



National Accreditation Board for  
Testing and Calibration Laboratories

**CERTIFICATE OF ACCREDITATION**

**JAYASREE REVA PHOENIX METROLOGY PRIVATE  
LIMITED**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2017**

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

for its facilities at

REVA COMPLEX, NO.14, 4TH STREET, RAJARAJESWARI NAGAR, MADIPPAKKAM, CHENNAI, TAMIL  
NADU, INDIA

in the field of

**CALIBRATION**

Certificate Number: CC-2428

Issue Date: 30/10/2022

Valid Until:

29/10/2024

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued  
satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

Name of Legal Identity : JAYASREE REVA PHOENIX METROLOGY PRIVATE LIMITED

Signed for and on behalf of NABL



N. Venkateswaran  
Chief Executive Officer



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** JAYASREE REVA PHOENIX METROLOGY PRIVATE LIMITED, REVA COMPLEX, NO.14, 4TH STREET, RAJARAJESWARI NAGAR, MADIPPAKKAM, CHENNAI, TAMIL NADU, INDIA

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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 (@1 kHz to 5 kHz)	Using 8 ½ Digital Multimeter by Direct Method	1 A to 20 A	0.11 % to 0.3 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (@1 kHz to 5 kHz)	Using 8 ½ Digital Multimeter by Direct Method	1 mA to 1 A	0.058 % to 0.11 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (@45 Hz to 1 kHz)	Using 8 ½ Digital Multimeter by Direct Method	1 A to 20 A	0.094 % to 0.11 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (@45 Hz to 1 kHz)	Using 8 ½ Digital Multimeter by Direct Method	1 mA to 1 A	0.057 % to 0.094 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (@45 Hz to 1 kHz)	Using 8 ½ Digital Multimeter by Direct Method	100 µA to 1 mA	0.079 % to 0.057 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (@45 Hz to 1 kHz)	Using 8 ½ Digital Multimeter by Direct Method	30 µA to 100 µA	0.134 % to 0.079 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (@50 Hz)	Using 6½ Digital Multimeter with shunt by V/I Method	150 A to 1000 A	1.18%
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (@50 Hz)	Using 6½ Digital Multimeter with shunt by V/I Method	20 A to 150 A	1.19%
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage	Using High Voltage Probe with Digital Multimeter by Direct Method	1 kV to 28 kV	6 % to 2.8 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance @1 kHz (Source with LCR Meter)	Using LCR Meter by Direct Method / Comparison Method	10 mohm to 100 ohm	0.25 % to 0.25 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (@10kHz to 20 kHz)	Using 8½ Digital Multimeter by Direct Method	100 mV to 1000 V	0.045 % to 0.03 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (@20 kHz to 100 kHz)	Using 8½ Digital Multimeter by Direct Method	100 mV to 100 V	0.105 % to 0.03 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (@45 Hz to 10 kHz)	Using 8½ Digital Multimeter by Direct Method	100 mV to 1000 V	0.02%
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (@45Hz to 10 kHz)	Using 8½ Digital Multimeter by Direct Method	1 mV to 100 mV	0.48 % to 0.02 %



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (@1 kHz) (Source with LCR meter)	Using LCR Meter by Direct Method/ Comparison Method	10 pF to 100 pF	0.35%
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @1 kHz (Source with LCR meter)	Using LCR Meter by Direct Method/Comparison Method	1 μF to 10 μF	0.23%
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @1 kHz (Source with LCR meter)	Using LCR Meter by Direct Method/ Comparison Method	10 nF to 1 μF	0.23%
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @1 kHz (Source with LCR meter)	Using LCR Meter by Direct Method/Comparison Method	100 pF to 10 nF	0.35 % to 0.23 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @100 Hz (Source with LCR meter)	Using LCR Meter by Direct Method / Comparison Method	1 μF to 10 μF	0.24%



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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance (@1 kHz) (Source with LCR Meter)	Using LCR Meter by Direct Method / Comparison Method	100 $\mu$ H to 10 H	0.46 % to 0.24 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (@1 kHz to 10 kHz)	Using Multi Product Calibrator by Direct Method	19 mA to 3 A	0.25 % to 3.08 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (@45 Hz to 1 kHz)	Using Multi Product Calibrator by Direct Method	1 mA to 10 A	0.096 % to 0.14 %
23	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	0.096 % to 0.2 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (@45 Hz to 1 kHz)	Using Multi Product Calibrator by Direct Method	100 $\mu$ A to 1 mA	0.26 % to 0.13 %



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25	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (@45 Hz to 1 kHz)	Using Multi Product Calibrator by Direct Method	30 $\mu$ A to 100 $\mu$ A	0.53 % to 0.26 %
26	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (@50 Hz)	Using Fluke 5522A Calibrator with 50 Turns Current Coil by Direct Method	10 A to 1000 A	0.33 % to 0.33 %
27	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power (120 V to 240 V / 0.01 A to 20A) 50 Hz @ UPF	Using Multi Product Calibrator by Direct Method	1.2 W to 4.8 kW	0.12%
28	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power (120 V to 240 V / 0.1 A to 20 A) 50 Hz @ 0.2 Lead/Lag	Using Multi Product Calibrator by Direct Method	2.4 W to 960 W	1.2%
29	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power (120 V to 240 V / 0.1 A to 20 A) 50 Hz @ 0.5 Lead/Lag	Using Multi Product Calibrator by Direct Method	6 W to 2.4 kW	0.37%
30	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power (120 V to 240 V / 0.1 A to 20 A) 50 Hz @ 0.8 Lead/Lag	Using Multi Product Calibrator by Direct Method	9.6 W to 3.8 kW	0.16%



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31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (@1 kHz to 50 kHz )	Using Multi Product Calibrator by Direct Method	1 V to 10 V	0.027 % to 0.048 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (@1 kHz to 50 kHz )	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.036 % to 0.056 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (@10 Hz to 45 Hz)	Using Multi Product Calibrator by Direct Method	1 V to 10 V	0.047 % to 0.043 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (@10 Hz to 45 Hz)	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.051 % to 0.047 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (@45 Hz to 1 kHz)	Using Multi Product Calibrator by Direct Method	1 mV to 100 mV	0.72 % to 0.036 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (@45 Hz to 1 kHz)	Using Multi Product Calibrator by Direct Method	1 V to 1000 V	0.025 % to 0.038 %





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37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (@45 Hz to 1 kHz)	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.036 % to 0.025 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (@50 kHz to 450 kHz)	Using Multi Product Calibrator by Direct Method	30 mV to 3 V	1.12 % to 0.037 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (@1 kHz)	Decade Capacitance Box by Direct Method	1 nF to 300 nF	0.62 % to 0.62 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (@1 kHz)	Decade Capacitance Box by Direct Method	100 pF to 220 pF	0.66%
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (@1 kHz)	Decade Capacitance Box by Direct Method	220 pF to 1 nF	0.66 % to 0.66 %
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (@1 kHz)	Decade Capacitance Box by Direct Method	300 nF to 10 µF	0.63%



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43	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (@100 Hz)	Using Multi Product Calibrator by Direct Method	1 nF to 700 nF	1.73% % to 0.46 %
44	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (@100 Hz)	Using Multi Product Calibrator by Direct Method	10 µF to 109 µF	0.41 % to 0.63 %
45	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (@100 Hz)	Using Multi Product Calibrator by Direct Method	700 nF to 10 µF	0.46 % to 0.41 %
46	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance (@1 kHz)	Using Decade Inductance Box by Direct Method	100 µH to 10 H	0.69 % to 0.74 %
47	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor / Phase angle	Using Multi Product Calibrator by Direct Method	0.2 PF to 1 PF lead/lag	0.002 PF to 0.001 PF
48	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8 ½ Digital Multimeter by Direct Method	1 A to 20 A	0.022 % to 0.048 %



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49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8 ½ Digital Multimeter by Direct Method	10 µA to 100 µA	0.01 % to 0.003 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8 ½ Digital Multimeter by Direct Method	100 µA to 100 mA	0.003 % to 0.005 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8 ½ Digital Multimeter by Direct Method	100 mA to 1 A	0.005 % to 0.022 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter with shunt by V/I Method	150 A to 1000 A	1.03%
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter with shunt by V/I Method	20 A to 150 A	1.03%
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Probe with Digital Multimeter by Direct Method	1 kV to 20 kV	3.56 % to 1.97 %



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55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Probe with Digital Multimeter by Direct Method	20 kV to 40 kV	1.97%
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8 ½ Digital Multimeter by Direct Method	0.1 mV to 1 mV	0.13 % to 0.012 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8 ½ Digital Multimeter by Direct Method	1 mV to 10 mV	0.012 % to 0.0048 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8 ½ Digital Multimeter by Direct Method	10 mV to 100 mV	0.002 % to 0.00082 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8 ½ Digital Multimeter by Direct Method	100 mV to 1000 V	0.00082 % to 0.00077 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8 ½ Digital Multimeter by Direct Method	1 milli-ohm to 1 ohm	0.47 % to 0.002 %



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61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8 ½ Digital Multimeter by Direct Method	1 ohm to 100 kilo-ohm	0.002 % to 0.001 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8 ½ Digital Multimeter by Direct Method	10 mega-ohm to 2 giga-ohm	0.003 % to 0.15 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8 ½ Digital Multimeter by Direct Method	100 kilo-ohm to 10 mega-ohm	0.001 % to 0.003 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8 ½ Digital Multimeter by Direct Method	2 Gohm to 20 Gohm	0.15 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	1 A to 20 A	0.028 % to 0.12 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	10 µA to 100 µA	0.25 % to 0.04 %



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67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with 50 Turns Current Coil by Direct Method	10 A to 1000 A	0.30 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	10 mA to 1 A	0.015 % to 0.028 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	100 µA to 10 mA	0.04 % to 0.015 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (10V to 1000V / 10mA to 20A)	Using Multi Product Calibrator by Direct Method	100 mW to 20 kW	0.024 % to 0.081 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	0.1 mV to 1 mV	1.17 % to 0.12 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 mV to 10 mV	0.12 % to 0.014 %



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73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 V to 1000 V	0.0017 % to 0.0024 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.014 % to 0.004 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.0036 % to 0.002 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct Method	0.01 ohm to 1 ohm	0.065 % to 0.0076 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Megaohm Box by Direct Method	1 Gohm to 100 Gohm	0.59 % to 1.6 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct Method	1 kohm to 100 kohm	0.0034 %



# National Accreditation Board for Testing and Calibration Laboratories

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79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct Method	1 Mega-ohm to 100 Mega-ohm	0.0042 % to 0.059 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Megaohm Box by Direct Method	1 Mohm to 100 Mohm	0.58 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct Method	1 ohm to 100 ohm	0.0076 % to 0.0034 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	1 ohm to 100 ohm	0.024 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	10 milli-ohm to 1 ohm	1.16 % to 0.024 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Megaohm Box by Direct Method	100 giga-ohm to 1000 giga-ohm	1.6 % to 3.61 %





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85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct Method	100 kilo-ohm to 1 Mega-ohm	0.0034 % to 0.0042 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance box / Decade Megaohm Box by Direct Method	100 kohm to 1 Mohm	0.012 % to 0.58 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct Method	100 Mega-ohm to 1000 Mega-ohm	0.059 % to 1.73 %
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Megaohm Box by Direct Method	100 Mohm to 1 Gohm	0.59 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct Method	100 ohm to 1 kohm	0.0034 %
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	100 ohm to 100 kilo-ohm	0.024 % to 0.012 %



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91	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Conductivity Meter - Simulation Method (0.1 $\mu$ S to 200 mS)	Using Multiproduct Calibrator / Decade Resistance box / Decade Megaohm Box by Direct Method	20 ohm to 10 Mohm	1.61 % to 7.86 %
92	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope AC Amplitude (Vertical Axis Deflection Factor) (@1 kHz) - (1 mohm)	Using Multi Product Calibrator by Direct Method	1 mV to 130 V	4.43% % to 0.13 %
93	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope DC Amplitude (Vertical Axis Deflection Factor) - (1 mega-ohm)	Using Multi Product Calibrator by Direct Method	1 mV to 130 V	4.7 % to 0.06 %
94	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope- Bandwidth (at 50 kHz)	Using Multi Product Calibrator by Direct Method	Up to 1 GHz	6%
95	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope- Time Base	Using Multi Product Calibrator by Direct Method	1 ns to 5 s	0.03 % to 0.24 %



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96	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH Meter - Simulation Method (0 to 20 pH)	Using Multi Product Calibrator by Direct Method	-400 mV to +400 mV	0.057 %
97	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B-Type Thermocouple (By Electrical Measurement Method)	Using Digital Multimeter by Direct Method	600 °C to 1800 °C	0.020°C
98	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E-Type Thermocouple (By Electrical Measurement Method)	Using Digital Multimeter by Direct Method	-250 °C to 1000 °C	0.009°C
99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J-Type Thermocouple (By Electrical Measurement Method)	Using Digital Multimeter by Direct Method	-200 °C to 1200 °C	0.013°C
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-Type Thermocouple (By Electrical Measurement Method)	Using Digital Multimeter by Direct Method	-200 °C to 1300 °C	0.018°C
101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-Type Thermocouple (By Electrical Measurement Method)	Using Digital Multimeter by Direct Method	-200 °C to 1300 °C	0.012°C



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102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type Thermocouple (By Electrical Measurement Method)	Using Digital Multimeter by Direct Method	0 °C to 1750 °C	0.025°C
103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (By Electrical Measurement Method)	Using Digital Multimeter by Direct Method	-200 °C to 800 °C	0.015°C
104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S-Type Thermocouple (By Electrical Measurement Method)	Using Digital Multimeter by Direct Method	0 °C to 1750 °C	0.022°C
105	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T-Type Thermocouple (By Electrical Measurement Method)	Using Digital Multimeter by Direct Method	-250 °C to 400 °C	0.007°C
106	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	U-Type Thermocouple (By Electrical Measurement Method)	Using Digital Multimeter by Direct Method	-200 °C to 600 °C	0.011°C



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107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B-Type Thermocouple (Indicator, Controller, Recorder) - By Electrical Simulation Method	Using Multi Product Calibrator / Multi Function Calibrator by Direct Method	600 °C to 1820 °C	0.13°C
108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E-Type Thermocouple (Indicator, Controller, Recorder) - By Electrical Simulation Method	Using Multi Product Calibrator / Multi function calibrator by Direct Method	-200 °C to 1000 °C	0.040°C
109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type Thermocouple (Indicator, Controller, Recorder) - By Electrical Simulation Method	Using Multi Product Calibrator / Multi Function Calibrator by Direct Method	-200 °C to 1200 °C	0.06°C
110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type Thermocouple (Indicator, Controller, Recorder) - By Electrical Simulation Method	Using Multi Product Calibrator / Multi Function Calibrator by Direct Method	-200 °C to 1372 °C	0.060°C
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type Thermocouple (Indicator, Controller, Recorder) - By Electrical Simulation Method	Using Multi Product Calibrator / Multi-Function Calibrator by Direct Method	-200 °C to 1300 °C	0.060°C



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112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type Thermocouple (Indicator, Controller, Recorder) - By Electrical Simulation Method	Using Multi Product Calibrator / Multi-Function Calibrator by Direct Method	5 °C to 1767 °C	0.17°C
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Indicator, Controller, Recorder) - By Electrical Simulation Method	Using Multi Product Calibrator / Multi-Function Calibrator by Direct Method	-200 °C to 800 °C	0.05°C
114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S-Type Thermocouple (Indicator, Controller, Recorder) - By Electrical Simulation Method	Using Multi Product Calibrator / Multi-Function Calibrator by Direct Method	5 °C to 1767 °C	0.15°C
115	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-Type Thermocouple (Indicator, Controller, Recorder) - By Electrical Simulation Method	Using Multi Product Calibrator / Multi-Function Calibrator by Direct Method	-250 °C to 400 °C	0.030°C
116	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	U-Type Thermocouple (Indicator, Controller, Recorder) - By Electrical Simulation Method	Using Multi Product Calibrator / Multi-Function Calibrator by Direct Method	-200 °C to 600 °C	0.03°C



