National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PRAJYO INSTRUMENT PVT. LTD., 18, 19, 20A, 24, RACHANA INDUSTRIAL COMPLEX, PLOT NO. 71/1B/14, TELCO ROAD, MIDC, BHOSARI, PUNE, MAHARASHTRA, 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	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 8½ Reference DMM & Standard CT with 6½ DMM by Direct/Comparison Method	20 A to 3200 A	0.62 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Standard CT with 6½ DMM by Direct/Comparison Method	3200 A to 6000 A	0.62 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 5 kHz	Using 8½ Reference DMM & Standard CT with 6½ DMM by Direct/Comparison Method	200 mA to 20 A	0.07 % to 0.14 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 5 kHz	Using 8½ Reference DMM by Direct/Comparison Method	30 µA to 200 mA	0.32 % to 0.07 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using Standard PT with Digital Multimeter by Direct/ Comparison Method	1 kV to 33 kV	0.6 % to 0.22 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 100 kHz	Using 8½ Reference DMM by Direct/ Comparison Method	2 mV to 200 mV	1.62 % to 0.11 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 100 kHz	Using 8½ Reference DMM by Direct/ Comparison Method	200 mV to 200 V	0.11 % to 0.091 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 10 kHz	Using 8½ Reference DMM by Direct/ Comparison Method	1 mV to 1000 V	0.975 % to 0.039 %

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9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using LCR Meter by Direct Method	10 nF to 1 mF	0.18 % to 1.58 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 1 KHz	Using LCR Meter by Direct Method	10 µH to 10 H	1.3%
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Multi-Product Calibrator by Direct Method	10 A to 20 A	0.19 % to 0.37 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Multi-Product Calibrator by Direct Method	300 mA to 10 A	0.12 % to 0.19 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi-Product Calibrator with 50 Turn Current Coil by Direct Method	20 A to 1000 A	2.35 % to 0.36 %

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14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi-Product Calibrator by Direct Method	30 µA to 300 mA	0.63 % to 0.12 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power (30 V to 300 V / 0.01 A to 20 A) @ 50 Hz	Using Multi-Product Calibrator by Direct Method	0.5 PF to 0.01 PF	0.46 % to 1.2 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 45 Hz	Using Multi-Product Calibrator by Direct Method	3 mV to 30 V	0.737 % to 0.043 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 kHz to 100 kHz	Using Multi-Product Calibrator by Direct Method	30 mV to 200 V	0.464 % to 0.274 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi-Product Calibrator by Direct Method	3 mV to 1000 V	0.742 % to 0.054 %

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19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi-Product Calibrator by Direct Method	1 nF to 1 mF	2.64 % to 1.82 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitor by Direct Method	10 nF to 10 µF	1.29 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductors by Direct Method	100 µH to 10 H	1.63 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Reference DMM with Standard Shunt by Direct/ Comparison Method	1 µA to 20 A	0.067 % to 0.051 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Reference DMM with Standard Shunt by Direct/ Comparison Method	20 A to 1000 A	1 %

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24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Divider with kV Meter by Direct/ Comparison Method	1 kV to 60 kV	2.5 % to 2 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 8½ Reference DMM by Direct/ Comparison Method	1 MOhm to 20 GOhm	0.006 % to 0.196 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 8½ Reference DMM by Direct/ Comparison Method	1 Ohm to 1 MOhm	0.006 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 8½ Reference DMM by Direct/ Comparison Method	10 mOhm to 1 Ohm	0.093 % to 0.006 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Reference DMM by Direct/ Comparison Method	0.1 mV to 100 mV	0.141 % to 0.001 %

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29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Reference DMM by Direct/ Comparison Method	10 V to 1000 V	0.0008 % to 0.001 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Reference DMM by Direct/ Comparison Method	100 mV to 10 V	0.001 % to 0.0008 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	1 A to 20 A	0.037 % to 0.13 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	10 µA to 100 mA	0.25 % to 0.025 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	100 mA to 1 A	0.025 % to 0.037 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator with 50 Turn Current Coil by Direct Method	20 A to 1000 A	0.86 % to 0.29 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi-Product Calibrator by Direct Method	0.1 mV to 300 mV	1.17 % to 0.004 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi-Product Calibrator by Direct Method	300 mV to 1000 V	0.004 % to 0.0025 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Insulation Resistance	Using Standard Resistor Discreet by Direct Method	10 M Ohm to 500 G Ohm	4.63 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi-Product Calibrator by Direct Method	100 kOhm to 1 GOhm	0.007 % to 1.79 %

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39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi-Product Calibrator by Direct Method	100 mOhm to 100 kOhm	1.31 % to 0.007 %
40	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC High Voltage @ 50 Hz	Using HV Divider with kV Meter by Direct/ Comparison Method	1 kV to 50 kV	2.6 % to 2.4 %
41	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Active Energy / Power (UPF) @ 50 Hz	Using Multifunction Calibrator System with Master Energy Meter by Comparison Method	1 mA to 5A / 30 V to 300	0.24 %
42	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT Burden	Using AITTS-98 by Direct Method	1.25 VA to 75 VA	1.72 %
43	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT Ratio Error & Phase Error 1-5 A	Using Standard CT & AITTS-98 by Comparison Method	1 A to 3200 A	RE: 0.018 % & PE: 1.8 minute

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44	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT Ratio Error & Phase Error 1-5 A	Using Standard CT & AITTS-98 by Comparison Method	3200 A to 6000 A	RE: 0.027 % & PE: 2.43 minute
45	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-PT Test Set (CT Mode)	Using AITTS-98 by Comparison method	1 A to 5 A	RE: 0.008 % to 0.011 % & PE: 0.5 minute
46	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-PT Test Set (PT Mode)	Using AITTS-98 by Comparison method	(110 to 100) V / sqrt 3	RE: 0.008 % to 0.011 % & PE: 0.5 minute
47	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	PT Burden	Using AITTS-98 by Direct Method	1.25 VA to 200 VA	1.24 %
48	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	PT Ratio Error & Phase Error @ 50 Hz	Using Standard CT & AITTS-98 by Comparison Method	6.6 / 11 kV to 22 / 33 kV	RE: 0.084 % & PE: 2.43 minute

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49	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Transformer Turn Ratio Meter Calibrator	Using Multifunction Calibrator & DMM by Comparison method	1 Turn to 2200 Turn	0.05 %
50	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Power @ 50 Hz	Using Multi-Product Calibrator by Direct Method	30 V to 300 V & 0.01 A to 0.5 (Lead & Lag) to UPF	0.28 % to 0.46 %
51	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Time Marker	Using Multi-Product Calibrator by Direct Method	2 ns to 5 ns	0.82 % to 0.58 %
52	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude AC/DC (1 MOhm / 50 Ohm)	Using Multi-Product Calibrator by Direct Method	1 mV to 10 mV	5.06 % to 0.58 %
53	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude AC/DC (1 MOhm / 50 Ohm)	Using Multi-Product Calibrator by Direct Method	10 mV to 130 V	0.58 % to 0.17 %

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54	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth	Using Multi-Product Calibrator by Direct Method	50 kHz to 1.1 GHz	2.6 % to 11 %
55	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Power Factor (Lead/Lag) @ 50 Hz	Using Multi-Product Calibrator by Direct Method	0.01 PF to 1 PF	0.002 PF
56	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Transformers Turn Ratio Meter	Using Transformer Turn Ratio Meter Calibrator & Digital Multimeter by Comparison Method	1 Turn to 2200 Turn	0.08 %
57	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Frequency	Using Microwave Frequency Counter by Direct Method	1 Hz to 10 MHz	0.00008 % to 0.000002 %
58	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Frequency	Using Microwave Frequency Counter by Direct Method	10 MHz to 20 GHz	0.000002%

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59	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Frequency	Using Microwave Frequency Counter by Direct Method	20 GHz to 26 GHz	0.000002%
60	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power(100kHz to 20 GHz)	Using RF Reference Calibrator 96270A, using power sensor NRP 40T	-35 dBm to +18 dBm	0.3 dB to 0.4 dB
61	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power(20GHz to 26GHz)	Using RF Reference Calibrator 96270A, using power sensor NRP 40T	-35 dBm to +18 dBm	0.4dB
62	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Frequency	Using RF Refernece Calibrator 96270A	10 kHz to 10 MHz	0.000007 % to 0.000006 %

