National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name	EMMTECH CALIBRATION, D1/90 765, SANJAY COLONY SECTOR 23, FARIDABAD, HARYANA , INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @ 50Hz	Three Phase reference Energy Calibrator & Direct Method	0.5 A to 120 A	0.025%
2	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @ 50Hz	Three Phase reference Energy Calibrator & Direct Method	5 mA to 500 mA	0.03 %
3	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @ 50Hz	Current Transformer&Digital Multi meter 6½ & Direct Method	50 A to 1000 A	0.6%
4	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @ 50Hz to 1KHz	Digital Multi meter 6½ & Direct Method	1 A to 10 A	0.17% to 0.26%
5	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current@ 50 Hz to 1kHz	Using Digital Multi meter 6½ & Direct Method	33 µA to 1 A	0.66% to 0.17%

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6	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 50Hz	using Multi product Calibrator(Fluke 5502A) with Current Coil By Direct Method	20 A to 200 A	0.46% to 1.18%
7	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 50Hz	using Multi product Calibrator(Fluke 5502A) with Current Coil By Direct Method	200 A to 1000 A	1.18% to 0.7%
8	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 50Hz to 1 kHz	using Multi product Calibrator(Fluke 5502A) By Direct Method	10 A to 20 A	0.085% to 0.39%
9	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 50Hz to 5 kHz	using Multi product Calibrator(Fluke 5502A) By Direct Method	3 A to 10 A	0.07% to 0.095%
10	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 50Hz to 5 kHz	using Multi product Calibrator(Fluke 5502A) By Direct Method	330 µA to 330 mA	0.02% to 0.05%

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11	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 50Hz to 5 kHz	using Multi product Calibrator(Fluke 5502A) By Direct Method	330 mA to 3 A	0.05% to 0.07%
12	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter 6½ (Fluke 8846A) by Direct Method	1 µA to 10 µA	3.03% to 0.35%
13	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter 6½ (Fluke 8846A) by Direct Method	1 A to 3 A	0.082% to 0.15%
14	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter 6½ (Fluke 8846A) by Direct Method	1 mA to 1 A	0.063% to 0.082%
15	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter 6½ (Fluke 8846A) by Direct Method	10 µA to 100 µA	0.35% to 0.09%
16	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using DC Shunt & Digital Multimeter 6½ (Fluke 8846A) by Direct Method	10 A to 100 A	0.96%

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17	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter 6½ (Fluke 8846A) by Direct Method	100 µA to 1 mA	0.09% to 0.06%
18	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using DC Shunt & Digital Multimeter 6½ (Fluke 8846A) by Direct Method	100 A to 750 A	1.34%
19	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter 6½ (Fluke 8846A) by Direct Method	3 A to 10 A	0.15% to 0.2%
20	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	AC Current @ 50Hz to 1 kHz	Using Multi Product Calibrator (Fluke 5502A) by Direct Method	30 µA to 330 µA	0.58% to 0.02%
21	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator (Fluke 5502A) by Direct Method	1 µA to 10 µA	2.62% to 0.25%
22	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator (Fluke 5502A) by Direct Method	10 µA to 330 µA	0.25% to 0.025%
23	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator (Fluke 5502A) by Direct Method	10.0 A to 20 A	0.08% to 0.25%

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24	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator (Fluke 5502A)with Current Coil by Direct Method	20 A to 50 A	0.25% to 0.7%
25	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator (Fluke 5502A)with Current Coil by Direct Method	200 A to 1000 A	0.85% to 0.7%
26	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator (Fluke 5502A) by Direct Method	3.0 A to 10.0 A	0.05% to 0.08%
27	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator (Fluke 5502A) by Direct Method	330 µA to 330 mA	0.025%
28	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator (Fluke 5502A) by Direct Method	330 mA to 3.0 A	0.024% to 0.05%
29	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator (Fluke 5502A)with Current Coil by Direct Method	50 A to 200 A	0.7% to 0.85%

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30	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance(2 Wire)	Using Digital Multimeter 6½ (Fluke 8846A) by Direct Method	10 M Ohm to 100 M Ohm	0.05% to 0.94%
31	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance(2 Wire)	Using Digital Multimeter 6½ (Fluke 8846A) by Direct Method	100 M ohm to 1 G Ohm	0.94% to 2.4%
32	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance(2 Wire)	Using Digital Multimeter 6½ (Fluke 8846A) by Direct Method	100 K Ohm to 500 K Ohm	0.014% to 0.03%
33	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance(2 Wire)	Using Digital Multimeter 6½ (Fluke 8846A) by Direct Method	500 k Ohm to 10 M ohm	0.03% to 0.05%
34	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance(4 Wire)	Using Micro Ohm Meter (Motwane LR2045)& Digital Multimeter 6½ (Fluke 8846A) by Direct Method	0.1 m Ohm to 1 m Ohm	0.66% to 0.12%

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35	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance(4 Wire)	Using Micro Ohm Meter (Motwane LR2045)& Digital Multimeter 6½ (Fluke 8846A) by Direct Method	1000 m Ohm to 100 Ohm	0.12% to 0.02%
36	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC HIGH Voltage @ 50Hz	HV Probe with DMM & Direct Method	1 KV to 28 KV	3.5%
37	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Power/ energy Single/ three phase Active /reactive/ Apparent P.F 1 to 0.2(lag/lead) 45 to 60Hz,30 V to 300 V, 10A to 120A	Using Three Phase Reference Energy Calibrator Songyang SY3102 by Direct Method / Comparison Method	60 W/Var to 108 kW/kVar	0.025%
38	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Voltage @ 50Hz	Three Phase reference Energy Calibrator & Direct Method	30 V to 480 V	0.025%
39	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Voltage @ 50Hz to 1 KHz	Digital Multi meter 6½ & Direct Method	1 mV to 10 mV	4.76% to 0.54%

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40	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Voltage @ 50Hz to 1KHz	Digital Multi meter 6½(& Direct Method	1 V to 1000 V	0.11%
41	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Voltage @ 50Hz to 1KHz	Digital Multi meter 6½(& Direct Method	10 mV to 100 mV	0.54% to 0.12%
42	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Voltage @ 50Hz to 1KHz	Digital Multi meter 6½ & Direct Method	100 mV to 1 V	0.12% to 0.11%
43	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Capacitance@1kHz	Using LCR Meter by Direct Method	1 nF to 1 µF	0.5%
44	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC High Voltage	HV Probe with DMM & Direct Method	1 KV to 35 KV	3.1%

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45	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Digital Multi meter 6½(& Direct Method	1 mV to 10 mV	0.42% to 0.045%
46	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Digital Multi meter 6½(& Direct Method	10 mV to 100 mV	0.045% to 0.0085%
47	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Digital Multimeter 6½(& Direct Method	100 mV to 1000 V	0.0085%
48	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Inductance@1kHz	Using LCR Meter by Direct Method	100 µH to 1 H	0.58%
49	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Power Factor@50 to60 Hz	Using Three Phase Reference Energy Calibrator Songyang SY3102 by Direct Method / Comparison Method	1 lag/lead to 0.1 lag/lead	0.0006PF

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50	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance (4wire)	Using Micro Ohm Meter (Motwane LR2045) by Direct Method	1 mOhm to 1000 mOhm	0.12%
51	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance(4 Wire)	Digital Multimeter 6½ (Fluke 8846A) by Direct Method	100 Ohm to 100 kOhm	0.02%
52	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Resistance@1kHz	Using Std. Resistance Box& LCR Meter By Compression Method	1.0 Ohm to 100.0 k Ohm	0.5%
53	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage @ 45 to 60 Hz,	Using Three Phase Reference Energy Calibrator Songyang SY3102 by Direct Method	30 V to 300 V	0.025%
54	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage @50Hz to 1kHz	Using Multi Product Calibrator (Fluke 5502A) By Direct Method	3 mV to 330 mV	0.91% to 0.06%
55	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage @50Hz to 1kHz	Using Multi Product Calibrator (Fluke 5502A) By Direct Method	330 mV to 1000 V	0.06%

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56	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Capacitance@1kHz	Using Std. Capacitance Box & LCR Meter By Compression Method	1 nF to 1 µF	0.5%
57	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Capacitance	Using Multi Product Calibrator (Fluke 5502A) By Direct Method	1.0 nF to 10.0 nF	1.73% to 0.48%
58	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Capacitance	Using Multi Product Calibrator (Fluke 5502A) By Direct Method	10 nF to 100 µF	0.48% to 0.6%
59	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Power Single phase (10V to 1000V ,0.1A to 20 A)	Using Multi Product Calibrator (Fluke 5502A) By Direct Method	1 W to 20 kW	0.1% to 0.25%
60	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Voltage	Using Multi Product Calibrator (Fluke 5502A) By Direct Method	1 mV to 330 mV	0.4% to 0.008%
61	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Voltage	Using Multi Product Calibrator (Fluke 5502A) By Direct Method	330 mV to 1000 V	0.009%
62	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Inductance@1kHz	Using Std. Inductance Box & LCR Meter By Compression Method	100 µH to 1 H	0.5%