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117	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digital Multimeter by Direct Method	3 Hz to 300 kHz	0.058 % to 0.012 %
118	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digital Multimeter by Direct Method	300 kHz to 1 MHz	0.012 % to 0.013 %
119	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Stop Watch	Using Time Interval Meter/ Time Totalizer by Direct/ Comparison method	1 s to 86400 s	0.011 s to 0.042 s
120	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer	Using Time Interval Meter / Time Totalizer by Direct / Comparison method	0.1 s to 60 s	0.009 s to 0.042 s
121	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer	Using Time Interval Meter / Time Totalizer by Direct / Comparison method	1800 s to 3600 s	0.058 s to 0.092 s
122	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer	Using Time Interval Meter by Direct / Comparison method	3600 s to 36000 s	0.092 s to 0.23 s



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123	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer	Using Time Interval Meter / Time Totalizer by Direct / Comparison method	36000 s to 86400 s	0.23 s to 1.2 s
124	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer	Using Time Interval Meter/ Time Totalizer by Direct / Comparison method:	60 s to 600 s	0.042 s
125	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer	Using Time Interval Meter / Time Totalizer by Direct / Comparison method	600 s to 1800 s	0.042 s to 0.058 s
126	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	1 Hz to 1000 Hz	0.001 % to 0.0003 %
127	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	100 kHz to 2 MHz	0.0003%
128	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	1000 Hz to 100 kHz	0.0003%





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129	FLUID FLOW- FLOW MEASURING DEVICES	Anemometer / Air Velocity Meter	Using Digital Anemometer by Comparison Method	0.20 m/s to 23.00 m/s	4.30%
130	MECHANICAL- ACCELERATION AND SPEED	Contact Tachometer	Using Digital Tachometer and RPM Source by Comparison Method (SANS TR 45-02)	100 RPM to 9999 RPM	1.4RPM
131	MECHANICAL- ACCELERATION AND SPEED	Contact Tachometer	Using Digital Tachometer and RPM Source by Comparison Method (SANS TR 45-02)	20 RPM to 100 RPM	0.3RPM
132	MECHANICAL- ACCELERATION AND SPEED	Noncontact Tachometer, Stroboscope, RPM / Speed (Indicator / Meter / Source)	Using Digital Tachometer and RPM Source by Comparison Method (SANS TR 45-02)	15 RPM to 60 RPM	0.3RPM
133	MECHANICAL- ACCELERATION AND SPEED	Noncontact Tachometer, Stroboscope, RPM / Speed (Indicator / Meter/Source)	Using Digital Tachometer and RPM Source by Comparison Method (SANS TR 45-02)	10000 RPM to 50000 RPM	1.6RPM
134	MECHANICAL- ACCELERATION AND SPEED	Noncontact Tachometer, Stroboscope, RPM / Speed (Indicator / Meter/Source)	Using Digital Tachometer and RPM Source by Comparison Method (SANS TR 45-02)	60 RPM to 10000 RPM	0.55RPM



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135	MECHANICAL-ACCELERATION AND SPEED	Noncontact Tachometer, Stroboscope, RPM / Speed (Indicator/ Meter/Source)	Using Digital Tachometer and RPM Source by Comparison Method (SANS TR 45-02)	50000 RPM to 99999 RPM	2.5RPM
136	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Level Calibrator by Direct Method	114 dB @ 1 kHz	0.53dB
137	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Level Calibrator by Direct Method	94 dB @ 1 kHz	0.53dB
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor / Combination Set	Using profile projector by direct method	(0°-90-0) °	3 min of arc
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bridge Cam Gauge	Using Profile Projector by Direct method	0 ° to 60 °	2.47min of arc
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bridge Cam Gauge	Using Profile Projector by Direct method	up to 10 mm	2.94µm



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141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Brinell Ball Indenter (Linear)	Using Profile Projector by Direct method	up to 10 mm	2.61µm
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier / Dial / Digital Groove) L.C.: 0.01 mm & Coarser	Using Slip Gauge, Long Slip Gauge - 'K' Grade, Step Gauge (Caliper Checker), Gauge Block Grade '0' & Length Bar by Comparison method	0 to 1000 mm	10.55µm
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier / Dial / Digital Groove) L.C.: 0.01 mm & Coarser	Using Long Slip Gauge - 'K' Grade, Step Gauge (Caliper Checker), Gauge Block Grade '0' & Length Bar by Comparison method	0 to 2000 mm	13.8µm
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier / Dial / Digital Groove) L.C.: 0.01 mm & Coarser	Using Slip Gauge, Long Slip Gauge - 'K' Grade, Step Gauge (Caliper Checker), Gauge Block Grade '0' & Length Bar by Comparison method	0 to 300 mm	6.69µm



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145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier / Dial / Digital Groove) L.C.: 0.01 mm & Coarser	Using Slip Gauge, Long Slip Gauge - 'K' Grade, Step Gauge (Caliper Checker), Gauge Block Grade '0' & Length Bar by Comparison method	0 to 600 mm	7.7µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Clinometer	Using Angle Gauge Block, Sine bar & Gauge Block Set by Comparison method as per MOY/SCMI/36	0 ° to 90 °	0.91 min. of arc
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge	Using Master Foils by Comparison method	0 mm to 2 mm	0.6µm
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge	Using Master Foils by Comparison method	Above 2 mm to 5 mm	0.7µm
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness)	Using LVDT Electronic comparator and Optical Flat by Direct method	Up to 50 mm	0.16µm



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150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cone Master (Angle)	Using Profile Projector By Direct method	55° & 60°	3 min of arc
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hatch Cutter (Angle)	Using Profile Projector by Direct method	45 °	3.6min of arc
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hatch Cutter (Pitch)	Using Profile Projector by Direct method	Up to 3 mm	2.66µm
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Degree Protractor Digital / Inclinometer	Using Profile Projector / Angle Gauge Block, Sine Bar & Gauge Block Set by Comparison method	0 ° to 180 °	5.82min of arc
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (Vernier / Dial / Digital) L.C.: 0.01 mm & Coarser	Using Slip Gauge and Long Slip Gauge Grade 'K' by Comparison method	0 to 300 mm	3.75µm



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155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (Vernier / Dial / Digital) L.C.: 0.01 mm & Coarser	Using Step Gauge (Depth Micro-Checker) & Gauge Block Grade '0' Comparison method as per Standard	0 mm to 300 mm	7.39µm
156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (Vernier / Dial / Digital) L.C.: 0.01 mm & Coarser	Using Slip Gauge and Long Slip Gauge Grade 'K' by Comparison method	Above 300 mm to 1000 mm	7.1µm
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth indent Measurement Device for Hardness Tester	Using LMM / Dial Calibration Tester / Gauge Block Set & Using Electronic Comparator by Direct method as per ASTM D 2240	0 mm to 2 mm	1.02µm
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (Dial / Digital) L.C.: 0.001 mm & Coarser	Using Step Gauge (Depth Micro-Checker) Using Slip Gauge by Comparison method as per Standard JIS B 7544	0 mm to 300 mm	3.86µm



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159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (Dial / Digital) L.C.: 0.001 mm & Coarser	Using Depth Micro checker & Slip Gauge 'K' grade by Comparison method as per Standard JIS B 7544	0 to 100 mm	1.06µm
160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (Dial / Digital) L.C.: 0.001 mm & Coarser	Using Slip Gauge and Long Slip Gauge 'K' by Comparison method as per Standard JIS B 7544	Above 100 mm to 300 mm	2.04µm
161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Bore Gauge / Bore Gauge (for transmission only) L.C.: 0.001 mm & Coarser	Using Electronic Dial Calibration Tester, Dial Indicator & Gauge Blocks Using by Comparison method as per Standard JIS B 7515	Up to 1.5 mm	2.01µm
162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Bore Gauge / Bore Gauge (for transmission only) L.C.: 0.001 mm & Coarser	Length Measuring Machine by Direct method as per Standard JIS B 7515	up to 2 mm	0.31µm
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Caliper Gauge / Groove Dial Gauge (Dial / Digital) (Internal Type) LC: 0.005 mm & Coarser	Using Gauge Blocks / Slip Gauge Accessories set by Comparison method	0 mm to 100 mm	2.85µm



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164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Caliper Gauge / Groove Dial Gauge (Dial / Digital) (Internal Type) LC: 0.005 mm & Coarser	Using Long Gauge Blocks 'K' Grade / Slip Gauge Accessories set by Comparison method	0 mm to 200 mm	2.92µm
165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Caliper Gauge / Groove Dial Gauge (Dial / Digital) (Internal Type) LC: 0.005 mm & Coarser	Using Gauge Blocks / Slip Gauge Accessories set by Comparison method	0 mm to 50 mm	2.82µm
166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge / Dial Snap Micrometer / Thickness Gauge (Digital / Dial) L.C.: 0.001 mm & Coarser	Using gauge blocks by comparison method	0 mm to 100 mm	1.07 µm
167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge / Dial Snap Micrometer / Thickness Gauge (Digital / Dial) L.C.: 0.001 mm & Coarser	Using gauge blocks by comparison method	0 mm to 50 mm	0.98 µm
168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge(Length Gauge)	Using profile Projector by direct Method	14.7 mm to 81 mm	2.97µm





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169	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer Parallel / Parallel Blocks	Surface Plate, Gauge Block & Dial Indicator/ Precision Level	upto 300 mm	2.18µm
170	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer Square/ Try Square/ Angle Plate/ Box Angle Plate (Flatness, Squareness & Parallelism)	Using Cylindrical Square, Plunger Dial, Surface Plate & Gauge Block "0" by Comparison method	Upto 600 mm	2.8µm
171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer L.C.: 0.001 mm & Coarser	Using Extensometer Calibration Stand with DRO & Digital Caliper by Comparison method as per ASTM E83 & ISO 9513	upto 5 mm	2.95µm
172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C: 0.0001 mm	Using Grade K Gauge Block Set by Comparison Method	0 mm to 25 mm	0.54µm
173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital) L.C.: 0.001 mm & Coarser	Using Gauge Blocks (Grade '0') by Comparison method	Above 50 mm to 100 mm	0.75µm



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174	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital) L.C.: 0.01 mm & Coarser	Using Gauge Blocks (Grade '0') by Comparison method	600 mm to 1200 mm	11.57 µm
175	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital) L.C.: 0.01 mm & Coarser	Using Gauge Blocks (Grade '0') & Length Bars and Long Slip Gauge Set by Comparison method	Above 1200 mm to 1800 mm	12.46µm
176	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital) L.C.: 0.001 mm & Coarser	Using Gauge Blocks (Grade '0') by Comparison method	0 to 50 mm	0.54µm
177	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital) L.C.: 0.001 mm & Coarser	Using Gauge blocks Grade '0', Length Bars and Long Slip Gauge Set by Comparison method	Above 100 mm to 300 mm	2.51µm
178	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital) L.C.: 0.001 mm & Coarser	Using Gauge Blocks (Grade '0') & Length Bars and Long Slip Gauge Set by Comparison method	Above 300 mm to 600 mm	5.53µm



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179	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge Set	Using Length Measuring Machine by Direct method	0.01 mm to 2.0 mm	0.40 μm
180	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge Set	Using Electronic Comparator by Comparison method	0.01 mm to 2.0 mm	0.60μm
181	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flush Pin Gauges (Step Limit)	Using Electronic Comparator & Gauge Block '0' Grade by Comparison method	upto 5mm	1.78μm
182	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gear Tooth Vernier L.C.0.01 mm	Using Gauge Blocks Grade '0' by Comparison method	0 mm to 50 mm	6.7μm
183	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Groove Micrometer L.C. 0.01 mm & Coarser	Using Gauge Block Grade "0" by Comparison method	0 to 100 mm	3.47μm



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184	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegmann Gauge	Using Electronic Comparator with DRO by Direct method	0 µm to 100 µm	0.94µm
185	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier / Dial / Digital) L.C.: 0.01 mm & Coarser	Using Caliper Checker and Long Slip Gauge, 'K' Grade by Comparison method	0 mm to 1000 mm	6.58µm
186	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier / Dial / Digital) L.C.: 0.01 mm & Coarser	Using caliper checker by Comparison method	0 mm to 300 mm	3.80µm
187	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier / Dial / Digital) L.C.: 0.01 mm & Coarser	Using Caliper checker by Comparison method	0 mm to 600 mm	7.40µm
188	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hi-Lo Gauge	Using Profile Projector & Gauge Blocks Grade "0" by Direct method	upto 100 mm	2.99µm



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189	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (Caliper Type) L.C.: 0.001 mm & Coarser	Using Gauge Blocks Grade '0' & Gauge Block Accessories Set by Comparison Method	5 mm to 25 mm	2µm
190	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer with Connecting rods (Stick / Tubular Type) L.C.: 0.01 mm & Coarser	Using Gauge Blocks (Grade '0'), Length Bars, Long Slip Gauge Set, Electronic Comparator with stand / Length Bar / Lever Dial Indicator by Comparison method:	13 mm to 1000 mm	3.63µm
191	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Gauge	Using Gauge Blocks by Comparison method	0 mm to 200 mm	2.48µm
192	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge L.C.: 0.001 mm & Coarser	Using Length Measuring Machine by Comparison method	0 mm to 0.14 mm	0.24µm



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193	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge L.C.: 0.001 mm & Coarser	Using Electronic Dial Calibration Tester by Comparison method	0 mm to 0.14 mm	2µm
194	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge L.C.: 0.002 mm & Coarser	Using Length Measuring Machine by Comparison method	0 mm to 0.60 mm	0.38µm
195	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge L.C.: 0.002 mm & Coarser	Using Electronic Dial Calibration Tester by Comparison method	0 mm to 0.60 mm	2.91µm
196	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge L.C.: 0.01 mm & Coarser	Using Length Measuring Machine by Comparison method	0 mm to 2 mm	0.35µm
197	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge L.C.: 0.01 mm & Coarser	Using Electronic Dial Calibration Tester by Comparison method	0 mm to 2.0 mm	2.0µm



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198	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauges (Height, Length, Width, Diameter, Radius)	Using Profile Projector, Digital Caliper & Gauge Block Set by Direct method	Up to 300 mm	4.07µm
199	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauges - Angle	Using Profile Projector by Direct Method	Up to 360 °	3.20µm
200	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Master Foils / Thickness foils	Using Length Measuring Machine / Electronic Comparator with DRO by Comparison method	0.01 mm to 2.0 mm	0.35µm
201	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Master Foils / Thickness foils	Using Electronic Comparator / Length measuring machine by Comparison method:	2 mm to 10 mm	0.30µm
202	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pins / Pin Gauge	Using LMM by Comparison method	0.1 mm to 25 mm	0.27µm



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203	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Steel Rule / Steel Scale	Using Tape & Scale Measuring Machine by Comparison method	upto 1000 mm	7.17µm
204	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape / Pie Tape	Using Tape & Scale Measuring Machine by Comparison method	upto 50 m	19.5*(Sqrt L)µm (L in mm)
205	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micro Dial Comparator L.C. 0.1 µm & L.C. 0.5 µm	Using Electronic Dial Calibration Tester / Grade 'K' Gauge Block Set and Comparator Stand by Comparison method	to (±) 0.050 mm	0.13µm
206	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head (Digital) L.C.: 0.0002 mm & Coarser	Using LMM / Gauge Block set by Comparison method	0 mm to 50 mm	0.53µm
207	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head (Digital) L.C.: 0.0002 mm & Coarser	Using LMM / Gauge Block set by Comparison method	Above 50 mm to 100 mm	0.73µm





