEIGHTS	Weights (Conventional Mass)	Using Standard Weights of Accuracy Class F1, Substitution Method of Weighing And ABBA Weighing Cycle,i)0 to 1000g balance of Readability 0.001g ii) 0 to 10000 g balance of Readability 0.1g iii)0 to 50000 g balance of Readability 0.1g based on OIML ,R 111(2004)	1000 g	3mg

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130	MECHANICAL-WEIGHTS	Weights (Conventional Mass)	Using Standard Weights of Accuracy Class F1, Substitution Method of Weighing And ABBA Weighing Cycle,i)0 to 1000g balance of Readability 0.001g ii) 0 to 10000 g balance of Readability 0.1g iii)0 to 50000 g balance of Readability 0.1g based on OIML ,R 111(2004)	10000 g	100mg
131	MECHANICAL-WEIGHTS	Weights (Conventional Mass)	Using Standard Weights Accuracy Class E1, Substitution Method of Weighing And ABBA Weighing Cycle,i)0 to 6.1 g Microbalance of Readability 1µg based on OIML ,R 111(2004)	2 g	0.004mg

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132	MECHANICAL-WEIGHTS	Weights (Conventional Mass)	Using Standard Weights Accuracy Class E1, Substitution Method of Weighing And ABBA Weighing Cycle,i)0 to 6.1 g Microbalance of Readability 1µg based on OIML ,R 111(2004)	2 mg	0.002mg
133	MECHANICAL-WEIGHTS	Weights (Conventional Mass)	Using Standard Weights Accuracy Class E1, Substitution Method of Weighing And ABBA Weighing Cycle,i)0 to 210 g Microbalance of Readability 10µg based on OIML ,R 111(2004)	20 g	0.02

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134	MECHANICAL-WEIGHTS	Weights (Conventional Mass)	Using Standard Weights Accuracy Class E1, Substitution Method of Weighing And ABBA Weighing Cycle,i)0 to 6.1 g Microbalance of Readability 1µg based on OIML ,R 111(2004)	20 mg	0.002mg
135	MECHANICAL-WEIGHTS	Weights (Conventional Mass)	Using Standard Weights Accuracy Class E1, Substitution Method of Weighing And ABBA Weighing Cycle,i)0 to 210 g Microbalance of Readability 10µg based on OIML ,R 111(2004)	200 g	0.05mg

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136	MECHANICAL-WEIGHTS	Weights (Conventional Mass)	Using Standard Weights Accuracy Class E1, Substitution Method of Weighing And ABBA Weighing Cycle,i)0 to 6.1 g Microbalance of Readability 1µg based on OIML ,R 111(2004)	200 mg	0.003mg
137	MECHANICAL-WEIGHTS	Weights (Conventional Mass)	Using Standard Weights of Accuracy Class F1, Substitution Method of Weighing And ABBA Weighing Cycle,i)0 to 1000g balance of Readability 0.001g ii) 0 to 10000 g balance of Readability 0.1g iii)0 to 50000 g balance of Readability 0.1g based on OIML ,R 111(2004)	2000 g	100mg

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138	MECHANICAL-WEIGHTS	Weights (Conventional Mass)	Using Standard Weights of Accuracy Class F1, Substitution Method of Weighing And ABBA Weighing Cycle,i)0 to 1000g balance of Readability 0.001g ii) 0 to 10000 g balance of Readability 0.1g iii)0 to 50000 g balance of Readability 0.1g based on OIML ,R 111(2004)	20000 g	100mg
139	MECHANICAL-WEIGHTS	Weights (Conventional Mass)	Using Standard Weights Accuracy Class E1, Substitution Method of Weighing And ABBA Weighing Cycle,i)0 to 6.1 g Microbalance of Readability 1µg based on OIML ,R 111(2004)	5 g	0.004mg

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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)(±)
140	MECHANICAL-WEIGHTS	Weights (Conventional Mass)	Using Standard Weights Accuracy Class E1, Substitution Method of Weighing And ABBA Weighing Cycle,i)0 to 6.1 g Microbalance of Readability 1µg based on OIML ,R 111(2004)	5 mg	0.002mg
141	MECHANICAL-WEIGHTS	Weights (Conventional Mass)	Using Standard Weights Accuracy Class E1, Substitution Method of Weighing And ABBA Weighing Cycle,i)0 to 210 g Microbalance of Readability 10µg based on OIML ,R 111(2004)	50 g	0.02mg