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63	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Insulation Resistance	Using HV Mega Ohm Box By Direct Method	20.0 MOhm	3.45%
64	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Insulation Resistance	Using HV Mega Ohm Box By Direct Method	200.0 MOhm	4.18%
65	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Insulation Resistance	Using HV Mega Ohm Box By Direct Method	100.0 M Ohm	3.45%
66	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Insulation Resistance	Using HV Mega Ohm Box By Direct Method	1000.0 M Ohm	4.18%
67	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Insulation Resistance	Using HV Mega Ohm Box By Direct Method	2.0 MOhm	3.45%
68	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude (Vertical axis Deflection factor) 1 kHz ,1 M ohm	Using Multi Product Calibrator (Fluke 5502A) By Direct Method	5 mV to 100 V	1%
69	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope amplitude BANDWIDTH	Using Multi Product Calibrator (Fluke 5502A) By Direct Method	1 kHz to 300 MHz	2.4%

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70	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time base (Horizontal Axis Deflection factor)	Using Multi Product Calibrator (Fluke 5502A) By Direct Method	2 ns to 1 s	0.65%
71	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Power factor 45 to 60Hz	Using Three Phase Reference Energy Calibrator By Comparison Method	1.0 lag/lead to 0.1 lag/lead	0.0008PF
72	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Resistance	Using Multi Product Calibrator (Fluke 5502A) By Direct Method	1.0 Ohm to 10.0 Ohm	0.08% to 0.017%
73	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Resistance	Using Multi Product Calibrator (Fluke 5502A) By Direct Method	10.0 MOhm to 330.0 MOhm	0.07% to 0.57%
74	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Resistance	Using Multi Product Calibrator (Fluke 5502A) By Direct Method	10.0 Ohm to 330.0 KOhm	0.017% to 0.014%
75	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Resistance	Using Multi Product Calibrator (Fluke 5502A) By Direct Method	330.0 KOhm to 10.0 MOhm	0.014% to 0.07%
76	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Resistance	Using Multi Product Calibrator (Fluke 5502A) By Direct Method	330.0 MOhm to 1000.0 MOhm	0.57% to 1.9%

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77	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Resistance(4-wire)	Std. Resistance Box, DC Shunt Resistance Micro Ohm Meter (Motwane LR2045) Comparison Method	0.1 mOhm to 1.0 mOhm	0.66% to 0.12%
78	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Resistance(4-wire)	Using Multi Product Calibrator (Fluke 5502A), Std. Resistance Box, DC Shunt Resistance Micro Ohm Meter (Motwane LR2045) & Digital Multimeter 6½ (Fluke 8846A) Direct Method/ Comparison Method	1 mOhm to 1000 mOhm	0.12%
79	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Resistance(4-wire)	Using Multi Product Calibrator (Fluke 5502A), Std. Resistance Box, DC Shunt Resistance Micro Ohm Meter (Motwane LR2045) & Digital Multimeter 6½ (Fluke 8846A) Direct Method/ Comparison Method	100.0 Ohm to 100 kOhm	0.02%

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80	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Resistance(4-wire)	Using Multi Product Calibrator (Fluke 5502A), Std. Resistance Box, DC Shunt Resistance Micro Ohm Meter (Motwane LR2045) & Digital Multimeter 6½ (Fluke 8846A) Direct Method/ Comparison Method	1000.0 mOhm to 100.0 Ohm	0.12% to 0.02%
81	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source,Measure)	AC Power/ energy Single/ three phase Active /reactive/ Apparent P.F 1 to 0.2(lag/lead) 45 to 60Hz,30 V to 300 V, 0.5A to 10A	Using Three Phase Reference Energy Calibrator Songyang SY3102 by Direct Method / Comparison Method	3 W/Var to 9000 W/Var	0.034% to 0.025%
82	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source,Measure)	AC Power/ energy Single/ three phase Active /reactive/ Apparent P.F 1 to 0.2(lag/lead) 45 to 60Hz,30 V to 300 V, 5mA to 500mA	Using Three Phase Reference Energy Calibrator Songyang SY3102 by Direct Method / Comparison Method	0.03 W/Var to 450 W/Var	0.667% to 0.025%

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83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder) RTD (PT-100)	Using Digital Multimeter 6½/ Precision Temperature Scanner By Direct Method	-200 °C to 600 °C	0.16°C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder) E-Type Thermocouple	Using Precision Temperature scanner 1586A/ Multi Product Calibrator (Fluke 5502A) By Direct Method	-200 °C to 1000 °C	0.5°C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation(Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder B-Type Thermocouple	Using Precision Temperature scanner 1586A/ Multi Product Calibrator (Fluke 5502A) By Direct Method	600 °C to 1800 °C	0.56°C

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86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation(Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder J-Type Thermocouple	Using Precision Temperature scanner 1586A/ Multi Product Calibrator (Fluke 5502A) By Direct Method	-200 °C to 700 °C	0.27°C
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation(Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder K-Type Thermocouple	Using Precision Temperature scanner 1586A/ Multi Product Calibrator (Fluke 5502A) By Direct Method	-200 °C to 1300 °C	0.4°C
88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation(Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder N-Type Thermocouple	Using Precision Temperature scanner 1586A/ Multi Product Calibrator (Fluke 5502A) By Direct Method	-200 °C to 1300 °C	0.4°C
89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation(Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder R-Type Thermocouple	Using Precision Temperature scanner 1586A/ Multi Product Calibrator (Fluke 5502A) By Direct Method	200 °C to 1700 °C	0.57°C

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90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation(Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder S-Type Thermocouple	Using Precision Temperature scanner 1586A/ Multi Product Calibrator (Fluke 5502A) By Direct Method	200 °C to 1700 °C	0.47°C
91	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Temperature Simulation(Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder T-Type Thermocouple	Using Precision Temperature scanner 1586A/ Multi Product Calibrator (Fluke 5502A) By Direct Method	-200 °C to 400 °C	0.24°C
92	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder) S-Type Thermocouple	Using Multi Product Calibrator (Fluke 5502A)/ Universal Calibrator By Direct Method	0 °C to 1700 °C	0.53°C
93	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder) B-Type Thermocouple	Using Multi Product Calibrator (Fluke 5502A)/ Universal Calibrator By Direct Method	600 °C to 1800 °C	0.44°C

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94	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder) E-Type Thermocouple	Using Multi Product Calibrator (Fluke 5502A)/ Universal Calibrator By Direct Method	-200 °C to 1000 °C	0.5°C
95	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder) K-Type Thermocouple	Using Multi Product Calibrator (Fluke 5502A)/ Universal Calibrator By Direct Method	-200 °C to 1300 °C	0.38°C
96	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder) N-Type Thermocouple	Using Multi Product Calibrator (Fluke 5502A)/ Universal Calibrator By Direct Method	-200 °C to 1300 °C	0.4°C
97	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder) RTD (PT-100)	Using Multi Product Calibrator (Fluke 5502A)/ Universal Calibrator By Direct Method	-200 °C to 630 °C	0.14°C

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98	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder) R-Type Thermocouple	Using Multi Product Calibrator (Fluke 5502A)/ Universal Calibrator By Direct Method	0 °C to 1700 °C	0.57°C
99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder) T-Type Thermocouple	Using Multi Product Calibrator (Fluke 5502A)/ Universal Calibrator By Direct Method	-200 °C to 400 °C	0.24°C
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder)J-Type Thermocouple	Using Multi Product Calibrator (Fluke 5502A)/ Universal Calibrator By Direct Method	-200 °C to 1000 °C	0.27°C
101	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	Digital Multi meter 6½(& Direct Method	10 Hz to 50 Hz	0.082% to 0.016%
102	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	Digital Multi meter 6½ & Direct Method	50 Hz to 1000 KHz	0.016% to 0.012 %

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103	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	Digital Timer & Direct Method	0.1 s to 10 s	0.0013s
104	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	Digital Timer & Direct Method	10 s to 1000 s	0.014s
105	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	Digital Timer & Direct Method	1000 s to 9900 s	0.17s
106	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	Digital Timer & Direct Method	9900 s to 86400 s	1.3s to 2.77s
107	ELECTRO-TECHNICAL- TIME & FREQUENCY (Source)	Frequency	Multi Product Calibrator (Fluke 5502A) By Direct Method	10 Hz to 2 MHz	0.07% to 0.007%
108	MECHANICAL-ACCELERATION AND SPEED	Non-Contact Tachometer	Digital Tachometer & Source By Comparison method with using motorized source with strip	10 rpm to 10000 rpm	5.2% rdg to 0.10% rdg

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109	MECHANICAL-ACCELERATION AND SPEED	Non-Contact Tachometer	Using Digital Tachometer & Source By Comparison method with using motorized source with strip	10000 rpm to 50000 rpm	0.10% rdg to 0.07% rdg
110	MECHANICAL-ACCELERATION AND SPEED	Tachometer(Contact)	Digital Tachometer & Source By Comparison method	>500.0 rpm to 3000.0 rpm	1.71%rdg to 0.35%rdg
111	MECHANICAL-ACCELERATION AND SPEED	Tachometer(Contact)	Using Digital Tachometer & Source By Comparison method	40 rpm to 500 rpm	3.14% rdg to 1.71% rdg
112	MECHANICAL-ACOUSTICS	Sound Level Meter (At 94 & 114 dB)	Using Sound level calibrator By Comparison method	94 dB to 114 dB	2dB
113	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometer	Electronic weighing Balance & Standard Hydrometers. Procedure as per IS 3104 and NABL-129 specific criteria.	0.7 g/ml to 2.0 g/ml	0.003g/ml
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	2D Height Gauge / Linear Height GaugeL.C. 0.0001 mm	Slip Gauge Set, Caliper Checker	up to 600 mm	5.3µm

