



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

ASIAN TECHNOLOGY, F.C.A. 3614, S.G.M.NAGAR N.I.T, FARIDABAD, HARYANA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2239

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Validity

06/03/2020 to 03/06/2021*

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*The validity is extended for one year up to 03.06.2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current	Using Digital Multimeter 6½ Fluke 8846 by Comparison/ Direct method	100µA to 1mA	0.8% to 0.2%
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current	Using Digital Multimeter 6½ Fluke 8846 by Comparison/ Direct method	100mA to 1A	0.2% to 0.2%
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current	Using Digital Multimeter 6½ Fluke 8846 by Comparison/ Direct method	1A to 10A	2.0% to 0.3%
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current	Using Digital Multimeter 6½ Fluke 8846 by Comparison/ Direct method	1mA to 100mA	0.2% to 0.2%



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage	Using HV Probe with DMM Fluke 80k-40 by Comparison/Direct Method	1kV to 25kV	6.5% to 6.5%
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage	Using Digital Multimeter 6½ Fluke 8846 by Comparison/ Direct method	10 Hz to 1 kHz	0.54 % to 0.15 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage	Using Digital Multimeter 6½ Fluke 8846 by Comparison/ Direct method	10 mV to 750V	1.68% to 0.15%
8	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter 6½ Fluke 8846 by Comparison/ Direct method	100µA to 100mA	0.1% to 0.07%
9	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter 6½ Fluke 8846 by Comparison/ Direct method	100mA to 1A	0.07% to 0.11%



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10	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Digital Multimeter 6½ Fluke 8846 by Comparison/ Direct method	1A to 10A	0.11% to 0.2%
11	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Prove with DMM Fluke 80k-40 by Comparison/Direct method	1 kV to 20 kV	5% to 5%
12	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using Multimeter 6½ Fluke 8846A by Comparison / Direct Method	10 ohm to 100 ohm	0.06% to 0.02%
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using Multimeter 6½ Fluke 8846A by Comparison / Direct Method	100 ohm to 10k ohm	0.02% to 0.02%
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using Multimeter 6½ Fluke 8846A by Comparison / Direct Method	100M ohm to 1G ohm	1.0% to 2.34%



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15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using Multimeter 6½ Fluke 8846A by Comparison / Direct Method	10k ohm to 100M ohm	0.02% to 1.0%
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter 6½ Fluke 8846 by Comparison/ Direct method	1 mV to 100 mV	1.0 % to 0.025 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Digital Multimeter 6½ Fluke 8846 by Comparison/ Direct method	100 mV to 1000 V	0.025 % to 0.025 %
18	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Energy (1Ø & 3Ø)	Using Three phase Power Energy Meter Calibrator by Direct Method	1A to 5A	1.8%
19	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Energy (1Ø & 3Ø)	Using Three phase Power Energy Meter Calibrator by Direct Method	240 Volt, 1A & 5A 1 and 3-phase	1.8%



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20	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Energy (1Ø & 3Ø)	Using Three phase Power Energy Meter Calibrator by Direct Method	415 V (Ph-Ph), 3Ø	1.8%
21	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Energy (1Ø & 3Ø)	Using Three phase Power Energy Meter Calibrator by Direct Method	UPF to 0.5PF(lag & lead)	1.8%
22	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	AC Power (1Ø & 3Ø)	Using Three phase Power Energy Meter Calibrator by Direct Method	240V, 1A to 5A At UPF and 0.5PF (lag & lead)	0.73%
23	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Power Factor Meter (Mechanical / Digital)	Using Three phase Power Energy Meter Calibrator by direct method	At 240 Volt,1A and 1 & 3 Phase	0.02PF to 0.02PF
24	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) J-Type Thermocouple	Using Universal Calibrator (Masibus 3001M by Direct Method)	50 °C to 750 °C	1.4 °C



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25	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) K-Type Thermocouple	Using Universal Calibrator (Masibus 3001M by Direct Method	50 °C to 1300 °C	1 °C
26	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) RTD (PT-100)	Using Universal Calibrator (Masibus 3001M by Direct Method	(-)200 °C to 850 °C	0.60°C
27	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) S-Type Thermocouple	Using Universal Calibrator (Masibus 3001M by Direct Method	200 °C to 1700 °C	1.6 °C
28	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) T-Type Thermocouple	Using Universal Calibrator (Masibus 3001M by Direct Method	(-)150 °C to 400 °C	1 °C