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63	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Frequency	Using RF Refernece Calibrator 96270A	10 MHz to 4 GHz	0.000006 % to 0.000007 %
64	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Frequency	Using RF Reference Calibrator 96270A	4 GHz to 26 GHz	0.000007 % to 0.000008 %
65	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF Power(1 GHz to 4 GHz)	Using RF Reference Calibrator 96270A	-85 dBm to +18 dBm	0.65dB
66	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF Power(10 MHz to 1 GHz)	Using RF Reference Calibrator 96270A	-124 dBm to +20 dBm	1.85 dB to 0.4 dB

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67	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF Power(100 kHz to 10 MHz)	Using RF Reference Calibrator 96270A	-95 dBm to 24 dBm	0.9 dB to 0.85 dB
68	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF Power(4GHz to 26 GHz)	Using RF Reference Calibrator 96270A	-35 dBm to +16 dBm	1.2dB
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B-Type	Using Multi-Product Calibrator by Direct Method	600 ºC to 1820 ºC	0.976 ºC
70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using 8½ Reference Digital Multimeter by ITS 90 Simulation Method	600 ºC to 1820 ºC	0.055 ºC
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	C-Type	Using Multi-Product Calibrator & 8½ Reference Digital Multimeter by Direct Method	0 ºC to 2300 ºC	0.976 ºC

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72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	C-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using 8½ Reference Digital Multimeter by ITS 90 Simulation Method	0 ºC to 2300 ºC	0.055 ºC
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E-Type	Using Multi-Product Calibrator & 8½ Reference Digital Multimeter by Direct Method	(-) 200 ºC to 1000 ºC	0.976 ºC
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using 8½ Reference Digital Multimeter by ITS 90 Simulation Method	(-) 200 ºC to 1000 ºC	0.055 ºC
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J-Type	Using Multi-Product Calibrator & 8½ Reference Digital Multimeter by Direct Method	(-) 200 ºC to 1200 ºC	0.976 ºC
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using 8½ Reference Digital Multimeter by ITS 90 Simulation Method	(-) 200 ºC to 1200 ºC	0.055 ºC

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77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-Type	Using Multi-Product Calibrator & 8½ Reference Digital Multimeter by Direct Method	(-) 200 ºC to 1372 ºC	0.976 ºC
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using 8½ Reference Digital Multimeter by ITS 90 Simulation Method	(-) 200 ºC to 1372 ºC	0.055 ºC
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	L-Type	Using Multi-Product Calibrator & 8½ Reference Digital Multimeter by Direct Method	(-) 200 ºC to 900 ºC	0.976 ºC
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	L-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using 8½ Reference Digital Multimeter by ITS 90 Simulation Method	(-) 200 ºC to 900 ºC	0.055 ºC
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-Type	Using Multi-Product Calibrator & 8½ Reference Digital Multimeter by Direct Method	(-) 200 ºC to 1300 ºC	0.976 ºC

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82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using 8½ Reference Digital Multimeter by ITS 90 Simulation Method	(-) 200 ºC to 1300 ºC	0.055 ºC
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	PRT	Using 8½ Reference Digital Multimeter by ITS 90 Simulation Method	(-) 200 ºC to 800 ºC	0.021 ºC
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type	Using Multi-Product Calibrator & 8½ Reference Digital Multimeter by Direct Method	0 ºC to 1767 ºC	0.976 ºC
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using 8½ Reference Digital Multimeter by ITS 90 Simulation Method	0 ºC to 1767 ºC	0.055 ºC
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S-Type	Using Multi-Product Calibrator & 8½ Reference Digital Multimeter by Direct Method	0 ºC to 1767 ºC	0.976 ºC

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87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using 8½ Reference Digital Multimeter by ITS 90 Simulation Method	0 ºC to 1767 ºC	0.055 ºC
88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T-Type	Using Multi-Product Calibrator & 8½ Reference Digital Multimeter by Direct Method	(-) 200 ºC to 400 ºC	0.976 ºC
89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using 8½ Reference Digital Multimeter by ITS 90 Simulation Method	(-) 200 ºC to 400 ºC	0.055 ºC
90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	U-Type	Using Multi-Product Calibrator & 8½ Reference Digital Multimeter by Direct Method	(-) 200 ºC to 600 ºC	0.976 ºC
91	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	U-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using 8½ Reference Digital Multimeter by ITS 90 Simulation Method	(-) 200 ºC to 600 ºC	0.055 ºC

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92	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	U-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using Multi-Product Calibrator as per ITS-90	(-) 200 ºC to 600 ºC	0.17 ºC
93	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B -Type	Using Multi-Product Calibrator by Direct Method	600 ºC to 1820 ºC	0.98 ºC
94	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using Multi-Product Calibrator as per ITS-90	600 ºC to 1820 ºC	0.17 ºC
95	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	C-Type	Using Multi-Product Calibrator by Direct Method	0 ºC to 2300 ºC	0.98 ºC
96	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	C-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using Multi-Product Calibrator as per ITS-90	0 ºC to 2300 ºC	0.17 ºC

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97	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E-Type	Using Multi-Product Calibrator by Direct Method	(-) 200 ºC to 1000 ºC	0.98 ºC
98	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using Multi-Product Calibrator as per ITS-90	(-) 200 ºC to 1000 ºC	0.17 ºC
99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type	Using Multi-Product Calibrator by Direct Method	(-) 200 ºC to 1200 ºC	0.98 ºC
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using Multi-Product Calibrator as per ITS-90	(-) 200 ºC to 1200 ºC	0.17 ºC
101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type	Using Multi-Product Calibrator by Direct Method	(-) 200 ºC to 1372 ºC	0.98 ºC

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102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using Multi-Product Calibrator as per ITS-90	(-) 200 ºC to 1372 ºC	0.17 ºC
103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	L-Type	Using Multi-Product Calibrator by Direct Method	(-) 200 ºC to 900 ºC	0.98 ºC
104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	L-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using Multi-Product Calibrator as per ITS-90	(-) 200 ºC to 900 ºC	0.17 ºC
105	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type	Using Multi-Product Calibrator by Direct Method	(-) 200 ºC to 1300 ºC	0.98 ºC
106	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using Multi-Product Calibrator by ITS-90	(-) 200 ºC to 1300 ºC	0.17 ºC

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107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	PRT	Using Multi-Product Calibrator by ITS 90	(-) 200 ºC to 800 ºC	0.07 ºC
108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type	Using Multi-Product Calibrator by Direct Method	0 ºC to 1767 ºC	0.98 ºC
109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using Multi-Product Calibrator as per ITS-90	0 ºC to 1767 ºC	0.17 ºC
110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S-Type	Using Multi-Product Calibrator by Direct Method	0 ºC to 1767 ºC	0.98 ºC
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using Multi-Product Calibrator as per ITS-90	0 ºC to 1767 ºC	0.17 ºC

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112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-Type	Using Multi-Product Calibrator by Direct Method	(-) 200 ºC to 400 ºC	0.98 ºC
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using Multi-Product Calibrator as per ITS-90	(-) 200 ºC to 400 ºC	0.17 ºC
114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	U-Type	Using Multi-Product Calibrator by Direct Method	(-) 200 ºC to 600 ºC	0.98 ºC
115	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Frequency Counter by Direct/ Comparison Method	1 Hz to 1 GHz	0.08 % to 0.0011 %
116	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Period	Using Frequency Counter by Direct/ Comparison Method	1 µs to 1 s	0.08 % to 0.0011 %

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117	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Digital Timer by Comparison Method	2 s to 24 Hour	0.007 s to 10.2 s
118	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi-Product Calibrator by Direct Method	1 Hz to 1.1 GHz	1.17 % to 0.001 %
119	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Period	Using Multi-Product Calibrator by Direct Method	2 ns to 5 s	1.17 % to 0.001 %
120	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Digital Tachometer & Tachometer calibrator by Comparison Method	100 rpm to 3000 rpm	0.17 %
121	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Digital Tachometer & Tachometer calibrator by Comparison Method	12 rpm to 100 rpm	8.5 %

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122	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Digital Tachometer & Tachometer calibrator by Comparison Method	100 rpm to 90000 rpm	0.07 %
123	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Digital Tachometer & Tachometer calibrator by Comparison Method	12 rpm to 100 rpm	5.16 %
124	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1kHz	Using Sound Calibrator, Comparison Method	94dB and 114dB	0.93dB
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Parallelism)	Using Cylindrical Square Master & Plunger Dial as per IS 6973 by Comparison Method	Up to 300 mm	6.6 µm
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Squarness)	Using Cylindrical square Master, Plunger Dial as per IS 6973 by Comparison Method	Up to 300 mm	8.7 µm

