



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ARCHERCHEM CALIBRATIONS PVT.LTD., 212, LINKWAY ESTATE, NEW LINK ROAD, MALAD(W), MUMBAI, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2301 Page No. : 1 / 52

Validity 14/08/2019 to 13/08/2021 Last Amended on -

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
Permanent Facility					
1	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current	50Hz to 1 kHz, 100 mA to 1 A	0.16% to 0.09%	Using Multifunction Reference Multimeter, Fluke-8846A By Direct Method.
2	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current	50Hz to 1kHz, 1 A to 10 A	0.09% to 0.20%	Using Multifunction Reference Multimeter, Fluke-8846A By Direct Method.
3	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current	50Hz to 1kHz, 30 µA to 100 mA	0.30% to 0.16%	Using Multifunction Reference Multimeter, Fluke-8846A By Direct Method.
4	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage	50Hz to 1 kHz, 1 kV to 27 kV	1.85%	Using Multifunction Fluke 80K-40 HV Probe with DMM 87 V
5	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage	50Hz to 1 kHz, 100 mV to 100 V	0.12% to 0.10%	Using Multifunction Reference Multimeter Fluke-8846 A By Direct Method.
6	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage	50Hz to 1 kHz, 100 V to 1000 V	0.10% to 0.11%	Using Multifunction Reference Multimeter Fluke-8846 A By Direct Method.



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7	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage	50Hz to 1 kHz, 10 to 100	0.54 to 0.12	Using Multifunction Reference Multimeter Fluke-8846 A By Direct Method.
8	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage	50Hz to 1KHz, 1 mV to 10 mV	4.80% to 0.54%	Using Multifunction Reference Multimeter Fluke-8846 A By Direct Method.
9	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current	50Hz to 1kHz, 30 μ A to 100 μ A	0.61% to 0.27%	Using Multifunction Calibrator ,Fluke - 5502A By Direct Method.
10	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Power(1 Phase)@UPF	50Hz to 1kHz, 30 V to 440V, 1 mA to 20A, 30 mW to 8.8 kW	1.76%	Using Multifunction Multiproduct Calibrator ,Fluke-5502 A +50 Turn By Direct Method.
11	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage	50Hz to 1kHz, 1 mV to 10 mV	2.58% to 0.36%	Using Multifunction Calibrator, Fluke-5502 A By Direct Method.
12	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage	50Hz to 1kHz, 10 mV to 100 mV	0.36% to 0.06%	Using Multifunction Calibrator, Fluke - 5502A By Direct Method.



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13	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage	50Hz to 1kHz, 10 V to 1000 V	0.043% to 0.061%	Using Multifunction Calibrator, Fluke - 5502A By Direct Method.
14	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage	50Hz to 1kHz, 10 V to 1000 V	0.043% to 0.061%	Using Multifunction Calibrator ,Fluke - 5502A By Direct Method.
15	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage	50Hz to 1kHz, 100 mV to 10 V	0.06% to 0.043%	Using Multifunction Calibrator ,Fluke - 5502A By Direct Method.
16	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Power Factor	50Hz, 0.1 pF Lead-UPF to 0.1 pF Lag	0.011pF	Using Multifunction MultiProduct Calibrator,Fluke-5502A By Direct Method
17	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Capacitance	1 nF to 10 nF	5.2% to 1.75%	Using Multifunction Reference Multimeter,Fluke-8846A By Direct Method.
18	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Capacitance	10 nF to 10 mF	1.75% to 2.21%	Using Multifunction Reference Multimeter,Fluke-8846A By Direct Method.



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19	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	1 A to 10 A	0.083% to 0.19%	Using Multifunction Reference Multimeter, Fluke -8846 A By Direct Method.
20	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	10 µA to 10 mA	0.36% to 0.081%	Using Multifunction Reference Multimeter, Fluke-8846 A By Direct Method.
21	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	10 mA to 100 mA	0.081% to 0.064%	Using Multifunction Reference Multimeter, Fluke-8846 A By Direct Method
22	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	100 mA to 1 A	0.064% to 0.083%	Using Multifunction Reference Multimeter, Fluke-8846 A by Direct Method.
23	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	1 kV to 40 kV	1.84%	Using Multifunction Fluke 80K-40 HV Probe with DMM 87 V
24	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	10 mV to 100 mV	0.45% to 0.009%	using Multifunction Reference Multimeter Fluke -8846A By Diect Method
25	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	10 V to 100 V	0.004% to 0.0055%	using Multifunction Reference Multimeter Fluke -8846A By Diect Method
26	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	100 mV to 10 V	0.009% to 0.004%	using Multifunction Reference Multimeter Fluke -8846A By Diect Method