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208	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head (Digital) L.C.: 0.0002 mm & Coarser	Using Electronic Comparator by Comparison method	0 to 25 mm	1.74µm
209	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Notch Profile Template (Angular)	Using Profile Projector By Direct method	0 ° to 45 °	2.40min
210	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Notch Profile Template (Linear)	Using Profile Projector by Direct method	upto 75 mm	2.61µm
211	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Paddle Gauge (Plain Plug gauge)	Using Electronic Comparator by Direct method	Up to 300 mm	2.1µm
212	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PCD gauge	Using 2 D electronic Height Gauge	up to 100 mm	4.90µm



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213	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper L.C. 0.001 mm	Using Gauge Block "0" / Long gauge block by Comparison method	0 to 100 mm	1.91µm
214	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper	Using Gauge Block "0" grade/Long Gauge Block by comparison method	0 mm to 250 mm	61.1µm
215	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Micrometer L.C. 0.001 mm & Coarser (For Angular)	Using Profile Projector by Direct method	to 45 °	2.47min of arc
216	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Micrometer L.C. 0.001 mm & Coarser (For Linear)	Using Gauge Blocks by Comparison method	0 mm to 100 mm	0.86µm
217	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Micrometer L.C. 0.001 mm & Coarser (Linear)	Using Gauge Blocks by Comparison method	0 mm to 300 mm	3.16µm



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218	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Gap Gauge / Hub Gauge / Snap Gauges	Using Gauge Blocks by Comparison method	1 mm to 50 mm	0.73µm
219	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Gap Gauge / Hub Gauge / Snap Gauges	Using Long Gauge Blocks by Comparison method	Above 100 mm to 200 mm	1.95µm
220	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Gap Gauge / Hub Gauge / Snap Gauges	Using Long Gauge Blocks by Comparison method	Above 200 mm to 300 mm	2.20µm
221	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Gap Gauge / Hub Gauge / Snap Gauges	Using Gauge Blocks by Comparison method	Above 50 mm to 100 mm	1.02µm
222	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauges / Air plug gauge	Using LMM / Electronic Comparator with DRO by Comparison method	1 mm to 50 mm	1.10µm



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223	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauges / Air plug gauge	Using LMM Comparison method	Above 50 mm to 100 mm	1.50µm
224	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauges / Air plug gauges	Using LMM by Comparison method	Above 100 mm to 300 mm	2.50µm
225	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauges / Setting Ring Gauges / Air Ring Gauge	Using LMM by Comparison method	Above 100 mm to 150 mm	1.80µm
226	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauges / Setting Ring Gauges / Air Ring Gauge	Using LMM by Comparison method	Above 150 mm to 215 µm	2.10µm
227	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauges / Setting Ring Gauges / Air Ring Gauge	Using LMM by Comparison method	Above 215 mm to 300 mm	2.20µm



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228	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauges / Setting Ring Gauges / Air ring gauge	Using LMM by Comparison method	above 50 mm to 100 mm	1.48 μm
229	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauges / Setting Ring Gauges / Air ring gauges	Using LMM by Comparison method	3 mm to 50 mm	1.31μm
230	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge L.C.: 0.001 mm & Coarser	Using LMM by Comparison method	0 mm to 50 mm	0.35μm
231	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge L.C: 0.0001 mm	Using Length Measuring Machine by Comparison Method	0 mm to 25 mm	0.35μm
232	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge L.C.: 0.001 mm & Coarser	Using Electronic Dial Calibration Tester & Gauge Blocks Grade '0' by Comparison method	0 to 25 mm	2.51μm



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233	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge L.C.: 0.001 mm & Coarser	Using Electronic Dial Calibration Tester & Gauge Blocks Grade '0' by Comparison method	0 mm to 5 mm	2.50µm
234	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge L.C.: 0.01 mm & Coarser	Using Length Measuring Machine by Comparison method	0 to 100 mm	0.44µm
235	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (Penetrometer) L.C.: 0.1 mm & Coarser	Using Gauge Block Set by Direct method	0 mm to 40 mm	61.10µm
236	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Proximity Sensor	Using Length Bar & Gauge Block Set by Direct method	0 mm to 1000 mm	446.1µm
237	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector By Direct method	0.6 mm to 40 mm	2.94µm



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238	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Receiver Gauge	Using 2D - Electronic Height Gauge by Direct method	upto 200 mm	3.44 µm
239	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Riser Blocks	Using Lever Dial Probe with Indicator & Check Master by Comparison method	upto 300 mm	2.44 µm
240	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Rockwell Diamond Cone Indenter (Angular)	Using Profile Projector by Direct method as per ASTM E 18	upto 120 °	2.50 min of arc
241	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Rockwell Diamond Cone Indenter (Radius)	Using Profile Projector by Direct method as per ASTM E 18	upto 0.2 mm	3.89µm
242	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sphere (Dia. Measurement)	Using LMM by Direct method	upto 50 mm	0.14µm



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243	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level / Frame Level / Coincidence Level (Type 1 & 2 & 3) L.C. : 10 µm / m & Coarser	Using Electronic Level and tilting table by Comparison method	upto 300 mm (base)	6.05 µm / m
244	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Plug Gauges (Dimension between measuring pins)	Using FCDM by Comparison method as per DIN 5480-1	10 mm to 100 mm	2.58µm
245	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Plug Gauges (Dimension between measuring pins)	Using LMM By Comparison method as per DIN 5480-1	10 mm to 100 mm	1.02µm
246	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Plug Gauges (Dimension between measuring pins)	Using LMM By Comparison method as per DIN 5480-1	Above 100 mm to 300 mm	1.90µm
247	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Ring Gauges (Dimension between measuring pins)	Using LMM by Comparison method as per DIN 5480-1	10 mm to 100 mm	2.2µm





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248	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Stage Micrometer L.C: 0.1 mm	Using Profile Projector Direct Method	0 mm to 10 mm	2.8µm
249	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Stage Micrometer	Using Profile Projector by Direct method	upto 7 mm	3.66µm
250	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Step Gauge (Caliper Checker / Check Master / Depth Micro Checker)	Using Lever Dial Probe with Indicator & Long Slip Gauge by Comparison method	0 to 1000 mm	7.10µm
251	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Step Gauge (Caliper Checker / Check Master / Depth Micro Checker)	Using Lever Dial Probe with Indicator & Long Slip Gauge by Comparison method	0 to 600 mm	4.0µm
252	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Step Gauge (Caliper Checker / Check Master / Depth Micro Checker)	Using Lever Dial Probe with Indicator & Long Slip Gauge by Comparison method	0 mm to 300 mm	2.4µm



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253	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Step thickness Gauge Block	Using LVDT and Long Gauge Block by Comparison method	1 mm to 300 mm	21.36µm
254	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Step thickness Gauge Block	Using Electronic comparator with DRO and Gauge Block Set by Comparison method	2 mm to 20 mm	1.11µm
255	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness & Parallelism)	Using Surface Plate & LVDT / Electronic level by Comparison method	upto 1000 mm	5.4µm
256	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic Level by Comparison method	upto 3000 x 3000 mm	0.32 * SQRT((L+W)/100)µm (Where L & W in mm)
257	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug gauge (Diameter)	Using LMM, Gauge Blocks & Measuring pin by Comparison method	Above 100 mm to 300 mm	2.09µm



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258	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug gauge (Diameter)	Using LMM, Gauge Blocks & Measuring pins by Comparison method	6 mm to 100 mm	1.34µm
259	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug gauge (Taper Angle)	Using LMM, Gauge Block & Measuring Pin by Comparison method	6 mm to 100 mm	25 s
260	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug gauge (Taper Angle)	Using LMM, Gauge block & Measuring pin by Comparison method	Above 100 mm to 300 mm	33s
261	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring gauge (Diameter)	Using LMM Comparison method	Above 100 mm to 300 mm	1.74µm
262	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring gauge (Diameter)	Using LMM Comparison method	6 mm to 100 mm	1.5µm



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263	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring gauge (Taper Angle)	Using LMM Comparison method	6 mm to 100 mm	25s
264	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring gauge (Taper Angle)	Using LMM Comparison method	Above 100 mm to 300 mm	31s
265	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale	Using Profile Projector by Comparison method	0.1 mm to 60 mm	2.96µm
266	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective Dia. Only)	Using LMM & Thread Measuring wires by Comparison method as per ANSI / ASME B 1.20.3:	3 mm to 50 mm	0.89µm
267	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective Dia. Only)	Using LMM & Thread Measuring wire by Comparison method as per ANSI / ASME B 1.20.3	Above 100 mm to 300 mm	1.8µm



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268	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective Dia. Only)	Using LMM & Thread measuring wire by Comparison method as per ANSI / ASME B 1.20.3	Above 50 mm to 100 mm	0.85µm
269	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Major Dia. Minor Dia. & Effective Dia.)	Using FCDM & Thread measuring wire by Comparison method as per ANSI / ASME B 1.20.3	3 mm to 50 mm	1.0µm
270	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Major Dia. Minor Dia. & Effective Dia.)	Using FCDM & Thread measuring wire by Comparison method as per ANSI / ASME B 1.20.3	Above 50 mm to 100 mm	1.6µm
271	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Effective Dia. Only)	Using LMM by Comparison method as per ANSI / ASME B 1.20.3	3 mm to 100 mm	0.63µm
272	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Effective Dia. Only)	Using LMM by Comparison method as per ANSI / ASME B 1.20.3	Above 100 mm to 200 mm	1.8µm



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273	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Templates (Angular)	Using Profile Projector by Direct method	Up to 360 °	2.50min of arc
274	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Templates (Linear)	Using Profile Projector by Direct method	upto 100 mm	3.69µm
275	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector & Vernier Caliper by Direct method	0.01 mm to 5 mm	4.0µm
276	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector & Vernier Caliper by Direct method	Above 5 mm to 125 mm	14µm
277	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge (Flakiness Gauge)	Using Profile Projector by Direct method	4.89 mm to 33.9 mm	2.97µm



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278	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Prisms (Angle)	Using Profile Projector by Direct method	upto 45 °	1.44µm
279	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Prisms (Linear)	Using Electronic Comparator / Profile Projector by Comparison method	3 mm to 6 mm	0.93µm
280	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wires or Cylinder / Three Wire Units	Using LMM by Direct method	0.17 mm to 6.35 mm	0.25µm
281	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Flank Angle)	Using Profile Projector By Direct method	to 55 & 60 °	1.30min of arc
282	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Pitch)	Using Profile Projector By Direct method	0.2 mm to 25 mm	2.95µm



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283	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauges / Wear Check Plug Gauges (Effective Dia. & Major Dia.)	Using LMM by Comparison method as per ANSI/ASME B1.2	Above 100 mm to 300 mm	1.89µm
284	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauges / Wear Check Plug Gauges (Effective Dia. & Major Dia.)	Using LMM by Comparison method as per ANSI/ASME B1.2	3 mm to 50 mm	0.69µm
285	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauges / Wear Check Plug Gauges (Effective Dia. & Major Dia.)	Using LMM by Comparison method ANSI/ASME B1.2	Above 50 mm to 100 mm	0.83µm
286	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauges / Wear Check Plug Gauges (Major Diameter, Minor Diameter & Effective Diameter)	Using FCDM & Thread Measuring wires by Comparison method as per ANSI / ASME B 1.2	3 mm to 50 mm	1.10µm
287	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauges / Wear Check Plug Gauges (Major Diameter, Minor Diameter & Effective Diameter)	Using FCDM & Thread Measuring wires by Comparison method as per ANSI / ASME B 1.2	Above 50 mm to 100 mm	3.20µm





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288	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauges / Wear Check Ring Gauges (Effective Dia. Only)	Using LMM by Comparison method as per ANSI / ASME B 1.2	3 mm to 50 mm	1.33µm
289	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauges / Wear Check Ring Gauges (Effective Dia. Only)	Using LMM by Comparison method as per ANSI / ASME B 1.2	Above 100 mm to 300 mm	2.2µm
290	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauges / Wear Check Ring Gauges (Effective Dia. Only)	Using LMM by Comparison method as per ANSI / ASME B 1.2	Above 50 mm to 100 mm	1.53µm
291	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Point Micrometer / Hole tester L.C.: 0.001 mm & Coarser	Using Setting Ring Gauges by Comparison Method	2.5 mm to 100 mm	3.00µm
292	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Point Micrometer / Hole tester L.C.: 0.001 mm & Coarser	Using Setting Ring Gauges by Comparison Method	Above 100 mm to 225 mm	3.40µm



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293	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge L.C.: 0.1 mm & Coarser	Using Gauge Blocks by Comparison method	Above 100 mm to 300 mm	7.75µm
294	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge L.C.: 0.1 mm & Coarser	Using Gauge Blocks by Comparison method	0.5 mm to 100 mm	60µm
295	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Parallelism) - Linear	Using Surface Plate, Test Mandrel & Lever Dial	(300 X 200 X 200) mm	4µm
296	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Parallelism) - Linear	Using Surface Plate, Test Mandrels & Lever Dial	(450 X 150 X 150) mm	6µm
297	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Squareness) - Linear	Using Surface Plate, Test Mandrel, Slip gauge & Granite Square	(300 X 200 X 200) mm	4µm



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298	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Squareness) - Linear	Using Surface Plate, Test Mandrels & Lever Dial	(450 X 150 X 150) mm	6µm
299	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Symmetricity) - Linear	Using Surface Plate, Test mandrels & Lever Dial	(300 X 200 X 200) mm	4µm
300	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Symmetricity) - Linear	Using Surface Plate, Test Mandrels & Lever Dial	(450 X 150 X 150) mm	6µm
301	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Notch Gauge	Using Profile Projector by Direct method as per ISO 148, ASTM E 23	upto 45 °	2.40 min of arc
302	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Notch Gauge (linear)	Using Profile Projector by Direct method as per ISO 148, ASTM E 23	upto 0.25 mm	1.5 µm



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303	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V' Block (Angular)	Using Profile Projector	to 300x200x200 mm	3min of arc
304	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V' Block (Flatness) - Linear	Using Surface Plate, Test Mandrels & Lever Dial	(300x200x200) mm	3µm
305	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V' Block (Flatness) - Linear	Using Surface Plate, Test Mandrels & Lever Dial	(450x150x150) mm	6µm
306	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Anvil Micrometer L.C: 0.001 mm & Coarser	Using Cylindrical Setting Master by Direct Method	1 mm to 16 mm	2.8µm
307	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Verification of Linear Travel of Microscopes (Brinell & Vickers Measuring Device) L.C.: 0.1 µm for Vickers L.C.: 1 µm for Brinell	Using Stage Micrometer / Glass Scale by Comparison method as per ASTM E10, ISO 6506-2	0 to 7 mm	1.35µm



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308	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vickers Diamond Cone Indenter (Angular)	Using Profile Projector by Direct method as per ASTM E 92, ASTM E384, ISO 6507-2	upto 136 °	2.48 min of arc
309	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge	Using Profile Projector by Direct method	upto 50 mm	2.93µm
310	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Gauge	Using Profile Projector by Direct method	0 ° to 90 °	1.30min of arc
311	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Gauge	Using Profile Projector by Direct method	Up to 200 mm	3.08µm
312	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet / Dry Film Applicator	Using Profile Projector by Direct method	0 µm to 3000 µm	2.93µm



