



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

DRS TESTING TECHNOLOGIES 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

PLOT NO. SH-13, SECTOR-63A, NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA

in the field of

CALIBRATION

Certificate Number: CC-1048

Issue Date: 18/05/2025

Valid Until: 17/05/2029

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)

Name of Legal Entity: DRS TESTING TECHNOLOGIES PRIVATE LIMITED

Signed for and on behalf of NABL



Anita Rani
Director

N. Venkateswaran
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

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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 Voltage @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter by Direct Method	1 V to 10 V	0.015 % to 0.011 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy @ 50 Hz, (1P2W, 3P4W, UPF to 0.5 (Lead / Lag), 240 V, 1 A to 25 A)	Using Energy Logger by Direct Method	360 Wh to 18 kWh	3.27 % to 2.39 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Power @ 50 Hz (1P2W & 3P4W, UPF to 0.5 (Lead / Lag), 240 V, 1 A to 25 A)	Using Energy Logger by Direct Method	120 W to 18 kW	6.21 % to 1.55 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Power @ 50 Hz {1 Phase 2 Wire, (-) 0.1 PF to UPF to 0.1 PF, 40 V to 480 V, 0.1 A to 20 A}	Using Power Meter by Direct Method	0.4 W to 9.6 kW	0.33 % to 0.86 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Energy logger with CT cable by direct method	10 A to 1000 A	1.51 % to 1.46 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter by Direct Method	1 A to 20 A	0.11 % to 0.32 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	1 A to 20 A	0.19 % to 0.32 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter by Direct Method	1 mA to 1 A	0.06 % to 0.11 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	1 mA to 1 A	0.1 % to 0.19 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6½ Digit Digital Multimeter by Direct Method	100 µA to 100 mA	0.6 % to 0.12 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6½ Digit Digital Multimeter by Direct Method	100 mA to 10 A	0.12 % to 0.4 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter by Direct Method	30 µA to 1 mA	0.12 % to 0.06 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	30 µA to 1 mA	0.18 % to 0.1 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with Digital Multimeter by Direct Method	1 kV to 28 kV	6.4 % to 6.66 %



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter by Direct Method	1 mV to 100 mV	0.74 % to 0.023 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	1 mV to 100 mV	0.88 % to 0.025 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	1 V to 10 V	0.015 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit Digital Multimeter by Direct Method	10 mV to 100 mV	1.1 % to 0.12 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter by Direct Method	10 V to 1000 V	0.01 % to 0.02 %



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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	10 V to 1000 V	0.05 % to 0.02 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit Digital Multimeter by Direct Method	10 V to 1000 V	0.1 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	100 mV to 1 V	0.023 % to 0.013 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter by Direct Method	100 mV to 1 V	0.023 % to 0.02 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit Digital Multimeter by Direct Method	100 mV to 10 V	0.12 % to 0.10 %



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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor / Phase Angle (Lead & Lag) @ 50 Hz	Using Power Meter by Direct Method	0.1 PF to UPF	0.025 PF
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Active Power @ 50 Hz {1 Phase 2 Wire, (-) 0.1 PF to UPF to 0.1 PF, 40 V to 480 V, 0.1 A to 20 A}	Using Digital Multi Product Calibrator with Current Coil By Direct Method	0.4 W to 9.6 kW	0.23 % to 0.2 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Digital Multi Product Calibrator and Current Coil By Direct Method	20 A to 1000 A	4.27 % to 2.57 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Digital Multi Product Calibrator By Direct Method	10 A to 20 A	0.14 % to 0.2 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Digital Multi Product Calibrator By Direct Method	30 μ A to 300 mA	0.3 % to 0.06 %



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30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Digital Multi Product Calibrator By Direct Method	300 mA to 10 A	0.06 % to 0.14 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Digital Multi Product Calibrator By Direct Method	1 mV to 300 mV	0.4 % to 0.06 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Digital Multi Product Calibrator By Direct Method	30 V to 1000 V	0.04 % to 0.23 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Digital Multi Product Calibrator By Direct Method	300 mV to 30 V	0.06 % to 0.04 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Digital Multi Product Calibrator By Direct Method	0.5 nF to 1 µF	2.89 % to 0.41 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Digital Multi Product Calibrator By Direct Method	1 µF to 100 µF	0.41 % to 0.64 %



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36	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor / Phase Angle (Lead / Lag) @ 50 Hz (240 V, 10 A, Single Phase)	Using Digital Multi Product Calibrator By Direct Method	0.1 PF to UPF	0.06 PF
37	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	1 µA to 1 mA	0.7 % to 0.007 %
38	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Digital Multimeter by Direct Method	1 µA to 100 mA	1.5 % to 0.08 %
39	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Digital Multimeter by Direct Method	1 µA to 1 mA	0.17 % to 0.007 %
40	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Digital Multimeter by Direct Method	1 A to 20 A	0.022 % to 0.06 %
41	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	1 A to 20 A	0.03 % to 0.06 %



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42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Digital Multimeter by Direct Method	1 mA to 1 A	0.007 % to 0.023 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	1 mA to 1 A	0.007 % to 0.03 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Digital Multimeter by Direct Method	100 mA to 10 A	0.08 % to 0.19 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Power (10 V to 1000 V, 0.1 A to 20 A)	Using Power Meter AC/DC by Direct Method	0.1 W to 20 kW	0.15 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Digital Multimeter by Direct Method	1 mV to 10 V	0.41 % to 0.008 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	1 mV to 100 mV	0.04 % to 0.0015 %



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48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Digital Multimeter by Direct Method	1 mV to 100 mV	0.04 % to 0.0015 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	1 V to 1000 V	0.001 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Digital Multimeter by Direct Method	1 V to 1000 V	0.001 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Digital Multimeter by Direct Method	10 V to 1000 V	0.008 % to 0.007 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Digital Multimeter by Direct Method	100 mV to 1 V	0.0015 % to 0.001 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	100 mV to 1 V	0.003 % to 0.001 %



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54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 8½ Digit Digital Multimeter by Direct Method	1 Mohm to 20 Gohm	0.004 % to 0.41 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire, 4 Wire)	Using 8½ Digit Digital Multimeter by Direct Method	1 kohm to 1 Mohm	0.004 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire, 4 Wire)	Using 6½ Digit Digital Multimeter by Direct Method	1 Mohm to 1 Gohm	0.04 % to 2.61 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire, 4 Wire)	Using 8½ Digit Digital Multimeter by Direct Method	1 Ohm to 1 kohm	0.06 % to 0.004 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire, 4 Wire)	Using 6½ Digit Digital Multimeter by Direct Method	1 Ohm to 1 Mohm	0.36 % to 0.04 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire, 4 Wire)	Using 8½ Digit Digital Multimeter by Direct Method	100 mohm to 1 Ohm	0.6 % to 0.06 %



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60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 6½ Digit Digital Multimeter, Multiproduct Calibrator by V/I Method	1 mohm to 1 Ohm	0.5 % to 0.08 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Digital Multi Product Calibrator By Direct Method	1 µA to 300 mA	0.16 % to 0.03 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Digital Multi Product Calibrator and Current Coil By Direct Method	20 A to 1000 A	0.32 % to 2.43 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Digital Multi Product Calibrator By Direct Method	300 mA to 20 A	0.03 % to 0.09 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (1 Phase 2 Wire, 1 V to 1000 V, 0.1 A to 20 A)	Using Digital Multi Product Calibrator By Direct Method	0.1 W to 20 kW	0.4 % to 1.2 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Digital Multi Product Calibrator By Direct Method	1 mV to 1 V	0.16 % to 0.007 %



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66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Digital Multi Product Calibrator By Direct Method	1 V to 1000 V	0.007 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Insulation Resistance (2 Wire) @ 1000 V	Using Mega Ohm Box (Discrete Value) by Direct Method	2 Gohm	2.36 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Insulation Resistance (2 Wire) @ 1000 V	Using Mega Ohm Box (Discrete Value) Direct Method	2 Mohm	2.33 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Insulation Resistance (2 Wire) @ 1000 V	Using Mega Ohm Box (Discrete Value) by Direct Method	20 Gohm	2.36 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Insulation Resistance (2 Wire) @ 1000 V	Using Mega Ohm Box (Discrete Value) Direct Method	20 Mohm	3.45 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Insulation Resistance (2 Wire) @ 1000 V	Using Mega Ohm Box (Discrete Value) Direct Method	200 Mohm	2.39 %



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72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using Digital Multi Product Calibrator By Direct Method	1 Mohm to 100 Mohm	0.02 % to 0.58 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using Digital Multi Product Calibrator By Direct Method	100 kohm to 1 Mohm	0.02 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using Digital Multi Product Calibrator By Direct Method	100 Mohm to 1 Gohm	0.58 % to 1.8 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire, 4 Wire)	Using Digital Multi Product Calibrator By Direct Method	1 Ohm to 100 kohm	1.17 % to 0.02 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire, 4 Wire)	Using Resistance Box (Discrete Value) Direct Method	10 Ohm	0.6 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire, 4 Wire)	Using Resistance Box (Discrete Value) Direct Method	100 Ohm	0.64 %



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78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Resistance Box (Discrete Value) Direct Method	1 kohm	0.64 %
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Resistance Box (Discrete Value) Direct Method	1 mohm	0.99 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Resistance Box (Discrete Value) Direct Method	1 Ohm	1.16 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Resistance Box (Discrete Value) Direct Method	10 mohm	0.6 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Resistance Box (Discrete Value) Direct Method	100 mohm	0.6 %
83	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Oscilloscope Amplitude @ 1 kHz to 50 kHz (Square wave, Sine Wave @ 1 Mohm)	Using Digital Multi Product Calibrator By Direct Method	5 mV to 30 V	0.63 % to 0.64 %



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84	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Bandwidth)	Using Digital Multi Product Calibrator By Direct Method	50 kHz to 200 MHz	5.2 % to 8.2 %
85	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time Base (Marker)	Using Digital Multi Product Calibrator By Direct Method	10 ns to 1 s	0.63 % to 0.14 %
86	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH meter	Using Digital Multiproduct Calibrator by Simulation Method	0 pH to 14 pH (379 mV to (-) 379 mV)	1.13 %
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	600 °C to 1800 °C	0.3 °C
88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	(-) 200 °C to 1000 °C	0.3 °C
89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	(-) 200 °C to 1200 °C	0.43 °C



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90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	(-) 200 °C to 1200 °C	0.44 °C
91	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	(-) 200 °C to 1300 °C	0.45 °C
92	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	0 °C to 1700 °C	0.88 °C
93	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (Pt 100)	Using Digit Digital Multimeter by Direct Method	(-) 200 °C to 800 °C	0.08 °C
94	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	0 °C to 1700 °C	0.79 °C
95	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	(-) 200 °C to 400 °C	0.43 °C



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96	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B-Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	600 °C to 1800 °C	0.37 °C
97	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E-Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	(-) 200 °C to 1000 °C	0.37 °C
98	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	(-) 200 °C to 1200 °C	0.31 °C
99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	(-) 200 °C to 1200 °C	0.31 °C
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	(-) 200 °C to 1300 °C	0.46 °C
101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	0 °C to 1700 °C	0.66 °C