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27	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	100 V to 1000 V	0.0055% to 0.0062%	using Multifunction Reference Multimeter Fluke -8846A By Direct Method
28	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Resistance	1 ohm to 10 ohm	0.36% to 0.046%	Using Multifunction Reference Multimeter Fluke-8846A By Direct Method
29	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Resistance	1 M ohm to 10 M ohm	0.013% to 0.057%	Using Multifunction Reference Multimeter Fluke-8846A By Direct Method
30	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Resistance	10 ohm to 100 ohm	0.046% to 0.016%	Using Multifunction Reference Multimeter Fluke-8846A By Direct Method
31	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Resistance	100 ohm to 1 M ohm	0.016% to 0.013%	Using Multifunction Reference Multimeter Fluke-8846A By Direct Method
32	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Capacitance	1kHz, 1 nF to 10 µF	1.8% to 0.44%	Using Multifunction MultiProduct Calibrator, Fluke-5502A By Direct Method
33	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	1 A to 10 A	0.050% to 0.075%	Using Multifunction Calibrator Fluke-5502A By Direct Method
34	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	1 mA to 100 mA	0.02% to 0.017%	Using Multifunction Calibrator -Fluke-5502A By Direct Method.



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35	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	10 µA to 100 µA	0.26% to 0.041%	Using Multifunction Calibrator, Fluke-5502A By Direct Method
36	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	10 A to 20 A	0.075% to 0.286%	Using Multifunction Calibrator Fluke-5502A By Direct Method.
37	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	100 µA to 1 mA	0.041% to 0.02%	Using Multifunction Calibrator ,Fluke - 5502A By Direct Method
38	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	100 mA to 1 A	0.017% to 0.050%	Using Multifunction Calibrator, Fluke-5502A By Direct Method.
39	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	20 A to 1000 A	0.91% to 0.71%	Using MFC 5502A +50 Turn Current Coil
40	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	1 M ohm to 10 M ohm	0.018% to 0.070%	Using Multifunction Calibrator ,Fluke - 5502A By Direct Method.
41	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	1 ohm to 10 ohm	0.74% to 0.082%	Using Multifunction Calibrator ,Fluke - 5502A By Direct Method.
42	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	10 M ohm to 100 M ohm	0.070% to 0.58%	Using Multifunction Calibrator ,Fluke - 5502A By Direct Method.
43	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	10 ohm to 100 k ohm	0.082% to 0.014%	Using Multi function Calibrator, Fluke - 5502A By Direct Method



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44	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	100 k ohm to 1 M ohm	0.014% to 0.0184%	Using Multifunction Calibrator ,Fluke - 5502A By Direct Method.
45	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	100 M ohm to 1 G ohm	0.58% to 1.75%	Using Multifunction Calibrator ,Fluke - 5502A By Direct Method.
46	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	1 mV to 10 mV	0.36% to 0.043%	using Multifunction calibrator, Fluke-5502A By Direct Method
47	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	1 V to 100 V	0.064% to 0.0072%	using Multifunction calibrator, Fluke-5502A By Direct Method
48	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	10 mV to 100 mV	0.043% to 0.011%	using Multifunction calibrator, Fluke-5502A By Direct Method
49	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	100 mV to 1 V	0.011% to 0.064%	using Multifunction calibrator, Fluke-5502A By Direct Method
50	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	100 V to 1000 V	0.0072% to 0.0070%	using Multifunction calibrator, Fluke-5502A By Direct Method
51	ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Source)	B -Type	600 °C to 1800 °C	0.66°C to 0.40°C	Using Multiproduct Calibrator ,Fluke- 5520A, Using ITS-90 Scale for ? & mV Method.