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142	MECHANICAL-WEIGHTS	Weights (Conventional Mass)	Using Standard Weights Accuracy Class E1, Substitution Method of Weighing And ABBA Weighing Cycle,i)0 to 6.1 g Microbalance of Readability 1µg based on OIML ,R 111(2004)	50 mg	0.002mg
143	MECHANICAL-WEIGHTS	Weights (Conventional Mass)	Using Standard Weights of Accuracy Class F1, Substitution Method of Weighing And ABBA Weighing Cycle,i)0 to 1000g balance of Readability 0.001g ii) 0 to 10000 g balance of Readability 0.1g iii)0 to 50000 g balance of Readability 0.1g based on OIML ,R 111(2004)	500 g	3mg

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144	MECHANICAL-WEIGHTS	Weights (Conventional Mass)	Using Standard Weights Accuracy Class E1, Substitution Method of Weighing And ABBA Weighing Cycle,i)0 to 6.1 g Microbalance of Readabili	500 mg	0.003
145	MECHANICAL-WEIGHTS	Weights (Conventional Mass)	Using Standard Weights of Accuracy Class F1, Substitution Method of Weighing And ABBA Weighing Cycle,i)0 to 1000g balance of Readability 0.001g ii) 0 to 10000 g balance of Readability 0.1g iii)0 to 50000 g balance of Readability 0.1g based on OIML ,R 111(2004)	5000 g	100mg

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146	MECHANICAL-WEIGHTS	Weights (Conventional Mass)	Using Standard Weights of Accuracy Class F1, Substitution Method of Weighing And ABBA Weighing Cycle,i)0 to 1000g balance of Readability 0.001g ii) 0 to 10000 g balance of Readability 0.1g iii)0 to 50000 g balance of Readability 0.1g based on OIML ,R 111(2004)	50000 g	400mg
147	THERMAL-SPECIFIC HEAT & HUMIDITY	RH Sensor ,Dry & Wet bulb Thermometer ,thermo hygrometer Humidity indicator with inbuilt or External sensor, Temperature and Humidity indicator with sensor, Digital and Analog hygrometers, Temperatur	Using Temp and Humidity indicator with sensor and Portable Temp. and Humidity Generator by comparison method	10 °C to 50 °C	1.23°C

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148	THERMAL-SPECIFIC HEAT & HUMIDITY	RH Sensor ,Dry & Wet bulb Thermometer ,thermo hygrometer Humidity indicator with inbuilt or External sensor, Temperature and Humidity indicator with sensor, Digital and Analog hygrometers, Temperatur	Using Temp and Humidity indicator with sensor and Portable Temp. and Humidity Generator by comparison method	35 %RH to 90 %RH	2.10%RH
149	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature Humidity indicator with sensor of Climatic/Environmental Chamber,Climatic Chambers	Using Temperature &Humidity Indicator with Sensor(single position calibration)	10 °C to 50 °C	1.25°C
150	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature Humidity indicator with sensor of Climatic/Environmental Chamber,Climatic Chambers	Using Temperature &Humidity Indicator with Sensor(single position calibration)	25 %RH to 90 %RH	2.10%RH

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151	THERMAL-TEMPERATURE	Dew Point Meter	Using Temp & Humidity indicator with sensor and Portable Temp. and Humidity Generator by comparison method	10 °C to 50 °C	1.1°C
152	THERMAL-TEMPERATURE	Glass thermometer,Temperature Gauge,Dial Type Thermometer	Using RTD, 6&1/2 DMM and Liquid bath by comparison method	50 °C to 100 °C	0.30°C
153	THERMAL-TEMPERATURE	Glass thermometer,Temperature Gauge,Dial Type Thermometers	Using RTD, 6&1/2 DMM and Liquid bath by comparison method	(-)30 °C to 0 °C	0.62°C
154	THERMAL-TEMPERATURE	Glass thermometer,Temperature Gauge,Dial Type Thermometers	Using RTD, 6&1/2 DMM and Liquid bath by comparison method	0 °C to 50 °C	0.27°C
155	THERMAL-TEMPERATURE	Glass thermometer,Temperature Gauge,Dial Type Thermometers	Using RTD, 6&1/2 DMM and Liquid bath by comparison method	100 °C to 250 °C	0.66°C