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29	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Capacitance	Using LCR Meter by Comparison/Direct Method	1nF to 10µF	0.82% to 1.25%
30	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Digital Multimeter 6½ Fluke 8846 by Comparison/ Direct method	10Hz to 300kHz	0.12% to 0.2%
31	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Inductance	Using LCR Meter by Comparison/Direct Method	100µH to 1H	1%
32	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Resistance (2wire measurement)	Using High Resistance Box (Discreet Value) by Direct method	200M ohm	3.62%
33	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Resistance (2wire measurement)	Using High Resistance Box (Discreet Value) by Direct method	20G ohm	4.3%



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34	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Resistance (2wire measurement)	Using High Resistance Box (Discreet Value) by Direct method	20M ohm	3.52%
35	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Resistance (2wire measurement)	Using High Resistance Box (Discreet Value) by Direct method	2G ohm	4.1%
36	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Resistance (2wire measurement)	Using High Resistance Box (Discreet Value) by Direct method	2M ohm	3.52%
37	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Resistance (4wire measurement)	Using Standard Resistance Box Discreet value by Direct Method	1 m ohm	1.2%
38	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Resistance (4wire measurement)	Using Standard Resistance Box Discreet value by Direct Method	1 ohm	0.65%



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39	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Resistance (4wire measurement)	Using Standard Resistance Box Discreet value by Direct Method	10 m ohm	0.8%
40	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Resistance (4wire measurement)	Using Standard Resistance Box Discreet value by Direct Method	10 ohm	0.65%
41	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Resistance (4wire measurement)	Using Standard Resistance Box Discreet value by Direct Method	100 m ohm	0.7%
42	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Resistance (4wire measurement)	Using Standard Resistance Box Discreet value by Direct Method	100 ohm	0.65%
43	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Resistance (4wire measurement)	Using Standard Resistance Box Discreet value by Direct Method	1k ohm	0.6%



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44	MECHANICAL-ACCELERATION AND SPEED	Stroboscope Tachometer (Non-Contact Type)	Using Digital Tachometer & Rotating Disc with Reflecting Tapes as Source	9900 rpm to 99000 rpm	0.20%
45	MECHANICAL-ACCELERATION AND SPEED	Stroboscope, Tachometer (Non-Contact Type)	Using Digital Tachometer & Rotating Disc with Reflecting Tapes as Source	1000 rpm to 9900 rpm	0.20%
46	MECHANICAL-ACCELERATION AND SPEED	Stroboscope/ Tachometer (Non-Contact Type)	Using Digital Tachometer & Rotating Disc with Reflecting Tapes as Source	50 rpm to 52000 rpm	5 % to 0.4 %
47	MECHANICAL-ACOUSTICS	Sound Level Meter	Sound Level Calibrator	94 dB, 114dB	1.3dB
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate / Box Angle Plate (Right Angle Squareness)	Using Master cylinder and Gauge blocks.	Upto 300X300 mm	4.8µm



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49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Angle protractor	Using Angle Gauge Set	0-90-0 °	3.51min of arc
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Digital) LC:0.01mm	Using Gauge block & Caliper Checker	0 mm to 300 mm	8.0µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Digital) LC:0.01mm	Using Gauge blocks & Caliper checker	0 mm to 600 mm	14.6µm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Co-Axiality of centre	using plain cylindrical mandrel	0 axis to 500 axis	5.9 µm



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53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge L.C 0.001 mm	Master foils set	10 µm to 729 µm	3.8µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper LC: 0.01 mm	Using Gauge blocks & Caliper Checker	0 mm to 300 mm	8.0µm
55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer LC: 0.001mm	Using Gauge blocks & Caliper Checker	0 mm to 150 mm	2.5µm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth micrometer LC: 0.01 mm	Gauge Block	0 mm to 150 mm	5.2 µm



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57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Bore Gauge (Travel only) LC:0.001mm	Using Electronic Dial Calibration Tester	Up to 2 mm	1.7µm
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Calibration Tester LC: 0.0001mm	Using Gauge blocks & Electronic Probe	0 mm to 25 mm	0.8µm
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Test Indicator LC:0.01mm	Dial Calibration Tester	0 mm to 1.0 mm	1.7µm
60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge LC:0.001mm	Using Gauge blocks set	0 mm to 50 mm	1.2µm



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61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Tachometer (Non-Contact Type)	Using Digital Tachometer & Rotating Disc with Reflecting Tapes as Source	50 rpm to 1000 rpm > 1000	0.38%, 0.27%, 0.10%
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe L.C. 0.0001 mm	Using Gauge blocks & Comparator Stand	0 mm to 25 mm	0.9µm
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square	using master cylinder & gauge block	0 mm to 450 mm	7.4 µm
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer LC: 0.001mm	Using Gauge blocks.	0 mm to 25 mm	1.0µm