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102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt 100)	Using Digital Multi Product Calibrator By Direct Method	(-) 200 °C to 800 °C	0.08 °C
103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	0 °C to 1700 °C	0.54 °C
104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	(-) 200 °C to 400 °C	0.73 °C
105	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 8½ Digit Digital Multimeter by Direct Method	10 Hz to 1 MHz	0.06 % to 0.006 %
106	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Digital Multimeter by Direct Method	10 Hz to 1 MHz	0.082 % to 0.017 %
107	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Digital Time Calibrator by Comparison Method	1 s to 3600 s	0.29 s to 0.6 s



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108	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Timer Calibrator by Direct Method	3600 s to 36000 s	0.6 s to 2.13 s
109	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Timer Calibrator by Direct Method	36000 s to 86400 s	2.13 s to 5.3 s
110	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using digit Multi-Product Calibrator By Direct Method	10 Hz to 1 MHz	0.014 % to 0.003 %
111	FLUID FLOW-FLOW MEASURING DEVICES	Gas Flow Meter, Air Flow Meter, Rotameter, Flow Transmitter, Flow Switch (medium : air)	Using Orifice Gas Flow Calibrator by Comparison Method	50 LPM to 497 LPM	2.7 %
112	FLUID FLOW-FLOW MEASURING DEVICES	Gas Flow Meter, Air Flow Meter, Rotameter, Flow Transmitter, Flow Switch (medium : air)	Using LGFC Gas Flow Calibrator by Comparison Method	0.5 LPM to 50 LPM	2.6 %



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113	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Contact type)	Using Digital Tachometer & RPM Source By Comparison Method	1000 rpm to 6000 rpm	2.2 rpm
114	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non-Contact type)	Using Digital Tachometer & RPM Source by Comparison Method	1000 rpm to 10000 rpm	2.2 rpm
115	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non-Contact type)	Using Digital Tachometer & RPM Source by Comparison Method	10 rpm to 1000 rpm	1 rpm
116	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non-Contact type)	Using Digital Tachometer & RPM Source by Comparison Method	10000 rpm to 90000 rpm	4 rpm
117	MECHANICAL-ACCELERATION AND SPEED	RPM indicator of RPM Source (Non-Contact type)	Using Digital Tachometer by Comparison Method	10 rpm to 1000 rpm	1.4 rpm
118	MECHANICAL-ACCELERATION AND SPEED	RPM indicator of RPM Source (Non-Contact type)	Using Digital Tachometer by Comparison Method	1000 rpm to 10000 rpm	2.7 rpm
119	MECHANICAL-ACCELERATION AND SPEED	RPM indicator of RPM Source (Non-Contact type)	Using Digital Tachometer by Comparison Method	10000 rpm to 90000 rpm	4.2 rpm
120	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact type)	Digital Tachometer & RPM Source By Comparison Method	10 rpm to 1000 rpm	1.2 rpm



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121	MECHANICAL-DENSITY AND VISCOSITY	BS / IP / RF - U tube Reverse Flow Viscometer (Glass Capillary) Constant Viscometer (Size no : 6 @ 40 °C	Using Reference Viscosity Standard & Digital Viscosity Bath As per ASTM D446 / ISO 3105	60 cSt to 1000 cSt	0.70 %
122	MECHANICAL-DENSITY AND VISCOSITY	BS / IP / RF U tube Vacuum Capillary Viscometer (Glass Capillary) Constant Viscometer Size no : 13 @ 60 °C	Using Reference Viscosity Standard & Digital Viscosity Bath As per ASTM D2171 / IS 1206	1200 Poise to 24000 Poise	0.7 % (for Bulb-C) & 1.05 % (for Bulb B)
123	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometer, Twaddle Hydrometer, Baume Hydrometer, Specific Gravity Hydrometer, Brix Hydrometer, Lactometer, Alcometer @ 20 °C	Using Digital Weighing Balance (Readability : 0.00001 g) Hydrostatic Weighing (Cuckow's Method) as per NIST SP 250-78	0.6 g/ml to 2 g/ml	0.015 g/ml
124	MECHANICAL-DENSITY AND VISCOSITY	Vacuum Capillary Viscometer (Glass Capillary) Constant Viscometer (Size no : 12 @ 60 °C	Using Reference Viscosity Standard & Digital Viscosity Bath as per ASTM D2171 / IS 1206	360 Poise to 8000 Poise	0.70 % (for Bulb- C) & 1.67% (for Bulb-B)
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vicate Test Apparatus Plunger Diameter (Needle)	Using Digital Micrometer by Direct Method	0.5 mm to 10 mm	5 µm



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126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Analog / Digital Plunger Dial Gauge (L.C.: 0.001 mm)	Using Dial Calibration Tester & Electronic Probe Set by Comparison Method	Up to 25 mm	0.8 µm
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Analog / Digital Plunger Dial Gauge (L.C.: 0.001 mm)	Using Dial Calibration Tester & Slip Gauge Set with Comparator Stand by Comparison Method	Up to 50 mm	2.2 µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor (L.C.: 5 minute of arc)	Using Angle Gauge Set and Profile Projector by Direct Method	Up to 360 °	3 minute of arc
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge - for Transmission Accuracy only (L.C.: 0.001 mm)	Using Dial Calibration Tester & Electronic Probe by Comparison Method	0.001 mm to 2 mm	1.6 µm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 1 µm)	Using Standard Foils by Comparison Method	10 µm to 0.696 mm	1.6 µm



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131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand Flatness	Using Dial Test Indicator with Screw Jack set	50 mm x50 mm to 300 mm x300 mm	4 μm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge - Vernier / Dial / Electronic (L.C.: 0.01 mm)	Using Slip Gauge Set & Steel Gauge Block by Comparison Method	0 to 300 mm	9 μm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Calibration Tester (L.C.: 0.0002 mm)	Using electronic Probe by Comparison Method	0.0002 mm to 25 mm	1.3 μm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Angle Measuring Instruments / Clinometers (L.C.: 0.01 °)	Using Angle Gauge Set by Direct Method	0 ° to 90 °	3.6 minute of arc
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Set by Comparison Method	0 to 25 mm	1 μm



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136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Micrometer by Comparison Method	0.03 mm to 1 mm	3 µm
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Impact Test Specimen (Angular)	Using Profile Projector by Comparison Method	Up to 45 °	1.5 minute of arc
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Impact Test Specimen (Linear)	Using Profile Projector, Slip Gauge Set and Electronic Comparator by Comparison Method	1 mm to 120 mm	8.6 µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial Template (ID, OD, HEIGHT, THICKNESS Linear Dimension)	Using Digital Caliper / Depth Gauge by Direct Method	Up to 1000 mm	40 µm



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140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial Template, Inspection of Jig and Fixture / Mould, Cube Mould / Flakiness & Elongation Gauge, Slump Cone, Core Cutter, CBR Mould, Proctor Mould, Le-Chatelier Mould, Aggregate Impact	Using Digital Caliper / Depth Gauge by Direct Method	0 to 300 mm	25 µm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer / Two Jaw & Sticks Micrometer (L.C.: 0.02 mm)	Using Slip Gauge Set with Slip Gauge Accessories by Comparison Method	0 to 300 mm	15.2 µm
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Laser Distance Meter (L.C.: 1 mm)	Using Slip Gauge Set, Long Slip Gauge Blocks with Accessories by Comparison Method	1 mm to 1000 mm	757.2 µm
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C.: 0.001 mm)	Using Dial Calibration Tester with Electronic Probe by Comparison Method	0.001 mm to 2 mm	2.9 µm



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144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring pin	Using Slip Gauge Set , Comparator stand & electronic Probe by Comparison Method	0.5 mm to 20 mm	2 µm
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C.:1 mm) / Pie Tape (Metallic / Woollen / Fibre)	Using Scale & Tape Calibrator by Comparison Method	1 mm to 50000 mm	148 x (Sqrt L) µm (where L in meter)
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Metric Steel Scale / Plastic / Measuring Scale (L.C.: 0.5 mm)	Using Scale & Tape Calibrator by Comparison Method	0.5 mm to 2000 mm	200 x (Sqrt L) µm (where L in meter)
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer (Analog / Digital) (L.C.: 0.001 mm)	Using Slip Gauge with Accessories Set by Comparison Method	0 to 100 mm	1.5 µm
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer (Analog / Digital) (L.C.: 0.001 mm)	Using Slip Gauge Set with Accessories by Comparison Method	0 to 150 mm	2 µm



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149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod / Master Rod / Length Bar	Using Slip Gauge Set Long Slip Gauge & Electronic Comparator by Comparison Method	25 mm to 300 mm	4 µm
150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod / Master Rod / Length Bar	Using Slip Gauge Set Long Slip Gauge & Electronic Comparator by Comparison Method	300 mm to 500 mm	5.9 µm
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Penetrometer (L.C.: 0.1 mm)	Using Slip Gauge Set with Accessories by Comparison Method	1 mm to 40 mm	42.5 µm
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge/ Width Gauge/ OD Master/ Height Master/ Flush Pin Gauge / Air Plug Gauge	Using Slip Gauge Set , Comparator stand & electronic Probe by Comparison Method	1 mm to 100 mm	2 µm
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Snap Gauge / Dial Snap Gauge / Gap Gauge	Using Slip Gauge Set by Comparison Method	3 mm to 300 mm	3 µm



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154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge / Radius Template / Radius Measurement	Using Profile Projector by Comparison Method	0.4 mm to 40 mm	7.7 µm
155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Receiving Gauge / Profile Gauge / Profile of Work Piece - (Linear Dimension)	Using Profile Projector / Digital Vernier Caliper / Electronic Probe & Slip Gauge by Comparison Method	1 mm to 300 mm	18 µm
156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Receiving Gauge / Profile Gauge / Profile of Work Piece - (Angular Dimension)	Using Profile Projector by Comparison Method	0 ° to 180 °	5.5 minute of arc
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Receiving Gauge, Profile Gauge, Profile of Work Piece - Radius	Using Profile Projector by Direct Method	0.4 mm to 50 mm	9.1 µm
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Rockwell Diamond Cone Indenter (Include Angle)	Using Profile Projector Comparison Method	Up to 120 °	1.5 minute of arc



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Laboratory Name :	DRS TESTING TECHNOLOGIES PRIVATE LIMITED, PLOT NO. SH-13, SECTOR-63A, NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Rockwell Diamond Cone Indenter (Radius)	Using Profile Projector Comparison Method	0 to 0.2 mm	3.3 µm
160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Rockwell Diamond Cone Indenter (Axis Angle)	Using Profile Projector Comparison Method	Up to 90 °	1.5 minute of arc
161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tamping Rod / Tamping Bar	Using Digital Vernicer Caliper, Tape Calibrtor, Slip Gauge Set, Long Slip Gauge with Accessories & Electronic Comparator by Comparison Method	Up to 600 mm	17.4 µm
162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale / Shrinkage Scale	Using Profile Projector by Comparison Method	0.1 mm to 30 mm	24.7 µm



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163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Profile Projector by Comparison Method	0.025 mm to 5 mm	4 µm
164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Digital Caliper by Comparison Method	5 mm to 150 mm	25 µm
165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge - Dial / Electronic (L.C 0.001 mm)	Using Slip Gauge Set by Comparison Method	0 to 25 mm	1.6 µm
166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Angle)	Using Profile Projector by Comparison Method	55 ° and 60 °	3 minute of arc
167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Pitch)	Using Profile Projector by Comparison Method	0.4 mm to 7 mm	2.9 µm



