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Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz	Using 6 ½ Digit Multimeter By Direct Method	1 mA to 100 mA	0.50 % to 0.31 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz	Using 6 ½ Digit Multimeter By Direct Method	100 µA to 1 mA	0.40 % to 0.50 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz	Using 6 ½ Digit Multimeter By Direct Method	100 mA to 3 A	0.31 % to 0.73 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz	Using 6 ½ Digit Multimeter By Direct Method	10 V to 750 V	0.15 % to 0.16 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz	Using 6 ½ Digit Multimeter By Direct Method	100 mV to 10 V	1.2 % to 0.15 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current	Using 5 ½ Digit Multi Functional Calibrator with Current Coil By Direct Method	10 A to 600 A	2.37% to 1.25%
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using 5 ½ Digit Multi Functional Calibrator By Direct Method	2 A to 10 A	0.32 % to 0.35 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using 5 ½ Digit Multi Functional Calibrator By Direct Method	20 mA to 2 A	0.43 % to 0.32 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using 5 ½ Digit Multi Functional Calibrator By Direct Method	200 µA to 20 mA	0.50 % to 0.43 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz	Using 5 ½ Digit Multi Functional Calibrator By Direct Method	10 mV to 100 mV	0.50 % to 0.25 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz	Using 5 ½ Digit Multi Functional Calibrator By Direct Method	100 mV to 750 V	0.25 % to 0.36 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	Using Decade Capacitance Box by Direct Method	1 µF to 100 µF	1.22 % to 1.30 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	Using Decade Capacitance Box By Direct Method	1 nF to 1000 nF	1.16 % to 1.22 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @1kHz	Using Decade Inductance Box By Direct Method	100 µH to 10 H	1.30 % to 1.65 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digit Multimeter By Direct Method	1 mA to 100 mA	0.40 % to 0.16 %

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16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digit Multimeter By Direct Method	100 µA to 1 mA	0.60 % to 0.40 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digit Multimeter By Direct Method	100 mA to 3 A	0.16 % to 0.26 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digit Multimeter By Direct Method	1 mV to 100 mV	1.0 % to 0.15 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digit Multimeter By Direct Method	10 V to 1000 V	0.12 % to 0.13 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digit Multimeter By Direct Method	100 mV to 10 V	0.15 % to 0.12 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Digit Multimeter By Direct Method	1 Ohm to 1 Mohm	0.30 % to 0.25 %

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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Digit Multimeter By Direct Method	1 Mohm to 100 Mohm	0.25 % to 1.01 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5 ½ Digit Multi Functional Calibrator By Direct Method	2 A to 10 A	0.25 % to 0.22 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5 ½ Digit Multi Functional Calibrator By Direct Method	20 mA to 2 A	0.15 % to 0.25 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5 ½ Digit Multi Functional Calibrator By Direct Method	200 µA to 20 mA	0.42 % to 0.15 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	Using 5 ½ Digit Multi Functional Calibrator with Current Coil By Direct Method	10 A to 1000 A	1.5 % to 2.0 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5 ½ Digit Multi Functional Calibrator By Direct Method	1 mV to 100 mV	1.36 % to 0.59 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5 ½ Digit Multi Function Calibrator By Direct Method	100 mV to 1000 V	0.59 % to 0.23 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	1 Ohm to 200 Mohm	1.2 % to 2.06 %
30	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E-Type Thermocouple	Using Universal Calibrator and using High Precision Thermometer With Temperature Simulation by Direct Method	-100 °C to 580 °C	4.91°C
31	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type Thermocouple	Using Universal Calibrator and using High Precision Thermometer With Temperature Simulation by Direct Method	-100 °C to 700 °C	4.3°C
32	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type ThermoCouple	Using Universal Calibrator and Using High Precision Thermometer With Temperature Simulation by Direct Method	-100 °C to 700 °C	4.3°C