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65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer LC: 0.001mm	Using Gauge blocks	100 mm to 150 mm	1.4µm
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer LC: 0.001mm	Using Gauge blocks.	25 mm to 100 mm	1.2µm
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Filler Gauge/ Standard foils	Using Electronic Probe & Comparator Stand	Up to 2 mm	2.3µm
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/ Dial/Digital) LC: 0.01mm	Using Gauge blocks & Caliper Checker	0 mm to 300 mm	5.0µm



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69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/ Dial/Digital) LC: 0.01mm	Using Gauge blocks & Caliper Checker	0 mm to 600 mm	8.2µm
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Bar/ Micrometer Setting Rod	Using Gauge blocks, Comparator stand & Electronic Probe	25 mm to 150 mm	1.6µm
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin Set	Using Gauge blocks, Electronic Probe & Comparator Stand	1 to 10 mm	1.4µm
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape L.C.: 1mm	Using Tape & Scale Measuring Machine	Upto 50 m	62 v L µm(L is in meter)



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73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Gauge blocks, comparator stand electronic probe	3 mm to 50 mm	1.0µm
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Gauge block, comparator stand & electronic probe	50 mm to 150 mm	1.6µm
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (Dial/ Digital) LC:0.001mm	Using Dial Calibration Tester Gauge block & Comparator Stand	0 mm to 50 mm	1.7µm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector	Up to to 100 mm	7.4µm



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77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level, (Sensitivity)	Using Electronic Level	Up to to 100 µm/ meter	8.0µm/ meter
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale L.C.: 0.5 mm	Using Measuring Tape & Scale Calibrator Machine	0 mm to 1000 mm	65.6µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel (Straightness/ Runout)	Using Electronic Probe, Bench Centre & Dial Gauge	Up to to 300 mm	6.5µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Digital Caliper	10 mm to 100 mm	12.0µm



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81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Profile Projector	30 µm to 10 mm	8.4µm
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge	Using Profile Projector	Up to to 6.0 mm	7.4µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Parallelism/ Squariness/ Symmetry)	Using Gauge Block, master cylinder, test mandrel & plunger type dial gauge	150x100x75 mm	Parallelism 4.4, Squariness 4.4 Symmetry 3.75µm
84	MECHANICAL-DUROMETER	Rubber Hardness tester shore- A - spring force	Using Digital Weighing Balance & Micrometer ASTM 2240-2015	0 -100 Shore-A	1.2 shore-A
85	MECHANICAL-DUROMETER	Rubber Hardness tester shore- A - spring force - displacement (indentation depth)	Using Digital Weighing Balance & Micrometer ASTM 2240-2015	0-100 Shore-A	0.70 Shore-A



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86	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	PULL GAUGE (300 N)	slotted weight with fixture NABL 122-08	30 N to 300 N	1.4 N
87	MECHANICAL-TORQUE MEASURING DEVICES	Torque Wrenches Type / Class B,C,D,E Type II / Class A,B,D,E	Using Digital Torque Transducer with Indicator	10Nm to 100Nm	2.22%rdg
88	MECHANICAL-TORQUE MEASURING DEVICES	Torque Wrenches Type / Class B,C,D,E Type II / Class A,B,D,E	Using Digital Torque Transducer with Indicator IS6789-2003	1Nm to 10Nm	2.33%rdg.
89	MECHANICAL-TORQUE MEASURING DEVICES	Torque Wrenches Type I/ Class B,C,D,E Type II / Class A,B,D,E	Using Digital Torque Transducer with Indicator	100Nm to 1000Nm	1.6%rdg



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90	MECHANICAL-VOLUME	Laboratory Glassware (Burette, pipette, Measuring Cylinder, Syringe)	Using Standard weight(s) of E2 class, weighing balance(s) with L.C. (s) of 0.01 mg (1 ml to 100 ml) & 0.1 mg (100 ml & 200 ml) and distilled water. Using gravimetric method as per IS/ISO 4787:2010&ISO/TR 20461:2000. Ref. TEMP:27°C	>50 ml to 150 ml	0.10 ml
91	MECHANICAL-VOLUME	Laboratory Glassware (Burette, pipette, Measuring Cylinder, Syringe)	Using Standard weight(s) of E2 class, weighing balance(s) with L.C. (s) of 0.01 mg (1 ml to 100 ml) & 0.1 mg (100 ml & 200 ml) and distilled water. Using gravimetric method as per IS/ISO 4787:2010&ISO/TR 20461:2000. Ref. TEMP:27°C	1 ml to 50 ml	0.01ml