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168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C.: 0.1 mm)	Using Slip Gauge Set & Steel Long Block by Comparison Method	2.5 mm to 100 mm	111 µm
169	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block - Flatness	Using Surface Plate, Test Mandrel, Dial Indicator by Comparison Method	Up to 200 mm	5.9 µm
170	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block - Symmetry	Using Surface Plate, Test Mandrel, Dial Indicator by Comparison Method	Up to 200 mm	10.2 µm
171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block - Parallelism	Using Surface Plate, Test Mandrel and Dial Indicator by Comparison Method	Up to 200 mm	6 µm
172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier / Digital / Height Gauge (L.C : 0.01 mm)	Using Caliper Checker & Slip Gauge Set by Comparison Method	0 to 300 mm	10.5 µm



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173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier / Digital / Height Gauge (L.C : 0.01 mm)	Using Caliper Checker & Slip Gauge Set by Comparison Method	300 mm to 600 mm	15.1 µm
174	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (L.C.: 0.01 mm)	Using Caliper Checker & Slip Gauge Set by Comparison Method	0 to 600 mm	14 µm
175	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (L.C.: 0.01 mm)	Using Caliper Checker & Slip Gauge Set with Accessories by Comparison Method	0 to 1000 mm	15.5 µm
176	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (L.C.: 0.01 mm)	Using Caliper Checker & Slip Gauge Set with Accessories by Comparison Method	0 to 300 mm	12.3 µm
177	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Gauge / Chamfer Gauge / Weld Fillet Gauge / Hi-Lo Gauge / Bridge Cam Gauge (Angle)	Using Profile Projector by Comparison Method	Up to 90 °	6.5 minute of arc



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178	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Gauge / Chamfer Gauge / Weld Fillet Gauge / Hi-Lo Gauge / Bridge Cam Gauge (Length)	Using Profile Projector by Comparison Method	0.1 mm to 60 mm	577 µm
179	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using Profile Projector by Comparison Method	0 to 10 mm	5 µm
180	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	Using Slip Gauge Set, Long Gauge Block & Dial Test Indicator by Comparison Method	0 to 600 mm	7 µm
181	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Spirit Level (L.C.: 0.01 mm/m)	Using Electronic Level with Tilting Table by Comparison Method	0 to (+/-) 2 mm/m	12.2 µm/m
182	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Extensometer, LVDT, Displacement Device (L.C.: 0.0001 mm)	Using Slip Gauge Set with Comparator / Electronic Probe by Comparison Method	0.005 mm to 25 mm	0.26 µm
183	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Linear Travel of Microscope (Brinell Measuring Device) (L.C.: 0.001 mm)	Using Glass Scale by Comparison Method	0 to 7 mm	9.9 µm



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184	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	LVDT, COD Gauge, Electronic Probe with DRO (L.C.: 0.001 mm)	using Slip Gauge Set with Comparator by Comparison Method	0 to 600 mm	15.1 µm
185	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Micrometer Head (L.C.: 0.0002 mm)	Using Dial Calibration Tester with Electronic Probe by Comparison Method	0.0002 mm to 25 mm	1.3 µm
186	MECHANICAL-DUROMETER	Durometer / Rubber Hardness Tester (Shore A)	Using Loadcell with Indicator by Spring Force Method as per ASTM D2240	0 to 100 Shore	1.10 Shore
187	MECHANICAL-DUROMETER	Durometer / Rubber Hardness Tester (Shore D)	Using Loadcell with Indicator by Spring Force Method as per ASTM D2240	0 to 100 Shore	0.61 Shore
188	MECHANICAL-DUROMETER	Shore Hardness Tester Calibrator	Using Dead Weights by Comparison Method	0 to 100 Shore	0.11 %
189	MECHANICAL-FORCE PROVING INSTRUMENTS	Force Calibration Machine - Comparison, Multiplication, Hydraulic Type	Using Reference Transfer Standard by Comparison Method as per Euramet cg-4	10 kN to 200 kN	0.04 %
190	MECHANICAL-FORCE PROVING INSTRUMENTS	Force Calibration Machine - Dead Weight Type	Using Reference Transfer Standard by Comparison Method as per Euramet cg-4	10 N to 50 kN	0.017 %



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191	MECHANICAL-FORCE PROVING INSTRUMENTS	Proving Ring, Dynamometer, Load Cell	Using Force Standard Machine as per IS 4169/ISO 376 & ASTM E74	20 kN to 200 kN	0.08 %
192	MECHANICAL-FORCE PROVING INSTRUMENTS	Proving Ring, Dynamometer, Load Cell, Force Gauge	Using Dead Weight Force Calibration Machine as per IS 4169-2014/ ISO 376-2011 & ASTM E74	0.2 N to 100 N	0.06 %
193	MECHANICAL-FORCE PROVING INSTRUMENTS	Proving Ring, Dynamometer, Load Cell, Force Gauge	Using Dead Weight Force Calibration Machine as per IS 4169-2014/ ISO 376-2011 & ASTM E74	1 kN to 10 kN	0.04 %
194	MECHANICAL-FORCE PROVING INSTRUMENTS	Proving Ring, Dynamometer, Load Cell, Force Gauge	Using Dead Weight Force Standard Machine as per IS 4169/ISO 376 & ASTM E74	1 kN to 50 kN	0.04 %
195	MECHANICAL-FORCE PROVING INSTRUMENTS	Proving Ring, Dynamometer, Load Cell, Force Gauge	Using Dead Weight Force Calibration Machine as per IS 4169-2014/ ISO 376-2011 & ASTM E74	100 N to 1000 N	0.049 %



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196	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge, Force Gauge	Using Newtonian Weights as per VDI/VDE 2624 (Part-2.1) & JIS B 7602	0.2 N to 100 N	0.82 N
197	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge, Force Gauge	Using Newtonian Weights as per VDI/VDE 2624 (Part-2.1) & JIS B 7602	100 N to 1000 N	2 N
198	MECHANICAL-PRESSURE BALANCE OR DEAD WEIGHT TESTER	Dead Weight Tester (Hydraulic Pressure)	Using Hydraulic Dead Weight Tester As per Euramet CG-3 & OIML R110 by cross float method (Pressure Method)	7 bar to 35 bar	0.02 % rdg
199	MECHANICAL-PRESSURE BALANCE OR DEAD WEIGHT TESTER	Dead Weight Tester (Hydraulic Pressure)	Using Hydraulic Dead Weight Tester by Pressure Generation Method as per Euramet CG-3 & OIML R110	50 bar to 700 bar	0.02 %rdg



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200	MECHANICAL-PRESSURE INDICATING DEVICES	Absolute Pressure (Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder, Manometer	Using Barometric Pressure Indicator & Pressure Calibrator by Comparison Method as per DKD-R6-1	300 mbar(abs) to 1050 mbar(abs)	1.27 mbar
201	MECHANICAL-PRESSURE INDICATING DEVICES	Analog Pressure Gauge, Digital Pressure Gauge, Pressure Transmitter with Indicator / Transducer, Pressure Recorder, Pressure Switch (Hydraulic Medium)	Using Digital Pressure Gauge and Hydraulic Comparator Pump , 6½ Digit Digital Multimeter By Comparison Method as per DKD R6-1	0 to 700 bar	0.14 bar
202	MECHANICAL-PRESSURE INDICATING DEVICES	Analog Pressure Gauge, Digital Pressure Gauge, Pressure Transmitter with Indicator/ Transducer, Pressure Recorder Pressure Switch (Pneumatic Medium)	Using Digital Pressure Gauge and Comparator, 6½ Digit Digital Multimeter By Comparison Method as per DKD R6-1	0 to 30 bar	0.0085 bar



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203	MECHANICAL-PRESSURE INDICATING DEVICES	Analog Vacuum Gauge Digital Vacuum Gauge, Vacuum Transmitter / Transducer Vacuum Switch (Pneumatic Medium)	Using Digital Pressure Gauge and Vacuum Comparator, 6½ Digit Digital Multimeter By Comparison Method as per DKD R6-1	(-) 0.90 bar to 0	0.0074 bar
204	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Calibrator, Pressure Recorder / Logger / Module, Manometer, Pressure Transmitter, Pressure Switch with Indicator	Using Dead Weight Tester (Piston Cylinder with Standard Weights) & 6½ Digit Digital Multimeter and Multifunction Calibrator as per DKD-R 6-1	50 bar to 700 bar	0.032 %rdg
205	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Calibrator, Pressure Recorder / Logger / Module, Manometer, Pressure Transmitter, Pressure Switch with Indicator	Using Dead Weight Tester (Piston Cylinder with Standard Weights) & 6½ Digit Digital Multimeter and Multifunction Calibrator as per DKD-R 6-1	7 bar to 35 bar	0.032 %rdg



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206	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench, Screw Driver, Pneumatic / Electrical Screw Driver (Class A, D, B, C, & E - Type I), (Class A, B, C, D, E, F, & G - Type II)	Using ElectronicTorque Wrench Calibrator, Torque Transducer with Indicator as per ISO 6789 : 2017	0.2 Nm to 10 Nm	0.43 %
207	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench, Screw Driver, Torque Multiplier, Pneumatic (Class A, D, B, C, & E - Type I) (Class A, B, C, D, E, F & G Type II)	Using Electronic Torque Wrench Calibrator, Torque Transducer with Indicator as per ISO 6789 : 2017	2000 Nm to 3000 Nm	1.18 %
208	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench, Screw Driver, Torque Multiplier, Pneumatic / Electrical Screw Driver (Class A, D, B, C & E - Type I) (Class A, B, C, D, E, F, G - Type II)	Using ElectronicTorque Wrench Calibrator, Torque Transducer with Indicator as per ISO 6789 : 2017	10 Nm to 2000 Nm	0.5 %
209	MECHANICAL-TORQUE MEASURING DEVICES	Torque Meter, Torque Gauge, Torque Transducer / Calibrator with or without Indicator (Class 0.5 & Coarser)	Using Torque Calibration System with Pulley & Aluminium Newtonian Weights as per BS 7882	0.05 Nm to 5 Nm	0.07 %



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210	MECHANICAL-TORQUE MEASURING DEVICES	Torque Meter, Torque Gauge, Torque Transducer / Calibrator with or without indicator (Class 0.5 & Coarser)	Using Torque Calibration System with Lever Arm with Stainless Steel Newtonian Weights as per BS 7882	2000 Nm to 3000 Nm	0.06 %
211	MECHANICAL-TORQUE MEASURING DEVICES	Torque Meter, Torque Gauge, Torque Transducer / Calibrator with or without indicator (Class 0.5 & Coarser)	Using Torque Calibration System with Lever Arm with Stainless Steel Newtonian Weights as per BS 7882	5 Nm to 2000 Nm	0.05 %
212	MECHANICAL-VOLUME	Burette, Measuring Cylinder, Flask (Single Mark), Jar, Density Bucket, Beaker, Dispenser	Using Distilled Water & Digital Weighing Balance (readability : 0.1 g) by Gravimetric Method as per IS/ISO 4787	> 2000 ml to 5000 ml	20 ml
213	MECHANICAL-VOLUME	Burette, Measuring Cylinder, Flask (Single Mark), Jar, Dispenser, Beaker	Using Distilled Water & Digital Weighing Balance (readability : 1 mg) by Gravimetric Method IS/ISO 4787	1000 ml to 2000 ml	6.72 ml