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115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate/ Box Angle Plate/ Right Angle (Parallelism, Flatness & Squareness)	Slip Gauge Set, Dial Indicator &Granite Square	upto to 400 mm	6.9µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angular scale,Angle Measurement	Using Profile Projector	up to 360 °	16"
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center(Parallelism &Coaxiality Measurement)	Using Test Mandrel & Dial Indicator	Upto to 500 mm	6.0µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel / Angle Protector/Combination Set(Angle) L.C. 1' (min)	Using Angle Gauge Set	up to 180°	1.0'
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel / Angle Protector/Combination Set(Angle) L.C. 5' (min)	Using Angle Gauge Set	up to 180°	3.1 minute

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120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Digital, Error external jaw, internal jaw and depth, parallelism of external and internal jaws) L.C. 0.01mm	Slip Gauge Set, Caliper Checker & Long Slip Gauges	1000 mm to 1500 mm	14.5µm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Digital, Error external jaw, internal jaw and depth, parallelism of external and internal jaws) L.C. 0.01mm	Slip Gauge Set, Caliper Checker & Long Slip Gauges	up to 1000 mm	12.7µm
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Chamfer Gauge Angle	Profile Projector	up to 360°	6.0"
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Chamfer Gauge Diameter	Length Measuring Machine	2.5 mm to 50.0 mm	1.0µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Chamfer Gauge Length	Profile Projector	0.1 mm to 100.0 mm	5.5µm

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125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge	Using Master Foil	0.01 mm to 1 mm	3.6µm
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master (Diameter)	Length Measuring Machine	1.0 mm to 50 mm	0.5µm
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper (Vernier/Dial/Digital) L.C 0.01mm	Using Slip Gauge Set Grade-0 & Slip Gauge Set Grade-K	0 mm to 300 mm	7.9µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (Mech/Digital) (Screw Error & Error in length of each extension) L.C 0.001mm	Using Slip Gauge Set Grade-0 & Slip Gauge Set Grade-K	0 mm to 300 mm	3.0µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Bore Gauge L.C 0.001mm	Using Length Measuring Machine	up to 1.0 mm	0.44µm

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130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Calibration Tester / Micrometer Head L.C 0.0001 mm	Slip Gauge Set, Dial Indicator	up to 50 mm	4.5µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator(Dial / Digital) (Hysteresis repeatability accuracy) L.C 0.0001mm	Using Length Measuring Machine	up to 25 mm	0.6µm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator(Dial / Digital) (Hysteresis repeatability accuracy) L.C 0.0001mm	Using Length Measuring Machine	up to 50 mm	1.0µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator(Dial / Digital) (Hysteresis repeatability accuracy) L.C 0.001mm	Using Length Measuring Machine	>50.0 mm to 100.0 mm	1.2µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge / Indicating MicrometerL.C. 0.001mm	Using Slip Gauge Set	up to 100 mm	1.3µm

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135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Test Indicator(Hysteresis repeatability accuracy) L.C 0.001mm	Using Length Measuring Machine	up to 2.0 mm	0.6µm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge/ OD Caliper L.C. 0.001mm	Using Slip Gauge Set	up to 5.0 mm	1.0µm
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge/ OD Caliper L.C. 0.01mm	Using Slip Gauge Set	up to 100 mm	6.0µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe with DROL.C.: 0.0001 mm	Slip Gauge Set	25 mm to 50 mm	0.5µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Mech. /Digital)(Screw Error & Error in length of each extension) L.C 0.001mm	Using Slip Gauge Set & Long Slip Gauges	>100.0 mm to 150.0 mm	1.5µm

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140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Mech. /Digital)(Screw Error & Error in length of each extension) L.C 0.001mm	Using Slip Gauge Set & Long Slip Gauges	>150.0 mm to 300.0 mm	4.2µm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Mech. /Digital)(Screw Error & Error in length of each extension) L.C 0.001mm	Using Slip Gauge Set & Long Slip Gauges	>300.0 mm to 600.0 mm	9.5µm
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Mech. /Digital)(Screw Error & Error in length of each extension) L.C 0.001mm	Using Slip Gauge Set & Long Slip Gauges	up to 100 mm	1.0µm
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Mech. /Digital)(Screw Error & Error in length of each extension)L.C 0.01mm	Using Slip Gauge Set & Long Slip Gauges	>600 mm to 1000.0 mm	18.0µm
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Filler Gauge	Using Length Measuring Machine	Up to to 1.0 mm	0.55µm

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145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flush Pin Gauge/Width Gauge	Using Length Measuring Machine	0.1 mm to 200.0 mm	2.9µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gauge Block CalibratorL.C.: 0.01 µm	Using Slip Gauge Set (11 PC's)	0.5 mm to 6.0 mm	0.08µm
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gauge Block CalibratorL.C.: 0.01 µm	Slip Gauge Set (11 PC's)	6.0 mm to 100 mm	0.14µm
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) (Parallelism of scriber to base)L.C. 0.01mm	Slip Gauge Set, Caliper Checker, Dial test Indicator & Long Slip Gauges	up to 1000 mm	9.7µm
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Master L.C.: 0.002 mm	2D Height Gauge	up to 300.0 mm	7.25µm

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150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inclinometer L.C.: 0.1°	Slip Gauge Set & Sine Bar	-45 ° to +45 °	4.5'
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial Angle Gauge	Using Profile Projector	0 to 360°	17.6"
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (Screw Error & Error in length of each extension) L.C 0.01mm	2D Height Gauge & Long Slip Gauge	>400 mm to 600.0 mm	6.2µm
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (Screw Error & Error in length of each extension) L.C 0.001mm	Length Measuring Machine & Long Slip Gauge	>200.0 mm to 400.0 mm	4.3µm
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer$ (Screw Error & Error in length of each extension) L.C 0.001mm	Length Measuring Machine	up to 200.0 mm	2.0µm

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155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Bar / Setting Rod / Long Slip Gauge	Length Measuring Machine	>100 mm to 200 mm	1.0µm
156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Bar / Setting Rod / Long Slip Gauge	Length Measuring Machine & Long Slip Gauge	>200 mm to 400 mm	2.80µm
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Bar / Setting Rod / Long Slip Gauge	2D Height Gauge	>400 mm to 600 mm	6.6µm
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Bar / Setting Rod / Long Slip Gauge	Length Measuring Machine	25.0 mm to 100.0 mm	0.6µm
159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin Set	Length Measuring Machine	0.1 mm to 20.0 mm	0.50µm

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160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape /Pie Tape L.C.: 1mm	Using Scale & Tape Calibrator	up to 50.0 m	22.0 * sqrt (L)µm where L is in metre
161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Metal Gauge for Flakiness Index	Using Profile projector	4.89 mm to 100.0 mm	20.3µm
162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Setting Plug Gauge (Diameter)	Length Measuring Machine	0.1 mm to 100 mm	0.85µm
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Setting Plug Gauge (Diameter)	Length Measuring Machine & Long Slip Gauge	>100 mm to 200 mm	1.35µm
164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Setting Plug Gauge (Diameter)	Using Length Measuring Machine & Long Slip Gauge	>200.0 mm to 400.0 mm	3.2µm

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165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / Setting Ring Gauge (Diameter at 4 positions)	Using Length Measuring Machine, Master Ring Gauges	>150 mm to 200.0 mm	1.50µm
166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / Setting Ring Gauge (Diameter at 4 positions)	Using Length Measuring Machine, Master Ring Gauges	>200.0 mm to 400.0 mm	1.85µm
167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / Setting Ring Gauge (Diameter at 4 positions)	Using Length Measuring Machine, Master Ring Gauges	3.0 mm to 150 mm	2.3µm
168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Precision Level /Sprit Level Sensitivity 10 µm/m	Using Electronic Level	Up to 300.0 mm	13.19µm/m
169	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector	0.5 mm to 25 mm	12.3µm

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170	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Angle, Centre distance between rollers, Parallelism)	Using Slip Gauge Set, Angle Gauge set, Dial Test Indicator, 2D Height Gauge	up to 300.0 mm	5"
171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Center(Angle & Parallelism)	Using Slip Gauge Set, Angle Gauge set, Dial Test Indicator, 2D Height Gauge	up to 300.0 mm	6.0µm
172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Slip Gauge Set ,Linear height gauge	>150.0 mm to 400.0 mm	5.0µm
173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Slip Gauge Set	3.0 mm to 150.0 mm	2.65µm
174	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Plug Gauge(Dimension over Two Pins)	Using Length Measuring Machine	1.0 mm to 100.0 mm	1.5µm

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175	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Ring Gauge(Dimension Between Two Pins)	Using Slip Gauge Set	10.0 mm to 100.0 mm	2.5µm
176	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Foil	Using Length Measuring Machine	0.01 mm to 2.0 mm	0.55µm
177	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale L.C.:0.5mm	Using Scale & Tape Calibrator	up to 1000.0 mm	23.0µm
178	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness Measurement)	Using Electronic Level	Up to 2000.0 mm	4.0µm/m
179	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel (Variation in Diameter)	Length Measuring Machine	40x150mm mm to 12X400 mm	0.7µm