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92	MECHANICAL-VOLUME	Laboratory Glassware (Burette, pipette, Measuring Cylinder, Syringe)	Using Standard weight(s) of E2 class, weighing balance(s) with L.C. (s) of 0.01 mg (1 ml to 100 ml) & 0.1 mg (100 ml & 200 ml) and distilled water. Using gravimetric method as per IS/ISO 4787:2010&ISO/TR 20461:2000. Ref. TEMP:27°C	150 ml	0.01 ml
93	MECHANICAL-VOLUME	Volume (Micropipette)	Using Standard weight(s) of E2 class, weighing balance(s) with L.C. (s) of 0.01 mg (1 ml to 100 ml) & 0.1 mg (100 ml & 200 ml) and Triple distilled water. Using gravimetric method as per IS/ISO 4787:2010&ISO/TR 20461:2000. Ref. TEMP:27°C	>100 µl to 1 ml	0.21 µl



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94	MECHANICAL-VOLUME	Volume (Micropipette)	Using Standard weight(s) of E2 class, weighing balance(s) with L.C. (s) of 0.01 mg (1 ml to 100 ml) & 0.1 mg (100 ml & 200 ml) and Triple distilled water. Using gravimetric method as per IS/ISO 4787:2010&ISO/TR 20461:2000. Ref. TEMP:27°C	10 µl to 100 ul	0.10 µl
95	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance L.C. = 0.1 mg or coarser	Using E2 class weights	0 g to 200 g	0.13 mg
96	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance L.C. =/	Using F1 class weights	50 kg to 300 kg	90.0 g
97	MECHANICAL-WEIGHING SCALE AND BALANCE	Balance L.C. =/>1.0 g	Using F1 class weights	>200 g to 50 kg	6.0 g



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98	MECHANICAL-WEIGHTS	Mass (Conventional Mass of weights) 1 mg of M1 Class & coarser	Using E2 class weights & Precision Balance with L/C:0.01 mg	1 mg	0.034 mg
99	MECHANICAL-WEIGHTS	Mass (Conventional Mass of weights) 10 g of M1 Class & coarser	Using E2 class weights & Precision Balance with L/C:0.01 mg	10 g	0.13 mg
100	MECHANICAL-WEIGHTS	Mass (Conventional Mass of weights) 10 mg of M1 Class & coarser	Using E2 class weights & Precision Balance with L/C:0.01 mg	10 mg	0.034 mg
101	MECHANICAL-WEIGHTS	Mass (Conventional Mass of weights) 100 g of M1 Class & coarser	Using E2 class weights & Precision Balance with L/C:0.1 mg	100 g	0.35 mg
102	MECHANICAL-WEIGHTS	Mass (Conventional Mass of weights) 100 mg of M1 Class & coarser	Using E2 class weights & Precision Balance with L/C:0.01 mg	100 mg	0.034 mg
103	MECHANICAL-WEIGHTS	Mass (Conventional Mass of weights) 1g of M1 Class & coarser	Using E2 class weights & Precision Balance with L/C:0.01 mg	1 g	0.053 mg
104	MECHANICAL-WEIGHTS	Mass (Conventional Mass of weights) 2 g of M1 Class & coarser	Using E2 class weights & Precision Balance with L/C:0.01 mg	2 g	0.053 mg



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105	MECHANICAL-WEIGHTS	Mass (Conventional Mass of weights) 2 mg of M1 Class and coarser	Using E2 class weights & Precision Balance with L/C:0.01 mg	2 mg	0.034 mg
106	MECHANICAL-WEIGHTS	Mass (Conventional Mass of weights) 20 g of M1 Class & coarser	Using E2 class weights & Precision Balance with L/C:0.01 mg	20 g	0.13 mg
107	MECHANICAL-WEIGHTS	Mass (Conventional Mass of weights) 200 g of M1 Class Class & coarser	Using E2 class weights & Precision Balance with L/C:0.1 mg	200 g	0.33 mg
108	MECHANICAL-WEIGHTS	Mass (Conventional Mass of weights) 200 mg of M1 Class & coarser	Using E2 class weights & Precision Balance with L/C:0.01 mg	200 mg	0.034 mg
109	MECHANICAL-WEIGHTS	Mass (Conventional Mass of weights) 5 g of M1 Class & coarser	Using E2 class weights & Precision Balance with L/C:0.01 mg	5 g	0.053 mg
110	MECHANICAL-WEIGHTS	Mass (Conventional Mass of weights) 5 mg of M1 Class & coarser	Using E2 class weights & Precision Balance with L/C:0.01 mg	5 mg	0.034 mg
111	MECHANICAL-WEIGHTS	Mass (Conventional Mass of weights) 50 g M1 Class & coarser	Using E2 class weights & Precision Balance with L/C:0.01 mg	50 g	0.13 mg