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127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor / Angle Protector / Combination Square Set (L.C.: 1°)	Using Angle Gauges as per IS 4239 by Comparison Method	0 ° to 360 °	35 minute
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor / Angle Protector / Combination Square Set (L.C.: 5 minute)	Using Angle Gauges as per IS 4239 by Comparison Method	Up to 360 °	4 minute
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge - for Transmission only (L.C.: 0.001 mm)	Using Electronic Dial Calibration Tester by Comparison Method	0 to 1 mm	4 µm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Slip Gauge, Caliper Checker & Long Slip Gauges as per IS 3651 by Comparison Method	0 to 1000 mm	18 µm

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131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 1 µm)	Using Foils by Comparison Method	0 to 2000 µm	36 µm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator with Stand / Electronic Probe with DRO / Comparator (L.C.: 0.0001 mm)	Using Slip Gauge & Electronic Probe by Comparison Method	Up to 25 mm	1.3 µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator with Stand / Electronic Probe with DRO / Comparator - Flatness of Base (L.C.: 0.0001 mm)	Using Slip Gauge & Electronic Probe by Comparison Method	Up to 150 mm x 150 mm	3.2 µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master / Plain Mandrill (Concentricity)	Using Slip Gauge Comparator with Stand , FCDM Comparison	Up to 100 mm	4.1 µm

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135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master / Plain Mandrill (Diameter)	Using Slip Gauge, Comparator with Stand & FCDM by Comparison Method	Up to 100 mm	2.7 µm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Slip Gauges, Long Slip Gauges & Caliper Checker as per IS 4213 by Comparison Method	0 to 600 mm	13 µm
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.001 mm)	Using Slip Gauge & Long Slip Gauges by Comparison Method	0 to 300 mm	5.3 µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Calibration Tester (L.C.: 0.0001 mm)	Using Electronic Probe with D.R.O. by Comparison Method	0 to 25 mm	1.7 µm

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139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge - Parallelism of Jaws Faces (L.C.: 0.001 mm)	Using Slip Gauge as per IS 14271 by Comparison Method	0 to 150 mm	2.8 µm
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.01 mm)	Using Slip Gauge by Comparison Method	Up to 50 mm	3.5 µm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineers Square (Parallelism)	Using Cylindrical Square Master & Plunger Dial as per IS 2103 by Comparison Method	Up to 300 mm	6.6 µm
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineers Square (Squarness)	Using Cylindrical Square Master & Plunger Dial as per IS 2103 by Comparison Method	Up to 300 mm	8.7 µm

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143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge & Long Slip Gauges as per IS 2967 by Comparison Method	100 mm to 300 mm	3.2 µm
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge & Long Slip Gauges as per IS 2967 by Comparison Method	Up to 100 mm	2.1 µm
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.01 mm)	Using Slip Gauge & Long Slip Gauges as per IS 2967 by Comparison Method	100 mm to 600 mm	6.8 µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.01 mm)	Using Slip Gauge & Long Slip Gauges as per IS 2967 by Comparison Method	Up to 100 mm	4.2 µm

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147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge Set / Thickness Foils	Using Comparator Stand with Probe as per IS 3179	0.001 mm to 2 mm	3.7 µm
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Digital (L.C.: 0.0001 mm)	Using Slip Gauge, Caliper Checker & Long Slip Gauges as per IS 2921 by Comparison Method	Up to 600 mm	9 µm
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Slip Gauge, Caliper Checker & Long Slip Gauges as per IS 2921 by Comparison Method	0 to 1000 mm	18 µm
150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Dial Caliper (L.C.: 0.01 mm)	Using Slip Gauge & Slip Gauge Accessory by Comparison Method	2 mm to 200 mm	6.4 µm

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151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer - Basic Travel of Micrometer (L.C.: 0.01 mm)	Using Slip Gauge & Long Slip Gauges as per IS 2966 by Comparison Method	50 mm to 63 mm	5.8 µm
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Measuring Machine (L.C.: 0.1 µm)	Using Slip Gauge by Comparison Method	Up to 100 mm	1 µm
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C.: 0.001 mm)	Using Electronic Dial Calibration Tester & ULM as per IS 11498 by Comparison Method	0 to 0.14 mm	2.2 µm
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C.: 0.002 mm)	Using Electronic Dial Calibration Tester & ULM as per IS 11498 by Comparison Method	0 to 0.2 mm	2.2 µm

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155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C.: 0.01 mm)	Using Electronic Dial Calibration Tester & ULM as per IS 11498 by Comparison Method	0 to 0.8 mm	3.1 µm
156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Linear Height Measuring Instrument (L.C.: 0.0001 mm)	Using Long Slip Gauge	Up mm to 600 mm	8.8 µm
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using Slip Gauge & Comparator with Stand as per IS 11103 by Comparison Method	0.1 mm to 20 mm	1.6 µm
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C.: 1 mm)	Using Scale & Tape Calibrator by Comparison Method	Up to 1 meter	137 µm

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159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape	Using Scale & Tape Calibrator by Comparison Method	Up to 50 meter	137 x sqrt (L) µm, 'L' in meter
160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Stick / Length Bar	Using Slip Gauge, Long Slip Gauge & Comparator with Stand by Comparison Method	100 mm to 300 mm	3.7 µm
161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Stick / Length Bar	Using Slip Gauge, Long Slip Gauge & Comparator with Stand by Comparison Method	300 mm to 600 mm	5 µm
162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Stick / Length Bar	Using Slip Gauge, Long Slip Gauge & Comparator with Stand by Comparison Method	Up to 100 mm	2.3 µm

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163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / OD Master / Height / Width Gauge / Flush Pin Gauge	Using Slip Gauge & Comparator with Stand as per IS 3455 by Comparison Method	1 mm to 100 mm	2.6 µm
164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / OD Master / Height / Width Gauge / Flush Pin Gauge	Using Slip Gauge & Comparator with Stand as per IS 3455 by Comparison Method	100 mm to 300 mm	3.7 µm
165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using ULM as per IS 3455 by Comparison Method	3 mm to 300 mm	3.5 µm
166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge / Comparator Dial (L.C.: 0.001 mm)	Using Electronic Dial Calibration Tester as per IS 2092 by Comparison Method	0 to 1 mm	1.3 µm

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167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge / Comparator Dial (L.C.: 0.001 mm)	Using Electronic Dial Calibration Tester as per IS 2092 by Comparison Method	0 to 50 mm	2.53 µm
168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector / VDO Measuring - Angular (L.C.: 0.0001°)	Using Angle Gauge by Comparison Method	0 º to 360 º	3.5 minute
169	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector / VDO Measuring - Linear (L.C.: 0.001 mm)	Using Glass Scale by Comparison Method	0 to 300 mm	18.8 µm
170	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector / VDO Measuring - Magnification	Using Glass Scale & Digital Vernier by Comparison Method	10X to 100X	0.3 %

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171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge / Templet	Using Vision Measuring Machine by Comparison Method	Up to 100 mm	76 µm
172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Scale / Tape Calibrator (L.C.: 0.0001 mm)	Using Slip Gauge & Long Slip Gauge by Comparison Method	Up to 1000 mm	43 µm
173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Gap Gauge	Using Slip Gauge as per IS 3455 by Comparison Method	0.5 mm to 100 mm	1.4 µm
174	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Gap Gauge	Using Slip Gauge as per IS 3455 by Comparison Method	100 mm to 200 mm	2.3 µm

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175	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Gap Gauge	Using Slip Gauge as per IS 3455 by Comparison Method	200 mm to 300 mm	6.2 µm
176	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic Level by Comparison	Up to 4000 mm x 4000 mm	2.12 x sqrt (L+W)/ 100µm
177	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge (Diameter at end)	Using ULM by Comparison Method	Up to 100 mm	5.6 µm
178	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge (for Angle)	Using ULM by Comparison Method	Up to 100 mm	27 second of arc

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179	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring Gauge (for Angle)	Using ULM by Comparison Method	Up to 100 mm	37 second of arc
180	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring Gauge (for Diameter at end)	Using ULM by Comparison Method	Up mm to 100 mm	5.6 µm
181	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale	Using Vision Measuring Machine by Comparison Method	0 to 100 mm	9.5 µm
182	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective Diameter)	Using FCDM / ULM by Comparison Method	2 mm to 100 mm	6.1 µm