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180	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve (Aperture Size, Wire dia& Aperture pitch size)	Using Digimatic Caliper	10.0 mm to 150.0 mm	25.0µm
181	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve (Aperture Size, Wire dia& Aperture pitch size)	Using Profile Projector / Digimatic Caliper	32.0 µm to 10.0 mm	3.1µm
182	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge	Using Profile Projector	0.1 mm to 6.0 mm	7.8µm
183	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge / W.C.P (Effective Diameter, Major Diameter)	Using Length Measuring Machine & Three Wire Unit	1.0 mm to 100.0 mm	1.0µm
184	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge / W.C.R (Effective Diameter, Minor Diameter)	Using Length Measuring Machine, Master Ring Gauge	3.5 mm to 100.0 mm	2.5µm

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185	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three wire Unit (Diameter)	Length Measuring Machine	0.17 mm to 6.5 mm	0.5µm
186	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block,Squareness	Granite Square,, 2D height Gauge with squareness probe	Up mm to 200.0 mm	4.0µm
187	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block, (Parallelism)	Using Dial Indicator	UP mm to 200.0 mm	2.5µm
188	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block, Symmetricity	Granite Square, Test Mandrel & Dial Indicator	Upto mm to 200 mm	2.5µm
189	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block, Parallelism of V-Block	Test Mandrel & Dial Indicator	Up mm to 200.0 mm	2.5µm
190	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	Using 2D Height Gauge	up to 600.0 mm	8.3µm

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191	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Extensometers Travel of ExtensometerGauge Length	Dial Gauge of 0.0001 mm least count with Extenso Meter Calibrator	up to 50.0 mm	5.0µm
192	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Linear Measurement)L.C.: 0.001 mm	Glass Scale/Slip Gauge set	up to 200 mm	5.3µm
193	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector(Angle Measurement)L.C.: 1”	Angle Gauge Set	up to Angle 360°	27.2second of arc
194	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile ProjectorL.C.: 0.001 mm (Magnification)	Glass Scale & Digimatic Caliper	10X mm to 100X mm	0.06%
195	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	slip gauge set	Gauge Block Calibrator & Slip Gauge Set ‘K Grade’	>10.0 mm to 50 mm	0.13µm
196	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	slip gauge set	Gauge Block Calibrator & Slip Gauge Set ‘K Grade’	>50.0 mm to 75.0 mm	0.18µm
197	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	slip gauge set	Gauge Block Calibrator & Slip Gauge Set ‘K Grade’	>75.0 mm to 100.0 mm	0.25µm

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198	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	slip gauge set	Gauge Block Calibrator & Slip Gauge Set 'K Grade'	0.5 mm to 10.0 mm	0.09µm
199	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Verification of Extensometers calibrator	Dial Gauge of 0.0001 mm least count with extenso meter calibrator	up to 2.0 mm	8.0µm
200	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Verification of Extensometers calibrator	Using Slip Gauge set	up to 5.0 mm	0.5µm
201	MECHANICAL-DUROMETER	Rubber Hardness Tester for Indention depth (A&D)	micrometer head & ASTM D 2240/ ISO 18898	0 shore to 100.0 Shore	0.24Shore(A&D)
202	MECHANICAL-DUROMETER	Rubber Hardness Tester for Spring Force (A&D)	Digital Balance and fixture & ASTM D 2240/ ISO 18898	0 shore to 100.0 shore	0.9Shore(A&D)
203	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge	Fixture, Frame, Hangers and Newtonian weights Based on VDI/VDE 2624-2.1	10 N to 100 N	0.82N
204	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge	Fixture, Frame, Hangers and Newtonian weights Based on VDI/VDE 2624-2.1	100 N to 500 N	1.08N

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205	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge /Differential Pressure / Manometer	Using Digital Pressure Calibrator DKD-R6-1 By Comparison method	>250 Pa to 2000 Pa	7.1Pa
206	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge /Differential Pressure/Manometer	Using Digital Pressure Calibrator DKD-R6-1 By Comparison method	0 Pa to 250 Pa	1.78% of rdg
207	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Gauges / Transmitter/ Transducer) (Hydraulic 0-700bar & Pneumatic 0-20bar)	Using Digital Pressure gauges Universal Calibrator DKD-R6-1 By Comparison method	0 bar to 700 bar	0.20% of rdg
208	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum (Gauge / Transmitter/ Transducer)	Using Digital Pressure gauge Universal Calibrator DKD-R6-1 By Comparison method	0 bar to (-)0.95 bar	0.8% of rdg
209	MECHANICAL-TORQUE MEASURING DEVICES	Torque Wrench (Type I/Class B,C,D,E)(Type II/class A,B,D,E)	Torque Transducer & indicator with Torque wrench Calibrator,& IS/ISO 6789:2003	0.5 Nm to 500.0 Nm	0.75%rdg
210	MECHANICAL-VOLUME	Micro Pipettes	E2 Class standard weights and Electronic Weighing balances (L.C. 0.01/0.1 mg). Procedure based on ISO 8655, part 6.	10.0 µl to 1000 µl	0.09 µl

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211	MECHANICAL-VOLUME	Volumetric flask & Measuring Cylinder	Electronic Weighing Balance (L.C. 0.5 g/0.01 g) and procedure based on ISO 4787.	1 l to 10 l	1.5 ml
212	MECHANICAL-VOLUME	Volumetric GlasswarePipettes, Burettes, Volumetric flask & Measuring cylinders.	E2 Class weights, Distilled Water and Electronic Weighing Balance (L.C. 0.01/0.1 mg). Gravimetric Method and procedure based on ISO 4787.	1.0 ml to 10 ml	0.09 µl
213	MECHANICAL-VOLUME	Volumetric GlasswareVolumetric flask & Measuring cylinders.	Standard weights, Distilled Water and Electronic Weighing Balances (L.C. 0.01 g). Gravimetric Method & procedure based on ISO 4787.	10 ml to 1000 ml	0.2 ml
214	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class III & Coarser)Readability : 10 mg	F1 class standard weights. Procedure as per OIML R 76-1 guidelines.	>200 g to 1 kg	0.02 g
215	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class III & Coarser)Readability: 1 g	F1 class standard weights. Procedure as per OIML R76-1 guidelines.	>20.0 kg to 50.0 kg	2.5 g

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216	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balances (Class II & Coarser)Readability : 0.1 g	F1 class standard weights. Procedure based on OIML R 76-1 guidelines.	>1.0 kg to 5.0 kg	0.5 g
217	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balances (Class II & Coarser)Readability : 0.1 mg	E2 Class Standard Weights. Procedure based on OIML R 76-1 guidelines.	>80 g to 200 g	0.3 mg
218	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balances (Class II & Coarser)Readability : 0.1 mg	E2 class standard weights. Procedure as per OIML R 76-1 guidelines.	1 mg to 80 g	0.3 mg
219	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balances (Class III & Coarser)Readability: 0.5 g	F1 class standard weights. Procedure based on OIML R 76-1 guidelines.	>5.0 kg to 20.0 kg	1.0 g
220	MECHANICAL-WEIGHTS	Mass (F2 Class & Coarser)	E2 Accuracy Class Standard Weights and Electronic Weighing Balances (L.C. 0.01/0.1 mg). Procedure based on OIML R 111-1: 2004 guidelines.	100 mg	0.02 mg
221	MECHANICAL-WEIGHTS	Weights (F2 Class & Coarser)	E2 Accuracy Class Standard Weights and Electronic Weighing Balances. Procedure based on OIML R 111-1: 2004 guidelines.	10 g	0.03 mg

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222	MECHANICAL-WEIGHTS	Weights (M2 Class & Coarser)	M1 Accuracy Class Standard Weights and Electronic Weighing Balances. Procedure based on OIML R 111-1: 2004 guidelines.	50 kg	1.6 g
223	MECHANICAL-WEIGHTS	Weights (F2 Class & Coarser)	E2 Accuracy Class Standard Weights and Electronic Weighing Balances. Procedure based on OIML R 111-1: 2004 guidelines.	100 g	0.10 mg
224	MECHANICAL-WEIGHTS	Weights (F2 Class & Coarser)	E2 Accuracy Class Standard Weights and Electronic Weighing Balances. Procedure based on OIML R 111-1: 2004 guidelines.	2 g	0.02 mg
225	MECHANICAL-WEIGHTS	Weights (F2 class & Coarser)	E2 Accuracy Class Standard Weights and Electronic Weighing Balances (L.C. 0.01/0.1 mg). Procedure based on OIML R 111-1: 2004 guidelines.	2 mg	0.02 mg

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226	MECHANICAL-WEIGHTS	Weights (F2 Class & Coarser)	E2 Accuracy Class Standard Weights and Electronic Weighing Balances. Procedure based on OIML R 111-1: 2004 guidelines.	20 g	0.03 mg
227	MECHANICAL-WEIGHTS	Weights (F2 Class & Coarser)	E2 Accuracy Class Standard Weights and Electronic Weighing Balance(L.C. 0.01/0.1 mg). Procedure based on OIML R 111-1: 2004 guidelines.	20 mg	0.02 mg
228	MECHANICAL-WEIGHTS	Weights (F2 Class & Coarser)	E2 Accuracy Class Standard Weights and Electronic Weighing Balances. Procedure based on OIML R 111-1: 2004 guidelines.	200 g	0.15 mg
229	MECHANICAL-WEIGHTS	Weights (F2 Class & coarser)	E2 class weights & Precision Balances (80g/200g readability 0.01/0.1mg) & OIML R 111-1: 2004	200 mg	0.02 mg