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52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E -Type	(-)-200 °C to 1000 °C	0.65°C to 0.13°C	Using Multiproduct Calibrator ,Fluke - 5520A,Using ITS -90 Scale for ? & mV Method
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J -Type	(-)-200 °C to 1200 °C	0.32°C to 0.16°C	Using Multiproduct Calibrator Fluke - 5520A Using ITS-90 Scale for ? & mV Method.
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K -Type	(-)-200 °C to 1370 °C	0.89°C to 0.89°C	Using Multiproduct Calibrator Fluke - 5520A Using ITS-90 Scale for ? & mV Method.
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N -Type	(-)-200 °C to 1300 °C	0.47°C to 0.20°C	Using Multiproduct Calibrator ,Fluke -5520 A ,Using ITS-90 Scale for ? & mV Method
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R -Type	0 °C to 1768 °C	1.28°C to 0.44°C	Using Multiproduct Calibrator ,Fluke - 5520A,Using ITS-90 scale for ? & mV Method.
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S -Type	0 °C to 1768 °C	0.96°C to 0.44°C	Using Multiproduct Calibrator ,Fluke - 5520A,Using ITS-90 scale for ? & mV Method.
58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T -Type	(-)-200 °C to 400 °C	0.74°C to 0.10°C	Using Multiproduct Calibrator ,Fluke -5520 A ,Using ITS-90 Scale for ? & mV Method



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59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation Method (Indicator Controller / Recorder) Input RTD (PT-100)	Input RTD (Pt 100). (-)200°C to 800 °C	0.34°C to 0.27°C	Using Multiproduct calibrator, Fluke 5520A Using ITS-90 Scale for ? &mV Method.
60	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency /Period	10 Hz to 1 MHz	0.058% to 0.012%	Using Multifunction Reference Multimeter, Fluke 8846A By Direct Method.
61	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	1 hr to 5 hr	6.65s to 24.62s	Using Time Interval Meter by Direct Method
62	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	1 s to 60 s	0.14s to 0.16s	Using Time Interval Meter by Direct Method
63	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	200 ms to 1 s	0.07s to 0.14s	Using Time Interval Meter by Direct Method
64	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	5 hr to 27 hr	24.62s to 26s	Using Time Interval Meter by Direct Method
65	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	60 s to 1 hr	0.16s to 6.65s	Using Time Interval Meter by Direct Method



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66	ELECTRO-TECHNICAL- TIME & FREQUENCY (Source)	Frequency /Period	10 Hz to 1 MHz	0.062% to 0.0021%	Using Multifunction MultiProduct Calibrator, Fluke 5502A By Direct Method.
67	MECHANICAL- ACCELERATION AND SPEED	RPM Indicator	10 rpm to 20000 rpm	2.0rpm	Using Digital Tachometer By Comparison Method
68	MECHANICAL- ACCELERATION AND SPEED	Tachometer (contact Mode)	10 rpm to 1000 rpm	1.1rpm	Using Digital Tachometer & Tachometer Calibrator By Comparison Method
69	MECHANICAL- ACCELERATION AND SPEED	Tachometer (contact Mode)	1000 rpm to 5000 rpm	2.0rpm	Using Digital Tachometer & Tachometer Calibrator
70	MECHANICAL- ACCELERATION AND SPEED	Tachometer (Noncontact Type)	10 rpm to 100 rpm	0.6rpm	Using Digital Tachometer & Tachometer Calibrator By Comparison Method
71	MECHANICAL- ACCELERATION AND SPEED	Tachometer (Noncontact Type)	100 rpm to 10000 rpm	1.1rpm	Using Digital Tachometer & Tachometer Calibrator By Comparison Method
72	MECHANICAL- ACCELERATION AND SPEED	Tachometer (Noncontact Type)	10000 rpm to 90000 rpm	15.0rpm	Using Digital Tachometer & Tachometer Calibrator By Comparison Method
73	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor / Combination set/Angle Protractor L.C. 1 Min	0 ° to 360 °	5min	Using Angle Gauge Set



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74	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge(Transmission Movement Only)L.C 0.001 mm	0 mm to 1 mm	1 μ m	Using Length Measuring Machine By Comparison Method.
75	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	caliper (vernier/Dial/Digital)L.C 0.01mm	to Upto 600 mm	13 μ m	using caliper checker/Long Gauge Blocks By Comparison Method as per IS 3651.
76	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	caliper (vernier/Dial/Digital)L.C 0.01mm	up to 1000 mm	18 μ m	using Caliper Checker /Long Gauge Blocks By Comparison Method as per IS 3651
77	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness GaugeL.C. 0.001mm	Up to 1 mm	11 μ m	Using Standard Plastics Foils By Comparison Method
78	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pins	0.1 mm to 20 mm	1.0 μ m	Using Length Measuring Machine By comparison Method As per IS 11103
79	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper(Vernier/Dial/Dig ital)L.C 0.01mm	up to 300 mm	9 μ m	Using Gauge Block set,Long Gauge Block, & Surface Plate By Comparison Method as per IS 4213