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33	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type Thermocouple	Using Universal Calibrator and using High Precision Thermometer With Temperature Simulation by Direct Method	-100 °C to 1000 °C	5.83°C
34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type Thermocouple	Using Universal Calibrator and using High Precision Thermometer With Temperature Simulation by Direct Method	100 °C to 1680 °C	15.52°C
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD-Type	Using Universal Calibrator and using High Precision Thermometer With Temperature Simulation by Direct Method	-100 °C to 600 °C	4.73°C
36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S-Type Thermocouple	Using Universal Calibrator and using High Precision Thermometer With Temperature Simulation by Direct Method	100 °C to 1680 °C	15.3°C

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37	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digit Multimeter By Direct Method	45 Hz to 1 kHz	0.034 % to 0.181 %
38	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval/Stop Watch (Digital/Analog)	Using Time Calibrator/By Comparison Method	1 s to 1800 s	3.66 % to 1.3 %
39	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval/Stop Watch (Digital/Analog)	Using Time Calibrator/By Comparison Method	1800 s to 7200 s	1.3 % to 2.5 %
40	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using 5 ½ Digit Multi Functional Calibrator by Direct Method	45 Hz to 1 kHz	0.30 % to 0.14 %
41	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method by Using SANAS TR45-02	100 rpm to 1000 rpm	3.5rpm

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42	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type) Range 1000 RPM to 10000 RPM at permanent laboratory only and Centrifuge 100 RPM to 6000 RPM at Site only	Using Digital Tachometer and RPM Source by Comparison Method by Using SANAS TR45-02	1000 rpm to 10000 rpm	7.3rpm
43	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type).	Using Digital Tachometer and RPM Source by Comparison Method by Using SANAS TR45-02	10000 rpm to 90000 rpm	8.9rpm
44	MECHANICAL-ACCELERATION AND SPEED	Tachometer, (Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method by Using SANAS TR45-02	1000 rpm to 8000 rpm	5.0rpm
45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould	Using Digital Caliper by Comparison Method	Up to 150X150 mm	26.3µm

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46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge / Flakiness gauge.	Using Profile Projector, Digital Vernier caliper & Micrometer by Comparison Method	1 mm to 100 mm	25.8µm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.0.001 mm	Using Micrometer Check Set and slip Gauge by Comparison method	0 to 25 mm	3.0µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauges	Using Micrometer By Comparison Method	0.010 mm to 1 mm	4.0µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Digital and Dial) L.C.0.01mm	Using Gauge Blocks / Caliper Checker By Comparison Method Based On IS:2921	0 to 300 mm	17.6µm
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge L.C. 0.01 mm	Using Dial Calibration Tester by Comparison method	0 to 0.8 mm	6.3µm

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51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape	Using Scale and Tape Calibrator By Comparison Method	0 to 30000 mm	400 + (L/100) µm (Where L is in mm)
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauges L.C.0.01mm	Using Dial Calibration Tester By Comparison Method	0 to 12.7 mm	2.4µm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge (Concave and Convex)	Using Profile Projector By Comparison Method	0.5 mm to 100 mm	12.4µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale	Using Scale and Tape Calibrator By Comparison Method	0 to 1000 mm	300µm
55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture Size)	Using Digital Caliper by Comparison Method	6 mm to 120 mm	19.5µm

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56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture Size)	Using Profile Projector by Comparison Method	0.045 mm to 6 mm	12.4µm
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge	Using Profile Projector By Comparison Method	1 mm to 25 mm	12.0µm
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier calipers (Dial and Digital) L.C.0.01mm	Using Caliper Checker / Gauges Blocks By Comparison Method	0 to 300 mm	13.7µm
59	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Hydraulic)	Using Digital Pressure Gauge Using Hand Pump By Comparison Method as per DKD R6-1	0 to 700 bar	0.97bar
60	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Pneumatic)	Using Digital Pressure Gauge Using Hand Pump and Comparator By Comparison Method as per DKD R6-1	0 to 35 bar	0.05bar