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230	MECHANICAL-WEIGHTS	Weights (F2 Class & Coarser)	E2 Accuracy Class Standard Weights and Electronic Weighing Balances. Procedure based on OIML R 111-1: 2004 guidelines.	5 g	0.02 mg
231	MECHANICAL-WEIGHTS	Weights (F2 Class & coarser)	E2 Accuracy Class Standard Weights and Electronic Weighing Balances. Procedure based on OIML R 111-1: 2004 guidelines.	50 g	0.05 mg
232	MECHANICAL-WEIGHTS	Weights (F2 Class & Coarser)	E2 Accuracy Class Standard Weights and Electronic Weighing Balances. Procedure based on OIML R 111-1: 2004 guidelines.	500 mg	0.02 mg
233	MECHANICAL-WEIGHTS	Weights (F2 Class and coarser)	E2 class weights & Precision Balances (80g/200g readability 0.01/0.1mg) & OIML R 111-1: 2004	10 mg	0.02 mg

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234	MECHANICAL-WEIGHTS	Weights (M1 Class & Coarser	F1 Accuracy Class Standard Weights and Electronic Weighing Balances (L.C. 0.1 g). Procedure based on OIML R 111-1: 2004 guidelines.	5 kg	0.1 g
235	MECHANICAL-WEIGHTS	Weights (M1 Class & coarser)	F1 Accuracy Class Standard Weights and Electronic Weighing Balances (L.C. 0.1 g). Procedure based on OIML R 111-1: 2004 guidelines.	10 kg	0.1 g
236	MECHANICAL-WEIGHTS	Weights (M1 Class & Coarser)	F1 Accuracy Class Standard Weights and Electronic Weighing Balances. Procedure based on OIML R 111-1: 2004 guidelines.	2 kg	0.1 g
237	MECHANICAL-WEIGHTS	Weights (M1 Class & Coarser)	F1 Accuracy Class Standard Weights and Electronic Weighing Balances(L.C. 1 g). Procedure based on OIML R 111-1: 2004 guidelines.	20 kg	0.1 g

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238	MECHANICAL-WEIGHTS	Weights (M1 Class & Coarser)	F1 Accuracy Class Standard Weights and Electronic Weighing Balances. Procedure based on OIML R 111-1: 2004 guidelines.	500 g	0.01 g
239	MECHANICAL-WEIGHTS	Weights(F2 Class & coarser)	E2 Accuracy Class Standard Weights and Electronic Weighing Balances (L.C. 0.01/0.1 mg). Procedure based on OIML R 111-1: 2004 guidelines.	1 mg	0.02 mg
240	MECHANICAL-WEIGHTS	Weights(F2 Class & coaraer)	E2 Accuracy Class Standard Weights and Electronic Weighing Balances. Procedure based on OIML R 111-1: 2004 guidelines.	1 g	0.02 mg
241	MECHANICAL-WEIGHTS	Weights(F2 class & coarser)	E2 Accuracy Class Standard Weights and Electronic Weighing Balances (L.C. 0.01/0.1 mg). Procedure based on OIML R 111-1: 2004 guidelines.	5 mg	0.02 mg

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242	MECHANICAL-WEIGHTS	Weights(F2 Class & coarser)	E2 Accuracy Class Standard Weights and Electronic Weighing Balances (L.C. 0.01/0.1 mg). Procedure based on OIML R 111-1: 2004 guidelines.	50 mg	0.02 mg
243	MECHANICAL-WEIGHTS	Weights(M1 Class & Coarser)	F1 Accuracy Class Standard Weights and Electronic Weighing Balances. Procedure based on OIML R 111-1: 2004 guidelines.	1 kg	0.01 g
244	THERMAL- SPECIFIC HEAT & HUMIDITY	Digital /Analog Hygrometer, RH sensor with Indicator/ Controller / Data logger / Recorder	Digital RH Indicator with Sensor, Humidity Generator & Chamber By Comparison Method	10 %RH to 95 %RH@25°C	1.0%RH
245	THERMAL- SPECIFIC HEAT & HUMIDITY	Humidity indicator with sensor of Humidity Calibrator/Generator/ Chamber (Single position calibration)	Digital RH Indicator with Sensor (At measuring location in DUC)	10 %RH to 95 %RH@25°C	0.9%RH
246	THERMAL- SPECIFIC HEAT & HUMIDITY	Humidity indicator with sensor of HumidityHumidity Chamber, Environment Chamber(Multi Position Calibration)	Using Wireless Data Loggers with inbuilt sensor by Comparison Method	15 %RH to 95 %RH@25°C	2.1%RH

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247	THERMAL-TEMPERATURE	RTD/Thermocouples, With or without Controller/ Indicator/Data logger /Recorder, Temperature Transmitter, Digital Thermometer	6½ Digital Multimeter/,Precision Temperature scanner with SSPRT / Digital Temperature Indicator with S-Type TC & Dry Block Furnaces By Comparison Method	250 °C to 600 °C	0.25°C
248	THERMAL-TEMPERATURE	RTD'S, Thermocouples, With or Without Controller/ Indicator/Data logger /Recorder, Temperature Transmitter, Temperature Gauge, Digital Thermometer	6½ Digital Multimeter/ Precision Temperature scanner with SSPRT & Liquid Nitrogen Crystat By Comparison Method	(-)196 °C to	0.21°C
249	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Deep Freezer/ Low temperature Bath/Refrigerator/ Environmental Chambers(Single Position calibration)-Temperature Measurement	Precision Temperature scanner with SSPRT,/ Simplex-4 Wire, RTD With Indicator	(-)196 °C to	0.21°C

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250	THERMAL-TEMPERATURE	Thermocouples, With or without Controller/ Indicator/Data logger /Recorder, Temperature Transmitter, Digital Thermometer	6½.Digital Multimeter,/Digital Temperature Indicator with S-Type TC & Dry Block Furnaces By Comparison Method	800 °C to 1200 °C	2.44°C
251	THERMAL-TEMPERATURE	Dry Block Furnace/ Muffle Furnace(Muti Position Calibration)	Data Logger with Thermocouple By comparison method	300 °C to 600 °C	3.6°C
252	THERMAL-TEMPERATURE	Dry Block Furnace/ Muffle Furnace(Muti Position Calibration)	Data Logger with Thermocouple By Comparison Method	600 °C to 1200 °C	5.5°C
253	THERMAL-TEMPERATURE	Environment Chamber, Furnaces, Freezers, Oven, Vacuum Oven, Cold/ Hot Room, , Aging Oven(Multi position Calibration)	Precision Temperature scanner with RTDs by Comparison Method	50 °C to 300 °C	1.1°C
254	THERMAL-TEMPERATURE	Environment Chamber, Furnaces, Freezers, Oven, Vacuum Oven, Cold/ Hot Room, , Aging Oven(Multi position Calibration)	Precision Temperature scanner with RTDs By comparison Method	-80 °C to 50 °C	1.1°C
255	THERMAL-TEMPERATURE	Non-Contact Type Thermometer (Infrared Thermometer / Digital Pyrometer)	Digital Pyrometer Black Body Furnace By Comparison Method	50 °C to 600 °C	3.3°C

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256	THERMAL-TEMPERATURE	Non-Contact Type Thermometer$ (Infrared Thermometer / Digital Pyrometer)	Digital Pyrometer Black Body Furnace By Comparison Method	600 °C to 1200 °C	5.2°C
257	THERMAL-TEMPERATURE	RTD'S, Thermocouples, With or Without Controller/ Indicator/Data logger /Recorder, Temperature Transmitter, Temperature Gauge, Glass Thermometer Digital Thermometer	6½ Digital Multimeter /Precision Temperature scanner with SSPRT / Liquid Bath, By Comparison Method	(-)80 °C to 50 °C	0.12°C
258	THERMAL-TEMPERATURE	RTD'S, Thermocouples, With or Without Controller/ Indicator/Data logger /Recorder, Temperature Transmitter, Temperature Gauge, Glass Thermometer Digital Thermometer	6½ Digital Multimeter/ Precision Temperature scanner with SSPRT/ Liquid Bath, By Comparison Method	50 °C to 250 °C	0.19°C
259	THERMAL-TEMPERATURE	Temperature indicator with sensor of Black Body Furnace(Single Position calibration	Using Digital Pyrometer (at measuring location in DUC)	0 °C to 600 °C	3.3°C

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260	THERMAL-TEMPERATURE	Temperature indicator with sensor of Black Body Furnace(Single Position calibration)	Digital Pyrometer (at measuring location in DUC)	600 °C to 1200 °C	5.2°C
261	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Dry Block Furnace/ Muffle Furnace (Single Position calibration)	Digital Temperature Indicator with S-Type TC (at measuring location in DUC) by Comparision Method	600 °C to 800 °C	1.95°C
262	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Dry Block Furnace/ Muffle Furnace (Single Position calibration)	Using Digital Temperature Indicator with S-Type TC By Comparison Method (at measuring location in DUC)	800 °C to 1200 °C	2.5°C
263	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Liquid Bath, Oven, Oven, Dry Block furnace, Refrigerator, Auto clave, Incubator (non medical) Environmental Chamber#(Single Position Calibration)-Temperature Measurement	Precision Temperature scanner with SSPRT/Simplex-4 Wire,RTD With Indicator	(-)80 °C to 600 °C	0.15°C