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80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer(Traverse)L.C 0.01 mm	up to 150 mm	6 μ m	Using Gauge Block Set, Long Gauge Block Set & Surface Plate By Comparison Method as per JIS B 7544
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge(Lever Type)L.C 0.001mm	0 mm to 0.14 mm	1 μ m	Using Length Measuring Machine By Comparison Method as per IS 11498
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge(Lever Type)L.C 0.01 mm	0 mm to 1 mm	6 μ m	Using Length Measuring Machine By Comparison Method as per IS 11498
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge(Plunger Type)L.C 0.001mm	0 mm to 25 mm	1 μ m	Using Length Measuring Machine By Comparison Method as per IS 2092
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness GaugeL.C 0.001 mm	0 mm to 50 mm	1 μ m	Using Slip Gauge Set By Comparison Method.
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External MicrometerL.C 0.001 mm	25 mm to 300 mm	3 μ m	Using Gauge Block Set, Long Gauge Block By Comparison Method as per IS 2967



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86	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C 0.001 mm	up to 25 mm	1µm	Using Gauge Block Set, Long Gauge Block By Comparison Method as per IS 2967
87	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C 0.01 mm	300 mm to 500 mm	10µm	Using Gauge Block Set, Long Gauge Block By Comparison Method as per IS 2967
88	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	0.03 mm to 1 mm	1µm	Using Length Measuring Machine By Comparison Method
89	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Dig ital) L.C. 0.01 mm	up to 600 mm	13µm	Using Caliper Checker, Surface Plate By Comparison Method as per IS 2921
90	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (Stick Type) L.C 0.01 mm	Head Travel up to 50 mm	6µm	Using LMM, Long Gauge Block, Comparator Dial By Comparison Method as per IS 2966
91	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (Stick Type) L.C 0.01 mm	Overall length up to 1000 mm	11µm	Using LMM, Long Gauge Block, Comparator Dial By Comparison Method as per IS 2966



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(\pm)	Remarks
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring ScaleL.C. 1 mm	up to 1000 mm	290vL μ m (L in mtr)	Using Tape & Scale Measuring Machine By Comparison Method based on IS 1481
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring TapeL.C. 1 mm	up to 50000 mm	290 v L (L in mtr) μ m	Using Tape & Scale Measuring Machine By Comparison Method based on IS 1269
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	100 mm to 300 mm	4.9 μ m	Using Length Measuring Machine,Gauge Block Set,Comparator Dial By Comparison Method.
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	25 mm to 100 mm	2 μ m	Using Length Measuring Machine,Gauge Block Set ,Comparator Dial By Comparison Method.
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	300 mm to 475 mm	5 μ m	Using Length Measuring Machine ,Gauge Block Set, Comparator Dial By Comparison Method.
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol CaliperL.C 0.1 mm	0 mm to 50 mm	70 μ m	Using Slip Gauge Set By Comparison Method



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(\pm)	Remarks
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / OD Gauge	100 mm to 300 mm	4.9 μ m	Using Length Measuring Machine By Comparison Method as per IS 3455
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / OD Gauge	3 mm to 100 mm	2.0 μ m	Using Length Measuring Machine By Comparison Method as per IS 3455
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	100 mm to 300 mm	4.4 μ m	Using Length Measuring Machine By Comparison Method as per IS 3485
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	3 mm to 100 mm	2.0 μ m	Using Length Measuring Machine By Comparison Method as per IS 3485
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Gap Gauge	3 mm to 50 mm	1.2 μ m	Using Length Measuring Machine By Comparison Method as per IS 3477
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Gap Gauge	50 mm to 300 mm	4.0 μ m	Using Length Measuring Machine By Comparison Method as per IS 3477



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge	0.01 mm to 5 mm	1µm	Using Length Measuring Machine By Comparison Method.
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective Diameter)	3 mm to 100 mm	1.3µm	Using Length Measuring Machine Setting Disc, Standard Wires By Comparison Method as per IS 2334, IS 4218, IS 14962
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective Diameter)	100 mm to 300 mm	5.0µm	Using Length Measuring Machine Setting Disc, Standard Wires By Comparison Method as per IS 2334, IS 4218, IS 14962
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Diameter)	100 mm to 200 mm	3.0µm	Using Length Measuring Machine ,Master Setting Ring By Comparison Method as per IS 2334, IS 4218, IS 14962
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Diameter)	200 mm to 300 mm	4.4µm	Using Length Measuring Machine ,Master Setting Ring By Comparison Method as per IS 2334, IS 4218, IS 14962