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183	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Effective Diameter at Gauge Plane)	Using ULM by Comparison Method	3 mm to 300 mm	5.25 µm
184	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Vision Measuring Machine by Comparison Method	0 to 100 mm	76 µm
185	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire	Using ULM as per IS 6311 by Comparison Method	0.17 mm to 6.35 mm	1.6 µm
186	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Flank Angle)	Using Vision Measuring Machine by Comparison Method	55º & 60º	4.8 minute

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187	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Pitch Size)	Using Vision Measuring Machine by Comparison Method	0.3 mm to 8 mm	9 µm
188	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major & Effective Diameter)	Using FCDM / ULM as per IS 4218 by Comparison Method	100 mm to 300 mm	4.9 µm
189	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major & Effective Diameter)	Using FCDM / ULM as per IS 4218 by Comparison Method	2 mm to 100 mm	4.3 µm
190	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Diameter)	Using ULM as per IS 2334 by Comparison Method	3 mm to 300 mm	3.7 µm

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191	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Parallelism & Squarness)	Using Cylindrical square Master & Plunger Dial as per IS 2949 by Comparison Method	Up to 300 mm	5.3 µm
192	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Symmetricity)	Using Cylindrical Square Master, Plunger Dial as per IS 2949 by Comparison Method	Up to 300 mm	8.6 µm
193	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Extensometer - Electronic /Mechanical , 100 mm Gauge length L.C. 0.001 mm& Coarser	Using Extensometer Calibrator as per IS 12872, ISO 9513	0 to 25 mm	2.3µm
194	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block	Using Gauge Block Comparator & Reference ''K'' Grade Gauge Block Set	>25 mm to 50 mm	0.14µm
195	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block	Using Gauge Block Comparator & Reference ''K'' Grade Gauge Block Set	0.5 mm to 25 mm	0.11µm

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196	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block	Using Gauge Block Comparator & Reference ''K'' Grade Gauge Block Set	50 mm to 75 mm	0.17µm
197	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block	Using Gauge Block Comparator & Reference ''K'' Grade Gauge Block Set	75 mm to 100 mm	0.21µm
198	MECHANICAL-DUROMETER	Shore A Hardness Tester	Using Electronic Probe with DCT, Depth of Indenter as per ISO 18898	0 Shore A to 100 Shore A	0.9 Shore A
199	MECHANICAL-DUROMETER	Shore D Hardness Tester	Using Electronic Probe with DCT, Depth of Indenter as per ISO 18898	0 Shore D to 100 Shore D	0.9 Shore D
200	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Meter, Force Gauge - Class 2 & Coarser (Compression & Tension Mode)	Using Force Calibration Fixture with Newton Weights & Different Loading Hangers	3 N to 30 N	0.86 %
201	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Meter, Force Gauge - Class 2 & Coarser (Compression & Tension Mode)	Using Force Calibration Fixture with Newton Weights & Different Loading Hangers	30 N to 1000 N	0.32 %

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202	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Dial Pressure Gauge / Indicator / Transmitter / Pressure Switch	Using Digital Pressure Indicator as per DKD-R 6-1 by Comparison Method	0 bar to 1000 bar	3.15 bar
203	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Dial Pressure Gauge / Indicator / Transmitter / Pressure Switch (Hydraulic Pressure)	Using Digital Pressure Indicator & Hydraulic Pressure Comparator as per DKD-R 6-1 by Comparison Method	0 bar to 200 bar	0.12 bar
204	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Dial Pressure Gauge / Indicator / Transmitter / Pressure Switch (Hydraulic Pressure)	Using Digital Pressure Indicator & Hydraulic Pressure Comparator as per DKD-R 6-1 by Comparison Method	0 bar to 700 bar	2.9 bar
205	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Dial Pressure Gauge / Indicator / Transmitter / Pressure Switch (Pneumatic Pressure)	Using Digital Pressure Indicator & Pneumatic Pressure Comparator as per DKD-R 6-1 by Comparison Method	0 bar to 2 bar	0.002 bar

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206	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Dial Pressure Gauge / Indicator / Transmitter / Pressure Switch (Pneumatic Pressure)	Using Digital Pressure Indicator & Pneumatic Pressure Comparator as per DKD-R 6-1 by Comparison Method	0 bar to 40 bar	0.12 bar
207	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Dial Vacuum Gauge / Indicator / Transmitter (Pneumatic Pressure)	Using Digital Vacuum Gauge & Pneumatic Vacuum Pressure Comparator as per DKD-R 6-2 by Comparison Method	(-) 0.88 bar to 0 bar	0.006 bar
208	MECHANICAL-PRESSURE INDICATING DEVICES	Digital Pressure Indicator / Magnehelic Gauge (Pneumatic Pressure)	Using Digital Pressure Indicator & Pneumatic Low Pressure Comparator as per DKD-R 6-1 by Comparison Method	0 mbar to 50 mbar	0.08 mbar
209	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench: Type I (Class A, B, C, D, E) & Type II (Class A, B, C, D, E, F, G)	Using Torque Wrench Tester as per ISO 6789: 2003	0.1 Nm to 10 Nm	2.35 %
210	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench: Type I (Class A, B, C, D, E) & Type II (Class A, B, C, D, E, F, G)	Using Torque Wrench Tester as per ISO 6789: 2003	10 Nm to 50 Nm	1.17 %

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211	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench: Type I (Class A, B, C, D, E) & Type II (Class A, B, C, D, E, F, G)	Using Torque Wrench Tester as per ISO 6789: 2003	200 Nm to 1000 Nm	1.38 %
212	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench: Type I (Class A, B, C, D, E) & Type II (Class A, B, C, D, E, F, G)	Using Torque Wrench Tester as per ISO 6789: 2003	50 Nm to 200 Nm	0.35 %
213	MECHANICAL-VOLUME	Glassware (Volumetric Flask, Burette, Conical Flask, Glass Pipette, Measuring Cylinder)	Using Weighing Balance (readability: 0.01 mg) & Distilled Water by Gravimetric Method as per ISO 4787	1 ml to 50 ml	0.017 ml
214	MECHANICAL-VOLUME	Glassware (Volumetric Flask, Burette, Conical Flask, Glass Pipette, Measuring Cylinder)	Using Weighing Balance (readability: 0.01 mg) & Distilled Water by Gravimetric Method as per ISO 4787	100 ml to 5000 ml	2.8 ml
215	MECHANICAL-VOLUME	Glassware (Volumetric Flask, Burette, Conical Flask, Glass Pipette, Measuring Cylinder)	Using Weighing Balance (readability: 0.01 mg) & Distilled Water by Gravimetric Method as per ISO 4787	50 ml to 100 ml	0.11 ml

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216	MECHANICAL-VOLUME	Micropipette	Using Weighing Balance (readability: 0.01 mg) & Distilled Water by Gravimetric Method as per ISO 8655-6	10 µl to 100 µl	0.6 µl
217	MECHANICAL-VOLUME	Micropipette	Using Weighing Balance (readability: 0.01 mg) & Distilled Water by Gravimetric Method as per ISO 8655-6	100 µl to 1000 µl	3.52 µl
218	MECHANICAL-WEIGHTS	Weight (F1 Accuracy Class & Coarser)	Using E2 Accuracy Class Standard Weight & Balance (readability: 0.01 mg) as per OIML R 111-1	1 g	0.04 mg
219	MECHANICAL-WEIGHTS	Weight (F1 Accuracy Class & Coarser)	Using E2 Accuracy Class Standard Weight & Balance (readability: 0.01 mg)	10 g	0.04 mg
220	MECHANICAL-WEIGHTS	Weight (F1 Accuracy Class & Coarser)	Using E2 Accuracy Class Standard Weight & Balance (readability: 0.1 mg) as per OIML R 111-1	100 g	0.2 mg

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221	MECHANICAL-WEIGHTS	Weight (F1 Accuracy Class & Coarser)	Using E2 Accuracy Class Standard Weight & Balance (readability: 0.01 mg) as per OIML R 111-1	2 g	0.04 mg
222	MECHANICAL-WEIGHTS	Weight (F1 Accuracy Class & Coarser)	Using E2 Accuracy Class Standard Weight & Balance (readability: 0.01 mg) as per OIML R 111-1	20 g	0.04 mg
223	MECHANICAL-WEIGHTS	Weight (F1 Accuracy Class & Coarser)	Using E2 Accuracy Class Standard Weight & Balance (readability: 0.1 mg)	200 g	0.2 mg
224	MECHANICAL-WEIGHTS	Weight (F1 Accuracy Class & Coarser)	Using E2 Accuracy Class Standard Weight & Balance (readability: 0.01 mg) as per OIML R 111-1	5 g	0.04 mg
225	MECHANICAL-WEIGHTS	Weight (F1 Accuracy Class & Coarser)	Using E2 Accuracy Class Standard Weight & Balance (readability: 0.01 mg) as per OIML R 111-1	50 g	0.06 mg