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214	MECHANICAL-VOLUME	Burette, Pipette, Volumetric Flask (Single Mark), Measuring Cylinder, Beaker, Dispenser, Pycnometer	Using Distilled Water & Digital Weighing Balance (readability : 0.01 mg) by Gravimetric Method as per ISO 8655 / IS/ISO 4787	1 ml to 10 ml	51 µl
215	MECHANICAL-VOLUME	Burette, Pipette, Volumetric Flask (Single Mark), Measuring Cylinder, Beaker, Dispenser, Pycnometer	Using Distilled Water & Digital Weighing Balance (readability : 0.01 mg) by Gravimetric Method as per IS/ISO 4787	10 ml to 50 ml	0.16 µl
216	MECHANICAL-VOLUME	Burette, Pipette, Volumetric Flask (Single Mark), Measuring Cylinder, Beaker, Dispenser, Pycnometer	Using Distilled Water & Digital Weighing Balance (readability : 1 mg) by Gravimetric Method as per IS/ISO 4787	100 ml to 1000 ml	3.5 ml
217	MECHANICAL-VOLUME	Burette, Pipette, Volumetric Flask (Single Mark), Measuring Cylinder, Beaker, Dispenser, Pycnometer	Using Distilled Water & Digital Weighing Balance (readability : 0.01 mg) by Gravimetric Method as per IS/ISO 4787	50 ml to 100 ml	0.4 µl
218	MECHANICAL-VOLUME	Micro-Pipette, Pipette (Piston Operated Pipette, Graduated)	Using Distilled Water & Digital Weighing Balance (readability : 0.01 mg) by Gravimetric Method as per ISO 8655	> 20 µl to 100 µl	0.41 µl



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219	MECHANICAL-VOLUME	Micro-Pipette, Pipette (Piston Operated Pipette, Graduated)	Using Distilled Water & Digital Weighing Balance (readability : 0.01 mg) by Gravimetric Method as per ISO 8655	>100 µl to 1000 µl	2.9 µl
220	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class I and Coarser (readability : 0.01 mg)	Using Weight(s) of E1 Accuracy Class Methods by Comparison Method as Per OIML R 76-1	0 to 220 g	0.1 mg
221	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class I and Coarser (readability : 0.01 mg)	Using Weight(s) of E1 Accuracy Class By Comparison Method as Per OIML R 76-1	0 to 80 g	0.1 mg
222	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class I and Coarser (readability : 1 mg)	Using Weight(s) of E1 & E2 Accuracy Class by Comparison Method as Per OIML R 76-1	0 to 1000 g	1.77 mg
223	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class II and Coarser (readability : 10 mg)	Using Weight(s) of E1 & E2 Accuracy Class By Comparison Method as Per OIML R 76-1	0 to 6 kg	11.8 mg



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224	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class III and Coarser (readability : 100 mg)	Using Weight(s) of E1 & E2 Accuracy Class by Comparison Method as Per OIML R 76-1	0 to 30 kg	0.94 g
225	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class III and Coarser (readability : 10 g)	Using Weight(s) of F1 Accuracy Class By Comparison Method as Per OIML R 76-1	0 to 300 kg	14.7 g
226	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class III and Coarser (readability : 50 g)	Using Weight(s) of F1 & M1 Accuracy Class By Comparison Method as Per OIML R 76-1	0 to 1000 kg	70.2 g
227	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance -Accuracy Class III and Coarser (readability : 1 g)	Using Weight(s) of F1 Accuracy Class By Comparison Method as Per OIML R 76-1	0 to 50 kg	1.8 g
228	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance - Class III and coarser (Readability: 100 g)	Using Weight(s) of F1Accuracy Class By Comparison Method	0 to 200 kg	377 g



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229	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of Accuracy Class E1 and Electronic Weighing Balance (redability : 0.01 mg), by Substitution Method using ABBA Cycle based on OIML R-111	1 g	0.03 mg
230	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of Accuracy Class E2 and Electronic Weighing Balance (redability : 0.001 g) by Substitution Method using ABBA Cycle based on OIML R-111	1 kg	1.5 mg
231	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of Accuracy Class E1 and Electronic Weighing Balance (redability : 0.01 mg) by Substitution Method using ABBA Cycle based on OIML R-111	10 g	0.04 mg



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232	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of Accuracy Class E1 and Electronic Weighing Balance (readability : 0.0001 g) by Substitution Method using ABBA Cycle based on OIML R-111	100 g	0.15 mg
233	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of Accuracy Class E1 and Electronic Weighing Balance (readability : 0.01 mg) by Substitution Method using ABBA Cycle based on OIML R-111	100 mg	0.016 mg
234	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of Accuracy Class E1 and Electronic Weighing Balance (readability : 0.01 mg) by Substitution Method using ABBA Cycle based on OIML R-111	2 g	0.03 mg



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235	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of Accuracy Class E2 and Electronic Weighing Balance (redability : 0.001 g) by Substitution Method using ABBA Cycle based on OIML R-111	2 kg	3 mg
236	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of Accuracy Class E1 and Electronic Weighing Balance (redability : 0.01 mg) by Substitution Method using ABBA Cycle based on OIML R-111	20 g	0.04 mg
237	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of Accuracy Class E1 and Electronic Weighing Balance (redability : 0.0001 g) by Substitution Method using ABBA Cycle based on OIML R-111	200 g	0.2 mg



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238	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of Accuracy Class E1 Electronic Weighing Balance (redability : and 0.01 mg) by Substitution Method ABBA Cycle based on OIML R-111	200 mg	0.02 mg
239	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of Accuracy Class E1 and Electronic Weighing Balance (redability : 0.01 mg) by Substitution Method using ABBA Cycle based on OIMLR-111	5 g	0.03 mg
240	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of Accuracy Class E1 and Electronic Weighing Balance (redability : 0.01 mg) by Substitution Method using ABBA Cycle based on OIML R-111	50 g	0.1 mg



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241	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of Accuracy Class E1 and Electronic Weighing Balance (redability : 0.01 mg) by Substitution Method using ABBA Cycle based on OIML R-111	500 mg	0.02 mg
242	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of Accuracy Class E1 and Electronic Weighing Balance (redability : 0.01 g) by Substitution Method using ABBA Cycle based on OIML R-111	1 mg	0.01 mg
243	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of Accuracy Class E1 and Electronic Weighing Balance (redability : 0.01 mg) by Substitution Method using ABBA Cycle based on OIML R-111	10 mg	0.016 mg



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244	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of Accuracy Class E1 and Electronic Weighing Balance (redability : 0.01 mg) by Substitution Method using ABBA Cycle based on OIML R-111	2 mg	0.013 mg
245	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of Accuracy Class E1 and Electronic Weighing Balance (redability : 0.01 mg) by Substitution Method using ABBA Cycle based on OIML R-111	20 mg	0.016 mg
246	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of Accuracy Class E1 and Electronic Weighing Balance (redability : 0.01mg) by Substitution Method using ABBA Cycle based on OIML R-111	5 mg	0.013 mg



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247	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of Accuracy Class E1 and Electronic Weighing Balance (redability : 0.01 mg) by Substitution Method using ABBA Cycle based on OIML R-111	50 mg	0.016 mg
248	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of Accuracy Class E2 and Electronic Weighing Balance (redability : 0.001 g) by Substitution Method using ABBA Cycle based on OIML R-111	500 g	1.2 mg
249	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using Weights of Accuracy Class E1 & E2 and Electronic Weighing Balance (redability : 0.01 g) by Substitution Method using ABBA Cycle based on OIML R-111	5 kg	50 mg



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250	MECHANICAL-WEIGHTS	Accuracy class M2 & coarser	Using Weights of Accuracy Class F1 and Electronic Weighing Balance (redability : 0.1 g) by Substitution Method using ABBA Cycle based on OIML R-111	10 kg	240 mg
251	MECHANICAL-WEIGHTS	Accuracy class M2 & coarser	Using Weights of Accuracy Class F1 and Electronic Weighing Balance (redability : 0.1 g) by Substitution Method using ABBA Cycle based on OIML R-111	20 kg	350 mg
252	MECHANICAL-WEIGHTS	Accuracy class M3	Using Weights of Accuracy Class F1 and Electronic Weighing Balance (redability : 1 g) by Substitution Method using ABBA Cycle based on OIML R-111	50 kg	5000 mg



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253	THERMAL-SPECIFIC HEAT & HUMIDITY	Dew Point Temperature Indicator with Sensor / Transmitter @ 10 % RH to 95 %RH	Using Temperature & Humidity Indicator with Sensor, Multifunction Calibrator & Humidity Chamber by Comparison Method	0.4 °C to 50 °C	0.8 °C
254	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator, Humidity Transmitter, Thermohygrometer, Temperature & Humidity indicator with Sensor/Probe @ 23 °C	Using Temperature & Humidity Indicator with Sensor, DMM & Humidity Chamber by Comparison Method	5 %RH	1.5 %RH
255	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator/Controller with Sensor of Humidity Chamber, Humidity Generator, Stability Chamber, Environment Chamber, Salt Spray Chamber, Humidifier, Room, Dehumidifier - Single Position Calibration @ 25 °C	Using Temperature & Humidity Indicator with Sensor by Comparison Method	10 %RH to 95 %RH	2.2 %RH



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256	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo Hygrometer / Humidity Indicator / Humidity Transmitter , Humidity Sensor / Humidity Probe, Temperature & Humidity Indicator @ 25 °C	Using Temperature & Humidity Indicator with Sensor, DMM & Humidity Chamber by Comparison Method	10 %RH to 95 %RH	1.05 %RH
257	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo Hygrometer / Humidity Indicator with Sensor / Humidity Probe, Humidity Transmitter @ 10 °C, 25 °C, 60 °C	Using Temperature & Humidity Indicator with Sensor, DMM & Humidity Chamber by Comparison Method	20 %RH to 90 %RH	1.5 %RH
258	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo Hygrometer, Humidity Indicator, Humidity Transmitter, Humidity Sensor / Humidity Probe, Temperature & Humidity Indicator @ 50 %RH	Using Temperature & Humidity Indicator with Sensor, DMM & Humidity Chamber by Comparison Method	10 °C to 50 °C	0.32 °C



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259	THERMAL-TEMPERATURE	Blackbody Source, IR Thermal Source, Blackbody Cavity (Built in Temperature sensor with Display unit (Emissivity : 0.95) (for non medical purpose only)	Using Infrared Thermometer (Emissivity : 0.95) by Comparison Method	3.7 °C to 500 °C	2.18 °C
260	THERMAL-TEMPERATURE	Infrared Thermometer, Pyrometer, Non-Contact Thermometer, Thermal imager (for non medical purpose only) (Emissivity : 0.95)	Using Infrared Thermometer(emissivity 0.95) & Black Body Source by Comparison Method	(-) 15 °C to 15 °C	2 °C
261	THERMAL-TEMPERATURE	Infrared Thermometer, Pyrometer, Non-Contact Thermometer, Thermal Imager (for temperature only) (non medical purpose only) (Emissivity : 0.95)	Using Infrared Thermometer & Black Body Source by Comparison Method	3.7 °C to 500 °C	2.3 °C