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Diameter)	3 mm to 100 mm	2.0µm	Using Length Measuring Machine ,Master Setting Ring By Comparison Method as PER is 2334,IS 4218,IS 14962
110	MECHANICAL-PRESSURE INDICATING DEVICES	Digital Pressure Indicator ,Manometer Magnahelic Gauge ,Low Pressure Gauge ,Pressure Transmitter,Pressure Switches Differential Pressure Gauges /Indicators	0 to 20 mbar	0.008mbar	Using Digital Pressure indicator, Calibrator Make: Polltech Instrument & Test pump by Comparison method DKD-R6-01
111	MECHANICAL-PRESSURE INDICATING DEVICES	Digital Pressure Indicator ,Manometer Magnahelic Gauge ,Low Pressure Gauge ,Pressure Transmitter,Pressure Switches Differential Pressure Gauges /Indicators	0 to 200 mbar	0.07mbar	Using Digital Pressure indicator, Calibrator Make: Polltech Instrument & Test pump by Comparison method DKD-R6-01
112	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Hydraulic Digital/Analog Pressure Gauges,Pressure Indicators,Pressure Transmitter,Pressure Switches,	1 bar to 350 bar	0.07bar	Using Digital Pressure Gauge & Pneumatic Test Pump By Comparison Method DKD-R6-01



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113	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Hydraulic Digital/Analog Pressure Gauges, Pressure Indicators, Pressure Transmitter, Pressure Switches,	350 bar to 1000 bar	0.6bar	Using Digital Pressure Gauge & Pneumatic Test Pump By Comparison Method DKD-R6-01
114	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Pneumatic Digital/Analog Pressure Gauges, Vacuum Gauges, Indicators, Pressure Transmitter, Pressure Switch, Differential Pressure Gauge/Indicators	0 bar to 10 bar	0.006bar	Using Digital Pressure Gauge & Pneumatic Test Pump By Comparison Method DKD-R6-01
115	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Pneumatic Digital/Analog Pressure Gauges, Vacuum Gauges, Indicators, Pressure Transmitter, Pressure Switch, Differential Pressure Gauge/Indicators	0 bar to 2 bar	0.0006bar	Using Digital Pressure Gauge & Pneumatic Test Pump by Comparison Method DKD-R6-01
116	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Pneumatic Digital/Analog Pressure Gauges, Vacuum Gauges, Indicators, Pressure Transmitter, Pressure Switch, Differential Pressure Gauge/Indicators	0 bar to 35 bar	0.007bar	Using Digital Pressure Gauge & Pneumatic Test Pump By Comparison Method DKD-R6-01



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
117	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Pneumatic Digital/Analog Pressure Gauges, Vacuum Gauges, Indicators, Pressure Transmitter, Pressure Switch, Differential Pressure Gauge/Indicators	-0.95 bar to 0 bar	0.0006bar	Using Digital Pressure Gauge & Pneumatic Test Pump By comparison method DKD-R6-01
118	MECHANICAL-VOLUME	Glassware like pipettes, burettes, measuring cylinder, volumetric flask etc.	>10 ml to 50 ml@27°C	0.03ml	Using Weighing balance of 220g capacity and 0.01mg readability and distilled water by Gravimetric method based on IS/ISO4787
119	MECHANICAL-VOLUME	Glassware like pipettes, burettes, measuring cylinder, volumetric flask etc.	>50 ml to 100 ml@27°C	0.005ml	Using Weighing balance of cap. 82 g /220g, readability d=0.01mg/ 0.1mg and distilled water by Gravimetric method based on IS/ISO 4787
120	MECHANICAL-VOLUME	Glassware like pipettes, burettes, measuring cylinder, volumetric flask etc.	1 ml to 10 ml@27°C	0.002ml	Using Weighing balance of cap. 82 g /220g, readability d=0.01mg/ 0.1mg and distilled water by Gravimetric method based on IS/ISO 4787