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156	THERMAL-TEMPERATURE	Non Contact Thermometer /pyrometer/Infrared Thermometer/Infrared Temperature Gun/Thermal Imaging Camera/IR Sensor/Portable/on Line IR radiation Thermometer	Using R Type T/C With 6&1/2 DMM ,Blackbody Furnace by comparison Method	400 °C to 500 °C	2.97°C
157	THERMAL-TEMPERATURE	Non Contact Thermometer /pyrometer/Infrared Thermometer/Infrared Temperature Gun/Thermal Imaging Camera/IR Sensor/Portable/on Line IR radiation Thermometer	Using R Type T/C With 6&1/2 DMM ,Blackbody Furnace by comparison Method	500 °C to 1000 °C	2.97°C

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158	THERMAL-TEMPERATURE	Non Contact Thermometer /pyrometer/Infrared Thermometer/Infrared Themperature Gun/Thermal Imaging Camera/IR Sensor/Portable/on Line IP radiation Thermometer	Using RTD With 6&1/2 DMM ,Blackbody Furnace by comparison Method	300 °C to 400 °C	2.12°C
159	THERMAL-TEMPERATURE	Non Contact Thermometer /pyrometer/Infrared Thermometer/Infrared Themperature Gun/Thermal Imaging Camera/IR Sensor/Portable/on Line IR radiation Thermometer	Using R Type T/C With 6&1/2 DMM ,Blackbody Furnace by comparison Method	1000 °C to 1200 °C	3.31°C

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160	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with or without indicator Dig. Thermometers, Data Loggers with Sensor, Recorders with sensor, Temperature transmitter with indicator,Temp Switch,Temp. Transmitter, Transduc	Using RTD and 6&1/2 DMM and liquid bath by comparison method	(-)30 °C to 0 °C	0.22°C
161	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with or without indicator Dig. Thermometers, Data Loggers with Sensor, Recorders with sensor, Temperature transmitter with indicator,Temp Switch,Temp. Transmitter, Transducer	Using RTD and 6&1/2 DMM and liquid bath by comparison method	0 °C to 50 °C	0.25°C

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162	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with or without indicator Dig. Thermometers, Data Loggers with Sensor, Recorders with sensor, Temperature transmitter with indicator,Temp Switch,Temp. Transmitter, Transducer	Using RTD and 6&1/2 DMM and Fluid less furnace by comparison Method	250 °C to 400 °C	2.10°C
163	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with or without indicator Dig. Thermometers, Data Loggers with Sensor, Recorders with sensor, Temperature transmitter with indicator,Temp Switch,Temp. Transmitter, Transducer	Using RTD and 6&1/2 DMM and liquid bath by comparison method	50 °C to 250 °C	0.27°C

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164	THERMAL-TEMPERATURE	Temp Calibration of Refrigerator\Deep Freezers, Autoclaves, Cold chamber/Environmental chamber,Oven ,Incubator,Furnace	Using RTD,N type T/C(minimum 9) with 9 channel dataloggers (multiposition method)	-30 °C to 200 °C	1.5°C
165	THERMAL-TEMPERATURE	Temp Calibration of Refrigerator\deep Freezers, Autoclaves, Cold Chamber/Environmental chamber,Oven ,Incubator,Furnace	Using RTD,N Type T/Cs (minimum 9)with 9 Channel Data Logger(multi position method)	200 °C to 400 °C	3.10°C
166	THERMAL-TEMPERATURE	Temp Calibration of Refrigerator\deep Freezers, Autoclaves, Cold Chamber/Environmental chamber,Oven ,Incubator,Furnace	Using RTD,N type T/C (minimum 9) with 9 channel data loggers (multiposition method)	400 °C to 1200 °C	3.70°C
167	THERMAL-TEMPERATURE	Temp indicator with sensor of Liquid bath,Dry Block,Furnace Oven,Incubator,Freezer	using RTD and 6&1/2 DMM by comparison Method(single position calibration)	0 °C to 50 °C	0.26°C