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262	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SPRT Sensor with Data Logger (Temperature Scanner) and Liquid Bath by Comparison Method	20 °C to 250 °C	0.6 °C
263	THERMAL-TEMPERATURE	PRT, RTD, Thermocouple (With or Without Indicator), Data Logger, Recorder, Transmitter, Digital Thermometer, Temperature Gauge, Thermostat/Temperature Switch with sensor, Thermistor with sensor	Using PRT with Data Logger (Temperature Scanner) with DMM and Dry Bath By Comparison Method	(-) 45 °C to 100 °C	0.11 °C
264	THERMAL-TEMPERATURE	PRT, RTD, Thermocouple (With or Without Indicator), Data Logger, Recorder, Transmitter, Digital Thermometer, Temperature Gauge, Thermostat/Temperature Switch with sensor, Thermistor with sensor	Using SPRT with Data Logger (Temperature Scanner) with DMM and Dry Bath By Comparison method	100 °C to 650 °C	0.16 °C



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265	THERMAL-TEMPERATURE	Temperature Indicator / Thermostat Controller with sensor of Liquid Bath, Dry Block Furnace, Freezer, Environmental Chamber, Cold Room, Oven, Muffle Furnace (MFI), Ageing Oven, Hot Set Apparatus, Curing Tank, Centrifuge (for non purpose only) - Single Position Calibration	Using SPRT with Data Logger (Temperature Scanner) by Comparison Method	(-) 70 °C to 600 °C	0.10 °C
266	THERMAL-TEMPERATURE	Temperature Indicator/Thermostat Controller with Sensor of Muffle Furnace, Dry Block Furnace	Using R type Thermocouple with Data Logger (Temperature Scanner) by Comparison Method	600 °C to 1200 °C	1.2 °C



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267	THERMAL-TEMPERATURE	Thermocouple (With or Without Indicator), Data Logger, Recorder, Transmitter, Digital Thermometer, Temperature Gauge, Thermostat/Thermistor/Temperature Switch with indicator	Using R type Thermocouple, Data Logger (Temperature Scanner) with DMM and High Temperature Furnace by Comparison Method	650 °C to 1200 °C	1.1 °C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter by Direct Method	1 V to 10 V	0.015 % to 0.011 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy @ 50 Hz (1 Phase 2 Wire, UPF to 0.5 (Lead / Lag), 240 V, 1 A to 25 A)	Using Energy Logger by Direct Method	150 Wh to 12 kWh	1.96 % to 1.47 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy @ 50 Hz, (1P2W, 3P4W, UPF to 0.5 (Lead / Lag), 240 V, 1 A to 25 A)	Using Energy Logger by Direct Method	360 Wh to 18 kWh	3.27 % to 2.39 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Power @ 50 Hz (1P2W & 3P4W, UPF to 0.5 (Lead / Lag), 240 V, 1 A to 25 A)	Using Energy Logger by Direct Method	120 W to 18 kW	6.21 % to 1.55 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Power @ 50 Hz {1 Phase 2 Wire, (-) 0.1 PF to UPF to 0.1 PF, 40 V to 480 V, 0.1 A to 20 A}	Using Power Meter by Direct Method	0.4 W to 9.6 kW	0.33 % to 0.86 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Energy logger with CT cable by direct method	10 A to 1000 A	1.51 % to 1.46 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter by Direct Method	1 A to 20 A	0.11 % to 0.32 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	1 A to 20 A	0.19 % to 0.32 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter by Direct Method	1 mA to 1 A	0.06 % to 0.11 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	1 mA to 1 A	0.1 % to 0.19 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6½ Digit Digital Multimeter by Direct Method	100 µA to 100 mA	0.6 % to 0.12 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6½ Digit Digital Multimeter by Direct Method	100 mA to 10 A	0.12 % to 0.4 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter by Direct Method	30 µA to 1 mA	0.12 % to 0.06 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	30 µA to 1 mA	0.18 % to 0.1 %



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with Digital Multimeter by Direct Method	1 kV to 28 kV	6.4 % to 6.66 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter by Direct Method	1 mV to 100 mV	0.74 % to 0.023 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	1 mV to 100 mV	0.88 % to 0.025 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	1 V to 10 V	0.015 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit Digital Multimeter by Direct Method	10 mV to 100 mV	1.1 % to 0.12 %



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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter by Direct Method	10 V to 1000 V	0.01 % to 0.02 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	10 V to 1000 V	0.05 % to 0.02 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit Digital Multimeter by Direct Method	10 V to 1000 V	0.1 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	100 mV to 1 V	0.023 % to 0.013 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 8½ Digit Digital Multimeter by Direct Method	100 mV to 1 V	0.023 % to 0.02 %



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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit Digital Multimeter by Direct Method	100 mV to 10 V	0.12 % to 0.10 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor / Phase Angle (Lead & Lag) @ 50 Hz	Using Power Meter by Direct Method	0.1 PF to UPF	0.025 PF
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Active Power @ 50 Hz {1 Phase 2 Wire, (-) 0.1 PF to UPF to 0.1 PF, 40 V to 480 V, 0.1 A to 20 A}	Using Digital Multi Product Calibrator with Current Coil By Direct Method	0.4 W to 9.6 kW	0.23 % to 0.2 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Digital Multi Product Calibrator and Current Coil By Direct Method	20 A to 1000 A	4.27 % to 2.57 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Digital Multi Product Calibrator By Direct Method	10 A to 20 A	0.14 % to 0.2 %



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30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Digital Multi Product Calibrator By Direct Method	30 μ A to 300 mA	0.3 % to 0.06 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Digital Multi Product Calibrator By Direct Method	300 mA to 10 A	0.06 % to 0.14 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Digital Multi Product Calibrator By Direct Method	1 mV to 300 mV	0.4 % to 0.06 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Digital Multi Product Calibrator By Direct Method	30 V to 1000 V	0.04 % to 0.23 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Digital Multi Product Calibrator By Direct Method	300 mV to 30 V	0.06 % to 0.04 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Digital Multi Product Calibrator By Direct Method	0.5 nF to 1 μ F	2.89 % to 0.41 %



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36	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Digital Multi Product Calibrator By Direct Method	1 μ F to 100 μ F	0.41 % to 0.64 %
37	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor / Phase Angle (Lead / Lag) @ 50 Hz (240 V, 10 A, Single Phase)	Using Digital Multi Product Calibrator By Direct Method	0.1 PF to UPF	0.06 PF
38	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	1 μ A to 1 mA	0.7 % to 0.007 %
39	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Digital Multimeter by Direct Method	1 μ A to 100 mA	1.5 % to 0.08 %
40	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Digital Multimeter by Direct Method	1 μ A to 1 mA	0.17 % to 0.007 %
41	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Digital Multimeter by Direct Method	1 A to 20 A	0.022 % to 0.06 %



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42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	1 A to 20 A	0.03 % to 0.06 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Digital Multimeter by Direct Method	1 mA to 1 A	0.007 % to 0.023 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	1 mA to 1 A	0.007 % to 0.03 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Digital Multimeter by Direct Method	100 mA to 10 A	0.08 % to 0.19 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with Digital Multimeter Direct Method	1 kV to 40 kV	6.8 % to 3.9 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Power (10 V to 1000 V, 0.1 A to 20 A)	Using Power Meter AC/DC by Direct Method	0.1 W to 20 kW	0.15 %



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48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Digital Multimeter by Direct Method	1 mV to 10 V	0.41 % to 0.008 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	1 mV to 100 mV	0.04 % to 0.0015 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Digital Multimeter by Direct Method	1 mV to 100 mV	0.04 % to 0.0015 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	1 V to 1000 V	0.001 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Digital Multimeter by Direct Method	1 V to 1000 V	0.001 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Digital Multimeter by Direct Method	10 V to 1000 V	0.008 % to 0.007 %



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54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Digital Multimeter by Direct Method	100 mV to 1 V	0.0015 % to 0.001 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Digital Multimeter & Digital Multi Product Calibrator by Comparison Method	100 mV to 1 V	0.003 % to 0.001 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 8½ Digit Digital Multimeter by Direct Method	1 Mohm to 20 Gohm	0.004 % to 0.41 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire, 4 Wire)	Using 8½ Digit Digital Multimeter by Direct Method	1 kohm to 1 Mohm	0.004 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire, 4 Wire)	Using 6½ Digit Digital Multimeter by Direct Method	1 Mohm to 1 Gohm	0.04 % to 2.61 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire, 4 Wire)	Using 8½ Digit Digital Multimeter by Direct Method	1 Ohm to 1 kohm	0.06 % to 0.004 %



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60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire, 4 Wire)	Using 6½ Digit Digital Multimeter by Direct Method	1 Ohm to 1 Mohm	0.36 % to 0.04 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire, 4 Wire)	Using 8½ Digit Digital Multimeter by Direct Method	100 mohm to 1 Ohm	0.6 % to 0.06 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 6½ Digit Digital Multimeter, Multiproduct Calibrator by V/I Method	1 mohm to 1 Ohm	0.5 % to 0.08 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Digital Multi Product Calibrator By Direct Method	1 µA to 300 mA	0.16 % to 0.03 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Digital Multi Product Calibrator and Current Coil By Direct Method	20 A to 1000 A	0.32 % to 2.43 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Digital Multi Product Calibrator By Direct Method	300 mA to 20 A	0.03 % to 0.09 %



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66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (1 Phase 2 Wire, 1 V to 1000 V, 0.1 A to 20 A)	Using Digital Multi Product Calibrator By Direct Method	0.1 W to 20 kW	0.4 % to 1.2 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Digital Multi Product Calibrator By Direct Method	1 mV to 1 V	0.16 % to 0.007 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Digital Multi Product Calibrator By Direct Method	1 V to 1000 V	0.007 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Insulation Resistance (2 Wire) @ 1000 V	Using Mega Ohm Box (Discrete Value) by Direct Method	2 Gohm	2.36 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Insulation Resistance (2 Wire) @ 1000 V	Using Mega Ohm Box (Discrete Value) Direct Method	2 Mohm	2.33 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Insulation Resistance (2 Wire) @ 1000 V	Using Mega Ohm Box (Discrete Value) by Direct Method	20 Gohm	2.36 %



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72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Insulation Resistance (2 Wire) @ 1000 V	Using Mega Ohm Box (Discrete Value) Direct Method	20 Mohm	3.45 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Insulation Resistance (2 Wire) @ 1000 V	Using Mega Ohm Box (Discrete Value) Direct Method	200 Mohm	2.39 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using Digital Multi Product Calibrator By Direct Method	1 Mohm to 100 Mohm	0.02 % to 0.58 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using Digital Multi Product Calibrator By Direct Method	100 kohm to 1 Mohm	0.02 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using Digital Multi Product Calibrator By Direct Method	100 Mohm to 1 Gohm	0.58 % to 1.8 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire, 4 Wire)	Using Digital Multi Product Calibrator By Direct Method	1 Ohm to 100 kohm	1.17 % to 0.02 %



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78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire, 4 Wire)	Using Resistance Box (Discrete Value) Direct Method	10 Ohm	0.6 %
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire, 4 Wire)	Using Resistance Box (Discrete Value) Direct Method	100 Ohm	0.64 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Resistance Box (Discrete Value) Direct Method	1 kohm	0.64 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Resistance Box (Discrete Value) Direct Method	1 mohm	0.99 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Resistance Box (Discrete Value) Direct Method	1 Ohm	1.16 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Resistance Box (Discrete Value) Direct Method	10 mohm	0.6 %