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121	MECHANICAL-VOLUME	Glassware like pipettes ,burettes,measuring cylinder,volumetric flask etc.	100 ml to 500 ml@27°C	0.24ml	Using Weighing balance of 1 kg capacity and 1 mg readability and distilled water by Gravimetric method based on IS/ISO 4787
122	MECHANICAL-VOLUME	Micro-pipette	>100 µl to 10 ml @27°C	0.06µl	Using Weighing balance of cap. 82 g /220g, readability d=0.01mg/ 0.1mg and Weighing balance of Cap. 5.1 g, d= 0.001 mg and distilled water by Gravimetric method based on ISO 8655 parts 6
123	MECHANICAL-VOLUME	Micro-pipette	1 µl to 100 µl @27°C	0.006µl	Using Weighing balance of 5g Capacity and 0.001mg readability and 82 g capacity and 0.01mg readability and distilled water by Gravimetric method based on ISO 8655 parts 6
124	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass - Electronic Weighing Balance with Readability d=0.1µg & Cap. 2.1 g	0 g to 2.1 g	0.003 mg	Using E1 Class Weights Calibration of Electronic weighing balance of class I & Coarser as per OIML R-76-1



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
125	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass-Electronic, Weighing Balances with Readability d= 0.001 mg	0 g to 100 g	0.03mg	Using E1 Class Weights Calibration of Electronic weighing balance and Comparator of class 1 & Coarser as per OIML R-76-1
126	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass-Electronic, Weighing Balances with Readability d= 0.001 mg	0 to 20 g	0.01mg	Using E1 Class Weights Calibration of Electronic weighing balance and Comparator of class 1 & Coarser as per OIML R-76-1
127	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass-Electronic, Weighing Balances with Readability d= 0.001 mg	0 to 5 g	0.005mg	Using E1 Class Weights Calibration of Electronic weighing balance and Comparator of class 1 & Coarser as per OIML R-76-1
128	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass-Electronic, Weighing Balances with Readability d= 0.01 mg	0 g to 1000 g	0.3mg	Using E1 Class Weights Calibration of Electronic weighing balance and Comparator of class 1 & Coarser as per OIML R-76-1



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
129	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass-Electronic, Weighing Balances with Readability d= 0.01 mg	0 to 200 g	0.03mg	Using E1 Class Weights Calibration of Electronic weighing balance and Comparator of class 1 & Coarser as per OIML R-76-1
130	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass-Electronic, Weighing Balances with Readability d= 0.1 mg	0 to 5000 g	0.7mg	Using E1 Class Weights Calibration of Electronic weighing balance and Comparator of class 1 & Coarser as per OIML R-76-1
131	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass-Electronic, Weighing Balances with Readability d= 10 mg	0 to 25 kg	20mg	Using E2 Class Weights Calibration of Electronic weighing balance and Comparator of class II & Coarser as per OIML R-76-1
132	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass-Electronic, Weighing Balances with Readability d= 100 mg	0 to 25 kg	200mg	Using E2 Class Weights Calibration of Electronic weighing balance and Comparator of class II & Coarser as per OIML R-76-1
133	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass-Electronic, Weighing Balances with Readability d= 1g	0 to 100 kg	6g	Using F1 Class Weight Calibration of electronic weighing balance of class III & Coarser as per OIML R-76-1



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(\pm)	Remarks
134	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass- Electronic, Weighing Balances with Readability d= 50g	0 to 400 kg	54g	Using F1 Class Weights Calibration of Electronic weighing balance of class III & Coarser as per OIML R-76-1
135	MECHANICAL-WEIGHTS	Mass - Weights(E2 Accuracy class & coarser)	1 g	0.004mg	Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.001 mg & Cap. 5.1 g as per OIML R111-1 : 2004
136	MECHANICAL-WEIGHTS	Mass - Weights(E2 Accuracy class & coarser)	1 kg	0.21mg	Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.01 mg & Cap. 1.02 kg as per OIML R111-1 : 2004
137	MECHANICAL-WEIGHTS	Mass - Weights(E2 Accuracy Class & Coarser)	1 mg	0.002mg	Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.001 mg & Cap. 5.1 g as per OIML R111-1 : 2004