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264	THERMAL-TEMPERATURE	Thermocouples, With or without Controller/ Indicator/Data logger /Recorder, Temperature Transmitter, Digital Thermometer	6½ Digital Multimeter/Digital Temperature Indicator with S-Type TC & Dry Block Furnaces By Comparison Method	600 °C to 800 °C	1.95°C

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Site Facility					
1	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @ 50Hz	Three Phase reference Energy Calibrator & Direct Method	0.5 A to 120 A	0.025%
2	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @ 50Hz	Three Phase reference Energy Calibrator & Direct Method	5 mA to 500 mA	0.03 %
3	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @ 50Hz	Current Transformer&Digital Multi meter 6½ & Direct Method	50 A to 1000 A	0.6%
4	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current @ 50Hz to 1KHz	Digital Multi meter 6½ & Direct Method	1 A to 10 A	0.17% to 0.26%
5	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current@ 50 Hz to 1kHz	Using Digital Multi meter 6½ & Direct Method	33 µA to 1 A	0.66% to 0.17%

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Site Facility					
6	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 50Hz	using Multi product Calibrator(Fluke 5502A) with Current Coil By Direct Method	20 A to 200 A	0.46% to 1.18%
7	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 50Hz	using Multi product Calibrator(Fluke 5502A) with Current Coil By Direct Method	200 A to 1000 A	1.18% to 0.7%
8	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 50Hz to 1 kHz	using Multi product Calibrator(Fluke 5502A) By Direct Method	10 A to 20 A	0.085% to 0.39%
9	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 50Hz to 5 kHz	using Multi product Calibrator(Fluke 5502A) By Direct Method	3 A to 10 A	0.07% to 0.095%
10	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 50Hz to 5 kHz	using Multi product Calibrator(Fluke 5502A) By Direct Method	330 µA to 330 mA	0.02% to 0.05%

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Site Facility					
11	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current @ 50Hz to 5 kHz	using Multi product Calibrator(Fluke 5502A) By Direct Method	330 mA to 3 A	0.05% to 0.07%
12	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter 6½ (Fluke 8846A) by Direct Method	1 µA to 10 µA	3.03% to 0.35%
13	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter 6½ (Fluke 8846A) by Direct Method	1 A to 3 A	0.082% to 0.15%
14	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter 6½ (Fluke 8846A) by Direct Method	1 mA to 1 A	0.063% to 0.082%
15	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter 6½ (Fluke 8846A) by Direct Method	10 µA to 100 µA	0.35% to 0.09%
16	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using DC Shunt & Digital Multimeter 6½ (Fluke 8846A) by Direct Method	10 A to 100 A	0.96%

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Site Facility					
17	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter 6½ (Fluke 8846A) by Direct Method	100 µA to 1 mA	0.09% to 0.06%
18	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using DC Shunt & Digital Multimeter 6½ (Fluke 8846A) by Direct Method	100 A to 750 A	1.34%
19	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter 6½ (Fluke 8846A) by Direct Method	3 A to 10 A	0.15% to 0.2%
20	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	AC Current @ 50Hz to 1 kHz	Using Multi Product Calibrator (Fluke 5502A) by Direct Method	30 µA to 330 µA	0.58% to 0.02%
21	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator (Fluke 5502A) by Direct Method	1 µA to 10 µA	2.62% to 0.25%
22	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator (Fluke 5502A) by Direct Method	10 µA to 330 µA	0.25% to 0.025%

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Site Facility					
23	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator (Fluke 5502A) by Direct Method	10.0 A to 20 A	0.08% to 0.25%
24	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator (Fluke 5502A)with Current Coil by Direct Method	20 A to 50 A	0.25% to 0.7%
25	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator (Fluke 5502A)with Current Coil by Direct Method	200 A to 1000 A	0.85% to 0.7%
26	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator (Fluke 5502A) by Direct Method	3.0 A to 10.0 A	0.05% to 0.08%
27	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator (Fluke 5502A) by Direct Method	330 µA to 330 mA	0.025%
28	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator (Fluke 5502A) by Direct Method	330 mA to 3.0 A	0.024% to 0.05%

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Site Facility					
29	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator (Fluke 5502A)with Current Coil by Direct Method	50 A to 200 A	0.7% to 0.85%
30	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance(2 Wire)	Using Digital Multimeter 6½ (Fluke 8846A) by Direct Method	10 M Ohm to 100 M Ohm	0.05% to 0.94%
31	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance(2 Wire)	Using Digital Multimeter 6½ (Fluke 8846A) by Direct Method	100 M ohm to 1 G Ohm	0.94% to 2.4%
32	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance(2 Wire)	Using Digital Multimeter 6½ (Fluke 8846A) by Direct Method	100 K Ohm to 500 K Ohm	0.014% to 0.03%
33	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance(2 Wire)	Using Digital Multimeter 6½ (Fluke 8846A) by Direct Method	500 k Ohm to 10 M ohm	0.03% to 0.05%

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Site Facility					
34	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance(4 Wire)	Using Micro Ohm Meter (Motwane LR2045)& Digital Multimeter 6½ (Fluke 8846A) by Direct Method	0.1 m Ohm to 1 m Ohm	0.66% to 0.12%
35	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance(4 Wire)	Using Micro Ohm Meter (Motwane LR2045)& Digital Multimeter 6½ (Fluke 8846A) by Direct Method	1000 m Ohm to 100 Ohm	0.12% to 0.02%
36	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC HIGH Voltage @ 50Hz	HV Probe with DMM & Direct Method	1 KV to 28 KV	3.5%
37	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Power/ energy Single/ three phase Active /reactive/ Apparent P.F 1 to 0.2(lag/lead) 45 to 60Hz,30 V to 300 V, 10A to 120A	Using Three Phase Reference Energy Calibrator Songyang SY3102 by Direct Method / Comparison Method	60 W/Var to 108 kW/kVar	0.025%

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Site Facility					
38	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Voltage @ 50Hz	Three Phase reference Energy Calibrator & Direct Method	30 V to 480 V	0.025%
39	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Voltage @ 50Hz to 1 KHz	Digital Multi meter 6½ & Direct Method	1 mV to 10 mV	4.76% to 0.54%
40	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Voltage @ 50Hz to 1KHz	Digital Multi meter 6½(& Direct Method	1 V to 1000 V	0.11%
41	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Voltage @ 50Hz to 1KHz	Digital Multi meter 6½(& Direct Method	10 mV to 100 mV	0.54% to 0.12%
42	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Voltage @ 50Hz to 1KHz	Digital Multi meter 6½ & Direct Method	100 mV to 1 V	0.12% to 0.11%

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Site Facility					
43	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Capacitance@1kHz	Using LCR Meter by Direct Method	1 nF to 1 µF	0.5%
44	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC High Voltage	HV Probe with DMM & Direct Method	1 KV to 35 KV	3.1%
45	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Digital Multi meter 6½(& Direct Method	1 mV to 10 mV	0.42% to 0.045%
46	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Digital Multi meter 6½(& Direct Method	10 mV to 100 mV	0.045% to 0.0085%
47	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Digital Multimeter 6½(& Direct Method	100 mV to 1000 V	0.0085%

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Site Facility					
48	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Inductance@1kHz	Using LCR Meter by Direct Method	100 µH to 1 H	0.58%
49	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Power Factor@50 to60 Hz	Using Three Phase Reference Energy Calibrator Songyang SY3102 by Direct Method / Comparison Method	1 lag/lead to 0.1 lag/lead	0.0006PF
50	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance (4wire)	Using Micro Ohm Meter (Motwane LR2045) by Direct Method	1 mOhm to 1000 mOhm	0.12%
51	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Resistance(4 Wire)	Digital Multimeter 6½ (Fluke 8846A) by Direct Method	100 Ohm to 100 kOhm	0.02%
52	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Resistance@1kHz	Using Std. Resistance Box& LCR Meter By Compression Method	1.0 Ohm to 100.0 k Ohm	0.5%

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Site Facility					
53	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage @ 45 to 60 Hz,	Using Three Phase Reference Energy Calibrator Songyang SY3102 by Direct Method	30 V to 300 V	0.025%
54	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage @50Hz to 1kHz	Using Multi Product Calibrator (Fluke 5502A) By Direct Method	3 mV to 330 mV	0.91% to 0.06%
55	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Voltage @50Hz to 1kHz	Using Multi Product Calibrator (Fluke 5502A) By Direct Method	330 mV to 1000 V	0.06%
56	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Capacitance@1kHz	Using Std. Capacitance Box & LCR Meter By Compression Method	1 nF to 1 µF	0.5%
57	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Voltage	Using Multi Product Calibrator (Fluke 5502A) By Direct Method	1 mV to 330 mV	0.4% to 0.008%
58	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	DC Voltage	Using Multi Product Calibrator (Fluke 5502A) By Direct Method	330 mV to 1000 V	0.009%