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168	THERMAL-TEMPERATURE	Temp indicator with sensor of Liquid bath,Dry Block,Furnace Oven,Incubator,Freezer	Using R-Type T/C and 6&1/2 DMM by comparison Method(single position calibration)	1000 °C to 1500 °C	3.53°C
169	THERMAL-TEMPERATURE	Temp indicator with sensor of Liquid bath,Dry Block,Furnace Oven,Incubator,Freezer	using RTD and 6&1/2 DMM by comparison method(single position calibration)	250 °C to 400 °C	2.10°C
170	THERMAL-TEMPERATURE	Temp indicator with sensor of Liquid bath,Dry Block,Furnace Oven,Incubator,Freezer	Using R Type T/C and 6&1/2 DMM by comparison Method(single position calibration)	400 °C to 500 °C	2.3°C
171	THERMAL-TEMPERATURE	Temp indicator with sensor of Liquid bath,Dry Block,Furnace Oven,Incubator,Freezer	Using RTD and 6 &1/2 DMM by comparison method(single position calibration)	50 °C to 250 °C	0.27°C

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172	THERMAL-TEMPERATURE	Temp indicator with sensor of Liquid bath,Dry Block,Furnace Oven,Incubator,Freezer	Using R-Type T/C and 6&1/2 DMM by comparison Method(single position calibration)	500 °C to 1000 °C	3.50°C
173	THERMAL-TEMPERATURE	Temp indicator with sensor of Liquid bath,Dry Block,Furnace Oven,Incubator,Freezer.	using RTD, and 6&1/2 DMM by comparison method(single position calibration)	(-)30 °C to 0 °C	0.23°C
174	THERMAL-TEMPERATURE	Thermocouples, Dig Thermometers, Temp. Indicator with sensor , Data loggers With Sensor,Recorders with Sensor,Temp Switch,Temp Transmitter,Transduce	Using R Type T/C , 6 1/2 DMM, and Dry block Temperature calibrator by comparison Method	1000 °C to 1500 °C	3.50°c

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175	THERMAL-TEMPERATURE	Thermocouples, Dig Thermometers, Temp. Indicator with sensor , Data loggers With Sensor,Recorders with Sensor,Temp Switch,Temp Transmitter,Transduce	Using R type T/C , 6&1/2 DMM and Dry block Temperature calibrator by comparison Method	500 °C to 1000 °C	3.50°C
176	THERMAL-TEMPERATURE	Thermocouples, Dig. Thermometers,Temp .Indicator with sensor, Data Loggers With sensor Recorders with Sensor,Temp switch Temp Transmitter,Tran	Using R Type T/C And 6&1/2 DMM and Fluid less furnace by comparison method	400 °C to 500 °C	2.10°C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current at 50 Hz	Using MFC Fluke 9100 by Direct method	100 mA to 10 A	0.14 % to 0.29 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current at 50Hz	Using MFC Fluke 9100 by Direct method	10 A to 20 A	0.30%
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current at 50Hz	Using MFC Fluke 9100 by Direct Method	100 µA to 100 mA	0.44 % to 0.14 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current at 50Hz	Using MFC Fluke 9100 with Current Coil by Direct Method	20 A to 900 A	0.76%
5	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using FLUKE 725 By Direct Method	1 mA to 24 mA	0.67 % to 0.041 %

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6	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC Fluke 9100 by Direct Method	10 µA to 100 mA	0.16 % to 0.03 %
7	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC Fluke 9100 by Direct Method	10 A to 20 A	0.11%
8	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC Fluke 9100 by Direct Method	100 mA to 10 A	0.03 % to 0.13 %
9	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC Fluke 9100 with current coil by Direct Method	20 A to 1000 A	0.45%
10	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC High Voltage at 50Hz	Using HV Probe with DMM by Direct Method	1 kV to 28 kV	7.59 % to 6.45 %

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11	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Using FLUKE 725 By Direct Method	1 mV to 10 mV	7.96 % to 0.80 %
12	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Using FLUKE 725 By Direct Method	10 mV to 100 mV	0.63 % to 0.066 %
13	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Using FLUKE 725 By Direct Method	100 mV to 20 V	0.066 % to 0.13 %
14	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage at 50Hz	Using MFC Fluke By Direct Method	1 V to 1000 V	0.07 % to 0.08 %
15	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage at 50Hz	Using MFC Fluke 9100 by Direct Method	10 mV to 1 V	4.48 % to 0.07 %