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226	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class & Coarser)	Using E2 Accuracy Class Standard Weight & Balance (readability: 0.01 mg) as per OIML R 111-1	1 mg	0.04 mg
227	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class & Coarser)	Using E2 Accuracy Class Standard Weight & Balance (readability: 0.01 mg) as per OIML R 111-1	10 mg	0.04 mg
228	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class & Coarser)	Using E2 Accuracy Class Standard Weight & Balance (readability: 0.01 mg) as per OIML R 111-1	100 mg	0.04 mg
229	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class & Coarser)	Using F1 Accuracy Class Standard Weight & Balance (readability: 0.01 g) as per OIML R 111-1	2 kg	20 mg
230	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class & Coarser)	Using E2 Accuracy Class Standard Weight & Balance (readability: 0.01 mg) as per OIML R 111-1	2 mg	0.04 mg

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231	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class & Coarser)	Using E2 Accuracy Class Standard Weight & Balance (readability: 0.01 mg) as per OIML R 111-1	20 mg	0.04 mg
232	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class & Coarser)	Using E2 Accuracy Class Standard Weight & Balance (readability: 0.01 mg) as per OIML R 111-1	200 mg	0.04 mg
233	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class & Coarser)	Using F1 Accuracy Class Standard Weight & Balance (readability: 0.01 g) as per OIML R 111-1	5 kg	20 mg
234	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class & Coarser)	Using E2 Accuracy Class Standard Weight & Balance (readability: 0.01 mg)	5 mg	0.04 mg
235	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class & Coarser)	Using E2 Accuracy Class Standard Weight & Balance (readability: 0.01 mg) as per OIML R 111-1	50 mg	0.05 mg

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236	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class & Coarser)	Using E2 Accuracy Class Standard Weight & Balance (readability: 0.01 mg)	500 mg	0.04 mg
237	MECHANICAL-WEIGHTS	Weight (M1 Accuracy Class & Coarser)	Using F1 Class Standard Weight & Balance (readability: 0.01 g) as per OIML R 111-1	1 kg	20 mg
238	MECHANICAL-WEIGHTS	Weight (M1 Accuracy Class & Coarser)	Using F1 Accuracy Class Standard Weight & Balance (readability: 0.1 g) as per OIML R 111-1	10 kg	200 mg
239	MECHANICAL-WEIGHTS	Weight (M1 Accuracy Class & Coarser)	Using F1 Accuracy Class Standard Weight & Balance (readability: 0.1 g) as per OIML R 111-1	20 kg	200 mg
240	MECHANICAL-WEIGHTS	Weight (M1 Accuracy Class & Coarser)	Using F1 Class Standard Weight & Balance (readability: 0.01 g) as per OIML R 111-1	500 g	20 mg

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241	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Calibrator, Humidity Generator, Humidity Chamber (Single Point)	Using RH Sensor with Indicator by Comparison Method	10 ºC to 50 ºC @ 50 %RH	0.75 ºC
242	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Calibrator, Humidity Generator, Humidity Chamber (Single Point)	Using RH Sensor with Indicator by Comparison Method	20 %RH to 95 %RH @ 25 ºC	1.3 %RH
243	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo Hygrometer, RH Sensor with Indicator	Using RH Sensor with Indicator by Comparison Method	10 ºC to 50 ºC @ 50 %RH	0.95 ºC
244	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo Hygrometer, RH Sensor with Indicator	Using RH Sensor with Indicator by Comparison Method	20 %RH to 95 %RH @ 25 ºC	1.3 %RH
245	THERMAL-TEMPERATURE	Dry Block Furnace (Single Point)	Using S Type Thermocouple with 6½ DMM by Comparison Method	1000 ºC to 1100 ºC	3.3 ºC
246	THERMAL-TEMPERATURE	Glass, Dial Thermometer	Using RTD-4 Wire with 6½ DMM & Oil Bath by Comparison Method	(-) 30 ºC to 160 ºC	0.8 ºC
247	THERMAL-TEMPERATURE	Oven, Dry Block Furnace (Single Point)	Using S Type Thermocouple with 6½ DMM by Comparison Method	400 ºC to 1000 ºC	1.9 ºC

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248	THERMAL-TEMPERATURE	RTD, PRT, Thermocouple, Transmitter with or without Indicator	Using RTD-4 Wire with 6½ DMM & Oil Bath by Comparison Method	(-) 35 ºC to 160 ºC	0.3 ºC
249	THERMAL-TEMPERATURE	RTD, PRT, Thermocouple, Transmitter with or without Indicator	Using S Type Thermocouple with 6½ DMM & Dry Block by Comparison Method	1000 ºC to 1100 ºC	3.3 ºC
250	THERMAL-TEMPERATURE	RTD, PRT, Thermocouple, Transmitter with or without Indicator	Using RTD-4 Wire with 6½ DMM & Dry Block by Comparison Method	160 ºC to 400 ºC	0.35 ºC
251	THERMAL-TEMPERATURE	RTD, PRT, Thermocouple, Transmitter with or without Indicator	Using S Type Thermocouple with 6½ DMM & Dry Block by Comparison Method	400 ºC to 1000 ºC	2.75 ºC
252	THERMAL-TEMPERATURE	Temperature Freezer, Oven, Furnace, Incubator, Environmental Chamber, BOD Incubator, Liquid Bath, Dry Block (Single Point)	Using RTD-4 Wire with 6½ DMM by Comparison Method	(-) 35 ºC to 400 ºC	0.25 ºC

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 8½ Reference DMM & Standard CT with 6½ DMM by Direct/Comparison Method	20 A to 3200 A	0.62 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 5 kHz	Using 8½ Reference DMM & Standard CT with 6½ DMM by Direct/Comparison Method	200 mA to 20 A	0.07 % to 0.14 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 5 kHz	Using 8½ Reference DMM by Direct/Comparison Method	30 µA to 200 mA	0.32 % to 0.07 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Divider with kV Meter by Direct/ Comparison Method	1 kV to 100 kV	2.6 % to 2.4 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using Standard PT with Digital Multimeter by Direct/ Comparison Method	1 kV to 33 kV	0.6 % to 0.22 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 100 kHz	Using 8½ Reference DMM by Direct/ Comparison Method	2 mV to 200 mV	1.62 % to 0.11 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 100 kHz	Using 8½ Reference DMM by Direct/ Comparison Method	200 mV to 200 V	0.11 % to 0.091 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 10 kHz	Using 8½ Reference DMM by Direct/ Comparison Method	1 mV to 1000 V	0.975 % to 0.039 %

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9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using LCR Meter by Direct Method	10 nF to 1 mF	0.18 % to 1.58 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 1 KHz	Using LCR Meter by Direct Method	10 µH to 10 H	1.3%
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Multi-Product Calibrator by Direct Method	10 A to 20 A	0.19 % to 0.37 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Multi-Product Calibrator by Direct Method	300 mA to 10 A	0.12 % to 0.19 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi-Product Calibrator with 50 Turn Current Coil by Direct Method	20 A to 1000 A	2.35 % to 0.36 %

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14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multi-Product Calibrator by Direct Method	30 µA to 300 mA	0.63 % to 0.12 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power (30 V to 300 V / 0.01 A to 20 A) @ 50 Hz	Using Multi-Product Calibrator by Direct Method	0.5 PF to 0.01 PF	0.46 % to 1.2 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 45 Hz	Using Multi-Product Calibrator by Direct Method	3 mV to 30 V	0.737 % to 0.043 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 kHz to 100 kHz	Using Multi-Product Calibrator by Direct Method	30 mV to 200 V	0.464 % to 0.274 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multi-Product Calibrator by Direct Method	3 mV to 1000 V	0.742 % to 0.054 %

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19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi-Product Calibrator by Direct Method	1 nF to 1 mF	2.64 % to 1.82 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitor by Direct Method	10 nF to 10 µF	1.29 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductors by Direct Method	100 µH to 10 H	1.63 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Reference DMM with Standard Shunt by Direct/ Comparison Method	1 µA to 20 A	0.067 % to 0.051 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Reference DMM with Standard Shunt by Direct/ Comparison Method	20 A to 1000 A	1 %