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84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Resistance Box (Discrete Value) Direct Method	100 mohm	0.6 %
85	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Oscilloscope Amplitude @ 1 kHz to 50 kHz (Square wave, Sine Wave @ 1 Mohm)	Using Digital Multi Product Calibrator By Direct Method	5 mV to 30 V	0.63 % to 0.64 %
86	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Bandwidth)	Using Digital Multi Product Calibrator By Direct Method	50 kHz to 200 MHz	5.2 % to 8.2 %
87	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time Base (Marker)	Using Digital Multi Product Calibrator By Direct Method	10 ns to 1 s	0.63 % to 0.14 %
88	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	pH meter	Using Digital Multiproduct Calibrator by Simulation Method	0 pH to 14 pH (379 mV to (-) 379 mV)	1.13 %
89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	600 °C to 1800 °C	0.3 °C



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90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	(-) 200 °C to 1000 °C	0.3 °C
91	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	(-) 200 °C to 1200 °C	0.43 °C
92	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	(-) 200 °C to 1200 °C	0.44 °C
93	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	(-) 200 °C to 1300 °C	0.45 °C
94	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	0 °C to 1700 °C	0.88 °C
95	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (Pt 100)	Using Digit Digital Multimeter by Direct Method	(-) 200 °C to 800 °C	0.08 °C



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96	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	0 °C to 1700 °C	0.79 °C
97	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	(-) 200 °C to 400 °C	0.43 °C
98	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B-Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	600 °C to 1800 °C	0.37 °C
99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E-Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	(-) 200 °C to 1000 °C	0.37 °C
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	(-) 200 °C to 1200 °C	0.31 °C
101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	(-) 200 °C to 1200 °C	0.31 °C



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102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	(-) 200 °C to 1300 °C	0.46 °C
103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	0 °C to 1700 °C	0.66 °C
104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt 100)	Using Digital Multi Product Calibrator By Direct Method	(-) 200 °C to 800 °C	0.08 °C
105	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	0 °C to 1700 °C	0.54 °C
106	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using Digital Multi Product Calibrator By Direct Method	(-) 200 °C to 400 °C	0.73 °C
107	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 8½ Digit Digital Multimeter by Direct Method	10 Hz to 1 MHz	0.06 % to 0.006 %



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108	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Digital Multimeter by Direct Method	10 Hz to 1 MHz	0.082 % to 0.017 %
109	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Digital Time Calibrator by Comparison Method	1 s to 3600 s	0.29 s to 0.6 s
110	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Timer Calibrator by Direct Method	3600 s to 36000 s	0.6 s to 2.13 s
111	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Timer Calibrator by Direct Method	36000 s to 86400 s	2.13 s to 5.3 s
112	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using digit Multi-Product Calibrator By Direct Method	10 Hz to 1 MHz	0.014 % to 0.003 %
113	FLUID FLOW-FLOW MEASURING DEVICES	Dial Flow Meter, Digital Flow Meter, Flow Transmitter, Flow Transducer (medium : water)	Using Ultrasonic Flow Meter (Clamp on type) by Comparison Method	14 m ³ /hr to 700 m ³ /hr	1.6 %



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114	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Contact type)	Using Digital Tachometer & RPM Source By Comparison Method	1000 rpm to 6000 rpm	2.2 rpm
115	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non-Contact type)	Using Digital Tachometer & RPM Source by Comparison Method	1000 rpm to 10000 rpm	2.2 rpm
116	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non-Contact type)	Using Digital Tachometer & RPM Source by Comparison Method	10 rpm to 1000 rpm	1 rpm
117	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non-Contact type)	Using Digital Tachometer & RPM Source by Comparison Method	10000 rpm to 90000 rpm	4 rpm
118	MECHANICAL-ACCELERATION AND SPEED	RPM indicator of RPM Source (Non-Contact type)	Using Digital Tachometer by Comparison Method	10 rpm to 1000 rpm	1.4 rpm
119	MECHANICAL-ACCELERATION AND SPEED	RPM indicator of RPM Source (Non-Contact type)	Using Digital Tachometer by Comparison Method	1000 rpm to 10000 rpm	2.7 rpm
120	MECHANICAL-ACCELERATION AND SPEED	RPM indicator of RPM Source (Non-Contact type)	Using Digital Tachometer by Comparison Method	10000 rpm to 90000 rpm	4.2 rpm
121	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact type)	Digital Tachometer & RPM Source By Comparison Method	10 rpm to 1000 rpm	1.2 rpm



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122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand Flatness	Using Dial Test Indicator with Screw Jack set	50 mm x50 mm to 300 mm x300 mm	4 µm
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Calibration Tester (L.C.: 0.0002 mm)	Using electronic Probe by Comparison Method	0.0002 mm to 25 mm	1.3 µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial Template (ID, OD, HEIGHT, THICKNESS Linear Dimension)	Using Digital Caliper / Depth Gauge by Direct Method	Up to 1000 mm	40 µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Thickness Foil	Using Comparator stand & electronic Probe by Comparison Method	0.01 mm to 0.696 mm	1.5 µm
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Flatness	Using Electronic Level by Comparison Method	300 mm x 300 mm to 1000 mm x 2000 mm	1.1 x (sqrt L+W/150) µm (L & W in mm)



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127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Verification/Calibration of Displacement Measuring System and Device Used in Material Testing Machine (Encoder, Actuator, LVDT) (L.C.: 0.001 mm)	Using Height Gauge by Comparison Method	0 to 600 mm	0.29 mm
128	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Extensometer, LVDT, Displacement Device (L.C.: 0.0001 mm)	Using Slip Gauge Set with Comparator / Electronic Probe by Comparison Method	0.005 mm to 25 mm	0.26 µm
129	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Linear Travel of Microscope (Brinell Measuring Device) (L.C.: 0.001 mm)	Using Glass Scale by Comparison Method	0 to 7 mm	9.9 µm
130	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	LVDT, COD Gauge, Electronic Probe with DRO (L.C.: 0.001 mm)	using Slip Gauge Set with Comparator by Comparison Method	0 to 600 mm	15.1 µm
131	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope / Metallurgical Microscope (Magnification)	Using Glass Scale, Glass Scale, Digital Vernier Caliper by Comparison Method	10 X to 2000 X	0.6 %
132	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / VMM (Angular) (L.C.: 1 second of arc)	Using Angle Gauge Set by Comparison Method	0 ° to 360 °	41 second of arc



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133	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Microscope (Magnification)	Using Glass Scale, Slip Gauge Set, Digital Caliper by Comparison Method	10 X to 100 X	1.5 %
134	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Microscope, VMM, (Linear Dimension) (L.C.: 0.001 mm)	Using Glass Scale, Slip Gauge Set by Comparison Method	0.01 mm to 200 mm	8.4 µm
135	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Scale & Tape Calibrator (LMM) (L.C.: 0.001 mm)	Using Slip Gauge with Accessories Set by Comparison Method	0 to 1000 mm	10.5 µm
136	MECHANICAL-FORCE PROVING INSTRUMENTS	Force Calibration Machine - Comparison, Multiplication, Hydraulic Type	Using Reference Transfer Standard by Comparison Method as per Euramet cg-4	10 kN to 200 kN	0.04 %
137	MECHANICAL-FORCE PROVING INSTRUMENTS	Force Calibration Machine - Dead Weight Type	Using Reference Transfer Standard by Comparison Method as per Euramet cg-4	10 N to 50 kN	0.017 %
138	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1500-2:2021, ISO 6506-2:2017 & ASTM E-10:2018	HBW 10/3000	2.22 %



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139	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1500-2:2021, ISO 6506-2:2017 & ASTM E-10:2018	HBW 2.5/187.5	2.3 %
140	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1500-2:2021, ISO 6506-2:2017 & ASTM E-10:2018	HBW 5/250	2.77 %
141	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1500-2:2021, ISO 6506-2:2017 & ASTM E-10:2018	HBW 5/750	2.1 %
142	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Tester	Using Standard Hardness Testing Blocks as per IS 1501-2: 2020, ISO 6507-2: 2018 & ASTM E-92: 2017 & ASTM E-384: 2017	HV 0.2	3.4 %



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143	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Tester	Using Standard Hardness Testing Blocks as per IS 1501-2: 2020, ISO 6507-2: 2018 & ASTM E-92: 2017 & ASTM E-384: 2017	HV 0.5	3 %
144	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Tester	Using Standard Hardness Testing Blocks as per IS 1501-2: 2020, ISO 6507-2: 2018 & ASTM E-92: 2017 & ASTM E-384: 2017	HV 1	3 %
145	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Tester	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1501-2:2020, ISO 6507-2:2018 & ASTM E-92:2017 & ASTM E-384:2017	HV 0.3	3 %
146	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell & Portable Hardness Tester	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1586-2:2018, ISO 6508-2:2015, ASTM E-18:2022	HRA	1.4 HRA



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147	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell & Portable Hardness Tester	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1586-2:2018, ISO 6508-2:2015, ASTM E-18:2022	HRBW	1.1 HRBW
148	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell & Portable Hardness Tester	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1586-2:2018, ISO 6508-2: 2015	HRC	0.9 HRC
149	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell & Rockwell Superficial, Brinell, Vickers & Microvickers Hardness Tester	Using Class 0.5 / 1 Force Proving Instruments / Load Cells as per IS 1586, ISO 6508-2, IS 1500, ISO 6506-2 & IS 1501, ISO 6507-2	0.25 N to 29421 N	0.71 %
150	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell & Rockwell Superficial, Brinell, Vickers & Microvickers Hardness Tester - Time Cycle	Using Stop Watch as per as per IS 1586 & ISO 6508-2 & ASTM E 18 / IS 1500 & ISO 6506 & ASTM E 10 / IS 1501 & ISO 6507 & ASTM E 92 & ASTM E-384	1 s to 20 s	0.9 s



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151	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1501-2:2020, ISO 6507-2:2018, ASTM E-92:2017, ASTM E-384:2017	HV 10	2 %
152	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1501-2:2020, ISO 6507-2:2018, ASTM E-92:2017, ASTM E-384: 2017	HV 20	2.0 %
153	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1501-2:2020, ISO 6507-2: 2018, ASTM E-92:2017, ASTM E-384:2017	HV 30	2 %



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154	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester	Using Standard Hardness Testing Blocks Indirect Method as per IS 1501-2:2020, ISO 6507-2:2018, ASTM E-92: 2017, ASTM E-384:2017	HV 5	2.5 %
155	MECHANICAL-IMPACT TESTING MACHINE	Impact Testing Machine (Charpy)	By Using Load Cell, Clinometer, Stop Watch, Dial Gauge, Measuring Tape, Angle Gauge and Other Measuring Instruments and Gauges as per IS1757- 2, ISO 148-2, ASTM E 23 & BS-131-4 by Direct Method & Indirect Method (for Verification)	Upto to 300 J	1.33 %