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313	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet Film Thickness Gauge	Using Profile Projector by Direct method	25 µm to 3000 µm	2.93µm
314	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	Using Electronic Comparator & Gauge Block '0' Grade by Comparison method	2 mm to 100 mm	1.47µm
315	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	Using 2D Height Gauge / Electronic Comparator, Gauge Blocks "0" Grade / LMM by Comparison method	2 mm to 50 mm	0.7µm
316	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using Profile Projector by Direct method	0.19 mm to 25 mm	2.92µm
317	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Linear Height Gauge L.C.: 0.0001 mm & Coarser	Using Long Gauge Block by Comparison method	600 mm to 1000 mm	8.80µm



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318	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Linear Height Gauge L.C.: 0.0001 mm & Coarser	Using Check Master by Comparison method	Up to 600 mm	4.2µm
319	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Angle Gauge Blocks	Using Sine bar & Gauge block set by comparison method	0 ° to 90 °	3.2 "
320	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Comparator Stand (Flatness)	Using LVDT Electronic Comparator and Optical Flat by Direct method:	Up to 300 mm	1.97µm
321	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Masters / Mandrels (Diameter, Concentricity & Run out)	Using Electronic Comparator & Gauge Block '0' Grade by Comparison method	Above 100 mm to 200 mm	1.50µm
322	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Masters / Mandrels (Diameter, Concentricity & Run out)	Using Electronic Comparator & Gauge Block '0' Grade by Comparison method	Above 200 mm to 300 mm	1.93µm
323	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Masters / Mandrels (Diameter, Concentricity & Run out)	Using Electronic Comparator & Gauge Block '0' Grade by Comparison method	Above 50 mm to 100 mm	1.18µm



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324	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Masters / Mandrels (Diameter, Concentricity & Runout)	Using Electronic Comparator & Gauge Block '0' Grade by Comparison method	3 mm to 50 mm	1.10µm
325	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester L.C.: 0.0001 mm & Coarser	Using Electronic Comparator & Grade 'K' Gauge Blocks by Comparison method	Up to 25 mm	0.54µm
326	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Level L.C. 1 µm/m & Coarser	Using Master Electronic Level and Robust Tilting Table by Comparison method as per JIS B 7510	to ± 2 mm/m	5.39µm/m
327	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe with DRO / Dial Comparator / LVDT L.C.: 0.0001 mm & Coarser	Using Gauge Blocks 'K' Grade / LMM / Dial Calibration Tester by Comparison method	0 mm to 100 mm	0.50µm
328	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe with DRO / Dial Comparator / LVDT L.C.: 0.0001 mm & Coarser	Using Gauge Blocks 'K' Grade / LMM / Dial Calibration Tester by Comparison method	0 mm to 50 mm	0.27µm
329	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe with DRO / Dial Comparator / LVDT L.C.: 0.0001 mm & Coarser	Using Gauge Blocks 'K' Grade / LMM / Dial Calibration Tester by Comparison method	0 to 2 mm	0.08µm





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330	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe with DRO / Dial Comparator / LVDT L.C.: 0.0001 mm & Coarser	Using Gauge Blocks 'K' Grade / LMM / Dial Calibration Tester by Comparison method	0 mm to 25 mm	0.15µm
331	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Dia. Measuring M/c. L.C.: 0.0001 mm & Coarser	Using Cylindrical setting masters,LVDT probe, Electronic Comparator & Mandrel by Comparison method as per MOY/SCMI/9 issue 7	upto 175 mm	1.96µm
332	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Blocks	Using Gauge Block Calibration Tester & Grade 'K' Gauge Blocks by Comparison method	Above 25 mm to 50 mm	0.12 µm
333	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Blocks	Using Gauge Block Calibration Tester & Grade 'K' Gauge Blocks by Comparison method	Above 50 mm to 100 mm	0.17 µm
334	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Blocks	Using Gauge Block Calibration Tester & Grade 'K' Gauge Blocks by Comparison method	Up to 25 mm	0.09 µm



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335	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Micrometer / Height Master L.C.: 0.001 mm & Coarser	Using Lever Dial Probe with Indicator & Check Master by Comparison method	Up to 300 mm	1.07µm
336	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar / Micrometer Setting Rod / Long Gauge Blocks	Using Length Measuring Machine, Slip Gauge & Long Gauge Block by Comparison Method	100 mm to 300 mm	2.1µm
337	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar / Micrometer Setting Rod / Long Gauge Blocks	Using Long Slip Gauge Grade "K" & LVDT Probe by Comparison Method	300 mm to 1000 mm	6.8µm
338	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine L.C.: 0.0001 mm & Coarser	Using Grade 'K' Gauge Blocks by Comparison method	upto 100 mm	0.50µm
339	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine L.C.: 0.0001 mm & Coarser	Using Grade 'K' Gauge Blocks by Comparison method	100 mm to 500 mm	2.6µm
340	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine L.C.: 0.0001 mm & Coarser	Using Grade 'K' Gauge Blocks by Comparison method	500 mm to 1000 mm	4.4µm



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341	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Master cylinder / Granite L-Square (Squareness)	Using Master Cylinder Square, Gauge Blocks Grade "0" & Lever Dial Indicator by Comparison method	Upto 600 mm	3.99µm
342	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Ocular / Graticule (Angular Glass Scale) L.C.: 1°	Using Profile Projector by Direct method	0 ° to 360 °	1.37min of Arc
343	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Optical Flat (Flatness only)	Using Master Optical Flat & Monochromatic Light Source by Comparison method	Up to 60 mm	0.05µm
344	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring machine L.C.: 0°01' (Angle)	Using Glass Scales, Glass Protractor & Slip Gauge by Comparison method as per JIS B 7184	upto 360 °	1.84min of arc
345	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine L.C.: 1 µm (Linear)	Using Glass Scales, Glass Protractor & Slip Gauge by Comparison method as per JIS B 7184	Upto 300 mm	2.25µm
346	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine Magnification: 50X	Using Glass Scales, Glass Protractor & Slip Gauge by Comparison method as per JIS B 7184	10 X to 100 X	0.64%



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347	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Sine Bar/Sine Center Angular	Using Angle Gauge & Gauge Block "0", Electronic Probe & 2D-Height Gauge by Comparison method	to 15, 30, 45 & 90 °	3.05arc of sec
348	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Sine Bar/Sine Center (Roller Distance & Parallelism)	Using Angle Gauge & Gauge Block "0", LVDT Probe & 2D-Height Gauge, Surface plate by Comparison method	upto 500 mm	5.30µm
349	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge Accessories Set (Flatness & Parallelism)	Using Optical Flat / Measuring pin & Electronic Comparator by Comparison method	upto 300 mm	1.46µm
350	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Specimens	Using Surface Roughness Master Specimen & Surface Roughness Tester by comparison Method	upto Ra, Ry, Rz µm	6.2%
351	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester (Portable) Ra 2.93, Ry 11.3, Rz 11.	Using Master Roughness Specimens by Comparison method	upto 360 µm	6.23%
352	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tape & Scale Calibrator L.C.: 0.001 mm & Coarser	Using long Gauge Blocks 'Grade k', Gauge Block Set and LVDT by Comparison method	0 mm to 1000 mm	6.7µm



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353	MECHANICAL-DUROMETER	Rubber / Shore Hardness Tester (Durometer) - Shore A, B, E, O	Using Loadcell with indicator (Spring Force Method) as per ASTM D2240	(0 to 100) Shore A, B, E, O	0.3Shore A
354	MECHANICAL-DUROMETER	Rubber / Shore Hardness Tester (Durometer) - Shore C, D, DO	Using Loadcell with indicator (Spring Force Method) as per ASTM D2240	(0 to 100) Shore C, D, DO	0.3Shore D
355	MECHANICAL-HARDNESS TESTING MACHINES	Verification Of Leeb (Dynamic) Hardness Tester By Indirect Method	Using Standard Hardness Test Blocks as per ASTM A 956	'D' Scale	16.02 HLD
356	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge, Force Gauge	Using Differential denominations of Newton weights as per VDI / VDE 2624 Part 2.1	500 N to 2000 N	3.06N
357	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge, Force Gauge	Using Differential denominations of Newton weights as per VDI / VDE 2624 Part 2.1	Upto 500 N	0.22N



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358	MECHANICAL-PRESSURE INDICATING DEVICES	Absolute Pressure: Pneumatic Pressure Gauge / Indicator / Calibrator / Transmitter /Transducer / Switch /Controller / Recorder / Manometer / Barometer	Using Absolute Pressure Gauge with Pneumatic Pump & Pressure Calibrator by Comparison method as per DKD-R 6-1	0.05 bar (abs) to 4 bar (abs)	0.00041 bar (abs)
359	MECHANICAL-PRESSURE INDICATING DEVICES	Differential Pressure : Low Pressure Manometer / Gauge / Calibrator, Magnehelic Gauge / Indicator / Manometer/ Controller / Recorder / Logger / Modules	Using Digital Manometer, Low Pressure Comparator Pump & Pressure Calibrator by Comparison method as per DKD-R 6-1	0 bar to 0.04903 bar	0.000017 bar
360	MECHANICAL-PRESSURE INDICATING DEVICES	Differential Pressure : Low Pressure Manometer / Gauge / Calibrator, Magnehelic Gauge / Indicator / Manometer/ Controller / Recorder / Logger / Modules	Digital Manometer, Low Pressure Comparator Pump & Pressure Calibrator by Comparison method as per DKD-R 6-1	0 bar to 0.4903 bar	0.0000672 bar



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361	MECHANICAL-PRESSURE INDICATING DEVICES	Differential Pressure: Low Pressure Manometer / Gauge / Calibrator, Magnehelic Gauge / Indicator / Manometer/ Controller / Recorder / Logger / Modules	Using Digital Manometer, Low pressure comparator pump & Pressure Calibrator by comparison method as per DKD-R6-1	0 mbar to 500 mbar	0.058 mbar
362	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure- Hydraulic Pressure Gauge / Calibrator / Transducer / Transmitter / Switch / Indicator / Controller / Recorder / Logger / Modules	Using Digital Pressure Gauge, Pressure Calibrator using Hydraulic Comparator Pump by Comparison method as per DKD-R 6-1	0 bar to 1400 bar	0.202 bar
363	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure- Hydraulic Pressure Gauge / Calibrator / Transducer / Transmitter / Switch / Indicator / Controller / Recorder / Logger / Modules	Using Digital Pressure Gauge, Pressure Calibrator using Hydraulic Comparator Pump by Comparison method as per DKD-R 6-1	0 bar to 700 bar	0.08 bar



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364	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Hydraulic Pressure Gauge / Calibrator / Transducer / Transmitter / Switch / Indicator/ Controller/ Recorder / Logger/ Magnehelic Gauge / Level Gauge Manometer / Modules	Using Hydraulic Dead Weight Tester & Pressure Calibrator by Direct Method as per DKD-R 6-1	14 bar to 200 bar	0.012 % of rdg
365	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Hydraulic Pressure Gauge / Calibrator / Transducer / Transmitter / Switch / Indicator/ Controller/ Recorder / Logger/ Modules	Hydraulic Dead Weight Tester & Pressure Calibrator by Direct Comparison Method as per DKD-R 6-1	200 bar to 700 bar	0.012 % of rdg
366	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Hydraulic Pressure Gauge / Calibrator / Transducer / Transmitter / Switch / Indicator/ Controller/ Recorder / Logger/ Modules	Using Hydraulic Dead Weight Tester & Pressure Calibrator by Direct comparison Method as per DKD-R 6-1	700 bar to 1400 bar	0.012 % of rdg





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367	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Hydraulic Pressure Gauge / Calibrator / Transducer / Transmitter / Switch / Indicator / Controller / Recorder / Logger / Modules	Using Process Calibrator with External Sensor & Pressure Calibrator by Comparison method as per DKD-R 6-1	0 bar to 2500 bar	0.96 bar
368	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Hydraulic Pressure Gauge / Calibrator / Transducer / Transmitter / Switch / Indicator / Controller / Recorder / Logger / Modules	Using Process Calibrator with External Sensor & Pressure Calibrator by Comparison method as per DKD-R 6-1	0 bar to 4000 bar	1.21 bar
369	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Hydraulic. Pressure Gauge / Calibrator / Transducer / Transmitter / Switch / Compound Gauge / Indicator / Manometer / Controller / Recorder / Logger / Magnehelic Gauge/ Level Gauge Manometer /	Using Digital Pressure Gauge, Pressure Calibrator using Hydraulic Comparator Pump by Comparison method as per DKD-R 6-1	0 bar to 200 bar	0.025 bar



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370	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Pneumatic Pressure Gauge / Calibrator / Transducer / Transmitter / Switch / Compound Gauge / Indicator / Manometer/ Controller / Recorder / Logger / Modules	Using Pressure Calibrator using Pneumatic Hand pump by Comparison method as per DKD-R 6-1	0 bar to 40 bar	0.0052 bar
371	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Pneumatic Pressure Gauge / Calibrator / Transducer / Transmitter / Switch / Compound Gauge/ Indicator/ Manometer/ Controller/ Recorder / Logger/ Modules	Using Pneumatic Dead Weight Tester & Pressure Calibrator by Direct Comparison Method as per DKD-R 6-1	2 bar to 20 bar	0.01 %rdg
372	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Pneumatic Pressure Gauge / Calibrator / Transducer / Transmitter / Switch / Compound Gauge/ Indicator/ Manometer/ Controller/ Recorder / Logger/ Modules	Pneumatic Dead Weight Tester & Pressure Calibrator by Direct Comparison Method as per DKD-R 6-1	20 bar to 35 bar	0.01 %rdg



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373	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Pneumatic Pressure Gauge / Calibrator / Transducer / Transmitter / Switch / Compound Gauge/ Indicator/ Manometer/ Controller/ Recorder / Logger/ Modules	Pneumatic Dead Weight Tester & Pressure Calibrator by Direct Comparison Method as per DKD-R 6-1	200 mbar to 2000 mbar	0.01 %rdg
374	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Pneumatic Pressure Gauge / Calibrator / Transducer / Transmitter / Switch / Compound Gauge / Indicator / Manometer / Controller / Recorder / Logger / Level Gauge Manometer /	Using Digital Pressure Gauge and Pressure Calibrator using Pneumatic Comparator pump by Comparison method as per DKD-R 6-1	0 bar to 20 bar	0.0026 bar
375	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Pneumatic Vacuum: Gauge / Calibrator / Transducer / Transmitter /Switch/ Compound Gauge/ Indicator / Manometer/ Controller / Recorder / Logger / Modules	Using Pneumatic Dead Weight Tester & Pressure Calibrator by Direct Comparison Method as per DKD-R 6-1	(-) 1000 mbar to (-) 30 mbar	0.11 mbar



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376	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Pneumatic Pressure Gauge / Calibrator / Transducer / Transmitter / Switch / Compound Gauge / Indicator / Manometer / Controller / Recorder / Logger / Level Gauge Manometer	Using Digital Pressure Gauge and Pressure Calibrator using Pneumatic Comparator pump by Comparison method as per DKD-R 6-1	0 bar to 2 bar	0.0006 bar
377	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Pneumatic Pressure Gauge / Calibrator / Transducer / Transmitter / Switch / Compound Gauge/ Indicator/ Manometer/ Controller/ Recorder / Logger/ Modules	Digital Pressure Gauge, Pressure Calibrator using Comparator Pump by Comparison method as per DKD-R 6-1	0 bar to 20 bar	0.006 bar
378	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Pneumatic : Vacuum Gauge / Calibrator / Transducer / Transmitter / Switch Compound Gauge / Indicator / Manometer / Controller / Recorder / Logger / Modules	Using Digital Pressure Calibrator and Pressure Calibrator by Comparison method as per DKD-R 6-1	(-) 950 mbar to 0 mbar	0.13 mbar