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24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Divider with kV Meter by Direct/ Comparison Method	1 kV to 100 kV	2.5 % to 2.1 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 8½ Reference DMM by Direct/ Comparison Method	1 MOhm to 20 GOhm	0.006 % to 0.196 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 8½ Reference DMM by Direct/ Comparison Method	1 Ohm to 1 MOhm	0.006 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 8½ Reference DMM by Direct/ Comparison Method	10 mOhm to 1 Ohm	0.093 % to 0.006 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Reference DMM by Direct/ Comparison Method	0.1 mV to 100 mV	0.141 % to 0.001 %

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29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Reference DMM by Direct/ Comparison Method	10 V to 1000 V	0.0008 % to 0.001 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Reference DMM by Direct/ Comparison Method	100 mV to 10 V	0.001 % to 0.0008 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	1 A to 20 A	0.037 % to 0.13 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	10 µA to 100 mA	0.25 % to 0.025 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator by Direct Method	100 mA to 1 A	0.025 % to 0.037 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Product Calibrator with 50 Turn Current Coil by Direct Method	20 A to 1000 A	0.86 % to 0.29 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi-Product Calibrator by Direct Method	0.1 mV to 300 mV	1.17 % to 0.004 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi-Product Calibrator by Direct Method	300 mV to 1000 V	0.004 % to 0.0025 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Insulation Resistance	Using Standard Resistor Discreet by Direct Method	10 M Ohm to 500 G Ohm	4.63 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi-Product Calibrator by Direct Method	100 kOhm to 1 GOhm	0.007 % to 1.79 %

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39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi-Product Calibrator by Direct Method	100 mOhm to 100 kOhm	1.31 % to 0.007 %
40	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Active Energy / Power (UPF) @ 50 Hz	Using Multifunction Calibrator System with Master Energy Meter by Comparison Method	1 mA to 5A / 30 V to 300	0.24 %
41	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT Burden	Using AITTS-98 by Direct Method	1.25 VA to 75 VA	1.72 %
42	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT Ratio Error & Phase Error 1-5 A	Using Standard CT & AITTS-98 by Comparison Method	1 A to 3200 A	RE: 0.018 % & PE: 1.8 minute
43	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT Ratio Error & Phase Error 1-5 A	Using Standard CT & AITTS-98 by Comparison Method	3200 A to 6000 A	RE: 0.027 % & PE: 2.43 minute

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44	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-PT Test Set (CT Mode)	Using AITTS-98 by Comparison method	1 A to 5 A	RE: 0.008 % to 0.011 % & PE: 0.5 minute
45	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-PT Test Set (PT Mode)	Using AITTS-98 by Comparison method	(110 to 100) V / sqrt 3	RE: 0.008 % to 0.011 % & PE: 0.5 minute
46	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	PT Burden	Using AITTS-98 by Direct Method	1.25 VA to 200 VA	1.24 %
47	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	PT Ratio Error & Phase Error @ 50 Hz	Using Standard CT & AITTS-98 by Comparison Method	6.6 / 11 kV to 22 / 33 kV	RE: 0.084 % & PE: 2.43 minute
48	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Transformer Turn Ratio Meter Calibrator	Using Multifunction Calibrator & DMM by Comparison method	1 Turn to 2200 Turn	0.05 %

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49	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Power @ 50 Hz	Using Multi-Product Calibrator by Direct Method	30 V to 300 V & 0.01 A to 0.5 (Lead & Lag) to UPF	0.28 % to 0.46 %
50	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Time Marker	Using Multi-Product Calibrator by Direct Method	2 ns to 5 ns	0.82 % to 0.58 %
51	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude AC/DC (1 MOhm / 50 Ohm)	Using Multi-Product Calibrator by Direct Method	1 mV to 10 mV	5.06 % to 0.58 %
52	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude AC/DC (1 MOhm / 50 Ohm)	Using Multi-Product Calibrator by Direct Method	10 mV to 130 V	0.58 % to 0.17 %
53	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth	Using Multi-Product Calibrator by Direct Method	50 kHz to 1.1 GHz	2.6 % to 11 %

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54	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Power Factor (Lead/Lag) @ 50 Hz	Using Multi-Product Calibrator by Direct Method	0.01 PF to 1 PF	0.002 PF
55	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Transformers Turn Ratio Meter	Using Transformer Turn Ratio Meter Calibrator & Digital Multimeter by Comparison Method	1 Turn to 2200 Turn	0.08 %
56	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Frequency	Using Microwave Frequency Counter by Direct Method	1 Hz to 10 MHz	0.00008 % to 0.000002 %
57	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Frequency	Using Microwave Frequency Counter by Direct Method	10 MHz to 20 GHz	0.000002%
58	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Frequency	Using Microwave Frequency Counter by Direct Method	20 GHz to 26 GHz	0.000002%

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59	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power(100kHz to 20 GHz)	Using RF Reference Calibrator 96270A, using power sensor NRP 40T	-35 dBm to +18 dBm	0.3 dB to 0.4 dB
60	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power(20GHz to 26GHz)	Using RF Reference Calibrator 96270A, using power sensor NRP 40T	-35 dBm to +18 dBm	0.4dB
61	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Frequency	Using RF Refernece Calibrator 96270A	10 kHz to 10 MHz	0.000007 % to 0.000006 %
62	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Frequency	Using RF Refernece Calibrator 96270A	10 MHz to 4 GHz	0.000006 % to 0.000007 %

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63	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Frequency	Using RF Reference Calibrator 96270A	4 GHz to 26 GHz	0.000007 % to 0.000008 %
64	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF Power(1 GHz to 4 GHz)	Using RF Reference Calibrator 96270A	-85 dBm to +18 dBm	0.65dB
65	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF Power(10 MHz to 1 GHz)	Using RF Reference Calibrator 96270A	-124 dBm to +20 dBm	1.85 dB to 0.4 dB
66	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF Power(100 kHz to 10 MHz)	Using RF Reference Calibrator 96270A	-95 dBm to 24 dBm	0.9 dB to 0.85 dB

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67	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF Power(4GHz to 26 GHz)	Using RF Reference Calibrator 96270A	-35 dBm to +16 dBm	1.2dB
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B-Type	Using Multi-Product Calibrator by Direct Method	600 ºC to 1820 ºC	0.976 ºC
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using 8½ Reference Digital Multimeter by ITS 90 Simulation Method	600 ºC to 1820 ºC	0.055 ºC
70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	C-Type	Using Multi-Product Calibrator & 8½ Reference Digital Multimeter by Direct Method	0 ºC to 2300 ºC	0.976 ºC
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	C-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using 8½ Reference Digital Multimeter by ITS 90 Simulation Method	0 ºC to 2300 ºC	0.055 ºC

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72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E-Type	Using Multi-Product Calibrator & 8½ Reference Digital Multimeter by Direct Method	(-) 200 ºC to 1000 ºC	0.976 ºC
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using 8½ Reference Digital Multimeter by ITS 90 Simulation Method	(-) 200 ºC to 1000 ºC	0.055 ºC
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J-Type	Using Multi-Product Calibrator & 8½ Reference Digital Multimeter by Direct Method	(-) 200 ºC to 1200 ºC	0.976 ºC
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using 8½ Reference Digital Multimeter by ITS 90 Simulation Method	(-) 200 ºC to 1200 ºC	0.055 ºC
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-Type	Using Multi-Product Calibrator & 8½ Reference Digital Multimeter by Direct Method	(-) 200 ºC to 1372 ºC	0.976 ºC

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77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using 8½ Reference Digital Multimeter by ITS 90 Simulation Method	(-) 200 ºC to 1372 ºC	0.055 ºC
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	L-Type	Using Multi-Product Calibrator & 8½ Reference Digital Multimeter by Direct Method	(-) 200 ºC to 900 ºC	0.976 ºC
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	L-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using 8½ Reference Digital Multimeter by ITS 90 Simulation Method	(-) 200 ºC to 900 ºC	0.055 ºC
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-Type	Using Multi-Product Calibrator & 8½ Reference Digital Multimeter by Direct Method	(-) 200 ºC to 1300 ºC	0.976 ºC
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using 8½ Reference Digital Multimeter by ITS 90 Simulation Method	(-) 200 ºC to 1300 ºC	0.055 ºC