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61	MECHANICAL-PRESSURE INDICATING DEVICES	Vaccum Gauge	Using Digital Pressure Gauge Using Hand Pump By Comparison Method as per DKD R6-2	-0.89 bar to 0 bar	0.02bar
62	MECHANICAL-VOLUME	Laboratory Glass Ware (Volumetric Instruments) Burette, Pipette, Measuring Cylinder, Flask, Grauated Jar	Using Digital Balance up to 220 g, readability 0.1 mg and distilled water of known density byGravimetric method as per IS/ISO 4787 & ISO 20461. Reference Temperature : 27 °C	1 ml to 100 ml	0.05ml
63	MECHANICAL-VOLUME	Laboratory Glass Ware (Volumetric Instruments) Measuring Cylinder, Flask, Grauated Jar	Using Digital Balance up to 6 kg, readability 10 mg and distilled water of known density byGravimetric method as per IS/ISO 4787 & ISO 20461. Reference Temperature : 27 °C	1000 ml to 2000 ml	8ml

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64	MECHANICAL-VOLUME	Laboratory Glass Ware (Volumetric Instruments), Measuring Cylinder, Flask, Grauated Jar	Using Digital Balance up to 1 kg, readability 1 mg and distilled water of known density by Gravimetric method as per IS/ISO 4787 & ISO 20461. Reference Temperature : 27 °C	100 ml to 500 ml	0.31ml
65	MECHANICAL-VOLUME	Micro Pipette(Single Channel & Multi Channel)	Using Digital Balance up to 80 / 220 g readability 0.01 / 0.1 mg and distilled water of known density by Gravimetric method as per ISO 8655-6 & ISO 20461. Reference Temperature : 27 °C	1 ml to 10 ml	4µl
66	MECHANICAL-VOLUME	Micro Pipette(Single Channel & Multi Channel)	Using Digital Balance up to 80 g readability 0.01 mg and distilled water of known density By Gravimetric method as per ISO 8655-6 & ISO 20461. Reference Temperature : 27 °C	10 µl to 1000 µl	1.5µl

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67	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital /Analog Weighing Balances d=10 mg, Class II and Coarser	Using F1 Class Standard Weights as per OIML R-76-1	1 kg to 6 kg	2.4g
68	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital /Analog Weighing Balances d=10 mg, Class II and Coarser	Using E1 Standard Weights & Standard Weights F1 Class as per OIML R-76-1	200 g to 1 kg	2.4g
69	MECHANICAL-WEIGHTS	Calibration of Weight M1 Class and Coarser	Using Stanadard Weight F1 Class, Balance Redability: 1 mg Using ABBA method as OIML R 111-1	1000 g	0.017g
70	MECHANICAL-WEIGHTS	Calibration of Weight M1 Class and Coarser	Using Stanadard Weight F1 Class, Balance Redability:0.01 g Using ABBA method as OIML R 111-1	2000 g	0.033g
71	MECHANICAL-WEIGHTS	Calibration of Weight M1 Class and Coarser	Using Stanadard Weight F1 Class, Balance Redability: 1 mg Using ABBA method as OIML R 111-1	500 g	0.008g

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72	MECHANICAL-WEIGHTS	Calibration of Weight M1 Class and Coarser	Using Stanadard Weight F1 Class, Balance Redability:0.01 g Using ABBA method as OIML R 111-1	5000 g	0.083g
73	MECHANICAL-WEIGHTS	Calibration of Weight F1 Class and Coarser	Using Stanadard Weight E1 Class, Balance Redability:0.01 mg Using ABBA method as OIML R1111	1 g	0.03mg
74	MECHANICAL-WEIGHTS	Calibration of Weight F1 Class and Coarser	Using Stanadard Weight E1 Class, Balance Redability:0.01 mg Using ABBA method as OIML R1111	10 g	0.06mg
75	MECHANICAL-WEIGHTS	Calibration of Weight F1 Class and Coarser	Using Stanadard Weight E1 Class, Balance Redability:0.1 mg Using ABBA method as OIML R 111-1	100 g	0.2mg
76	MECHANICAL-WEIGHTS	Calibration of Weight F1 Class and Coarser	Using Stanadard Weight E1 Class, Balance Redability:0.01 mg Using ABBA method as OIML R1111	2 g	0.03mg