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16	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Capacitance at 1kHz	Using MFC Fluke 9100 by Direct Method	1 nF to 100 nF	2.31 % to 1.59 %
17	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Capacitance at 1kHz	Using MFC Fluke 9100 by Direct Method	100 µF to 1 mF	1.87 % to 2.34 %
18	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Capacitance at 1kHz	Using MFC Fluke 9100 by Direct Method	100 nF to 100 µF	1.59 % to 1.87 %
19	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance	Using Resistance Box	1 ohm to 1 Mohm	1.49 % to 1.16 %
20	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance (Discrete)	Using Discrete Standard 4 Wire Low Resistance by direct Method	1 miliohm	0.22%

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21	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance (Discrete)	Using Discrete standard 4 wire Low resistance by Direct Method	1 ohm	0.12%
22	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance (Discrete)	Using Discrete Standard 4 wire Low Resistance By Direct method	10 µohm	6.11%
23	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance (Discrete)	Using Discrete Standard 4 Wire Low Resistance by Direct Method	10 miliohm	0.22%
24	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance (Discrete)	Using Discrete Standard 4 Wire Low Resistance By direct Method	100 µohm	0.89%
25	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance (Discrete)	Using Discrete Standard 4 wire Low Resistance by Direct Method	100 miliohm	0.14%

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26	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance (Discrete)	Using Discrete Standard 4 Wire Low Resistance by direct Method	50 µohm	1.25%
27	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance	Using MFC Fluke 9100 by Direct Method	1 M ohm to 100 M ohm	0.070 % to 0.35 %
28	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance	Using MFC Fluke 9100 By Direct Method	1 ohm to 10 ohm	1.46 % to 0.17 %
29	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance	Using MFC Fluke 9100 by Direct Method	10 ohm to 100 ohm	0.17 % to 0.04 %
30	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance	Using MFC Fluke 9100 by Direct Method	100 M ohm to 400 M ohm	0.35 % to 0.37 %

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31	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Resistance	Using MFC Fluke 9100 by Direct Method	100 ohm to 1 M ohm	0.04 % to 0.070 %
32	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Voltage	Using MFC Fluke 9100 by Direct Method	1 mV to 10 mV	0.76 % to 0.09 %
33	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Voltage	Using MFC Fluke 9100 by Direct Method	1 V to 1000 V	0.014 % to 0.010 %
34	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Voltage	Using MFC Fluke 9100 by Direct Method	10 mV to 1 V	0.09 % to 0.014 %
35	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Energy Single And Three phase 50 Hz (6 A, PF 0.5 - 1)	Using Three Phase Power Energy Meter Calibrator by Direct Method	50 V to 300 V	1.35%

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36	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	High Resistance (@Test Voltage upto 5000V)	Using High Resistance Box by Direct Method	1 Gohm	5.97%
37	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	High Resistance (@Test Voltage upto 5000V)	Using High Resistance Box by Direct Method	10 Gohm	5.99%
38	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	High Resistance (@Test Voltage upto 5000V)	Using High Resistance Box by Direct Method	10 Mohm	8.30%
39	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	High Resistance (@Test Voltage upto 5000V)	Using High Resistance Box by Direct method	100 Gohm	7.97%
40	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	High Resistance (@Test Voltage upto 5000V)	Using High Resistance Box by Direct Method	100 Mohm	5.99%

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41	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	High Resistance (@Test Voltage upto 5000V)	Using Mega Ohm Meter by direct Method	5 Mohm	6.08%
42	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	High Resistance (@Test Voltage upto 5000V)	Using High Resistance Box by Direct Method	500 Mohm	5.99%
43	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	High Resistance (@Test Voltage upto 5000V)	Using High Resistance Box by direct method	200 Mohm	5.97%
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J- Type Thermocouple (Indicator/controller Calibration)	Using MFC Fluke 9100 by Direct Method	(-)200 °C to 1100 °C	0.42°C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K- Type Thermocouple (Indicator/Controller Calibration)	Using MFC Fluke 9100 by Direct Method	(-)200 °C to 1300 °C	0.47°C

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46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R- Type Thermocouple (indicator/Controller Calibration)	Using MFC Fluke 9100 by Direct Method	300 °C to 1750 °C	1.24°C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD- Thermocouple (Indicator/Controller Calibration)	Using MFC Fluke 9100 by Direct Method	(-)200 °C to 850 °C	0.40°C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S- Type Thermocouple (indicator/Controller Calibration)	Using MFC Fluke 9100 by Direct Method	300 °C to 1750 °C	1.24°C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-Type Thermocouple (Indicator/Controller Calibration)	Using MFC Fluke 9100 by Direct Method	(-)200 °C to 350 °C	0.76°C
50	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using MFC Fluke 9100 by Direct Method	10 Hz to 100 kHz	0.058 % to 0.0095 %