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82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	PRT	Using 8½ Reference Digital Multimeter by ITS 90 Simulation Method	(-) 200 ºC to 800 ºC	0.021 ºC
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type	Using Multi-Product Calibrator & 8½ Reference Digital Multimeter by Direct Method	0 ºC to 1767 ºC	0.976 ºC
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using 8½ Reference Digital Multimeter by ITS 90 Simulation Method	0 ºC to 1767 ºC	0.055 ºC
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S-Type	Using Multi-Product Calibrator & 8½ Reference Digital Multimeter by Direct Method	0 ºC to 1767 ºC	0.976 ºC
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using 8½ Reference Digital Multimeter by ITS 90 Simulation Method	0 ºC to 1767 ºC	0.055 ºC

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87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T-Type	Using Multi-Product Calibrator & 8½ Reference Digital Multimeter by Direct Method	(-) 200 ºC to 400 ºC	0.976 ºC
88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using 8½ Reference Digital Multimeter by ITS 90 Simulation Method	(-) 200 ºC to 400 ºC	0.055 ºC
89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	U-Type	Using Multi-Product Calibrator & 8½ Reference Digital Multimeter by Direct Method	(-) 200 ºC to 600 ºC	0.976 ºC
90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	U-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using 8½ Reference Digital Multimeter by ITS 90 Simulation Method	(-) 200 ºC to 600 ºC	0.055 ºC
91	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	U-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using Multi-Product Calibrator as per ITS-90	(-) 200 ºC to 600 ºC	0.17 ºC

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92	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B -Type	Using Multi-Product Calibrator by Direct Method	600 ºC to 1820 ºC	0.98 ºC
93	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using Multi-Product Calibrator as per ITS-90	600 ºC to 1820 ºC	0.17 ºC
94	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	C-Type	Using Multi-Product Calibrator by Direct Method	0 ºC to 2300 ºC	0.98 ºC
95	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	C-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using Multi-Product Calibrator as per ITS-90	0 ºC to 2300 ºC	0.17 ºC
96	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E-Type	Using Multi-Product Calibrator by Direct Method	(-) 200 ºC to 1000 ºC	0.98 ºC

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97	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using Multi-Product Calibrator as per ITS-90	(-) 200 ºC to 1000 ºC	0.17 ºC
98	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type	Using Multi-Product Calibrator by Direct Method	(-) 200 ºC to 1200 ºC	0.98 ºC
99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using Multi-Product Calibrator as per ITS-90	(-) 200 ºC to 1200 ºC	0.17 ºC
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type	Using Multi-Product Calibrator by Direct Method	(-) 200 ºC to 1372 ºC	0.98 ºC
101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using Multi-Product Calibrator as per ITS-90	(-) 200 ºC to 1372 ºC	0.17 ºC

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102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	L-Type	Using Multi-Product Calibrator by Direct Method	(-) 200 ºC to 900 ºC	0.98 ºC
103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	L-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using Multi-Product Calibrator as per ITS-90	(-) 200 ºC to 900 ºC	0.17 ºC
104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type	Using Multi-Product Calibrator by Direct Method	(-) 200 ºC to 1300 ºC	0.98 ºC
105	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using Multi-Product Calibrator by ITS-90	(-) 200 ºC to 1300 ºC	0.17 ºC
106	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	PRT	Using Multi-Product Calibrator by ITS 90	(-) 200 ºC to 800 ºC	0.07 ºC

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107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type	Using Multi-Product Calibrator by Direct Method	0 ºC to 1767 ºC	0.98 ºC
108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using Multi-Product Calibrator as per ITS-90	0 ºC to 1767 ºC	0.17 ºC
109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S-Type	Using Multi-Product Calibrator by Direct Method	0 ºC to 1767 ºC	0.98 ºC
110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using Multi-Product Calibrator as per ITS-90	0 ºC to 1767 ºC	0.17 ºC
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-Type	Using Multi-Product Calibrator by Direct Method	(-) 200 ºC to 400 ºC	0.98 ºC

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112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-Type, CJC (Instrument with selectable CJC Feature @ 0 °C)	Using Multi-Product Calibrator as per ITS-90	(-) 200 ºC to 400 ºC	0.17 ºC
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	U-Type	Using Multi-Product Calibrator by Direct Method	(-) 200 ºC to 600 ºC	0.98 ºC
114	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Frequency Counter by Direct/ Comparison Method	1 Hz to 1 GHz	0.08 % to 0.0011 %
115	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Period	Using Frequency Counter by Direct/ Comparison Method	1 µs to 1 s	0.08 % to 0.0011 %
116	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Digital Timer by Comparison Method	2 s to 24 Hour	0.007 s to 10.2 s

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117	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi-Product Calibrator by Direct Method	1 Hz to 1.1 GHz	1.17 % to 0.001 %
118	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Period	Using Multi-Product Calibrator by Direct Method	2 ns to 5 s	1.17 % to 0.001 %
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Measuring Machine (L.C.: 0.1 µm)	Using Slip Gauge by Comparison Method	Up to 100 mm	1 µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Linear Height Measuring Instrument (L.C.: 0.0001 mm)	Using Long Slip Gauge	Up mm to 600 mm	8.8 µm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector / VDO Measuring - Angular (L.C.: 0.0001°)	Using Angle Gauge by Comparison Method	0 º to 360 º	3.5 minute

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122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector / VDO Measuring - Linear (L.C.: 0.001 mm)	Using Glass Scale by Comparison Method	0 to 300 mm	18.8 µm
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector / VDO Measuring - Magnification	Using Glass Scale & Digital Vernier by Comparison Method	10X to 100X	0.3 %
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Scale / Tape Calibrator (L.C.: 0.0001 mm)	Using Slip Gauge & Long Slip Gauge by Comparison Method	Up to 1000 mm	43 µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic Level by Comparison	Up to 4000 mm x 4000 mm	2.12 x sqrt (L+W)/ 100µm

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126	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Extensometer - Electronic /Mechanical , 100 mm Gauge length L.C. 0.001 mm& Coarser	Using Extensometer Calibrator as per IS 12872, ISO 9513	0 to 25 mm	2.3µm
127	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Blocks as per IS 1500 (Part-2): 2013 by Indirect Method	10/3000 HBW	1.62%
128	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Blocks as per IS 1500 (Part-2): 2013 by Indirect Method	2.5/187.5 HBW	2.11%
129	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Blocks as per IS 1500 (Part-2): 2013 by Indirect Method	5/ 750 HBW	1.79%
130	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Blocks as per IS 1586 (Part-2): 2018 by Indirect Method	20 HRA to 95 HRA	0.95HRA

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131	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Blocks as per IS 1586 (Part-2): 2018 by Indirect Method	20 HRBW to 100 HRBW	0.99HRBW
132	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Blocks as per IS 1586 (Part-2): 2018 by Indirect Method	20 HRC to 70 HRC	0.96HRC
133	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Blocks as per IS 1501 (Part-2): 2013 by Indirect Method	10 HV	1.40%
134	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Blocks as per IS 1501 (Part-2): 2013 by Indirect Method	20 HV	1.44%
135	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Blocks as per IS 1501 (Part-2): 2013 by Indirect Method	30 HV	1.40%

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136	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Blocks as per IS 1501 (Part-2): 2013 by Indirect Method	50 HV	1.46%
137	MECHANICAL-IMPACT TESTING MACHINE	Verification of Impact Testing Machine (Charpy)	Using Load Cell , Clinometer , Height gauge ,Spirit level etc as per ISO 148 (Part 2)-2016-Direct Method & Indirect method.	up to 400 J	0.8 %for direct & for 9% for indirect
138	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Dial Pressure Gauge / Indicator / Transmitter / Pressure Switch	Using Digital Pressure Indicator as per DKD-R 6-1 by Comparison Method	0 bar to 1000 bar	3.15 bar
139	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Dial Pressure Gauge / Indicator / Transmitter / Pressure Switch (Hydraulic Pressure)	Using Digital Pressure Indicator & Hydraulic Pressure Comparator as per DKD-R 6-1 by Comparison Method	0 bar to 200 bar	0.12 bar
140	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Dial Pressure Gauge / Indicator / Transmitter / Pressure Switch (Hydraulic Pressure)	Using Digital Pressure Indicator & Hydraulic Pressure Comparator as per DKD-R 6-1 by Comparison Method	0 bar to 700 bar	2.9 bar