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379	MECHANICAL-TORQUE GENERATING DEVICES	Torque Generating Devices (Torque Wrench, Torque Screw Driver) Type I (Class B, C, D, E) Type II (Class A, B, D, E)	Using Digital Torque Transducer with Indicator using computerized Torque Wrench Tester, based on ISO 6789-1 & 2:2017	0 Nm to 2 Nm	0.46% rdg
380	MECHANICAL-TORQUE GENERATING DEVICES	Torque Generating Devices (Torque Wrench, Torque Screw Driver) Type I (Class B, C, D, E) Type II (Class A, B, D, E)	Using Digital Torque Transducer with Indicator using computerized Torque Wrench Tester, based on ISO 6789-1 & 2:2017	1000 Nm to 3000 Nm	0.65% rdg
381	MECHANICAL-TORQUE GENERATING DEVICES	Torque Generating Devices (Torque Wrench, Torque Screw Driver) Type I (Class B, C, D, E) Type II (Class A, B, D, E)	Using Digital Torque Transducer with Indicator using computerized Torque Wrench Tester, based on ISO 6789-1 & 2:2017	2 Nm to 10 Nm	1.38% rdg
382	MECHANICAL-TORQUE GENERATING DEVICES	Torque Generating Devices (Torque Wrench, Torque Screw Driver) Type I (Class B, C, D, E) Type II (Class A, B, D, E)	Using Digital Torque Transducer with Indicator using computerized Torque Wrench Tester, based on ISO 6789 - 1& 2:2017	200 Nm to 1000 Nm	0.47% rdg



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383	MECHANICAL-TORQUE GENERATING DEVICES	Torque Generating Devices (Torque Wrench, Torque Screw Driver) Type I (Class B, C, D, E) Type II (Class A, B, D, E)	Using Digital Torque Transducer with Indicator using computerized Torque Wrench Tester, based on ISO 6789-1 & 2:2017	5 Nm to 50 Nm	1% rdg
384	MECHANICAL-TORQUE GENERATING DEVICES	Torque Generating Devices (Torque Wrench, Torque Screw Driver) Type I (Class B, C, D, E) Type II (Class A, B, D, E)	Using Digital Torque Transducer with Indicator using computerized Torque Wrench Tester, based on ISO 6789-1 & 2:2017	50 Nm to 200 Nm	0.41% rdg
385	MECHANICAL-VOLUME	Bulk Density Cylinder	Using Electronic Balance, Readability: 100 mg by Gravimetric method as per JRPM-VOL-L03-D014	3000 ml to 15000 ml	1.7ml
386	MECHANICAL-VOLUME	Burette / Pycnometer	Using Electronic Semi Micro Balance Readability: 0.01 mg Gravimetric method ISO 4787 / ISO 3507	1 ml to 10 ml	7.4µl
387	MECHANICAL-VOLUME	Burette / Pycnometer	Using Electronic Semi Micro Balance Readability: 0.01 mg Gravimetric method ISO 4787 / ISO 3507	10 ml to 50 ml	7.4µl



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388	MECHANICAL-VOLUME	Burette / Pycnometer	Using Electronic Semi Micro Balance Readability: 0.01 mg Gravimetric method ISO 4787 / ISO 3507	50 ml to 100 ml	10.1 $\mu$ l
389	MECHANICAL-VOLUME	Measuring Cylinder, Measuring Jar	Using Electronic Weighing Balance, Readability: 0.01 mg by Gravimetric method as per ISO 4787	1 ml to 10 ml	2 $\mu$ l
390	MECHANICAL-VOLUME	Measuring Cylinder, Measuring Jar	Using Electronic Weighing Balance, Readability: 0.01 mg by Gravimetric method as per ISO 4787	10 ml to 50 ml	7.4 $\mu$ l
391	MECHANICAL-VOLUME	Measuring Cylinder, Measuring Jar	Using Electronic Weighing Balance, Readability: 1 mg by Gravimetric method as per ISO 4787	100 ml to 1000 ml	0.05 ml
392	MECHANICAL-VOLUME	Measuring Cylinder, Measuring Jar	Using Electronic Weighing Balance, Readability: 1 mg by Gravimetric method as per ISO 4787	1000 ml to 2000 ml	0.05ml



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393	MECHANICAL-VOLUME	Measuring Cylinder, Measuring Jar	Using Electronic Weighing Balance, Readability: 100 mg by Gravimetric method as per ISO 4787	2000 ml to 5000 ml	1.64 ml
394	MECHANICAL-VOLUME	Measuring Cylinder, Measuring Jar	Using Electronic Weighing Balance, Readability: 0.01 mg by Gravimetric method as per ISO 4787	50 ml to 100 ml	10.1 µl
395	MECHANICAL-VOLUME	Measuring Cylinder, Measuring Jar	Using Electronic Weighing Balance, Readability: 100 mg by Gravimetric method as per ISO 4787	5000 ml to 10000 ml	1.64ml
396	MECHANICAL-VOLUME	Measuring Jar	Using Electronic Balance, Readability: 100 mg by Gravimetric method as per JRPM-VOL-L03-D013	10000 ml to 25000 ml	1.7ml
397	MECHANICAL-VOLUME	Micropipette	Using Electronic Micro Balance, Readability: 0.001 mg by Gravimetric method as per ISO 8655 Part 6	1 µl to 10 µl	0.03µl





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398	MECHANICAL-VOLUME	Micropipette	Using Electronic Micro Balance, Readability: 0.01 mg for 100 micro litre by Gravimetric method as per ISO 8655 Part 6	10 µl to 100 µl	0.52µl
399	MECHANICAL-VOLUME	Micropipette	Using Electronic Micro Balance, Readability: 0.001 mg by Gravimetric method as per ISO 8655 Part 6	100 µl to 1000 µl	4.13µl
400	MECHANICAL-VOLUME	Micropipette	Using Electronic Semi Micro Balance, Readability: 0.01 mg by Gravimetric method as per ISO 8655 Part 6	1000 µl to 5000 µl	4.13µl
401	MECHANICAL-VOLUME	Micropipette	Using Electronic Semi Micro Balance, Readability: 0.01 mg by Gravimetric method as per ISO 8655 Part 6	5000 µl to 10000 µl	6µl
402	MECHANICAL-VOLUME	Pipette	Using Electronic Semi Micro Balance, Readability: 0.01 mg by Gravimetric method as per ISO 4787	0.1 ml to 1 ml	1.7µl



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403	MECHANICAL-VOLUME	Pipette	Using Electronic Semi Micro Balance, Readability: 0.01 mg by Gravimetric method as per ISO 4787	1 ml to 10 ml	7.4 $\mu$ l
404	MECHANICAL-VOLUME	Pipette	Using Electronic Semi Micro Balance, Readability: 0.01 mg by Gravimetric method as per ISO 4787	10 ml to 25 ml	7.4 $\mu$ l
405	MECHANICAL-VOLUME	Pipette	Using Electronic Semi Micro Balance, Readability: 0.01 mg by Gravimetric method as per ISO 4787	25 ml to 50 ml	10.1 $\mu$ l
406	MECHANICAL-VOLUME	Pipette	Using Electronic Semi Micro Balance, Readability: 0.01 mg by Gravimetric method as per ISO 4787	50 ml to 100 ml	10.1 $\mu$ l
407	MECHANICAL-VOLUME	Volumetric Flask / Le Chatlier Flask / Standard Flask / Conical Flask / Beaker	Using Electronic Weighing Balance, Readability: 0.01 mg by Gravimetric method as per ISO 4787	1 ml to 10 ml	7.4 $\mu$ l



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408	MECHANICAL-VOLUME	Volumetric Flask / Le Chatlier Flask / Standard Flask / Conical Flask / Beaker	Using Electronic Weighing Balance, Readability: 0.01 mg by Gravimetric method as per ISO 4787	10 ml to 50 ml	10.1µl
409	MECHANICAL-VOLUME	Volumetric Flask / Le Chatlier Flask / Standard Flask / Conical Flask / Beaker	Using Electronic Weighing Balance, Readability: 1 mg by Gravimetric method as per ISO 4787	1000 ml to 2000 ml	0.05 ml
410	MECHANICAL-VOLUME	Volumetric Flask / Le Chatlier Flask / Standard Flask / Conical Flask / Beaker	Using Electronic Weighing Balance, Readability: 1 mg by Gravimetric method as per ISO 4787	200 ml to 500 ml	0.04ml
411	MECHANICAL-VOLUME	Volumetric Flask / Le Chatlier Flask / Standard Flask / Conical Flask / Beaker	Using Electronic Weighing Balance, Readability: 100 mg by Gravimetric method as per ISO 4787	2000 ml to 5000 ml	0.075ml
412	MECHANICAL-VOLUME	Volumetric Flask / Le Chatlier Flask / Standard Flask / Conical Flask / Beaker	Using Electronic Weighing Balance, Readability: 1 mg by Gravimetric method as per ISO 4787	50 ml to 200 ml	11 µl



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413	MECHANICAL-VOLUME	Volumetric Flask / Le Chatlier Flask / Standard Flask / Conical Flask / Beaker	Using Electronic Weighing Balance, Readability: 1 mg by Gravimetric method as per ISO 4787	500 ml to 1000 ml	0.05ml
414	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance	Using Differential denominations of Newton weights as per VDI / VDE 2624 Part 2.1	500 N to 2000 N	3.06N
415	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance	Using Differential denominations of Newton weights as per VDI / VDE 2624 Part 2.1	Up to 500 N	0.22 N
416	MECHANICAL-WEIGHTS	Mass - Weights (Calibration of weights of Class E1 accuracy and coarser)	Using E1 Class Standard weights and Electronic Precision Balance as per OIML R 111 by Subdivision & Substitution methods through ABBA Cycles	1 g	0.003mg



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417	MECHANICAL-WEIGHTS	Mass - Weights (Calibration of weights of Class E1 accuracy and coarser)	Using E1 Class Standard weights and Electronic Precision Balance as per OIML R 111 by Subdivision & Substitution methods through ABBA Cycles	1 mg	0.001mg
418	MECHANICAL-WEIGHTS	Mass - Weights (Calibration of weights of Class E1 accuracy and coarser)	Using E1 Class Standard weights and Electronic Precision Balance as per OIML R 111 by Subdivision & Substitution methods through ABBA Cycles	10 mg	0.001mg
419	MECHANICAL-WEIGHTS	Mass - Weights (Calibration of weights of Class E1 accuracy and coarser)	Using E1 Class Standard weights and Electronic Precision Balance as per OIML R 111 by Subdivision & Substitution methods through ABBA Cycles	100 mg	0.002mg



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420	MECHANICAL-WEIGHTS	Mass - Weights (Calibration of weights of Class E1 accuracy and coarser)	Using E1 Class Standard weights and Electronic Precision Balance as per OIML R 111 by Subdivision & Substitution methods through ABBA Cycles	2 g	0.004mg
421	MECHANICAL-WEIGHTS	Mass - Weights (Calibration of weights of Class E1 accuracy and coarser)	Using E1 Class Standard weights and Electronic Precision Balance as per OIML R 111 by Subdivision & Substitution methods through ABBA Cycles	2 mg	0.001mg
422	MECHANICAL-WEIGHTS	Mass - Weights (Calibration of weights of Class E1 accuracy and coarser)	Using E1 Class Standard weights and Electronic Precision Balance as per OIML R 111 by Subdivision & Substitution methods through ABBA Cycles	20 g	0.007mg



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423	MECHANICAL-WEIGHTS	Mass - Weights (Calibration of weights of Class E1 accuracy and coarser)	Using E1 Class Standard weights and Electronic Precision Balance as per OIML R 111 by Subdivision & Substitution methods through ABBA Cycles	20 mg	0.001mg
424	MECHANICAL-WEIGHTS	Mass - Weights (Calibration of weights of Class E1 accuracy and coarser)	Using E1 Class Standard weights and Electronic Precision Balance as per OIML R 111 by Subdivision & Substitution methods through ABBA Cycles	200 g	0.03mg
425	MECHANICAL-WEIGHTS	Mass - Weights (Calibration of weights of Class E1 accuracy and coarser)	Using E1 Class Standard weights and Electronic Precision Balance as per OIML R 111 by Subdivision & Substitution methods through ABBA Cycles	200 mg	0.002mg



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426	MECHANICAL-WEIGHTS	Mass - Weights (Calibration of weights of Class E1 accuracy and coarser)	Using E1 Class Standard weights and Electronic Precision Balance as per OIML R 111 by Subdivision & Substitution methods through ABBA Cycles	5 mg	0.001mg
427	MECHANICAL-WEIGHTS	Mass - Weights (Calibration of weights of Class E1 accuracy and coarser)	Using E1 Class Standard weights and Electronic Precision Balance as per OIML R 111 by Subdivision & Substitution methods through ABBA Cycles	50 g	0.01mg
428	MECHANICAL-WEIGHTS	Mass - Weights (Calibration of Weights of Class E1 accuracy and coarser)	Using E1 Class Standard weights and Electronic Precision Balance as per OIML R 111 by Subdivision & Substitution methods through ABBA Cycles	50 mg	0.001mg





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429	MECHANICAL-WEIGHTS	Mass - Weights (Calibration of weights of Class E1 accuracy and coarser)	Using E1 Class Standard weights and Electronic Precision Balance as per OIML R 111 by Subdivision & Substitution methods through ABBA Cycles	500 mg	0.002mg
430	MECHANICAL-WEIGHTS	Mass - Weights (Calibration of weights of Class E2 accuracy and coarser)	Using E1 Class Standard weights and Electronic Precision Balance as per OIML R 111 by Subdivision & Substitution methods through ABBA Cycles	10 g	0.007mg
431	MECHANICAL-WEIGHTS	Mass - Weights (Calibration of weights of Class E2 accuracy and coarser)	Using E1 Class Standard weights and Electronic Precision Balance as per OIML R 111 by Subdivision & Substitution methods through ABBA Cycles	100 g	0.02mg



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432	MECHANICAL-WEIGHTS	Mass - Weights (Calibration of weights of Class E2 accuracy and coarser)	Using E1 Class Standard weights and Electronic Precision Balance as per OIML R 111 by Subdivision & Substitution methods through ABBA Cycles	5 g	0.006mg
433	MECHANICAL-WEIGHTS	Mass - Weights (Calibration of weights of Class E2 accuracy and coarser)	Using E1 Class Standard Weights; Electronic Precision Balance as per OIML R 111	5 kg	1.69mg
434	MECHANICAL-WEIGHTS	Mass - Weights (Calibration of weights of Class F1 accuracy and coarser)	Using E1 Class Standard Weights; Electronic Precision Balance as per OIML R 111	1 kg	0.9mg
435	MECHANICAL-WEIGHTS	Mass - Weights (Calibration of weights of Class F1 accuracy and coarser)	Using E1 Class Standard Weights; Electronic Precision Balance as per OIML R 111	2 kg	1.0mg
436	MECHANICAL-WEIGHTS	Mass - Weights (Calibration of weights of Class F1 accuracy and coarser)	Using E2 Class Standard weights and Electronic Precision Balance as per OIML R 111	500 g	0.82mg



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437	MECHANICAL-WEIGHTS	Mass - Weights (Calibration of weights of Class F2 accuracy and coarser)	Using E2 & F1 Class Standard Weights and Electronic Precision Balance as per OIML R 111	20 kg	100mg
438	MECHANICAL-WEIGHTS	Mass - Weights (Calibration of weights of Class M1 accuracy and coarser)	Using E2 Class Standard weights and Electronic Precision Balance as per OIML R 111	10 kg	85mg
439	OPTICAL-OPTICAL	Illuminance Meter / Lux Meter / Light Meter	Using Standard Luminous Intensity lamp and V - Lambda & Cosine corrected Photometer (Detector based Photometry) by Comparison Method	1 lx to 1000 lx	2.7%
440	OPTICAL-OPTICAL	Illuminance Meter / Lux Meter / Light Meter	Using V - Lambda and Cosine corrected Photometer (Detector based Photometry) by Comparison Method	1000 lx to 50,000 lx	2.7%