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51	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using MFC Fluke 9100 by Direct Method	100 kHz to 4 MHz	0.058%
52	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using MFC Fluke 9100 by Direct Method	4 MHz to 10 MHz	0.058%
53	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Time	Using Digital Stop Watch By Comparison Method	6 s to 24 hour	0.23 s to 1.22 s
54	FLUID FLOW-FLOW MEASURING DEVICES	Volumetric Flow Rate	Using Ultrasonic Flow meter using HM sensor suitable for 2 to 28 inch dia pipe by Comparision Method	30 m3/hr to 300 m3/hr	2.15 % to 0.84 %
55	MECHANICAL-ACCELERATION AND SPEED	RPM Meter/Speed centrifuge (Contact)	Using Digital Tachometer by Comparison Method	10 to 5000 rpm	4rpm
56	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact)	Using tachometer Calibrator	10 to 1000000 rpm	17rpm

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57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface plate	Using Electronic Level	5100 mm to 5100 mm	1.2*under root (L+W/150)µm
58	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic (Dial Pressure gauges, Digital Pressure gauges, Pressure Transmitter, Pressure Switch,pressure recorder)	Digital pressure indicator by comparison method as per DKD R6-1	30 to 300 bar	0.123bar
59	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic (Dial Pressure gauges, Digital Pressure gauges, Pressure Transmitter, Pressure Switch,pressure recorder)	Digital pressure indicator by comparison method as per DKD R6-1	300 to 700 bar	0.137bar
60	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure Gauges	Digital pressure indicator by comparison method as per DKD -R6-1	0 to 0.196 bar	0.059mbar

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61	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure Gauges	Digital pressure indicator by comparison method as per DKD -R6-1	0.98 to 9.8 bar	0.890mbar
62	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic (Dial Pressure gauge, Digital Pressure gauge, Pressure Transmitter, Pressure Switch,pressure recorder)	Digital pressure indicator by comparison method as per DKD- R-1	0 to 3 bar	0.004bar
63	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic (Dial Pressure gauge, Digital Pressure gauge, Pressure Transmitter, Pressure Switch,pressure recorder)	Digital pressure indicator by comparison method as per DKD R6-1	3 to 30 bar	0.12bar
64	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum (Dial Gauges,Digital Gauges' Vacuum transmitter,Vacuum Switch)	Digital pressure indicator by comparison method as per DKD - R6-1DKD-R6-2	(-)0.94 bar to 0 bar	0.0116bar
65	MECHANICAL-VOLUME	Pipette	Using Gravimetric Method , Standard weights,Balances,Double Distilled Water	10 µl to 100 µl	0.5µl

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66	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance For Readability 100 g	USing Standard Weights F1 & M1 Class	0 to 300 kg	700g
67	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance For Readability 100 mg	USing Standard Weights F1 Class Based on OIML R 76(2006)	0 to 50 kg	400mg
68	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance For Readability 100mg	USing Standard Weights F1 Class Based on OIML R 76(2006)	0 to 10 kg	100mg
69	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance For Readability 1µg	Using Standard Weights E1 Class based on OIML R 76(2006)	0 to 6.1 g	0.006mg
70	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance For Readability 10µg	Using Standard Weights E1 Class based on OIML R 76(2006)	0 to 210 g	0.03mg
71	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance For Readability 1mg	USing Standard Weights F1 Class Based on OIML R 76(2006)	0 to 1 kg	2mg

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72	THERMAL-SPECIFIC HEAT & HUMIDITY	RH Sensor ,Dry & Wet bulb Thermometer ,thermo hygrometer Humidity indicator with inbuilt or External sensor, Temperature and Humidity indicator with sensor, Digital and Analog hygrometers, Temperatur	Using Temp and Humidity indicator with sensor and Portable Temp. and Humidity Generator by comparison method	10 °C to 50 °C	1.23°C
73	THERMAL-SPECIFIC HEAT & HUMIDITY	RH Sensor ,Dry & Wet bulb Thermometer ,thermo hygrometer Humidity indicator with inbuilt or External sensor, Temperature and Humidity indicator with sensor, Digital and Analog hygrometers, Temperatur	Using Temp and Humidity indicator with sensor and Portable Temp. and Humidity Generator by comparison method	35 %RH to 90 %RH	2.10%RH