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Site Facility					
59	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Inductance@1kHz	Using Std. Inductance Box & LCR Meter By Compression Method	100 µH to 1 H	0.5%
60	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Insulation Resistance	Using HV Mega Ohm Box By Direct Method	20.0 MOhm	3.45%
61	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Insulation Resistance	Using HV Mega Ohm Box By Direct Method	200.0 MOhm	4.18%
62	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Insulation Resistance	Using HV Mega Ohm Box By Direct Method	100.0 M Ohm	3.45%
63	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Insulation Resistance	Using HV Mega Ohm Box By Direct Method	1000.0 M Ohm	4.18%
64	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Insulation Resistance	Using HV Mega Ohm Box By Direct Method	2.0 MOhm	3.45%

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Site Facility					
65	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Power factor 45 to 60Hz	Using Three Phase Reference Energy Calibrator By Comparison Method	1.0 lag/lead to 0.1 lag/lead	0.0008PF
66	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Resistance(4-wire)	Std. Resistance Box, DC Shunt Resistance Micro Ohm Meter (Motwane LR2045) Comparison Method	0.1 mOhm to 1.0 mOhm	0.66% to 0.12%
67	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Resistance(4-wire)	Using Multi Product Calibrator (Fluke 5502A), Std. Resistance Box, DC Shunt Resistance Micro Ohm Meter (Motwane LR2045) & Digital Multimeter 6½ (Fluke 8846A) Direct Method/ Comparison Method	1 mOhm to 1000 mOhm	0.12%

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Site Facility					
68	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Resistance(4-wire)	Using Multi Product Calibrator (Fluke 5502A), Std. Resistance Box, DC Shunt Resistance Micro Ohm Meter (Motwane LR2045) & Digital Multimeter 6½ (Fluke 8846A) Direct Method/ Comparison Method	100.0 Ohm to 100 kOhm	0.02%
69	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Resistance(4-wire)	Using Multi Product Calibrator (Fluke 5502A), Std. Resistance Box, DC Shunt Resistance Micro Ohm Meter (Motwane LR2045) & Digital Multimeter 6½ (Fluke 8846A) Direct Method/ Comparison Method	1000.0 mOhm to 100.0 Ohm	0.12% to 0.02%

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Site Facility					
70	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source,Measure)	AC Power/ energy Single/ three phase Active /reactive/ Apparent P.F 1 to 0.2(lag/lead) 45 to 60Hz,30 V to 300 V, 0.5A to 10A	Using Three Phase Reference Energy Calibrator Songyang SY3102 by Direct Method / Comparison Method	3 W/Var to 9000 W/Var	0.034% to 0.025%
71	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source,Measure)	AC Power/ energy Single/ three phase Active /reactive/ Apparent P.F 1 to 0.2(lag/lead) 45 to 60Hz,30 V to 300 V, 5mA to 500mA	Using Three Phase Reference Energy Calibrator Songyang SY3102 by Direct Method / Comparison Method	0.03 W/Var to 450 W/Var	0.667% to 0.025%
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder) S-Type Thermocouple	Using Multi Product Calibrator (Fluke 5502A)/ Universal Calibrator By Direct Method	0 °C to 1700 °C	0.53°C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder) B-Type Thermocouple	Using Multi Product Calibrator (Fluke 5502A)/ Universal Calibrator By Direct Method	600 °C to 1800 °C	0.44°C

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Site Facility					
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder) E-Type Thermocouple	Using Multi Product Calibrator (Fluke 5502A)/ Universal Calibrator By Direct Method	-200 °C to 1000 °C	0.5°C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder) K-Type Thermocouple	Using Multi Product Calibrator (Fluke 5502A)/ Universal Calibrator By Direct Method	-200 °C to 1300 °C	0.38°C
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder) N-Type Thermocouple	Using Multi Product Calibrator (Fluke 5502A)/ Universal Calibrator By Direct Method	-200 °C to 1300 °C	0.4°C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder) RTD (PT-100)	Using Multi Product Calibrator (Fluke 5502A)/ Universal Calibrator By Direct Method	-200 °C to 630 °C	0.14°C

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Site Facility					
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder) R-Type Thermocouple	Using Multi Product Calibrator (Fluke 5502A)/ Universal Calibrator By Direct Method	0 °C to 1700 °C	0.57°C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder) T-Type Thermocouple	Using Multi Product Calibrator (Fluke 5502A)/ Universal Calibrator By Direct Method	-200 °C to 400 °C	0.24°C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature (Indicator/Controller, PID, Data logger, Scanner, Calibrator, Process meter & Recorder)J-Type Thermocouple	Using Multi Product Calibrator (Fluke 5502A)/ Universal Calibrator By Direct Method	-200 °C to 1000 °C	0.27°C
81	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	Digital Multi meter 6½(& Direct Method	10 Hz to 50 Hz	0.082% to 0.016%

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Site Facility					
82	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	Digital Multi meter 6½ & Direct Method	50 Hz to 1000 KHz	0.016% to 0.012 %
83	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	Digital Timer & Direct Method	0.1 s to 10 s	0.0013s
84	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	Digital Timer & Direct Method	10 s to 1000 s	0.014s
85	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	Digital Timer & Direct Method	1000 s to 9900 s	0.17s
86	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	Digital Timer & Direct Method	9900 s to 86400 s	1.3s to 2.77s
87	ELECTRO-TECHNICAL- TIME & FREQUENCY (Source)	Frequency	Multi Product Calibrator (Fluke 5502A) By Direct Method	10 Hz to 2 MHz	0.07% to 0.007%

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Site Facility					
88	MECHANICAL-ACCELERATION AND SPEED	Non-Contact Tachometer Stroboscope / RPM indicator / Vibrating M/c	Using Digital Tachometer & Source By Comparison method with using motorized source with strip	10000 rpm to 99000 rpm	0.10% rdg to 0.07% rdg
89	MECHANICAL-ACCELERATION AND SPEED	Stroboscope / RPM Indicator/ Vibrating M/c / Abrasion Testing M/c / Centrifuge, Washing & Drying M/c	Using Digital Tachometer & Source By Comparison method with using motorized source with strip	10 rpm to 10000 rpm	5.2% rdg to 0.10% rdg
90	MECHANICAL-ACOUSTICS	Sound Level Meter (At 94 & 114 dB)	Using Sound level calibrator By Comparison method	94 dB to 114 dB	2dB
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	2D Height Gauge / Linear Height GaugeL.C. 0.0001 mm	Slip Gauge Set, Caliper Checker	up to 600 mm	5.3µm
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate/ Box Angle Plate/ Right Angle (Parallelism, Flatness & Squareness)	Slip Gauge Set, Dial Indicator &Granite Square	upto to 400 mm	6.9µm

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Site Facility					
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center(Parallelism &Coaxiality Measurement)	Using Test Mandrel & Dial Indicator	Upto to 500 mm	6.0µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Digital, Error external jaw, internal jaw and depth, parallelism of external and internal jaws) L.C. 0.01mm	Slip Gauge Set, Caliper Checker & Long Slip Gauges	1000 mm to 1500 mm	14.5µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Calibration Tester / Micrometer Head L.C 0.0001 mm	Slip Gauge Set, Dial Indicator	up to 50 mm	4.5µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gauge Block CalibratorL.C.: 0.01 µm	Using Slip Gauge Set (11 PC's)	0.5 mm to 6.0 mm	0.08µm
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gauge Block CalibratorL.C.: 0.01 µm	Slip Gauge Set (11 PC's)	6.0 mm to 100 mm	0.14µm

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Site Facility					
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) (Parallelism of scriber to base)L.C. 0.01mm	Slip Gauge Set, Caliper Checker, Dial test Indicator & Long Slip Gauges	up to 1000 mm	9.7µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Center(Angle & Parallelism)	Using Slip Gauge Set, Angle Gauge set, Dial Test Indicator, 2D Height Gauge	up to 300.0 mm	6.0µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness Measurement)	Using Electronic Level	Up to 2000.0 mm	4.0µm/m
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface plate (Flatness Measurement)	Using Electronic Level	150x150 mm to 6000x4000 mm	1.0 * sqrt((L+W)/125)µm/mtr
102	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Extensometers Travel of ExtensometerGauge Length	Dial Gauge of 0.0001 mm least count with Extenso Meter Calibrator	up to 50.0 mm	5.0µm

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Site Facility					
103	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine (Single Axis)L.C.: 0.0001 mm	Using Slip Gauge Set & Long Slip Gauge 200 mm	>100.0 mm to 300.0 mm	2.7µm
104	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine (Single Axis)L.C.: 0.0001 mm	Using Slip Gauge Set & Long Slip Gauge 200 mm	up to 100.0 mm	0.5µm
105	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Linear Measurement)L.C.: 0.001 mm	Glass Scale/Slip Gauge set	up to 200 mm	5.3µm
106	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector(Angle Measurement)L.C.: 1”	Angle Gauge Set	up to Angle 360°	27.2second of arc
107	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile ProjectorL.C.: 0.001 mm (Magnification)	Glass Scale & Digimatic Caliper	10X mm to 100X mm	0.06%
108	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Verification of Extensometers calibrator	Dial Gauge of 0.0001 mm least count with extenso meter calibrator	up to 2.0 mm	8.0µm