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141	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Dial Pressure Gauge / Indicator / Transmitter / Pressure Switch (Pneumatic Pressure)	Using Digital Pressure Indicator & Pneumatic Pressure Comparator as per DKD-R 6-1 by Comparison Method	0 bar to 2 bar	0.002 bar
142	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Dial Pressure Gauge / Indicator / Transmitter / Pressure Switch (Pneumatic Pressure)	Using Digital Pressure Indicator & Pneumatic Pressure Comparator as per DKD-R 6-1 by Comparison Method	0 bar to 40 bar	0.12 bar
143	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Dial Vacuum Gauge / Indicator / Transmitter (Pneumatic Pressure)	Using Digital Vacuum Gauge & Pneumatic Vacuum Pressure Comparator as per DKD-R 6-2 by Comparison Method	(-) 0.88 bar to 0 bar	0.006 bar
144	MECHANICAL-PRESSURE INDICATING DEVICES	Digital Pressure Indicator / Magnehelic Gauge (Pneumatic Pressure)	Using Digital Pressure Indicator & Pneumatic Low Pressure Comparator as per DKD-R 6-1 by Comparison Method	0 mbar to 50 mbar	0.08 mbar

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145	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Test Force Verification of Brinell Hardness Tester	Using Load Cell as per IS 1500 (Part 2)-2013.	31.25 kgf to 3000 kgf	0.55%
146	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Test Force Verification of Rockwell Hardness Tester	Using Load Cell as per IS 1586 (Part 2)	3 kgf to 150 kgf	0.55%
147	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Test Force Verification of Vickers Hardness Tester	Using Load Cell as per IS 1501 (Part 2)-2013.	1 kgf to 50 kgf	0.5%
148	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Displacement measuring system of UTM	Using Digital Height Gauge , as per ASTM E2658.	0 to 600 mm	0.06mm

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149	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of speed of Material Testing Machines	Using Digital Height Gauge , Stop Watch as per ASTM E2658.	up to 600 mm/min	1.7%
150	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Static Uniaxial Testing Machines (Universal,Compression , Load , Tensile Testing Machines,Spring Testing Machines,Force Measuring system) Tension Mode	Using Class 0.5 / 1 Force Proving Instruments / Load Cells as per IS1828 (Part-1), ISO 7500	5 kN to 50 kN	0. 5%
151	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Static Uniaxial Testing Machines (Universal,Compression , Load , Tensile Testing Machines,Spring Testing Machines,Force Measuring system) Compression Mode	Using Class 0.5 / 1 Force Proving Instruments / Load Cells as per IS1828 (Part-1), ISO 7500:	0.5 kN to 1000 kN	0. 5%

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152	MECHANICAL-WEIGHING SCALE AND BALANCE	Non Automatic Electronic Weighing Balance - Class I & coarser (readability: 0.01 mg)	Using E2 Accuracy Class Weights	0 to 100 g	0.07 mg
153	MECHANICAL-WEIGHING SCALE AND BALANCE	Non Automatic Electronic Weighing Balance - Class I & coarser (readability: 0.1 mg)	Using E2 Accuracy Class Weights	0 to 200 g	0.11 mg
154	MECHANICAL-WEIGHING SCALE AND BALANCE	Non Automatic Electronic Weighing Balance - Class II & coarser (readability: 0.01 g)	Using E2 & F1 Accuracy Class Weights	0 to 6 kg	20 mg
155	MECHANICAL-WEIGHING SCALE AND BALANCE	Non Automatic Electronic Weighing Balance - Class II & coarser (readability: 0.1 g)	Using E2 & F1 Accuracy Class Weights	0 to 20 kg	100 mg
156	MECHANICAL-WEIGHING SCALE AND BALANCE	Non Automatic Electronic Weighing Balance - Class II & coarser (readability: 1 g)	Using E2 & F1 Accuracy Class Weights	0 to 30 kg	1 g

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157	MECHANICAL-WEIGHING SCALE AND BALANCE	Non Automatic Electronic Weighing Balance - Class II & coarser (readability: 5 g)	Using E2 & F1 Accuracy Class Weights	0 to 50 kg	5 g
158	MECHANICAL-WEIGHING SCALE AND BALANCE	Non Automatic Electronic Weighing Balance - Class III & coarser (readability: 20 g)	Using F1 & F2 Accuracy Class Weights	0 to 200 kg	28 g
159	MECHANICAL-WEIGHING SCALE AND BALANCE	Non Automatic Electronic Weighing Balance - Class III & coarser (readability: 50 g)	Using M1 Accuracy Class Weights	0 to 500 kg	35 g
160	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Calibrator, Humidity Generator, Humidity Chamber (Single Point)	Using RH Sensor with Indicator by Comparison Method	10 ºC to 50 ºC @ 50 %RH	0.75 ºC
161	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Calibrator, Humidity Generator, Humidity Chamber (Single Point)	Using RH Sensor with Indicator by Comparison Method	20 %RH to 95 %RH @ 25 ºC	1.3 %RH
162	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber (Multi Point Calibration)	Using Humidity Data Loggers by Comparison Method	15 %RH to 95 %RH @ 25 °C	2.1 %RH

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163	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber (Multi Points Mapping)	Using Humidity Data Loggers by Comparison Method	10 ºC to 50 ºC	0.8 ºC
164	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo Hygrometer, RH Sensor with Indicator	Using RH Sensor with Indicator by Comparison Method	10 ºC to 50 ºC @ 50 %RH	0.95 ºC
165	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo Hygrometer, RH Sensor with Indicator	Using RH Sensor with Indicator by Comparison Method	20 %RH to 95 %RH @ 25 ºC	1.3 %RH
166	THERMAL-TEMPERATURE	Dry Block Furnace (Single Point)	Using S Type Thermocouple with 6½ DMM by Comparison Method	1000 ºC to 1100 ºC	3.3 ºC
167	THERMAL-TEMPERATURE	Freezer, Oven, Furnace, Incubator, Environmental Chamber, BOD Incubator, Liquid Bath, Dry Block (Single Point)	Using RTD-4 Wire with 6½ DMM by Comparison Method	(-) 75 ºC to 400 ºC	0.3 ºC
168	THERMAL-TEMPERATURE	Freezer, Oven, Incubator, Environmental Chamber, BOD Incubator, Liquid Bath (Multi Points Mapping)	Using RTD (PT-100) with Digital Data Logger by Comparison Method	(-) 75 ºC to 400 ºC	0.7 ºC

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Laboratory Name :	PRAJYO INSTRUMENT PVT. LTD., 18, 19, 20A, 24, RACHANA INDUSTRIAL COMPLEX, PLOT NO. 71/1B/14, TELCO ROAD, MIDC, BHOSARI, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
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*The validity is extended for one year up to 23.12.2022

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)(±)
169	THERMAL-TEMPERATURE	Furnace, Liquid Bath (Multi Points Mapping)	Using K-Type Thermocouple with Digital Data Logger by Comparison Method	400 ºC to 1100 ºC	3.6 ºC
170	THERMAL-TEMPERATURE	Glass, Dial Thermometer	Using RTD-4 Wire with 6½ DMM & Oil Bath by Comparison Method	(-) 30 ºC to 160 ºC	0.8 ºC
171	THERMAL-TEMPERATURE	Oven, Dry Block Furnace (Single Point)	Using S Type Thermocouple with 6½ DMM by Comparison Method	400 ºC to 1000 ºC	1.9 ºC
172	THERMAL-TEMPERATURE	RTD, PRT, Thermocouple, Transmitter with or without Indicator	Using RTD-4 Wire with 6½ DMM & Oil Bath by Comparison Method	(-) 35 ºC to 160 ºC	0.3 ºC
173	THERMAL-TEMPERATURE	RTD, PRT, Thermocouple, Transmitter with or without Indicator	Using S Type Thermocouple with 6½ DMM & Dry Block by Comparison Method	1000 ºC to 1100 ºC	3.3 ºC
174	THERMAL-TEMPERATURE	RTD, PRT, Thermocouple, Transmitter with or without Indicator	Using RTD-4 Wire with 6½ DMM & Dry Block by Comparison Method	160 ºC to 400 ºC	0.35 ºC

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175	THERMAL-TEMPERATURE	RTD, PRT, Thermocouple, Transmitter with or without Indicator	Using S Type Thermocouple with 6½ DMM & Dry Block by Comparison Method	400 ºC to 1000 ºC	2.75 ºC
176	THERMAL-TEMPERATURE	Temperature Freezer, Oven, Furnace, Incubator, Environmental Chamber, BOD Incubator, Liquid Bath, Dry Block (Single Point)	Using RTD-4 Wire with 6½ DMM by Comparison Method	(-) 35 ºC to 400 ºC	0.25 ºC

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