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441	OPTICAL- OPTICAL	Illuminance Meter / Lux Meter / Light Meter	Using V - Lambda and Cosine corrected Photometer (Detector based Photometry) by Comparison Method	50000 lx to 200000 lx	2.7%
442	OPTICAL- OPTICAL	Luminous Intensity of Light Source	Using V - Lambda and Cosine corrected Photometer (Detector based Photometry) by Comparison Method	1 cd to 1200 cd	2.54 %
443	THERMAL- SPECIFIC HEAT & HUMIDITY	Analog / Digital Hygrometers, Digital Temperature / Humidity Indicators, Humidity Meters, Thermo Hygrographs, Temperature Humidity Sensors / Probes / Data Loggers / Transmitters (@ 10°C)	Using Temperature & Humidity Indicator with sensor and Temperature & Humidity Generator, DMM by Comparison Method	30 %RH to 95 %RH	1.24 %RH



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444	THERMAL-SPECIFIC HEAT & HUMIDITY	Analog / Digital Hygrometers, Digital Temperature / Humidity Indicators, Humidity Meters, Thermo Hygrographs, Temperature Humidity Sensors / Probes / Data Loggers / Transmitters (@ 25°C to 60°C)	Using Temperature & Humidity Indicator with sensor and Temperature & Humidity Generator, DMM by Comparison Method	10 %RH to 95 %RH	1.24%RH
445	THERMAL-SPECIFIC HEAT & HUMIDITY	Analog / Digital Hygrometers, Digital Temperature / Humidity Indicators, Humidity Meters, Thermo Hygrographs, Temperature Humidity Sensors / Probes / Data Loggers / Transmitters (@ 50%RH)	Using Temperature & Humidity Indicator with sensor and Temperature & Humidity Generator & PRT, DMM with Indicator by Comparison Method	5 °C to 60 °C @ 50 %RH	0.17 °C



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446	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator / Controller with Sensor of Environmental Chamber, Humidity Chamber and Climatic Chamber (@ 10 °C) (Multi Point Calibration)	Using Temperature & Humidity Indicator with sensor by Comparison Method	30 %RH to 95 %RH	2 %RH
447	THERMAL-TEMPERATURE	Black Body Source	Using Standard Pyrometer by Comparison Method	1200 °C to 1700 °C	3.66°C
448	THERMAL-TEMPERATURE	Black Body Source	Using Standard Pyrometer by Comparison Method	50 °C to 500 °C	1.06°C
449	THERMAL-TEMPERATURE	Black Body Source	Using Standard Pyrometer by Comparison Method	500 °C to 950 °C	3.4°C
450	THERMAL-TEMPERATURE	Black Body Source	Using Standard Pyrometer by Comparison Method	950 °C to 1200 °C	3.4°C



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451	THERMAL-TEMPERATURE	Contact Type Sensor (RTD & Thermocouple, Temperature Indicator / Controller/Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter)	Using 4 wire RTD sensor with indicator & Liquid Nitrogen (LN2) Apparatus by Comparison Method	- 196 °C	0.1°C
452	THERMAL-TEMPERATURE	Contact Type Sensor (RTD & Thermocouple, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter)	Using SSPRT and 8½ Digital Multimeter, Liquid Bath by Comparison Method	0 °C to 125 °C	0.04°C



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453	THERMAL-TEMPERATURE	Contact Type Sensor (RTD & Thermocouple, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter)	Using SSPRT and 8½ Digital Multimeter, Field Metrology Well, Dry Block Calibrator by Comparison Method	400 °C to 650 °C	0.10°C
454	THERMAL-TEMPERATURE	Contact Type Sensor (RTD & Thermocouple, Temperature Indicator/ Controller/ Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter)	Using SSPRT and 8½ Digital Multimeter/ MultiFunction Calibrator, Field Metrological Well / Dry Block Calibrator By Comparison Method	125 °C to 400 °C	0.07 °C





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455	THERMAL-TEMPERATURE	Contact Type Sensor (RTD Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter)	Using SSPRT and 8½ Digital Multimeter, Liquid Bath by Comparison Method	- 80 °C to - 30 °C	0.09°C
456	THERMAL-TEMPERATURE	Contact Type Sensor (RTD, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter)	Using SSPRT and 8½ Digital Multimeter, Liquid Bath by Comparison Method	-30 °C to 0 °C	0.09°C
457	THERMAL-TEMPERATURE	Contact Type Sensor (Thermocouple, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter)	Using "S"-Type Thermocouple with Indicator, Dry Block Calibrator by Comparison Method	650 °C to 1200 °C	1.66°C



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458	THERMAL-TEMPERATURE	Liquid bath, Low & High Temperature Bath (Single Position calibration)	Using SSPRT, 8½ Digital Multimeter by Comparison Method	-30 °C to 125 °C	0.09°C
459	THERMAL-TEMPERATURE	Liquid bath, Low & High Temperature Bath (Single Position Calibration)	Using SSPRT, 8½ Digital Multimeter by Comparison Method	-80 °C to -30 °C	0.09°C
460	THERMAL-TEMPERATURE	Liquid bath, Low & High Temperature Bath, Dry Block Calibrators	Using SSPRT, Thermocouple (S-Type), DMM, Multi-function Calibrator / Temperature indicator by Comparison Method	125 °C to 650 °C	0.06 °C
461	THERMAL-TEMPERATURE	Liquid in Glass Thermometers	Using SSPRT, Liquid bath & (8½) DMM by Comparison Method	100 °C to 250 °C	0.07 °C
462	THERMAL-TEMPERATURE	Liquid in Glass Thermometers	Using SSPRT, Liquid bath & (8½) DMM by Comparison Method	25 °C to 100 °C	0.07°C
463	THERMAL-TEMPERATURE	Liquid in Glass Thermometers	Using SSPRT, Liquid bath & (8½) DMM by Comparison Method	-30 °C to 25 °C	0.11°C
464	THERMAL-TEMPERATURE	Liquid in Glass Thermometers	Using SSPRT, Liquid bath & 8½ Digital Multimeter by Comparison Method	-80 °C to -30 °C	0.11°C



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465	THERMAL-TEMPERATURE	Low & High Temperature Bath, Dry Block Calibrators (Single Position Calibration)	Using "S"-Type Thermocouple with Indicator by Comparison Method	650 °C to 1200 °C	1.56°C
466	THERMAL-TEMPERATURE	Non- Contact Type (IR Thermometers, Non-contact Thermometer, Pyrometers ,Thermal Imaging Camera)	Using Standard Pyrometer and Black Body Source by Comparison Method	950 °C to 1200 °C	2.02°C
467	THERMAL-TEMPERATURE	Non- Contact Type (IR Thermometers, Non-contact Thermometer, Pyrometers, Thermal Imaging Camera)	Using Standard IR Thermometer/ Pyrometer and Black Body Source by Comparison Method	400 °C to 500 °C	1.66 °C
468	THERMAL-TEMPERATURE	Non- Contact Type (IR Thermometers, Non-contact Thermometer, Pyrometers, Thermal Imaging Camera)	Using Standard IR Thermometer/ Pyrometer and Black Body Source by Comparison Method	50 °C to 400 °C	1.06°C
469	THERMAL-TEMPERATURE	Non- Contact Type (IR Thermometers, Non-contact Thermometer, Pyrometers,Thermal Imaging Camera)	Using Standard Pyrometer and Black Body Source by Comparison Method	1200 °C to 1700 °C	3.65°C



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470	THERMAL-TEMPERATURE	Non- Contact Type (IR Thermometers, Non-contact Thermometer, Pyrometers,Thermal Imaging Camera)	Using Standard Pyrometer and Black Body Source by Comparison Method	500 °C to 950 °C	3.4°C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (@ 10 Hz to 1 KHz)	Using 6 ½ Digital Multimeter by Direct Method	100 µA to 100 mA	0.25 % to 0.16 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (@ 10 Hz to 1 kHz)	Using 6 ½ Digital Multimeter by Direct Method	30 µA to 100 µA	0.4 % to 0.25 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (@ 50 Hz to 1 KHz)	Using 6 ½ Digital Multimeter by Direct Method	1 A to 10 A	0.16 % to 0.3 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (@ 50 Hz to 1 KHz)	Using 6 ½ Digital Multimeter by Direct Method	100 mA to 1 A	0.16%



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (@ 50 Hz)	Using 6½ Digital Multimeter with shunt by V/I Method	10 A to 150 A	1.19%
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (@50 Hz)	Using 6½ Digital Multimeter with shunt by V/I Method	150 A to 1000 A	1.18%
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage	Using High Voltage Probe with Digital Multimeter by Direct Method	1 kV to 28 kV	6 % to 2.8 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance @1 kHz (Source with LCR Meter)	Using LCR Meter by Direct Method / Comparison Method	10 mohm to 100 ohm	0.25 % to 0.25 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (@ 45 Hz to 1 kHz)	Using 6½ Digital Multimeter by Direct Method	100 mV to 10 V	0.12 % to 0.12 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (@ 45Hz to 1 kHz)	Using 6½ Digital Multimeter by Direct Method	1 mV to 100 mV	4.68 % to 0.12 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (@ 45Hz to 1 kHz)	Using 6½ Digital Multimeter by Direct Method	10 V to 1000 V	0.11 % to 0.097 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (@ 45Hz to 10kHz)	Using 6½ Digital Multimeter by Direct Method	100 mV to 1000 V	0.12 % to 0.098 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (@1 kHz) (Source with LCR meter)	Using LCR Meter by Direct Method/ Comparison Method	10 pF to 100 pF	0.35%
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @1 kHz (Source with LCR meter)	Using LCR Meter by Direct Method/Comparison Method	1 µF to 10 µF	0.23%



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @1 kHz (Source with LCR meter)	Using LCR Meter by Direct Method/ Comparison Method	10 nF to 1 µF	0.23%
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @1 kHz (Source with LCR meter)	Using LCR Meter by Direct Method/Comparison Method	100 pF to 10 nF	0.35 % to 0.23 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @100 Hz (Source with LCR meter)	Using LCR Meter by Direct Method / Comparison Method	1 µF to 10 µF	0.24%
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance (@1 kHz) (Source with LCR Meter)	Using LCR Meter by Direct Method / Comparison Method	100 µH to 10 H	0.46 % to 0.24 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (@1 kHz to 10 kHz)	Using Multi Product Calibrator by Direct Method	19 mA to 3 A	0.25 % to 3.08 %





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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (@45 Hz to 1 kHz)	Using Multi Product Calibrator by Direct Method	1 mA to 10 A	0.096 % to 0.14 %
21	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	0.096 % to 0.2 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (@45 Hz to 1 kHz)	Using Multi Product Calibrator by Direct Method	100 µA to 1 mA	0.26 % to 0.13 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (@45 Hz to 1 kHz)	Using Multi Product Calibrator by Direct Method	30 µA to 100 µA	0.53 % to 0.26 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (@50 Hz)	Using Fluke 5522A Calibrator with 50 Turns Current Coil by Direct Method	10 A to 1000 A	0.33 % to 0.33 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power (120 V to 240 V / 0.01 A to 20A) 50 Hz @ UPF	Using Multi Product Calibrator by Direct Method	1.2 W to 4.8 kW	0.12%



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26	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power (120 V to 240 V / 0.1 A to 20 A) 50 Hz @ 0.2 Lead/Lag	Using Multi Product Calibrator by Direct Method	2.4 W to 960 W	1.2%
27	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power (120 V to 240 V / 0.1 A to 20 A) 50 Hz @ 0.5 Lead/Lag	Using Multi Product Calibrator by Direct Method	6 W to 2.4 kW	0.37%
28	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power (120 V to 240 V / 0.1 A to 20 A) 50 Hz @ 0.8 Lead/Lag	Using Multi Product Calibrator by Direct Method	9.6 W to 3.8 kW	0.16%
29	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (@1 kHz to 50 kHz )	Using Multi Product Calibrator by Direct Method	1 V to 10 V	0.027 % to 0.048 %
30	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (@1 kHz to 50 kHz )	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.036 % to 0.056 %
31	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (@10 Hz to 45 Hz)	Using Multi Product Calibrator by Direct Method	1 V to 10 V	0.047 % to 0.043 %



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32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (@10 Hz to 45 Hz)	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.051 % to 0.047 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (@45 Hz to 1 kHz)	Using Multi Product Calibrator by Direct Method	1 mV to 100 mV	0.72 % to 0.036 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (@45 Hz to 1 kHz)	Using Multi Product Calibrator by Direct Method	1 V to 1000 V	0.025 % to 0.038 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (@45 Hz to 1 kHz)	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.036 % to 0.025 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (@50 kHz to 450 kHz)	Using Multi Product Calibrator by Direct Method	30 mV to 3 V	1.12 % to 0.037 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (@1 kHz)	Decade Capacitance Box by Direct Method	1 nF to 300 nF	0.62 % to 0.62 %



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38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (@1 kHz)	Decade Capacitance Box by Direct Method	100 pF to 220 pF	0.66%
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (@1 kHz)	Decade Capacitance Box by Direct Method	220 pF to 1 nF	0.66 % to 0.66 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (@1 kHz)	Decade Capacitance Box by Direct Method	300 nF to 10 µF	0.63%
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (@100 Hz)	Using Multi Product Calibrator by Direct Method	1 nF to 700 nF	1.73% % to 0.46 %
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (@100 Hz)	Using Multi Product Calibrator by Direct Method	10 µF to 109 µF	0.41 % to 0.63 %
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (@100 Hz)	Using Multi Product Calibrator by Direct Method	700 nF to 10 µF	0.46 % to 0.41 %



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44	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance (@1 kHz)	Using Decade Inductance Box by Direct Method	100 µH to 10 H	0.69 % to 0.74 %
45	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor / Phase angle	Using Multi Product Calibrator by Direct Method	0.2 PF to 1 PF lead/lag	0.002 PF to 0.001 PF
46	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digital Multimeter by Direct Method	1 A to 10 A	0.082 % to 0.19 %
47	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digital Multimeter by Direct Method	10 µA to 100 µA	0.35 % to 0.088 %
48	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter with shunt by V/I Method	10 A to 150 A	1.03%
49	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digital Multimeter by Direct Method	100 µA to 1 A	0.09 % to 0.086 %



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50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter with shunt by V/I Method	150 A to 1000 A	1.03%
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Probe with Digital Multimeter by Direct Method	1 kV to 20 kV	3.56 % to 1.97 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Probe with Digital Multimeter by Direct Method	20 kV to 40 kV	1.97%
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	0.1 mV to 1 mV	4.04 % to 0.4 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 mV to 100 mV	0.4 % to 0.008 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 V to 1000 V	0.004 % to 0.006 %



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56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	100 mV to 1 V	0.008 % to 0.004 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital Multimeter by Direct Method	0.1 ohm to 1 ohm	3.67 % to 0.36 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital Multimeter by Direct Method	1 ohm to 10 kilo-ohm	0.36 % to 0.013 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital Multimeter by Direct Method	10 kilo-ohm to 100 mega-ohm	0.01 % to 0.93 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 6½ Digital Multimeter by Direct Method	100 mega-ohm to 1 giga-ohm	0.93 % to 2.32 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	1 A to 20 A	0.028 % to 0.12 %



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62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	10 $\mu$ A to 100 $\mu$ A	0.25 % to 0.04 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with 50 Turns Current Coil by Direct Method	10 A to 1000 A	0.30 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	10 mA to 1 A	0.015 % to 0.028 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	100 $\mu$ A to 10 mA	0.04 % to 0.015 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (10V to 1000V / 10mA to 20A)	Using Multi Product Calibrator by Direct Method	100 mW to 20 kW	0.024 % to 0.081 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	0.1 mV to 1 mV	1.17 % to 0.12 %