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Site Facility					
109	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Standard Hardness Block,& IS 1500-2: 2013 Indirect Method	10/3000 HBW to 10/3000 HBW	1.75%
110	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Standard Hardness Block,& IS 1500-2: 2013 Indirect Method	2.5/187.5 HBW to 2.5/187.5 HBW	2.20%
111	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Standard Hardness Block,& IS 1500-2: 2013 Indirect Method	5/750 HBW to 5/750 HBW	2.50%
112	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Standard Hardness Block,& IS 1586-2: 2012 Indirect Method	HRA	0.72HRA
113	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Standard Hardness Block &, IS 1586-2: 2012 Indirect Method	HRB	1.18HRB
114	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Standard Hardness Block, & IS 1586-2: 2012 Indirect Method	HRC	0.72HRC
115	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine (HV1)	Standard Hardness Block, IS 1501-2: 2013 Indirect Method	HV1	2.60%
116	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine (HV10)	Standard Hardness Block,& IS 1501-2: 2013 Indirect Method	HV10	1.85%

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Site Facility					
117	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine (HV30)	Standard Hardness Block &, IS 1501-2: 2013 Indirect Method	HV30 HV	1.95%
118	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine (HV5)	Standard Hardness Block &, IS 1501-2: 2013 Indirect Method	HV5	3.5%
119	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge /Differential Pressure / Manometer	Using Digital Pressure Calibrator DKD-R6-1 By Comparison method	>250 Pa to 2000 Pa	7.1Pa
120	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge /Differential Pressure/Manometer	Using Digital Pressure Calibrator DKD-R6-1 By Comparison method	0 Pa to 250 Pa	1.78% of rdg
121	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Gauges / Transmitter/ Transducer) (Hydraulic 0-700bar & Pneumatic 0-20bar)	Using Digital Pressure gauges Universal Calibrator DKD-R6-1 By Comparison method	0 bar to 700 bar	0.20% of rdg
122	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum (Gauge / Transmitter/ Transducer)	Using Digital Pressure gauge Universal Calibrator DKD-R6-1 By Comparison method	0 bar to (-)0.95 bar	0.8% of rdg

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Site Facility					
123	MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine Compression	Force proving Instrument of Class 1 or better, IS 1828:2015 (Part-1) for class 1 or coarser testing machine	200 N to 2000 KN	0.55%
124	MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Testing Machine Tension	Force proving Instrument of Class 1 or better &, IS 1828:2015 (Part-1) for class 1 or coarser testing machine	2 N to 50 KN	0.67%
125	MECHANICAL- WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class III & Coarser)Readability : 10 mg	F1 class standard weights. Procedure as per OIML R 76-1 guidelines.	>200 g to 1 kg	0.02 g
126	MECHANICAL- WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class IV)Readability : 10 g	F1 & M1 class standard weights. Procedure based on OIML R 47 guidelines.	>50 kg to 100.0 kg	27.0 g
127	MECHANICAL- WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class III & Coarser)Readability: 1 g	F1 class standard weights. Procedure as per OIML R76-1 guidelines.	>20.0 kg to 50.0 kg	2.5 g

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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)(±)
Site Facility					
128	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class IV)Readability : 10 g	F1 & M1 class standard weights. Procedure as per OIML R 47 guidelines.	>100 kg to 300 kg	30.0 g
129	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balances (Class II & Coarser)Readability : 0.1 g	F1 class standard weights. Procedure based on OIML R 76-1 guidelines.	>1.0 kg to 5.0 kg	0.5 g
130	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balances (Class II & Coarser)Readability : 0.1 mg	E2 Class Standard Weights. Procedure based on OIML R 76-1 guidelines.	>80 g to 200 g	0.3 mg
131	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balances (Class II & Coarser)Readability : 0.1 mg	E2 class standard weights. Procedure as per OIML R 76-1 guidelines.	1 mg to 80 g	0.3 mg
132	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balances (Class III & Coarser)Readability: 0.5 g	F1 class standard weights. Procedure based on OIML R 76-1 guidelines.	>5.0 kg to 20.0 kg	1.0 g
133	THERMAL- SPECIFIC HEAT & HUMIDITY	Humidity indicator with sensor of Humidity Calibrator/Generator/ Chamber (Single position calibration)	Digital RH Indicator with Sensor (At measuring location in DUC)	10 %RH to 95 %RH@25°C	0.9%RH

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Site Facility					
134	THERMAL- SPECIFIC HEAT & HUMIDITY	Humidity indicator with sensor of HumidityHumidity Chamber, Environment Chamber(Multi Position Calibration)	Using Wireless Data Loggers with inbuilt sensor by Comparison Method	15 %RH to 95 %RH@25°C	2.1%RH
135	THERMAL-TEMPERATURE	RTD/Thermocouples, With or without Controller/ Indicator/Data logger /Recorder, Temperature Transmitter, Digital Thermometer	6½ Digital Multimeter/,Precision Temperature scanner with SSPRT / Digital Temperature Indicator with S-Type TC & Dry Block Furnaces By Comparison Method	250 °C to 600 °C	0.25°C
136	THERMAL-TEMPERATURE	RTD'S, Thermocouples, With or Without Controller/ Indicator/Data logger /Recorder, Temperature Transmitter, Temperature Gauge, Digital Thermometer	6½ Digital Multimeter/ Precision Temperature scanner with SSPRT & Liquid Nitrogen Crystat By Comparison Method	(-)196 °C to	0.21°C

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Site Facility					
137	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Deep Freezer/ Low temperature Bath/Refrigerator/ Environmental Chambers(Single Position calibration)-Temperature Measurement	Precision Temperature scanner with SSPRT,/ Simplex-4 Wire, RTD With Indicator	(-)196 °C to	0.21°C
138	THERMAL-TEMPERATURE	Thermocouples, With or without Controller/ Indicator/Data logger /Recorder, Temperature Transmitter, Digital Thermometer	6½.Digital Multimeter,/Digital Temperature Indicator with S-Type TC & Dry Block Furnaces By Comparison Method	800 °C to 1200 °C	2.44°C
139	THERMAL-TEMPERATURE	Dry Block Furnace/ Muffle Furnace(Muti Position Calibration)	Data Logger with Thermocouple By comparison method	300 °C to 600 °C	3.6°C
140	THERMAL-TEMPERATURE	Dry Block Furnace/ Muffle Furnace(Muti Position Calibration)	Data Logger with Thermocouple By Comparison Method	600 °C to 1200 °C	5.5°C

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Site Facility					
141	THERMAL-TEMPERATURE	Environment Chamber, Furnaces, Freezers, Oven, Vacuum Oven, Cold/ Hot Room, , Aging Oven(Multi position Calibration)	Precision Temperature scanner with RTDs by Comparison Method	50 °C to 300 °C	1.1°C
142	THERMAL-TEMPERATURE	Environment Chamber, Furnaces, Freezers, Oven, Vacuum Oven, Cold/ Hot Room, , Aging Oven(Multi position Calibration)	Precision Temperature scanner with RTDs By comparison Method	-80 °C to 50 °C	1.1°C
143	THERMAL-TEMPERATURE	Industrial Furnace(Multi position Calibration)	Data Logger with Thermocouple by Comparison method	300 °C to 600 °C	3.6°C
144	THERMAL-TEMPERATURE	Industrial FurnaceMulti position Calibration	Data Logger with Thermocouple by Comparison Method	600 °C to 1200 °C	5.5°C

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Site Facility					
145	THERMAL-TEMPERATURE	RTD'S, Thermocouples, With or Without Controller/ Indicator/Data logger /Recorder, Temperature Transmitter, Temperature Gauge, Glass Thermometer Digital Thermometer	6½ Digital Multimeter /Precision Temperature scanner with SSPRT / Liquid Bath, By Comparison Method	(-)80 °C to 50 °C	0.12°C
146	THERMAL-TEMPERATURE	RTD'S, Thermocouples, With or Without Controller/ Indicator/Data logger /Recorder, Temperature Transmitter, Temperature Gauge, Glass Thermometer Digital Thermometer	6½ Digital Multimeter/ Precision Temperature scanner with SSPRT/ Liquid Bath, By Comparison Method	50 °C to 250 °C	0.19°C
147	THERMAL-TEMPERATURE	Temperature indicator with sensor of Black Body Furnace(Single Position calibration	Using Digital Pyrometer (at measuring location in DUC)	0 °C to 600 °C	3.3°C
148	THERMAL-TEMPERATURE	Temperature indicator with sensor of Black Body Furnace(Single Position calibration)	Digital Pyrometer (at measuring location in DUC)	600 °C to 1200 °C	5.2°C

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Site Facility					
149	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Dry Block Furnace/ Muffle Furnace (Single Position calibration)	Digital Temperature Indicator with S-Type TC (at measuring location in DUC) by Comparision Method	600 °C to 800 °C	1.95°C
150	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Dry Block Furnace/ Muffle Furnace (Single Position calibration)	Using Digital Temperature Indicator with S-Type TC By Comparison Method (at measuring location in DUC)	800 °C to 1200 °C	2.5°C
151	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Liquid Bath, Oven, Oven, Dry Block furnace, Refrigerator, Auto clave, Incubator (non medical) Environmental Chamber#(Single Position Calibration)-Temperature Measurement	Precision Temperature scanner with SSPRT/Simplex-4 Wire,RTD With Indicator	(-)80 °C to 600 °C	0.15°C

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Site Facility					
152	THERMAL-TEMPERATURE	Thermocouples, With or without Controller/ Indicator/Data logger /Recorder, Temperature Transmitter, Digital Thermometer	6½ Digital Multimeter/Digital Temperature Indicator with S-Type TC & Dry Block Furnaces By Comparison Method	600 °C to 800 °C	1.95°C

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