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112	MECHANICAL-WEIGHTS	Mass (Conventional Mass of weights) 50 mg of M1 Class & coarser	Using E2 class weights & Precision Balance with L/C:0.01 mg	50 mg	0.034 mg
113	MECHANICAL-WEIGHTS	Mass (Conventional Mass of weights) 500 mg of M1 Class & coarser	Using E2 class weights & Precision Balance with L/C:0.01 mg	500 mg	0.034 mg
114	MECHANICAL-WEIGHTS	Mass (Conventional Mass of weights) of 20 mg of M1 Class & coarser	Using E2 class weights & Precision Balance with L/C:0.01 mg	20 mg	0.034 mg
115	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital / Analog Hygrometer, RH Sensors with Indicator	Using Digital Humidity Indicator with sensor , Humidity generator. (Comparison Calibration)	10 % RH to 95 % RH at approx.25 deg.	1.9%RH
116	THERMAL-TEMPERATURE	Liquid-in-Glass Thermometer	Using RTD with Indicator, Low Temp. Bath/Silicon Oil Bath (Comparison method)	(-)40 °C to 250 °C	0.63 °C
117	THERMAL-TEMPERATURE	Pyrometer , IR Thermometer	Using Pyrometer, Black Body Furnace (Comparison Method)	300 °C to 1500 °C	4.1 °C



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118	THERMAL-TEMPERATURE	Pyrometer , IR Thermometer	Using Pyrometer, Black Body Furnace (Comparison Method)	50 °C to 350 °C	2.82 °C
119	THERMAL-TEMPERATURE	RTD s , Thermocouples with or without Controller, Indicator, Dial Temperature Gauge, Digital Thermometer, Temperature Transmitter	Using RTD with Indicator, 6.5 DMM, Low Temp. Bath, Silicon Oil Bath. (Comparison method)	(-)30 °C to 50 °C	0.21 °C
120	THERMAL-TEMPERATURE	RTD s , Thermocouples with or without Controller, Indicator, Dial Temperature Gauge, Digital Thermometer, Temperature Transmitter	Using RTD with Indicator, 6.5 DMM, Low Temp. Bath, Silicon Oil Bath (Comparison method)	50 °C to 250 °C	0.27 °C
121	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Dry Block Furnace, Muffle Furnace	Using S Type TC with Indicator (Single Position Calibration)	250 °C to 500 °C	2.1 °C



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122	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Dry Block Furnace, Muffle Furnace.	Using S Type TC with Indicator (Single Position Calibration)	500 °C to 1500 °C	4.38 °C
123	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Liquid Bath, Dry Block Furnaces, Frezzer, Oven, Incubator, Environmental Chamber, Cold Room, Hot Room, Autoclave.	Using RTD with Indicator (Single Position Calibration)	(-)-30 °C to 250 °C	0.3 °C
124	THERMAL-TEMPERATURE	Thermocouples with or without Controller, Indicator, Digital Thermometer	Using S Type TC with Indicator, 6.5 DMM, Dry Block Furnace (Comparison Method)	250 °C to 500 °C	1.8 °C
125	THERMAL-TEMPERATURE	Thermocouples with or without Controller, Indicator, Digital Thermometer	Using S Type TC with Indicator, 6.5 DMM, Dry Block Furnace (Comparison Method)	500 °C to 1500 °C	4.38 °C



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Site Facility					
1	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) J-Type Thermocouple	Using Universal Calibrator (Masibus 3001M by Direct Method	50 °C to 750 °C	1.4 °C
2	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) K-Type Thermocouple	Using Universal Calibrator (Masibus 3001M by Direct Method	50 °C to 1300 °C	1 °C
3	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) R-Type Thermocouple	Using Universal Calibrator (Masibus 3001M by Direct Method	200 °C to 1700 °C	1.6 °C
4	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) RTD (PT-100)	Using Universal Calibrator (Masibus 3001M by Direct Method	(-)200 °C to 850 °C	0.60°C