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77	MECHANICAL-WEIGHTS	Calibration of Weight F1 Class and Coarser	Using Stanadard Weight E1 Class, Balance Redability:0.01 mg Using ABBA method as OIML R 111-1	20 g	0.07mg
78	MECHANICAL-WEIGHTS	Calibration of Weight F1 Class and Coarser	Using Stanadard Weight E1 Class, Balance Redability:0.1 mg Using ABBA method as OIML R 111-1	200 g	0.3mg
79	MECHANICAL-WEIGHTS	Calibration of Weight F1 Class and Coarser	Using Stanadard Weight E1 Class, Balance Redability:0.01 mg Using ABBA method as OIML R 111-1	5 g	0.05mg
80	MECHANICAL-WEIGHTS	Calibration of Weight F1 Class and Coarser	Using Stanadard Weight E1 Class, Balance Redability:0.01 mg Using ABBA method as OIML R 111-1	50 g	0.09mg
81	MECHANICAL-WEIGHTS	Calibration of Weight F2 Class and Coarser	Using Stanadard Weight E1 Class, Balance Redability:0.01 mg Using ABBA method as OIML R 111-1	1 mg	0.02mg

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82	MECHANICAL-WEIGHTS	Calibration of Weight F2 Class and Coarser	Using Stanadard Weight E1 Class, Balance Redability:0.01 mg Using ABBA method as OIML R 111-1	10 mg	0.02mg
83	MECHANICAL-WEIGHTS	Calibration of Weight F2 Class and Coarser	Using Stanadard Weight E1 Class, Balance Redability:0.01 mg Using ABBA method as OIML R 111-1	100 mg	0.02mg
84	MECHANICAL-WEIGHTS	Calibration of Weight F2 Class and Coarser	Using Stanadard Weight E1 Class, Balance Redability:0.01 mg Using ABBA method as OIML R 111-1	2 mg	0.02mg
85	MECHANICAL-WEIGHTS	Calibration of Weight F2 Class and Coarser	Using Stanadard Weight E1 Class, Balance Redability:0.01 mg Using ABBA method as OIML R 111-1	20 mg	0.02mg
86	MECHANICAL-WEIGHTS	Calibration of Weight F2 Class and Coarser	Using Stanadard Weight E1 Class, Balance Redability:0.01 mg Using ABBA method as OIML R 111-1	200 mg	0.02mg

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87	MECHANICAL-WEIGHTS	Calibration of Weight F2 Class and Coarser	Using Stanadard Weight E1 Class, Balance Redability:0.01 mg Using ABBA method as OIML R 111-1	5 mg	0.02mg
88	MECHANICAL-WEIGHTS	Calibration of Weight F2 Class and Coarser	Using Stanadard Weight E1 Class, Balance Redability:0.01 mg Using ABBA method as OIML R 111-1	50 mg	0.02mg
89	MECHANICAL-WEIGHTS	Calibration of Weight F2 Class and Coarser	Using Stanadard Weight E1 Class, Balance Redability:0.01 mg Using ABBA method as OIML R 111-1	500 mg	0.03mg
90	THERMAL-SPECIFIC HEAT & HUMIDITY	Hygrometer,Humidity Sensor , Humidity transmitters , Portable Data Loggers with sensors	Using Digital Thermohygrometer with Humidity Generator by Comparison method	20 %RH to 95 %RH @ 25 °C	2.8%RH
91	THERMAL-SPECIFIC HEAT & HUMIDITY	Hygrometer,Humidity Sensor , Humidity transmitters , Portable Data Loggers with sensors	Using Reference Hygrometer with Humidity Generator by Comparison method	5 °C to 50 °C@ 50 % RH	1.2°C