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74	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature Humidity indicator with sensor of Climatic/Environmental Chamber,Climatic Chambers	Using Temperature &Humidity Indicator with Sensor(single position calibration)	10 °C to 50 °C	1.25°C
75	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature Humidity indicator with sensor of Climatic/Environmental Chamber,Climatic Chambers	Using Temperature &Humidity Indicator with Sensor(single position calibration)	25 %RH to 90 %RH	2.10%RH
76	THERMAL-TEMPERATURE	Dew Point Meter	Using Temp & Humidity indicator with sensor and Portable Temp. and Humidity Generator by comparison method	10 °C to 50 °C	1.1°C
77	THERMAL-TEMPERATURE	Glass thermometer,Temperature Gauge,Dial Type Thermometer	Using RTD , MFC Fluke 725 and liquid bath by comparison method	0 °C to 50 °C	0.66°C
78	THERMAL-TEMPERATURE	Glass thermometer,Temperature Gauge,Dial Type Thermometer	Using RTD , MFC Fluke 725 and liquid bath by comparison method	-30 °C to 0 °C	0.64°C

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79	THERMAL-TEMPERATURE	Glass thermometer,Temperature Gauge,Dial Type Thermometer	Using RTD , MFC Fluke 725 and liquid bath by comparison method	50 °C to 100 °C	0.69°C
80	THERMAL-TEMPERATURE	Glass thermometer,Temperature Gauge,Dial Type Thermometers	Using RTD , MFC Fluke 725 and liquid bath by comparison method	100 °C to 250 °C	0.69°C
81	THERMAL-TEMPERATURE	Non Contact Thermometer /pyrometer/Infrared Thermometer/Infrared Themperature Gun/Thermal Imaging Camera/IR Sensor/Portable/on Line IR radiation Thermometer	Using R Type T/C With MFC Fluke 725 and Black body furnace by comparison method	1000 °C to 1200 °C	3.10°C
82	THERMAL-TEMPERATURE	Non Contact Thermometer /pyrometer/Infrared Thermometer/Infrared Themperature Gun/Thermal Imaging Camera/IR Sensor/Portable/on Line IR radiation Thermometer	Using RTD With MFC Fluke 725 and black body furnace by comparison method	300 °C to 400 °C	2.28°C

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83	THERMAL-TEMPERATURE	Non Contact Thermometer /pyrometer/Infrared Thermometer/Infrared Themperature Gun/Thermal Imaging Camera/IR Sensor/Portable/on Line IR radiation Thermometer	Using RTD, R Type T/C With MFC Fluke 725 and black body furnace by comparison method	400 °C to 500 °C	3.10°C
84	THERMAL-TEMPERATURE	Non Contact Thermometer /pyrometer/Infrared Thermometer/Infrared Themperature Gun/Thermal Imaging Camera/IR Sensor/Portable/on Line IR radiation Thermometer	Using R Type T/C With MFC Fluke 725 and Black body furnace by comparison method	500 °C to 1000 °C	3.10°C

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85	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with or without indicator Dig. Thermometers, Data Loggers with Sensor, Recorders with sensor, Temperature transmitter with indicator,Temp Switch,Temp. Transmitter, Transducer	Using RTD and MFC Fluke 725 and liquid bath by comparison method	0 °C to 50 °C	0.66°C
86	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with or without indicator Dig. Thermometers, Data Loggers with Sensor, Recorders with sensor, Temperature transmitter with indicator,Temp Switch,Temp. Transmitter, Transducer	Using RTD and MFC Fluke 725 and Fluid less furnace by comparison Method	250 °C to 400 °C	1.80°C

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87	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with or without indicator Dig. Thermometers, Data Loggers with Sensor, Recorders with sensor, Temperature transmitter with indicator,Temp Switch,Temp. Transmitter, Transducer	Using RTD and 6&1/2 DMM and liquid bath by comparison method	-30 °C to 0 °C	0.22°C
88	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with or without indicator Dig. Thermometers, Data Loggers with Sensor, Recorders with sensor, Temperature transmitter with indicator,Temp Switch,Temp. Transmitter, Transducer	Using RTD and 6&1/2 DMM and liquid bath by comparison method	50 °C to 250 °C	0.27°C