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156	MECHANICAL-IMPACT TESTING MACHINE	Impact Testing Machine (Izod)	Using Load Cell, Clinometer, Stop Watch, Dial Gauge, Measuring Tape, Angle Gauge and Other Measuring Instruments and Gauges as per BS-131- 4, ASTM E-23, ISO 13802 Direct Method	1 J to 170 J	2.1 %
157	MECHANICAL-PRESSURE INDICATING DEVICES	Absolute Pressure (Pressure Gauge, Pressure Indicator, Pressure Calibrator, Pressure Controller, Pressure Transmitter, Pressure Transducer, Pressure Switch, Pressure Recorder, Manometer	Using Barometric Pressure Indicator & Pressure Calibrator by Comparison Method as per DKD-R6-1	300 mbar(abs) to 1050 mbar(abs)	1.27 mbar
158	MECHANICAL-PRESSURE INDICATING DEVICES	Analog Pressure Gauge, Digital Pressure Gauge, Pressure Transmitter with Indicator / Transducer, Pressure Recorder, Pressure Switch (Hydraulic Medium)	Using Digital Pressure Gauge and Hydraulic Comparator Pump , 6½ Digit Digital Multimeter By Comparison Method as per DKD R6-1	0 to 700 bar	0.14 bar



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159	MECHANICAL-PRESSURE INDICATING DEVICES	Analog Pressure Gauge, Digital Pressure Gauge, Pressure Transmitter with Indicator/ Transducer, Pressure Recorder Pressure Switch (Pneumatic Medium)	Using Digital Pressure Gauge and Comparator, 6½ Digit Digital Multimeter By Comparison Method as per DKD R6-1	0 to 30 bar	0.0085 bar
160	MECHANICAL-PRESSURE INDICATING DEVICES	Analog Vacuum Gauge Digital Vacuum Gauge, Vacuum Transmitter / Transducer Vacuum Switch (Pneumatic Medium)	Using Digital Pressure Gauge and Vacuum Comparator, 6½ Digit Digital Multimeter By Comparison Method as per DKD R6-1	(-) 0.90 bar to 0	0.0074 bar
161	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Tensile / Universal Testing Machine, Load Testing Machine, Spring Testing Machine, Tensometer (Tension Mode)	Using Force Proving Instruments (Class 1 or better) as per IS 1828 (Part 1):2022 & ASTM E 4	200 kN to 1000 kN	0.4 %
162	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Tensile / Universal Testing Machine, Load Testing Machine, Spring Testing Machine, Tensometer (Tension Mode)	Using Force Proving Instruments (Class 1 or better) as per IS 1828 (Part 1):2022 & ASTM E 4	5 N to 200 kN	0.4 %



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163	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine, Load Testing Machine, Spring Testing Machine, Fluxural Testing Machine (Compression Mode)	Using Force Proving Instruments (Class 1 or better) as per IS 1828 (Part 1):2022 & ASTM E 4	200 kN to 3000 kN	0.4 %
164	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine, Load Testing Machine, Spring Testing Machine, Fluxural Testing Machine (Compression Mode)	Using Force Proving Instruments (Class 1 or better) as per IS 1828 (Part 1):2022 & ASTM E 4	5 N to 200 kN	0.4 %
165	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine, Spring Testing Machine, Load Testing Machine (Compression Mode)	Using Newton Weights by Comparison Method as per IS 1828 (Part 1):2022, ISO 7500-1:2018 , ASTM E 4	0.1 N to 5 N	0.81 %
166	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine, Spring Testing Machine, Tensometer (Tension Mode)	Using Newton Weights & Load Cell with Indicator as per IS 1828 (Part 1):2022, ISO 7500-1:2018 , ASTM E 4 by Comparison Method	0.1 N to 5 N	0.4 %



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167	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine, Spring Testing Machine, Tensometer, Flexural Testing Machine (Speed Measurement)	Using Height Gauge, Lever Dial, Stop Watch and Hygrometer by Comparison Method as per ASTM E 2658	0 to 600 mm/minute	0.3 %
168	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class I and Coarser (readability : 0.01 mg)	Using Weight(s) of E1 Accuracy Class Methods by Comparison Method as Per OIML R 76-1	0 to 220 g	0.1 mg
169	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class I and Coarser (readability : 0.01 mg)	Using Weight(s) of E1 Accuracy Class By Comparison Method as Per OIML R 76-1	0 to 80 g	0.1 mg
170	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class I and Coarser (readability : 1 mg)	Using Weight(s) of E1 & E2 Accuracy Class by Comparison Method as Per OIML R 76-1	0 to 1000 g	1.77 mg
171	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class II and Coarser (readability : 10 mg)	Using Weight(s) of E1 & E2 Accuracy Class By Comparison Method as Per OIML R 76-1	0 to 6 kg	11.8 mg



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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)(±)
172	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class III and Coarser (readability : 100 mg)	Using Weight(s) of E1 & E2 Accuracy Class by Comparison Method as Per OIML R 76-1	0 to 30 kg	0.94 g
173	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class III and Coarser (readability : 10 g)	Using Weight(s) of F1 Accuracy Class By Comparison Method as Per OIML R 76-1	0 to 300 kg	14.7 g
174	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class III and Coarser (readability : 50 g)	Using Weight(s) of F1 & M1 Accuracy Class By Comparison Method as Per OIML R 76-1	0 to 1000 kg	70.2 g
175	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance -Accuracy Class III and Coarser (readability : 1 g)	Using Weight(s) of F1 Accuracy Class By Comparison Method as Per OIML R 76-1	0 to 50 kg	1.8 g
176	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance - Class III and coarser (Readability: 100 g)	Using Weight(s) of F1Accuracy Class By Comparison Method	0 to 200 kg	377 g



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

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DRS TESTING TECHNOLOGIES PRIVATE LIMITED, PLOT NO. SH-13, SECTOR-63A,
NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA

Accreditation Standard

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177	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator/Controller with Sensor of Humidity Chamber, Humidity Generator, Stability Chamber, Environment Chamber, Salt Spray Chamber, Humidifier, Room, Dehumidifier - Single Position Calibration @ 25 °C	Using Temperature & Humidity Indicator with Sensor by Comparison Method	10 %RH to 95 %RH	2.2 %RH
178	THERMAL-TEMPERATURE	Blackbody Source, IR Thermal Source, Blackbody Cavity (Built in Temperature sensor with Display unit (Emissivity : 0.95) (for non medical purpose only)	Using Infrared Thermometer (Emissivity : 0.95) by Comparison Method	3.7 °C to 500 °C	2.18 °C



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179	THERMAL-TEMPERATURE	Deep Freezer, Oven, Liquid Bath, Incubator, Humidity Chamber, Climatic Chamber / Room, Autoclave, Refrigerator, BOD (Industrial purpose only), Environmental Chamber - Multi Position Calibration	Using RTD Sensors (minimum 9) with Data Logger (Temperatutre Scanner) by Comparison Method	(-) 30 °C to 250 °C	1.4 °C
180	THERMAL-TEMPERATURE	Industrial Furnace, Oven, Furnace, Chamber, Furnace Room, Autoclave, Incubator (for non medical purpose only) - Multi Position Calibration	Using N Type Thermocouple sensors (minimum 9) with Data Logger (Temperatutre Scanner) by Comparison Method	250 °C to 1100 °C	6 °C
181	THERMAL-TEMPERATURE	Infrared Thermometer, Pyrometer, Non-Contact Thermometer, Thermal imager (for non medical purpose only) (Emissivity : 0.95)	Using Infrared Thermometer(emissivity 0.95) & Black Body Source by Comparison Method	(-) 15 °C to 15 °C	2 °C



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182	THERMAL-TEMPERATURE	Infrared Thermometer, Pyrometer, Non-Contact Thermometer, Thermal Imager (for temperature only) (non medical purpose only) (Emissivity : 0.95)	Using Infrared Thermometer & Black Body Source by Comparison Method	3.7 °C to 500 °C	2.3 °C
183	THERMAL-TEMPERATURE	PRT, RTD, Thermocouple (With or Without Indicator), Data Logger, Recorder, Transmitter, Digital Thermometer, Temperature Gauge, Thermostat/Temperature Switch with sensor, Thermistor with sensor	Using PRT with Data Logger (Temperature Scanner) with DMM and Dry Bath By Comparison Method	(-) 45 °C to 100 °C	0.11 °C



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184	THERMAL-TEMPERATURE	PRT, RTD, Thermocouple (With or Without Indicator), Data Logger, Recorder, Transmitter, Digital Thermometer, Temperature Gauge, Thermostat/Temperature Switch with sensor, Thermistor with sensor	Using SPRT with Data Logger (Temperature Scanner) with DMM and Dry Bath By Comparison method	100 °C to 650 °C	0.16 °C
185	THERMAL-TEMPERATURE	Temperature Indicator / Thermostat Controller with sensor of Liquid Bath, Dry Block Furnace, Freezer, Environmental Chamber, Cold Room, Oven, Muffle Furnace (MFI), Ageing Oven, Hot Set Apparatus, Curing Tank, Centrifuge (for non purpose only) - Single Position Calibration	Using SPRT with Data Logger (Temperature Scanner) by Comparison Method	(-) 70 °C to 600 °C	0.10 °C



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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
186	THERMAL-TEMPERATURE	Temperature Indicator/Thermostat Controller with Sensor of Muffle Furnace, Dry Block Furnace	Using R type Thermocouple with Data Logger (Temperature Scanner) by Comparison Method	600 °C to 1200 °C	1.2 °C
187	THERMAL-TEMPERATURE	Thermocouple (With or Without Indicator), Data Logger, Recorder, Transmitter, Digital Thermometer, Temperature Gauge, Thermostat/Thermistor/Temperature Switch with indicator	Using R type Thermocouple, Data Logger (Temperature Scanner) with DMM and High Temperature Furnace by Comparison Method	650 °C to 1200 °C	1.1 °C

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



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Single Source for Multi Parameter with NABL Accreditation

Testing & Calibration Lab



1500+ Customers



25+ Professionals



15+ Years Experience



Force



Electro-Technical



Thermal

COMPANY PROFILE



Force



Electro-Technical



Thermal



Torque Sensor



Dimension



Mass & Volume



Pressure



Torque Wrench



UTM



Weighing Balance



Hardness



Speed

**High Accuracy Calibrators | Quick Response
On-Site Calibration Facilities | Business with all types of Industries
Calibration Support to all over India**

About Our Laboratory

We, **DRS Engineering and Calibration Services**, being in the business of Calibration with continuous implementation for the past 13 years and it self a Single Source for Multiparameter calibration in the field of **Mechanical** [Force Proving Instruments, Pressure, Vacuum, Weights, Weighing Machine, Volume, Dimension, Force - Uni Axial Testing Machines, Hardness, Torque, Hardness, RPM (Speed),] **Electro - Technical & Thermal** [Temperature & Humidity] and moreover Our Laboratory is well resourced with Equipment's, Techniques, Procedures, Environment and Expertise.

Our Laboratory is accredited by NABL (National Accreditation Board for Testing and Calibration Laboratories) under the Constituent Board of Quality Council of India, Department of Industrial Policy and Promotion, Government of India in accordance to the Competence of **ISO / IEC 17025: 2017** with Accreditation **Certificate No. CC - 1048**.

The Equipment's used for Calibration are High in Accuracy Calibrators such as **Dead Weight Force Standard Machine with accuracy of better than 0.02%** of the applied force is capable of calibrating ISO 376 Class 0.5, ASTM E74 Class A, Fluke 5502A - Multiproduct Calibrator, **Fluke 8508A – 8-1/2 Digit Multimeter**, **Fluke** Pressure Calibrator, Fluke - SPRT, Fluke - Liquid Bat & DRY Baths , **Fluke – Thermo-Hygrometer Calibrators**, **Mettler Toledo - Semi Micro Balance**, Radwag - Electronic Balances, **HBM & GTM Germany - Load Cells**, Sushma Torque Wrench Calibration System, Sylvac, Mitutoyo & Rotronic which are fully Traceable to **NPL, IDEMI, ETDC, FRI & NABL Accredited Laboratory**.