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92	THERMAL-TEMPERATURE	liquid in Glass Thermometer	Using 4 Wire RTD and liquid Bath , By Comparison Method	50 °C to 250 °C	0.6°C
93	THERMAL-TEMPERATURE	Digital Thermometer, Data Logger with Temperature Sensor, Temperature Transmitters	Using 4-wire RTD with Indicator and Dry block bath and Liquid Bath , By Comparison Method	-35 °C to 250 °C	1.1°C
94	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using 4-Wire RTD with Indicator and Liquid Bath(-40 to 50 °C) by Comparison method	-35 °C to 50 °C	0.71°C
95	THERMAL-TEMPERATURE	RTD(with or without Indicator), Digital Thermometer, Data loggers withTemperature Sensors, Temperature Transmitters	Using 4 Wire RTD, Using liquid Bath, process calibrator , By Comparison Method	-35 °C to 250 °C	1.1°C
96	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Oven, Dry block Furnace	Using S-Type Thermocouple with Indicator(Single Position Calibration) By Comparison method	400 °C to 650 °C	2.0°C

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97	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Oven, Dry Block Furnace, Muffle Furnace	Using S-Type Thermocouple with Indicator (Single Position Calibration) By Comparison Method	650 °C to 1200 °C	2.7°C
98	THERMAL-TEMPERATURE	Thermocouple (with or without Indicator), Digital Thermometer, Data loggers with Temperature Sensors, Temperature Transmitters with indicator.	Using S-Type Thermocouple and Dry Bath as source, process calibrator By Comparison Method	400 °C to 650 °C	2.0°C
99	THERMAL-TEMPERATURE	Thermocouple (with or without Indicator), Digital Thermometer, Data loggers, Temperature Sensors, Temperature Transmitters.	Using S-Type Thermocouple and Dry Bath Furnace, process calibrator By Comparison Method	650 °C to 1200 °C	2.3°C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz	Using 6 ½ Digit Multimeter By Direct Method	1 mA to 100 mA	0.50 % to 0.31 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz	Using 6 ½ Digit Multimeter By Direct Method	100 µA to 1 mA	0.40 % to 0.50 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz	Using 6 ½ Digit Multimeter By Direct Method	100 mA to 3 A	0.31 % to 0.73 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz	Using 6 ½ Digit Multimeter By Direct Method	10 V to 750 V	0.15 % to 0.16 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz	Using 6 ½ Digit Multimeter By Direct Method	100 mV to 10 V	1.2 % to 0.15 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current	Using 5 ½ Digit Multi Functional Calibrator with Current Coil By Direct Method	10 A to 600 A	2.37% to 1.25%
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using 5 ½ Digit Multi Functional Calibrator By Direct Method	2 A to 10 A	0.32 % to 0.35 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using 5 ½ Digit Multi Functional Calibrator By Direct Method	20 mA to 2 A	0.43 % to 0.32 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using 5 ½ Digit Multi Functional Calibrator By Direct Method	200 µA to 20 mA	0.50 % to 0.43 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz	Using 5 ½ Digit Multi Functional Calibrator By Direct Method	10 mV to 100 mV	0.50 % to 0.25 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @50 Hz	Using 5 ½ Digit Multi Functional Calibrator By Direct Method	100 mV to 750 V	0.25 % to 0.36 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	Using Decade Capacitance Box by Direct Method	1 µF to 100 µF	1.22 % to 1.30 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @1kHz	Using Decade Capacitance Box By Direct Method	1 nF to 1000 nF	1.16 % to 1.22 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @1kHz	Using Decade Inductance Box By Direct Method	100 µH to 10 H	1.30 % to 1.65 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digit Multimeter By Direct Method	1 mA to 100 mA	0.40 % to 0.16 %

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16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digit Multimeter By Direct Method	100 µA to 1 mA	0.60 % to 0.40 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digit Multimeter By Direct Method	100 mA to 3 A	0.16 % to 0.26 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digit Multimeter By Direct Method	1 mV to 100 mV	1.0 % to 0.15 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digit Multimeter By Direct Method	10 V to 1000 V	0.12 % to 0.13 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digit Multimeter By Direct Method	100 mV to 10 V	0.15 % to 0.12 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Digit Multimeter By Direct Method	1 Ohm to 1 Mohm	0.30 % to 0.25 %