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5	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) S-Type Thermocouple	Using Universal Calibrator (Masibus 3001M by Direct Method	200 °C to 1700 °C	1.6 °C
6	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Stop Watch / Timer/ Hour Meter (Mechanical / Digital)	Using Digital Time Interval Meter by Comparison Method	1 s to 60 s	0.1 s to 0.1 s
7	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Stop Watch / Timer/ Hour Meter (Mechanical / Digital)	Using Digital Time Interval Meter by Comparison Method	3600 s to 9990 s	3.5 s to 7.2 s
8	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Stop Watch / Timer/ Hour Meter (Mechanical / Digital)	Using Digital Time Interval Meter by Comparison Method	60 s to 3600 s	0.1 s to 3.5 s
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Coaxiality)	Using Cylindrical Mandrel & lever dial gauge	Upto to 500 mm	7µm



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10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector (Angularity), L.C. 0.001 mm	Using Angle Gauge Set	Up to 360 °	1min.
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector (Magnification), L.C. 0.001 mm	Using Gauge blocks, Digital Caliper & Angle Gauge set.	Upto 50X	1.8%
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector (Linear), L.C. 0.001 mm	Using Gauge Blocks Set.	Up to 200 mm	4.8µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic Level	Upto 3X3 m	0.8vL+W/125 µm where L& W are in mm
14	MECHANICAL-PRESSURE INDICATING DEVICES	Differential Gauge, Magnehalic Gauge, Pressure Gauge, Manometer	Using Digital Manometer by Comparison Method as per DKD-R6-1	0 mmWc to 200 mmWc	0.617 Bar



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15	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transmitter (Digital / Analog)	Using Digital Pressure Gauge by Comparison Method as per DKD-R6-1:	0 Bar to 30 Bar	0.291 Bar (29.1 kPa)
16	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transmitter (Digital / Analog)	Using Digital Pressure Gauge by Comparison Method as per DKD-R6-1	0 Bar to 700 Bar	0.60 bar (60.0 kPa)
17	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Digital / Analog)	Using Digital Pressure Gauge by Comparison Method as per DKD-R6-1	(-)0.9 Bar to 0 Bar	0.003 Bar
18	THERMAL-TEMPERATURE	Calibration of Cold Chambers/Oven/ Climatic Chamber/ Auto Clave/ Deep Freezer/ Liquid Bath/ Cold Room	Using Data Logger with RTD Sensors(minimum nine) (Multi Position Calibration)	-40 °C to 250°C	2.3 °C
19	THERMAL-TEMPERATURE	Calibration of Industrial Furnaces, Ovens , Muffle Furnace	Using Data logger with N Type Thermocouples (minimum nine) (Multi Position Calibration)	250 °C to 1200 °C	7.7 °C
20	THERMAL-TEMPERATURE	Liquid-in-Glass Thermometer	Using RTD with Indicator, Silicon Oil Bath (Comparison method)	50 °C to 250 °C	0.63 °C



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Last Amended on

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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)(±)
21	THERMAL-TEMPERATURE	RTD s , Thermocouples with or without Controller, Indicator, Dial Temperature Gauge, Digital Thermometer, Temperature Transmitter etc.	Using RTD with Indicator, 6.5 DMM, Silicon Oil Bath (Comparison Method)	50 °C to 250 °C	0.3 °C
22	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Dry Block Furnace, Muffle Furnace	Using R type TC with indicator (Single Position Calibration)	500 °C to 1500 °C	4.4 °C
23	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Dry Block Furnace/ Muffle Furnace	Using R type TC with indicator (Single Position Calibration)	250 °C to 500 °C	1.8 °C
24	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Liquid Bath, Dry Block Furnaces, Frezzer, Incubator, Environmental Chamber, Cold Room, Hot Room, Autoclave.	Using RTD with Temperature Indicator, (Single Position Calibration)	(-30) °C to 250 °C	0.3 °C



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25	THERMAL-TEMPERATURE	Thermocouples with or without Controller, Indicator, Digital Thermometer	Using R Type TC with Indicator, 6.5DMM, Dry Block Furnace (Comparison Method)	250 °C to 500 °C	1.8 °C
26	THERMAL-TEMPERATURE	Thermocouples with or without Controller, Indicator, Digital Thermometer	Using R Type TC with Indicator, 6.5 DMM, Dry Block Furnace (Comparison Method)	500 °C to 1200 °C	3.2 °C

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