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68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 mV to 10 mV	0.12 % to 0.014 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 V to 1000 V	0.0017 % to 0.0024 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.014 % to 0.004 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.0036 % to 0.002 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct Method	0.01 ohm to 1 ohm	0.065 % to 0.0076 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Megaohm Box by Direct Method	1 Gohm to 100 Gohm	0.59 % to 1.6 %



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74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct Method	1 kohm to 100 kohm	0.0034 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct Method	1 Mega-ohm to 100 Mega-ohm	0.0042 % to 0.059 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Megaohm Box by Direct Method	1 Mohm to 100 Mohm	0.58 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct Method	1 ohm to 100 ohm	0.0076 % to 0.0034 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	1 ohm to 100 ohm	0.024 %
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	10 milli-ohm to 1 ohm	1.16 % to 0.024 %



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80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Megaohm Box by Direct Method	100 giga-ohm to 1000 giga-ohm	1.6 % to 3.61 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct Method	100 kilo-ohm to 1 Mega-ohm	0.0034 % to 0.0042 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance box / Decade Megaohm Box by Direct Method	100 kohm to 1 Mohm	0.012 % to 0.58 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct Method	100 Mega-ohm to 1000 Mega-ohm	0.059 % to 1.73 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Megaohm Box by Direct Method	100 Mohm to 1 Gohm	0.59 %
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multi Product Calibrator by Direct Method	100 ohm to 1 kohm	0.0034 %



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86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by Direct Method	100 ohm to 100 kilo-ohm	0.024 % to 0.012 %
87	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope AC Amplitude (Vertical Axis Deflection Factor) (@1 kHz) - (1 mohm)	Using Multi Product Calibrator by Direct Method	1 mV to 130 V	4.43% % to 0.13 %
88	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope DC Amplitude (Vertical Axis Deflection Factor) - (1 mega-ohm)	Using Multi Product Calibrator by Direct Method	1 mV to 130 V	4.7 % to 0.06 %
89	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope-Bandwidth (at 50 kHz)	Using Multi Product Calibrator by Direct Method	Up to 1 GHz	6%
90	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope- Time Base	Using Multi Product Calibrator by Direct Method	1 ns to 5 s	0.03 % to 0.24 %
91	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B-Type Thermocouple (By Electrical Measurement Method)	Using Digital Multimeter by Direct Method	600 °C to 1800 °C	0.020°C



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92	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E-Type Thermocouple (By Electrical Measurement Method)	Using Digital Multimeter by Direct Method	-250 °C to 1000 °C	0.009°C
93	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J-Type Thermocouple (By Electrical Measurement Method)	Using Digital Multimeter by Direct Method	-200 °C to 1200 °C	0.013°C
94	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K-Type Thermocouple (By Electrical Measurement Method)	Using Digital Multimeter by Direct Method	-200 °C to 1300 °C	0.018°C
95	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N-Type Thermocouple (By Electrical Measurement Method)	Using Digital Multimeter by Direct Method	-200 °C to 1300 °C	0.012°C
96	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R-Type Thermocouple (By Electrical Measurement Method)	Using Digital Multimeter by Direct Method	0 °C to 1750 °C	0.025°C
97	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (By Electrical Measurement Method)	Using Digital Multimeter by Direct Method	-200 °C to 800 °C	0.015°C



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98	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S-Type Thermocouple (By Electrical Measurement Method)	Using Digital Multimeter by Direct Method	0 °C to 1750 °C	0.022°C
99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T-Type Thermocouple (By Electrical Measurement Method)	Using Digital Multimeter by Direct Method	-250 °C to 400 °C	0.007°C
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	U-Type Thermocouple (By Electrical Measurement Method)	Using Digital Multimeter by Direct Method	-200 °C to 600 °C	0.011°C
101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B-Type Thermocouple (Indicator, Controller, Recorder) - By Electrical Simulation Method	Using Multi Product Calibrator / Multi Function Calibrator by Direct Method	600 °C to 1820 °C	0.13°C
102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E-Type Thermocouple (Indicator, Controller, Recorder) - By Electrical Simulation Method	Using Multi Product Calibrator / Multi function calibrator by Direct Method	-200 °C to 1000 °C	0.040°C



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103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type Thermocouple (Indicator, Controller, Recorder) - By Electrical Simulation Method	Using Multi Product Calibrator / Multi Function Calibrator by Direct Method	-200 °C to 1200 °C	0.06°C
104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K-Type Thermocouple (Indicator, Controller, Recorder) - By Electrical Simulation Method	Using Multi Product Calibrator / Multi Function Calibrator by Direct Method	-200 °C to 1372 °C	0.060°C
105	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N-Type Thermocouple (Indicator, Controller, Recorder) - By Electrical Simulation Method	Using Multi Product Calibrator / Multi-Function Calibrator by Direct Method	-200 °C to 1300 °C	0.060°C
106	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R-Type Thermocouple (Indicator, Controller, Recorder) - By Electrical Simulation Method	Using Multi Product Calibrator / Multi-Function Calibrator by Direct Method	5 °C to 1767 °C	0.17°C
107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Indicator, Controller, Recorder) - By Electrical Simulation Method	Using Multi Product Calibrator / Multi-Function Calibrator by Direct Method	-200 °C to 800 °C	0.05°C



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108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S-Type Thermocouple (Indicator, Controller, Recorder) - By Electrical Simulation Method	Using Multi Product Calibrator / Multi-Function Calibrator by Direct Method	5 °C to 1767 °C	0.15°C
109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-Type Thermocouple (Indicator, Controller, Recorder) - By Electrical Simulation Method	Using Multi Product Calibrator / Multi-Function Calibrator by Direct Method	-250 °C to 400 °C	0.030°C
110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	U-Type Thermocouple (Indicator, Controller, Recorder) - By Electrical Simulation Method	Using Multi Product Calibrator / Multi-Function Calibrator by Direct Method	-200 °C to 600 °C	0.03°C
111	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct Method	3 Hz to 300 kHz	0.058 % to 0.012 %
112	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct Method	300 kHz to 1000 kHz	0.012 % to 0.013 %





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113	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Stop Watch	Using Time Interval Meter/ Time Totalizer by Direct/ Comparison method	1 s to 86400 s	0.011 s to 0.042 s
114	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer	Using Time Interval Meter / Time Totalizer by Direct / Comparison method	0.1 s to 60 s	0.009 s to 0.042 s
115	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer	Using Time Interval Meter / Time Totalizer by Direct / Comparison method	1800 s to 3600 s	0.058 s to 0.092 s
116	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer	Using Time Interval Meter by Direct / Comparison method	3600 s to 36000 s	0.092 s to 0.23 s
117	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer	Using Time Interval Meter / Time Totalizer by Direct / Comparison method	36000 s to 86400 s	0.23 s to 1.2 s
118	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer	Using Time Interval Meter/ Time Totalizer by Direct / Comparison method:	60 s to 600 s	0.042 s



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119	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer	Using Time Interval Meter / Time Totalizer by Direct / Comparison method	600 s to 1800 s	0.042 s to 0.058 s
120	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	1 Hz to 1000 Hz	0.001 % to 0.0003 %
121	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	100 kHz to 2 MHz	0.0003%
122	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	1000 Hz to 100 kHz	0.0003%
123	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM / Speed (Indicator / Meter /Source)	Using Digital Tachometer by Direct Method (SANS TR 45-02)	10,000 RPM to 50,000 RPM	3RPM
124	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM / Speed (Indicator / Meter /Source)	Using Digital Tachometer by Direct Method (SANS TR 45-02)	15 RPM to 60 RPM	1.6RPM



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125	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM / Speed (Indicator / Meter /Source)	Using Digital Tachometer by Direct Method (SANS TR 45-02)	60 RPM to 10000 RPM	0.71RPM
126	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM / Speed (Indicator/ Meter /Source)	Using Digital Tachometer by Direct Method (SANS TR 45-02)	50,000 RPM to 99,999 RPM	2.7RPM
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Co-axiality)	Using Straight Mandrel & Lever Dial Gauge by Comparison Method	up to (EMAX) 1000 mm	5.5µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Parallelism)	Using Straight Mandrel & Lever Dial Gauge by Comparison Method	Up to (EMAX) 1000 mm	5.5µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Parallelism)	Using Mandrel & Lever Dial Gauge by Comparison method	Up to 300 mm	3.38µm



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130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Co-axiality)	Using Mandrel & Lever Dial Gauge by Comparison method	Up to 300 (EMAX) mm	3.38µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer L.C.: 0.001 mm & Coarser	Using Extensometer Calibration Stand with DRO & Digital Caliper by Comparison method as per ASTM E83 & ISO 9513	upto 5 mm	2.95µm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic Level by Comparison method	upto 3000 x 3000 mm	0.32 * SQRT((L+W)/100)µm (Where L & W in mm)
133	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Linear Height Gauge L.C.: 0.0001 mm & Coarser	Using Long Gauge Block by Comparison method	600 mm to 1000 mm	8.80µm
134	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Linear Height Gauge L.C.: 0.0001 mm & Coarser	Using Check Master by Comparison method	Up to 600 mm	4.2µm



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135	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	3D Co-ordinate Measuring Machine L.C.: 0.0001 mm & Coarser	Using Check Master & Sphere by Comparison method	1000 x 1000 x 1000 mm	3.84+2L $\mu$ m; where L is in meter
136	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine L.C.: 0.0001 mm & Coarser	Using Grade 'K' Gauge Blocks by Comparison method	upto 100 mm	0.50 $\mu$ m
137	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine L.C.: 0.0001 mm & Coarser	Using Grade 'K' Gauge Blocks by Comparison method	100 mm to 500 mm	2.6 $\mu$ m
138	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine L.C.: 0.0001 mm & Coarser	Using Grade 'K' Gauge Blocks by Comparison method	500 mm to 1000 mm	4.4 $\mu$ m
139	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring machine L.C.: 0°01' (Angle)	Using Glass Scales, Glass Protractor & Slip Gauge by Comparison method as per JIS B 7184	upto 360 °	1.84min of arc
140	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine L.C.: 1 $\mu$ m (Linear)	Using Glass Scales, Glass Protractor & Slip Gauge by Comparison method as per JIS B 7184	Upto 300 mm	2.25 $\mu$ m



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141	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine Magnification: 50X	Using Glass Scales, Glass Protractor & Slip Gauge by Comparison method as per JIS B 7184	10 X to 100 X	0.64%
142	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tape & Scale Calibrator L.C.: 0.001 mm & Coarser	Using long Gauge Blocks 'Grade k', Gauge Block Set and LVDT by Comparison method	0 mm to 1000 mm	6.7µm
143	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Blocks by Indirect Method as per IS 1500(Part II) /ISO 6506-2/ ASTM E10	HBW 10/1000	1.35%
144	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Blocks by Indirect Method as per IS 1500(Part II) /ISO 6506-2/ ASTM E10	HBW 10/3000	1.40%
145	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Blocks by Indirect Method as per IS 1500(Part II) /ISO 6506-2/ ASTM E10	HBW 10/500	1.65%
146	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Blocks by Indirect Method as per IS 1500(Part II) /ISO 6506-2/ ASTM E10	HBW 2.5 / 187.5	1.65%



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147	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Blocks by Indirect Method as per IS 1500(Part II) /ISO 6506-2/ ASTM E10	HBW 5/750	1.88%
148	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Blocks by Indirect Method IS 1501(Part II) / ISO 6507-2 / ASTM E384 / ASTM E92	HV 0.2	2.72%
149	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Blocks by Indirect Method IS 1501(Part II) / ISO 6507-2 / ASTM E384 / ASTM E92	HV 0.3	2.65%
150	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Blocks by Indirect Method IS 1501(Part II) / ISO 6507-2 / ASTM E384 / ASTM E92	HV 0.5	2.75%
151	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Blocks by Indirect Method IS 1501(Part II) / ISO 6507-2 / ASTM E384 / ASTM E92	HV 1	1.62%



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152	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Blocks by Indirect Method as per IS 1586 (Part II) / ISO 6508-2 / ASTM E18	HR 15N	0.53HR 15N
153	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Blocks by Indirect Method as per IS 1586 (Part II) / ISO 6508-2 / ASTM E18	HR 30N	0.57HR 30N
154	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Blocks by Indirect Method as per IS 1586 (Part II) / ISO 6508-2 / ASTM E18	HR 45N	0.62HR 45N
155	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Blocks by Indirect Method as per IS 1586 (Part II) / ISO 6508-2 / ASTM E18	HRA	0.54HRA
156	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Blocks by Indirect Method as per IS 1586 (Part II) / ISO 6508-2 / ASTM E18	HRBW	0.55HRBW
157	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Blocks by Indirect Method as per IS 1586 (Part II) / ISO 6508-2 / ASTM E18	HRC	0.48HRC





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158	MECHANICAL-HARDNESS TESTING MACHINES	Verification Of Leeb (Dynamic) Hardness Tester By Indirect Method	Using Standard Hardness Test Blocks as per ASTM A 956	'D' Scale	16.02 HLD
159	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Blocks by Indirect Method as per IS 1501(Part II) / ISO 6507-2 / ASTM E384 / ASTM E92	HV 10	1.68%
160	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Blocks by Indirect Method as per IS 1501(Part II) / ISO 6507-2 / ASTM E384 / ASTM E92	HV 30	1.65%
161	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Blocks by Indirect Method as per IS 1501(Part II) / ISO 6507-2 / ASTM E384 / ASTM E92	HV 5	1.79%
162	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Blocks by Indirect Method as per IS 1501(Part II) / ISO 6507-2 / ASTM E384 / ASTM E92	HV 50	1.65%



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163	MECHANICAL-IMPACT TESTING MACHINE	Verification of Impact Testing Machine - Charpy	Using Impact Calibration Kit by Direct method as per ISO 148-2 / ASTM E23 / IS 3766 / BS 131 (Part 4) By Direct Verification	0 J to 300 J	0.5 %
164	MECHANICAL-IMPACT TESTING MACHINE	Verification of Impact Testing Machine - Charpy	Using Impact Calibration kit and Standard reference test pieces. As per ISO 148-2 / ASTM E23 / IS 3766 / BS 131 (part-4) By Indirect Verification	40 J to 300 J	0.654 J
165	MECHANICAL-IMPACT TESTING MACHINE	Verification of Impact Testing Machine - Charpy	Using Impact Calibration kit and Standard reference test pieces. As per ISO 148-2 / ASTM E23 / IS 3766 / BS 131 (part-4) By Indirect Verification	Up to 40 J	0.1339 J
166	MECHANICAL-IMPACT TESTING MACHINE	Verification of Impact Testing Machine - Izod	Using Impact Calibration Kit by Direct method as per ASTM E23 / IS 3766 / BS 131 (Part 4) By Direct Verification	0 J to 168 J	0.5%



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167	MECHANICAL-PRESSURE INDICATING DEVICES	Absolute Pressure: Pneumatic Pressure Gauge / Indicator / Calibrator / Transmitter /Transducer / Switch /Controller / Recorder / Manometer / Barometer	Using Absolute Pressure Gauge with Pneumatic Pump & Pressure Calibrator by Comparison method as per DKD-R 6-1	0.05 bar (abs) to 4 bar (abs)	0.00041 bar (abs)
168	MECHANICAL-PRESSURE INDICATING DEVICES	Differential Pressure : Low Pressure Manometer / Gauge / Calibrator, Magnehelic Gauge / Indicator / Manometer/ Controller / Recorder / Logger / Modules	Using Digital Manometer, Low Pressure Comparator Pump & Pressure Calibrator by Comparison method as per DKD-R 6-1	0 bar to 0.04903 bar	0.000017 bar
169	MECHANICAL-PRESSURE INDICATING DEVICES	Differential Pressure : Low Pressure Manometer / Gauge / Calibrator, Magnehelic Gauge / Indicator / Manometer/ Controller / Recorder / Logger / Modules	Digital Manometer, Low Pressure Comparator Pump & Pressure Calibrator by Comparison method as per DKD-R 6-1	0 bar to 0.4903 bar	0.0000672 bar