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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6 ½ Digit Multimeter By Direct Method	1 Mohm to 100 Mohm	0.25 % to 1.01 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5 ½ Digit Multi Functional Calibrator By Direct Method	2 A to 10 A	0.25 % to 0.22 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5 ½ Digit Multi Functional Calibrator By Direct Method	20 mA to 2 A	0.15 % to 0.25 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5 ½ Digit Multi Functional Calibrator By Direct Method	200 µA to 20 mA	0.42 % to 0.15 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	Using 5 ½ Digit Multi Functional Calibrator with Current Coil By Direct Method	10 A to 1000 A	1.5 % to 2.0 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5 ½ Digit Multi Functional Calibrator By Direct Method	1 mV to 100 mV	1.36 % to 0.59 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5 ½ Digit Multi Function Calibrator By Direct Method	100 mV to 1000 V	0.59 % to 0.23 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	1 Ohm to 200 Mohm	1.2 % to 2.06 %
30	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E-Type Thermocouple	Using Universal Calibrator and using High Precision Thermometer With Temperature Simulation by Direct Method	-100 °C to 580 °C	4.91°C
31	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type Thermocouple	Using Universal Calibrator and using High Precision Thermometer With Temperature Simulation by Direct Method	-100 °C to 700 °C	4.3°C
32	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type ThermoCouple	Using Universal Calibrator and Using High Precision Thermometer With Temperature Simulation by Direct Method	-100 °C to 700 °C	4.3°C

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33	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type Thermocouple	Using Universal Calibrator and using High Precision Thermometer With Temperature Simulation by Direct Method	-100 °C to 1000 °C	5.83°C
34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type Thermocouple	Using Universal Calibrator and using High Precision Thermometer With Temperature Simulation by Direct Method	100 °C to 1680 °C	15.52°C
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD-Type	Using Universal Calibrator and using High Precision Thermometer With Temperature Simulation by Direct Method	-100 °C to 600 °C	4.73°C
36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S-Type Thermocouple	Using Universal Calibrator and using High Precision Thermometer With Temperature Simulation by Direct Method	100 °C to 1680 °C	15.3°C

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37	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digit Multimeter By Direct Method	45 Hz to 1 kHz	0.034 % to 0.181 %
38	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval/Stop Watch (Digital/Analog)	Using Time Calibrator/By Comparison Method	1 s to 1800 s	3.66 % to 1.3 %
39	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval/Stop Watch (Digital/Analog)	Using Time Calibrator/By Comparison Method	1800 s to 7200 s	1.3 % to 2.5 %
40	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using 5 ½ Digit Multi Functional Calibrator by Direct Method	45 Hz to 1 kHz	0.30 % to 0.14 %
41	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type) Range 1000 RPM to 10000 RPM at permanent laboratory only and Centrifuge 100 RPM to 6000 RPM at Site only	Using Digital Tachometer and RPM Source by Comparison Method by Using SANAS TR45-02	1000 rpm to 10000 rpm	7.3rpm

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42	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Hydraulic)	Using Digital Pressure Gauge Using Hand Pump By Comparison Method as per DKD R6-1	0 to 700 bar	0.97bar
43	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge (Pneumatic)	Using Digital Pressure Gauge Using Hand Pump and Comparator By Comparison Method as per DKD R6-1	0 to 35 bar	0.05bar
44	MECHANICAL-PRESSURE INDICATING DEVICES	Vaccum Gauge	Using Digital Pressure Gauge Using Hand Pump By Comparison Method as per DKD R6-2	-0.89 bar to 0 bar	0.02bar
45	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Compression Testing Machine(CTM) (Class 1 and Coarser) Compression Mode	Using Proving ring as per IS 1828 - (Part 1): 2022	100 kN to 2000 kN	2.3%
46	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing machine (UTM) Compression M ode (Class 1)	Using Load Cell with Indicator of Class 0.5 and Class 1 and Coarser based on IS 1828 (Part 1): 2022	1 kN to 100 kN	2.44%