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89	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with or without indicator Dig. Thermometers, Data Loggers with Sensor, Recorders with sensor, Temperature transmitter with indicator,Temp Switch,Temp. Transmitter, Transducer	Using RTD and MFC Fluke 725 and liquid bath by comparison method	50 °C to 250 °C	0.66°C
90	THERMAL-TEMPERATURE	Temp Calibration of Refrigerator\Deep Freezers, Autoclaves, Cold chamber/Environmental chamber,Oven ,Incubator,Furnace	Using RTD,N type T/C(minimum 9) with 9 channel dataloggers (multiposition method)	-30 °C to 200 °C	1.5°C
91	THERMAL-TEMPERATURE	Temp Calibration of Refrigerator\deep Freezers, Autoclaves, Cold Chamber/Environmental chamber,Oven ,Incubator,Furnace	Using RTD,N Type T/Cs (minimum 9)with 9 Channel Data Logger(multi position method)	200 °C to 400 °C	3.10°C

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92	THERMAL-TEMPERATURE	Temp Calibration of Refrigerator\deep Freezers, Autoclaves, Cold Chamber/Environmental chamber,Oven ,Incubator,Furnace	Using RTD,N type T/C (minimum 9) with 9 channel data loggers (multiposition method)	400 °C to 1200 °C	3.70°C
93	THERMAL-TEMPERATURE	Temp indicator with sensor of Liquid bath,Dry Block,Furnace Oven,Incubator,Freezer	Using RTD & MFC Fluke 725 by comparison method((single position calibration)	0 °C to 50 °C	0.66°C
94	THERMAL-TEMPERATURE	Temp indicator with sensor of Liquid bath,Dry Block,Furnace Oven,Incubator,Freezer	Using R type T/C & MFC Fluke 725 by comparison method(single position calibration)	1000 °C to 1500 °C	3.20°C
95	THERMAL-TEMPERATURE	Temp indicator with sensor of Liquid bath,Dry Block,Furnace Oven,Incubator,Freezer	Using RTD & MFC Fluke 725 by comparison Method(single position calibration)	250 °C to 400 °C	1.79°C

SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025:2017
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96	THERMAL-TEMPERATURE	Temp indicator with sensor of Liquid bath,Dry Block,Furnace Oven,Incubator,Freezer	Using RTD & MFC Fluke 725 by comparison method(single position calibration)	-30 °C to 0 °C	0.66°C
97	THERMAL-TEMPERATURE	Temp indicator with sensor of Liquid bath,Dry Block,Furnace Oven,Incubator,Freezer	Using R Type T/C & MFC Fluke 725 by comparison method(single position calibration)	400 °C to 500 °C	3.30°C
98	THERMAL-TEMPERATURE	Temp indicator with sensor of Liquid bath,Dry Block,Furnace Oven,Incubator,Freezer	Using RTD, &MFC Fluke 725 by comparison method(single position calibration)	50 °C to 250 °C	0.60°C
99	THERMAL-TEMPERATURE	Temp indicator with sensor of Liquid bath,Dry Block,Furnace Oven,Incubator,Freezer	Using R type T/C & MFC Fluke 725 by comparison method(Single Position Calibration)	500 °C to 1000 °C	2.94°C

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100	THERMAL-TEMPERATURE	Thermocouples, Dig Thermometers, Temp. Indicator with sensor , Data loggers With Sensor,Recorders with Sensor,Temp Switch,Temp Transmitter,Transduce	Using R Type T/C And MFC Fluke 725 Dry block Temperature calibrator by comparison Method	1000 °C to 1500 °C	3.76°C
101	THERMAL-TEMPERATURE	Thermocouples, Dig Thermometers, Temp. Indicator with sensor , Data loggers With Sensor,Recorders with Sensor,Temp Switch,Temp Transmitter,Transduce	Using R Type T/C ,MFC Fluke 725 and Fluid less Furnace by comparison Method	400 °C to 500 °C	2.29°C

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102	THERMAL-TEMPERATURE	Thermocouples, Dig Thermometers, Temp. Indicator with sensor , Data loggers With Sensor,Recorders with Sensor,Temp Switch,Temp Transmitter,Transduce	Using R Type T/C And MFC Fluke 725 Dry block Temperature calibrator by comparison Method	500 °C to 1000 °C	3.82°C

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