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170	MECHANICAL-PRESSURE INDICATING DEVICES	Differential Pressure: Low Pressure Manometer / Gauge / Calibrator, Magnehelic Gauge / Indicator / Manometer/ Controller / Recorder / Logger / Modules	Using Digital Manometer, Low pressure comparator pump & Pressure Calibrator by comparison method as per DKD-R6-1	0 mbar to 500 mbar	0.058 mbar
171	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure- Hydraulic Pressure Gauge / Calibrator / Transducer / Transmitter / Switch / Indicator / Controller / Recorder / Logger / Modules	Using Digital Pressure Gauge, Pressure Calibrator using Hydraulic Comparator Pump by Comparison method as per DKD-R 6-1	0 bar to 1400 bar	0.202 bar
172	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure- Hydraulic Pressure Gauge / Calibrator / Transducer / Transmitter / Switch / Indicator / Controller / Recorder / Logger / Modules	Using Digital Pressure Gauge, Pressure Calibrator using Hydraulic Comparator Pump by Comparison method as per DKD-R 6-1	0 bar to 700 bar	0.08 bar



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173	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Hydraulic Pressure Gauge / Calibrator / Transducer / Transmitter / Switch / Indicator / Controller / Recorder / Logger / Modules	Using Process Calibrator with External Sensor & Pressure Calibrator by Comparison method as per DKD-R 6-1	0 bar to 2500 bar	0.96 bar
174	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Hydraulic Pressure Gauge / Calibrator / Transducer / Transmitter / Switch / Indicator / Controller / Recorder / Logger / Modules	Using Process Calibrator with External Sensor & Pressure Calibrator by Comparison method as per DKD-R 6-1	0 bar to 4000 bar	1.21 bar
175	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Hydraulic. Pressure Gauge / Calibrator / Transducer / Transmitter / Switch / Compound Gauge / Indicator / Manometer / Controller / Recorder / Logger / Magnehelic Gauge/ Level Gauge Manometer /	Using Digital Pressure Gauge, Pressure Calibrator using Hydraulic Comparator Pump by Comparison method as per DKD-R 6-1	0 bar to 200 bar	0.025 bar



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176	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Pneumatic Pressure Gauge / Calibrator / Transducer / Transmitter / Switch / Compound Gauge / Indicator / Manometer/ Controller / Recorder / Logger / Modules	Using Pressure Calibrator using Pneumatic Hand pump by Comparison method as per DKD-R 6-1	0 bar to 40 bar	0.0052 bar
177	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Pneumatic Pressure Gauge / Calibrator / Transducer / Transmitter / Switch / Compound Gauge / Indicator / Manometer / Controller / Recorder / Logger / Level Gauge Manometer /	Using Digital Pressure Gauge and Pressure Calibrator using Pneumatic Comparator pump by Comparison method as per DKD-R 6-1	0 bar to 20 bar	0.0026 bar
178	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Pneumatic Pressure Gauge / Calibrator / Transducer / Transmitter / Switch / Compound Gauge / Indicator / Manometer / Controller / Recorder / Logger / Level Gauge Manometer	Using Digital Pressure Gauge and Pressure Calibrator using Pneumatic Comparator pump by Comparison method as per DKD-R 6-1	0 bar to 2 bar	0.0006 bar



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179	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Pneumatic Pressure Gauge / Calibrator / Transducer / Transmitter / Switch / Compound Gauge/ Indicator/ Manometer/ Controller/ Recorder / Logger/ Modules	Digital Pressure Gauge, Pressure Calibrator using Comparator Pump by Comparison method as per DKD-R 6-1	0 bar to 20 bar	0.006 bar
180	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Pneumatic : Vacuum Gauge / Calibrator / Transducer / Transmitter / Switch Compound Gauge / Indicator / Manometer / Controller / Recorder / Logger / Modules	Using Digital Pressure Calibrator and Pressure Calibrator by Comparison method as per DKD-R 6-1	(-) 950 mbar to 0 mbar	0.13 mbar
181	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Displacement Measuring System and Devices used in Material Testing Machine	Using Linear Dimensional Instruments as per ASTM E 2309 / ISO 9513	0 to 300 mm	0.06 mm



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182	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Displacement Measuring System and Devices used in Material Testing Machine	Using Linear Dimensional Instruments as per ASTM E 2309 / ISO 9513	300 mm to 1000 mm	0.16 mm
183	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Speed in Material Testing Machine	Using Linear Length Measuring Instruments and Stop Watch as per ASTM E2658	1.5 mm/min to 1000 mm/min	0.8 mm/min
184	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Uni-axial static Testing Machine Class 0.5 and above (UTM, CTM, Creep testing machine) - Compression mode	Using Load cell with indicator as per IS 1828 (Part 1) / ISO 7500 (Part 1)	100 N to 1000 kN	0.30 %
185	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Uni-axial static Testing Machine Class 0.5 and above (UTM, TTM, Creep testing machine) - Tension mode	Using Load cell with indicator as per IS 1828 (Part 1) / ISO 7500 (Part 1)	100 N to 1000 kN	0.30 %
186	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Readability: 0.001 mg (Accuracy Class I & Coarser)	Using E1 Class Standard Weights as per OIML R 76 - 1	1 mg to 21 g	0.010mg





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187	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Readability: 0.01 mg (Accuracy Class I & Coarser)	Using E1 Class Standard Weights as per OIML R 76 - 1	1 mg to 220 g	0.04mg
188	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Readability: 0.1 mg (Accuracy Class I & Coarser)	Using E1 Class Standard Weights as per OIML R 76 - 1	10 mg to 320 g	0.15mg
189	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Readability: 1 mg (Accuracy Class II & Coarser)	Using E1 Class Standard Weights as per OIML R 76 - 1	100 mg to 5 kg	1.5mg
190	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Readability: 100 g (Accuracy Class IV & Coarser)	Using F2 & M1 Class Standard Weights as per OIML R 76 - 1	500 g to 2000 kg	62g
191	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Readability: 100 mg (Accuracy Class II & Coarser)	Using E1, E2 & F1 Class Standard Weights as per OIML R 76 - 1	5 g to 36 kg	60 mg
192	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Readability: 0.0001 mg (Accuracy Class I & Coarser)	Using E1 Class Standard Weights as per OIML R 76 - 1	1 mg to 2.1 g	0.0032mg
193	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balances Readability: 1 g (Accuracy Class III & Coarser)	Using E2, F1 & F2 Class Standard Weights as per OIML R 76 - 1	50 g to 52 kg	0.6g



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194	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balances Readability: 10 g (Accuracy Class IV & Coarser)	Using E2, F1 & F2 Class Standard Weights as per OIML R 76 - 1	200 g to 300 kg	13g
195	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balances Readability: 10 mg (Accuracy Class II & Coarser)	Using E1 Class Standard Weights as per OIML R 76 - 1	500 mg to 6.2 kg	6mg
196	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balances Readability: 2 g (Accuracy Class III & Coarser)	Using E2, F1 & F2 Class Standard Weights as per OIML R 76 - 1	100 g to 60 kg	1.2g
197	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balances Readability: 2 g (Accuracy Class IV & Coarser)	Using E2, F1 & F2 Class Standard Weights as per OIML R 76 - 1	200 g to 100 kg	0.9g
198	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balances Readability: 50 g (Accuracy Class IV & Coarser)	Using E2 Class Weight (Upto 10 kg), F1 Class Weight (Upto 10 kg), F2 Class Weight (Upto 200g, 10 kg, 20 kg), M1 Class Weight (Upto 20 kg) as per OIML R 76-1	200 g to 500 kg	30g



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199	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator / Controller with Sensor of Environmental Chamber, Humidity Chamber and Climatic Chamber (@ 10°C to 60 °C)- (Single Point Calibration)	Using Temperature & Humidity Indicator with sensor by Comparison Method	10 %RH to 95 %RH	1.2%RH
200	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator / Controller with Sensor of Environmental Chamber, Humidity Chamber and Climatic Chamber (@ 25°C to 60°C) (Multi Point Calibration)	Using Temperature & Humidity Indicator with sensor by Comparison Method	10 %RH to 95 %RH	2%RH



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201	THERMAL-TEMPERATURE	Baths, Deep Freezer, Freezer, Refrigerator, Incubator(for non medical applications),Thermal Chambers, Autoclave (for non medical application), Liquid Bath, Hot Air Oven (Multi Position Calibration)	Using RTD Sensor with Multi channel Recorder by Comparison Method	-80 °C to 100 °C	0.82 °C
202	THERMAL-TEMPERATURE	Baths, Hot Air Oven, Furnace (Multi Position Calibration)	Using "N"-Type Thermocouple with Multi channel Recorder by Comparison Method	400 °C to 1200 °C	1.95°C
203	THERMAL-TEMPERATURE	Baths, Incubator(for non medical applications),Thermal Chambers, Autoclave(for non medical application), Liquid Bath, Hot Air Oven (Multi Position Calibration)	Using RTD Sensor / "N"-Type Thermocouple with Multi channel Recorder by Comparison Method	100 °C to 400 °C	0.82°C
204	THERMAL-TEMPERATURE	Black Body Source	Using Standard Pyrometer by Comparison Method	1200 °C to 1700 °C	3.66°C



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205	THERMAL-TEMPERATURE	Black Body Source	Using Standard Pyrometer by Comparison Method	50 °C to 500 °C	1.06°C
206	THERMAL-TEMPERATURE	Black Body Source	Using Standard Pyrometer by Comparison Method	500 °C to 950 °C	3.4°C
207	THERMAL-TEMPERATURE	Black Body Source	Using Standard Pyrometer by Comparison Method	950 °C to 1200 °C	3.4°C
208	THERMAL-TEMPERATURE	Contact Type Sensor (RTD & Thermocouple, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter)	Using PRT, 6½ Digital Multimeter & Multi Function Calibrator/ Dry Block Calibrator by Comparison Method	300 °C to 600 °C	0.17°C



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209	THERMAL-TEMPERATURE	Contact Type Sensor (RTD & Thermocouple, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter)	Using PRT, 6½ digit Multi meter/ Multi-Function Calibrator, Liquid Bath, Dry Block Calibrator by Comparison Method	50 °C to 300 °C	0.13 °C
210	THERMAL-TEMPERATURE	Contact Type Sensor (RTD & Thermocouple, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter)	Using SSPRT and 8½ Digital Multimeter, Liquid Bath by Comparison Method	0 °C to 125 °C	0.04°C



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211	THERMAL-TEMPERATURE	Contact Type Sensor (RTD & Thermocouple, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter)	Using SSPRT and 8½ Digital Multimeter, Field Metrology Well, Dry Block Calibrator by Comparison Method	400 °C to 650 °C	0.10°C
212	THERMAL-TEMPERATURE	Contact Type Sensor (RTD & Thermocouple, Temperature Indicator/ Controller/ Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter)	Using SSPRT and 8½ Digital Multimeter/ MultiFunction Calibrator, Field Metrological Well / Dry Block Calibrator By Comparison Method	125 °C to 400 °C	0.07 °C



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213	THERMAL-TEMPERATURE	Contact Type Sensor (RTD, Temperature Indicator/ Controller/ Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter)	Using PRT, 6½ Digital Multimeter & Multi Function Calibrator/ Temperature indicator by Comparison Method	-30 °C to 50 °C	0.09 °C
214	THERMAL-TEMPERATURE	Contact Type Sensor (Thermocouple, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter)	Using "R"-type Thermocouple with Indicator, Dry Block Calibrator & Temperature indicator by Comparison Method	600 °C to 1200 °C	2.00°C
215	THERMAL-TEMPERATURE	Contact Type Sensor (Thermocouple, Temperature Indicator / Controller / Recorder with Sensor, Thermometer, Temperature Gauge, Temperature Switch, Temperature Transmitter)	Using "S"-Type Thermocouple with Indicator, Dry Block Calibrator by Comparison Method	650 °C to 1200 °C	1.66°C





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216	THERMAL-TEMPERATURE	Liquid bath, Low & High Temperature Bath (Single Position calibration)	Using SSPRT, 8½ Digital Multimeter by Comparison Method	-30 °C to 125 °C	0.09°C
217	THERMAL-TEMPERATURE	Liquid bath, Low & High Temperature Bath (Single Position Calibration)	Using SSPRT, 8½ Digital Multimeter by Comparison Method	-80 °C to -30 °C	0.09°C
218	THERMAL-TEMPERATURE	Low & High Temperature Bath, Dry Block Calibrators (Single Position Calibration)	Using "S"-Type Thermocouple with Indicator by Comparison Method	650 °C to 1200 °C	1.56°C
219	THERMAL-TEMPERATURE	Non- Contact Type (IR Thermometers, Non-contact Thermometer, Pyrometers, Thermal Imaging Camera)	Using Standard IR Thermometer/ Pyrometer and Black Body Source by Comparison Method	400 °C to 500 °C	1.66 °C
220	THERMAL-TEMPERATURE	Non- Contact Type (IR Thermometers, Non-contact Thermometer, Pyrometers, Thermal Imaging Camera)	Using Standard IR Thermometer/ Pyrometer and Black Body Source by Comparison Method	50 °C to 400 °C	1.06°C



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** JAYASREE REVA PHOENIX METROLOGY PRIVATE LIMITED, REVA COMPLEX, NO.14, 4TH STREET, RAJARAJESWARI NAGAR, MADIPPAKKAM, CHENNAI, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2428 **Page No** 145 of 146

**Validity** 30/10/2022 to 29/10/2024 **Last Amended on** 15/02/2023

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)(±)
221	THERMAL-TEMPERATURE	Temperature Indicator / Recorder / Controller with Sensor of Baths, Deep Freezer, Freezer, Refrigerator, Incubator, Autoclave, Chamber, Water Bath, Hot Air Oven, Furnace (Single Point Calibration)	Using Standard Thermocouple R-Type with temperature indicator / Multi-function calibrator by Comparison Method	1200 °C to 1500 °C	2.88°C
222	THERMAL-TEMPERATURE	Temperature Indicator / Recorder / Controller with Sensor of Baths, Freezer, Refrigerator, Incubator, Autoclave, Chamber, Water Bath (Single Position Calibration) (for non medical application)	Using PRT, 6½ Digital Multimeter by Comparison Method	-30 °C to 125 °C	0.09°C
223	THERMAL-TEMPERATURE	Temperature Indicator / Recorder / Controller with Sensor of Baths, Furnace (Single Position Calibration)	Using "R"-Type Thermocouple with Indicator by Comparison Method	600 °C to 1200 °C	1.95 °C



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224	THERMAL-TEMPERATURE	Temperature Indicator / Recorder / Controller with Sensor of Baths, Incubator, Autoclave, Chamber, Hot Air Oven, Furnace (Single Position Calibration)	Using PRT, 6½ Digital Multimeter by Comparison Method	125 °C to 600 °C	0.07°C
225	THERMAL-TEMPERATURE	Temperature Indicator / Recorder / Controller with Sensor of Baths, Deep Freezer, Freezer, Refrigerator, Chamber (Single Position Calibration) (for non medical application)	Using PRT, 6½ Digital Multimeter by Comparison Method	-80 °C to -30 °C	0.11 °C

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