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47	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing machine (UTM) Tension Mode (Class 1)	Using Load Cell with Indicator of Class 0.5 and Class 1 and Coarser based on IS 1828 (Part 1): 2022	1 kN to 100 kN	1.5%
48	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital /Analog Weighing Balances d=1 g, Class II and Coarser	Using Standard Weights E1 Class (1 mg to 200 g), Using Standard Weights F1 Class(500 g to 10 kg) as per OIML-R-76	200 g to 15 kg	2.4g
49	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital /Analog Weighing Balances d=10 g, Class IV and Coarser	Using F1 Class and F2 Class weights as per OIML R-76-1	500 g to 100 kg	40g
50	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital /Analog Weighing Balances d=10 mg, Class II and Coarser	Using F1 Class Standard Weights as per OIML R-76-1	1 kg to 6 kg	2.4g
51	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital /Analog Weighing Balances d=10 mg, Class II and Coarser	Using E1 Standard Weights & Standard Weights F1 Class as per OIML R-76-1	200 g to 1 kg	2.4g
52	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital /Analog Weighing Balances d=50 g Class IV and Coarser	Using F1 Class and F2 Class Weights as per OIML R-76-1	1 kg to 200 kg	100g

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53	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital /Analog Weighing Balances, Semi Micro Balances d=0.01 mg Class 1 and Coarser	Using Standard Weights E1 Class (1mg to 200 g) as per OIML-R-76	1 mg to 80 g	0.42mg
54	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital/ Analog Weighing Balances d=0.01 mg Class 1 and Coarser	Using Standard Weight E1 Class as per OIML-R-76	10 mg to 220 g	0.8mg
55	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with sensor of Humidity Chamber/Environmental Chambers	Using Digital Thermohygrometer (Single Position) By Comparison Method	20 %RH to 95 %RH @ 25 °C	4%RH
56	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity indicator with snesor of Humidity Chamber/Environmental Chambers	Using Digital Thermohygrometer (Single Position) By Comparison Method	15 °C to 50 °C @ 50 % RH	0.8°C
57	THERMAL-TEMPERATURE	Digital Thermometer, Data Logger with Temperature Sensor, Temperature Transmitters	Using 4-wire RTD with Indicator and Dry block bath and Liquid Bath , By Comparison Method	-35 °C to 250 °C	1.1°C

SCOPE OF ACCREDITATION

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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	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
58	THERMAL-TEMPERATURE	RTD(with or without Indicator), Digital Thermometer, Data loggers withTemperature Sensors, Temperature Transmitters	Using 4 Wire RTD, Using liquid Bath, process calibrator , By Comparison Method	-35 °C to 250 °C	1.1°C
59	THERMAL-TEMPERATURE	Temperature Indicator with Sensor Of Dry block Furnace, Muffle Furnace	Using S-Type Thermocouple with Indicator(Single Position Calibration) By Comparison method	650 °C to 1200 °C	3.0°C
60	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Incubator (Non medical purpose), Water Bath	Using 4-wire RTD with Indicator By Comparison Method (Single Position)	25 °C to 100 °C	0.6°C
61	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Freezer/ Refrigerator (Single position)	Using 4 Wire RTD with Indicator By Comparison Method	-40 °C to 10 °C	1.3°C
62	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Oven	Using 4 Wire RTD with Indicator By Comparison Method (Single Position)	50 °C to 300 °C	1.3°C

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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)(±)
63	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Oven, Dry block Furnace	Using S-Type Thermocouple with Indicator(Single Position Calibration) By Comparison method	400 °C to 650 °C	2.0°C
64	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Oven, Dry Block Furnace, Muffle Furnace	Using S-Type Thermocouple with Indicator (Single Position Calibration) By Comparison Method	650 °C to 1200 °C	2.7°C
65	THERMAL-TEMPERATURE	Thermocouple (with or without Indicator), Digital Thermometer, Data loggers with Temperature Sensors, Temperature Transmitters with indicator.	Using S-Type Thermocouple and Dry Bath as source, process calibrator By Comparison Method	400 °C to 650 °C	2.0°C
66	THERMAL-TEMPERATURE	Thermocouple (with or without Indicator), Digital Thermometer, Data loggers, Temperature Sensors, Temperature Transmitters.	Using S-Type Thermocouple and Dry Bath Furnace, process calibrator By Comparison Method	650 °C to 1200 °C	2.3°C

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