At present, we have a team of 25 members and above with more than 1500 Clients, besides covered almost all the fields of Industries such as Automobile, Aeronautics, Aviation, Electrical, Electronic, Plastic, Rubber, Stamping, Fabrication, Construction, Concrete, Cement Plant, Power Plant, Atomic Power Plant, Steel Plant, Sugar Plant, Plating & Painting, Powder Coating, Chemical, Oil & Gas, Cosmetic, Food, Garment, Die - Casting, Foundry, Tiles, Petroleum Product, Heat Treatment, Bio – Tech Industry, Water, NABL Accredited Testing / Calibration / Medical Laboratory, Ships & Sea Port, Defence, Telecom, Metro Rail Project, Hospital, Healthcare, Pharmaceutical, Hotels and Educational Institution.

We have an excellent track record for continuous implementation in **Best Customer Satisfaction** with cost effective calibration solution to our esteemed Customers and enhancement of scope with **Best CMC** in Mechanical - Pressure, Vacuum, RPM, Sound, Viscosity, Density, Dimension, Force, Torque, Electro Technical - Voltage, Current, Frequency, Resistance, Temperature Simulation, High Voltage, Timer, Thermal - RTD, Thermocouple and Humidity. As we have expertise professionals for calibration and other supporting services, we never compromised on the quality and the services provided to the customer. We deliver time bound services and have more than 1k satisfied customers.

We offer both **In-house and On-Site Calibration** on wider range of Instruments with Calibration Certificates which are fully traceable to National / International Standards.

FORCE PROVING INSTRUMENTS CALIBRATION

Description	Range	Master Used
Proving Ring Dynamometer, Load Cell with Indicator (Calibration Method: ASTM E74, ISO 376, IS-4169)	100 N to 50 kN	Dead Weight Force Standard Machine
Proving Ring Dynamometer, Load Cell with Indicator (Calibration Method: ISO 376, IS-4169)	20 kN to 200 kN	Hydraulic Force Standard Machine



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FORCE PROVING INSTRUMENTS CALIBRATION

UNI-AXIAL TESTING MACHINE CALIBRATION

Description	Range	Master Used
Universal/Compression Testing Machine, Load Testing Machine, Spring Testing Machine, Flexural Testing Machine (Calibration Methods : IS1828, ISO 7500)	0.1 N to 3000 kN	Class 00 / 0.5 / 1 Load Cell with Indicator
Universal/Tensile Testing Machine, Load Testing Machine, Spring Testing Machine, Tensometer (Calibration Methods : IS1828, ISO 7500)	0.1 to 200 kN	Class 00 / 0.5 / 1 Load Cell with Indicator
Push Pull Gauge, Force Gauge	0.1 N to 1000 N	F1 Class Newton Weights
Verification of Speed for Testing Machine	0 to 600 mm/min	Digital Comparator & Time Calibrator
Extensometer	0 to 10 mm	High Accuracy Digital Comparator
Displacement of Universal Testing Machine	0 to 600 mm	High Accuracy Digital Comparator



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UNI-AXIAL TESTING MACHINE CALIBRATION

PRESSURE / VACUUM CALIBRATION

Description	Range	Master Used
Pneumatic Pressure Vacuum Gauge, Calibrator/Controller Monometer, Vacuum Switch, Analog Pressure Gauge, Digital Gauge, Pressure Transmitter, Pressure Switch	-1 to 30 bar	Fluke 2700G Accuracy: 0.02% Fluke 8846 A
Hydraulic Pressure Gauge / Calibrator / Controller Indicator / Transmitter	1 to 700 bar	Fluke 2700G Accuracy: 0.02% Fluke 8846 A



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PRESSURE / VACUUM CALIBRATION

WEIGHTS / WEIGHING BALANCE CALIBRATION

Description	Range	Master Used
Analytical Balance (0.1 mg)	Up to 220 g	E1 Class Weights
Analytical Balance	Up to 500 g	E1 & F1 Class Weights
Weighing Balance	Up to 300 Kg	F1 Class Weights
Weight Box	Up to 200 g	E1 Class Weights
Standard Weights	Up to 20 Kg	F1 Class Weights



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WEIGHTS / WEIGHING BALANCE CALIBRATION

HARDNESS CALIBRATION

Description	Range	Master Used
Metal Hardness Tester Rockwell	HRBW & HRC	Std Hardness Blocks
Portable Hardness Tester	HRBW & HRC	Std Hardness Blocks



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HARDNESS CALIBRATION

VOLUME / DENSITY CALIBRATION

Description	Range	Master Used
Micro Pipette	10 μ l to 1000 ml	Semi Micro Balance
Pipette, Burette, Measuring Jar/ Cylinder, Beaker, Standard/ Conical Flask, Specific Gravity Cup / Bottle, Weight per Litre Cup	0.1 ml to 20 l	Radweg Electronic Balance
Weighing Balance	Up to 300 Kg	F1 Class Weights
Weight Box	Up to 200 g	E1 Class Weights
Standard Weights	Up to 20 Kg	F1 Class Weights



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VOLUME / DENSITY CALIBRATION

DIMENSION CALIBRATION

Description	Range	Master Used
Micrometer, Height Gauge, Vernier Caliper	0 to 1000 mm	Grade '0' Carbide Slip Gauge Set, Length Bar Set
Plunger / Lever / Bore Dial Gauge	0 to 25 mm	Dial Calibration Tester
Coating Thickness Gauge	0 to 696 μ m	Elcometer Standard Foils
Measuring Scale / Tape, PITape	0 to 50 m	Scale and Tape Calibrator
Test Sieve	Up to 150 mm	Profile Projector
Bevel Protractor, Combination Set	0 to 360°	Profile Projector
Radius Gauge, Pitch Gauge Wire Gauge	Up to 25 mm	Profile Projector
Weld Fillet / Weld Gauge	Up to 60 mm	Profile Projector
Plain Plug / Width / Pin / Snap / Feeler Gauge	Up to 200 mm	Digital Comparator & Grade '0' Slip Gauge set
LVDT Probe	0 to 25 mm	Grade '0' Slip Gauge Set
Dial Caliper Gauge (Internal / External)	Up to 150 mm	Using Slip Gauge accessories set



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DIMENSION CALIBRATION

TORQUE / OTHER CALIBRATION

Description	Range	Master Used
Torque Sensors, Torque Masters, Torque Meter, Torque Transducer, Torque Calibrator	0.05 to 2000 Nm	Torque Standard Machine with Lever ARM & Stainless Steel Newtonian F1 Class Weights
Torque Wrench, Torque Screwdriver, Torque Gauge, Torque Multiplier (Type - I & Type - II)	0.2 to 2000 Nm	Automated Torque Calibration System
Tachometer, Centrifuge, RPM Meter / Indicator, Stroboscope	10 to 99000 RPM	High Accuracy Master Tachometer



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TORQUE / OTHER CALIBRATION

ELECTRO - TECHNICAL CALIBRATION

Description	Range	Master Used
Multi-Product Calibrator, Digital Multimeter	Up to 6 ½ Digit	Fluke 8508A 8 ½ Digit Multimeter & 5502A Multiproduct Calibrator
Multi-Function Calibrator, Temperature Calibrator	All Applicable Range	SUPERDAQ 1586A & FLUKE 8508A 8 ½ Digit Multimeter
Ammeter, Voltmeter, Frequency Meter	All Applicable Range	Fluke 5502A Multiproduct Calibrator



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ELECTRO - TECHNICAL CALIBRATION

ELECTRO - TECHNICAL CALIBRATION

Description	Range	Master Used
Earth Tester, Micro Ohm Meter	0.001 Ω to 2 kΩ	High Precision Decade Resistance Box
Insulation Tester, Megger, Motor Checker	Up to 20 GΩ	Decade Megohm Box
Decade Resistance Box	0.1 mΩ to 20 GΩ	8 ½ Digit Multimeter
Decade Capacitance Box	10 pF to 100 mF	6 ½ Digit Multimeter
Power Supply, Power Source	Up to 1000 V Up to 1000 A	Fluke 6 ½ Digit Multimeter & Fluke Energy Meter



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ELECTRO - TECHNICAL CALIBRATION

ELECTRO - TECHNICAL CALIBRATION

Description	Range	Master Used
CRO, Oscilloscope	Up to 300 MHz	Fluke 5502A Multiproduct Calibrator
Power Factor Meter	UPF to 0.2 Lead / Lag	Fluke 5502A Multiproduct Calibrator
Power Analyzer / Power Meter	Single Phase	Fluke 5502A Multiproduct Calibrator
High Voltage Tester	Up to 30 kV	Fluke 80k-40 High Voltage Probe with DMM
Timer, Stopwatch	Up to 24 hr	Time Calibrator
Temperature Controller / Indicator / Recorder / Data Logger	-200 to 1800 °C	Fluke 5502A Multifunction Calibrator



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ELECTRO - TECHNICAL CALIBRATION

ELECTRO - TECHNICAL CALIBRATION

Description	Range	Master Used
Power meter/Power analyzer. 1Ø and 3Ø	1Ø upto 6kW 3Ø upto 18kW	Energy And Power Analyzer Fluke
Energy Meter 1Ø (0.2 to UPF Lead/Lag)	Upto 6kWh	Energy And Power Analyzer Fluke
Energy Meter 3Ø (0.2 to UPF Lead/Lag)	Upto 18kWh	Energy And Power Analyzer Fluke
Power factor Measurement or Power Factor meter	0.2 to UPF (lead/lag)	Energy And Power Analyzer Fluke



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ELECTRO - TECHNICAL CALIBRATION

THERMAL CALIBRATION

Description	Range	Master Used
Temperature Controller / Indicator / Recorder Transmitter with Sensor, RTD, Thermocouple, Digital Thermometer	-40 to 1200 °C	SPRT Sensor, R Type Thermocouple & Super DAQ 1586 A
Temperature Bath, Dry Block Calibrator, Oven, Muffle, Water Bath etc.	-70 to 1200 °C	SPRT Sensor, R Type Thermocouple & Super DAQ 1586 A
Digital Thermometer, Wet & Dry Thermometer	-40 to 600 °C	SPRT Sensor, Super DAQ 1586 A
IR Thermometer, Pyrometer	0 to 500 °C	Master Pyrometer & Black Body Calibrator



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THERMAL CALIBRATION

THERMAL CALIBRATION

Description	Range	Master Used
Deep Freezer, Freezer, Chiller, Incubator, Oven, Water Bath, Furnace	-70 to 1200 °C	SPRT Sensor, R Type Thermocouple & Super DAQ 1586 A
Thermal Mapping, Temperature Uniformity Survey	0 to 250 °C	Super DAQ Data Logger, RTD Sensors
Thermo Hygrometer, Humidity Sensor, Humidity Transmitter	10 % RH to 95 % RH 5 to 50 °C	High Accuracy Fluke Thermo Hygro Indicator with Sensor
Humidity Chamber, Humidity Mapping, De-Humidifier	5 to 95 % RH	High Accuracy Fluke Thermo Hygro Indicator with Logger



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THERMAL CALIBRATION

OUR CLIENTS



OUR CLIENTS