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(\pm)	Remarks
138	MECHANICAL-WEIGHTS	Mass - Weights(E2 Accuracy class & coarser)	10 g	0.02mg	Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.01 mg & Cap. 1.02 kg as per OIML R111-1 : 2004
139	MECHANICAL-WEIGHTS	Mass - Weights(E2 Accuracy class & coarser)	10 mg	0.002mg	Using E1 Class Weights and Mass Comparator of readability 0.001mg- Calibration of Weights class E2 Accuracy & Coarser as per OIML R-111
140	MECHANICAL-WEIGHTS	Mass - Weights(E2 Accuracy class & coarser)	100 g	0.03mg	Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.01 mg & Cap. 1.02 kg as per OIML R111-1 : 2004
141	MECHANICAL-WEIGHTS	Mass - Weights(E2 Accuracy class & coarser)	100 mg	0.002mg	Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.001 mg & Cap. 5.1 g as per OIML R111-1 : 2004



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(\pm)	Remarks
142	MECHANICAL-WEIGHTS	Mass - Weights(E2 Accuracy class & coarser)	2 g	0.004mg	Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.001 mg & Cap. 5.1 g as per OIML R111-1 : 2004
143	MECHANICAL-WEIGHTS	Mass - Weights(E2 Accuracy class & coarser)	2 kg	0.5mg	Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.1 mg & Cap. 5.05 kg as per OIML R111-1 : 2004
144	MECHANICAL-WEIGHTS	Mass - Weights(E2 Accuracy Class & coarser)	2 mg	0.002mg	Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.001 mg & Cap. 5.1 g as per OIML R111-1 : 2004
145	MECHANICAL-WEIGHTS	Mass - Weights(E2 Accuracy class & coarser)	20 g	0.02mg	Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.01 mg & Cap. 1.02 kg as per OIML R111-1 : 2004



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146	MECHANICAL-WEIGHTS	Mass - Weights(E2 Accuracy class & coarser)	20 mg	0.002mg	Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.001 mg & Cap. 5.1 g as per OIML R111-1 : 2004
147	MECHANICAL-WEIGHTS	Mass - Weights(E2 Accuracy class & coarser)	200 g	0.05mg	Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.01 mg & Cap. 1.02 kg as per OIML R111-1 : 2004
148	MECHANICAL-WEIGHTS	Mass - Weights(E2 Accuracy class & coarser)	200 mg	0.002mg	Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.001 mg & Cap. 5.1 g as per OIML R111-1 : 2004
149	MECHANICAL-WEIGHTS	Mass - Weights(E2 Accuracy class & coarser)	5 g	0.005mg	Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.001 mg & Cap. 5.1 g as per OIML R111-1 : 2004



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150	MECHANICAL- WEIGHTS	Mass - Weights(E2 Accuracy class & coarser)	5 kg	0.7mg	Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.1 mg & Cap. 5.05 kg as per OIML R111-1 : 2004
151	MECHANICAL- WEIGHTS	Mass - Weights(E2 Accuracy class & coarser)	5 mg	0.002mg	Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.001 mg & Cap. 5.1 g as per OIML R111-1 : 2004
152	MECHANICAL- WEIGHTS	Mass - Weights(E2 Accuracy class & coarser)	50 g	0.02mg	Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.01 mg & Cap. 1.02 kg as per OIML R111-1 : 2004
153	MECHANICAL- WEIGHTS	Mass - Weights(E2 Accuracy class & coarser)	50 mg	0.002mg	Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.001 mg & Cap. 5.1 g as per OIML R111-1 : 2004



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154	MECHANICAL-WEIGHTS	Mass - Weights(E2 Accuracy class & coarser)	500 g	0.1mg	Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.01 mg & Cap. 1.02 kg as per OIML R111-1 : 2004
155	MECHANICAL-WEIGHTS	Mass - Weights(E2 Accuracy class & coarser)	500 mg	0.004mg	Using E1 Accuracy Class reference Weights and Mass Comparator of readability 0.001 mg & Cap. 5.1 g as per OIML R111-1 : 2004
156	MECHANICAL-WEIGHTS	Mass - Weights(F1 Accuracy class & coarser)	10 kg	10mg	Using E2 Accuracy Class reference Weights and Mass Comparator of readability 0.01 g & Cap. 25.5 kg as per OIML R111-1 : 2004
157	MECHANICAL-WEIGHTS	Mass - Weights(F1 Accuracy class & coarser)	20 kg	12mg	Using E2 Accuracy Class reference Weights and Mass Comparator of readability 0.01 g & Cap. 25.5 kg as per OIML R111-1 : 2004
158	THERMAL- SPECIFIC HEAT & HUMIDITY	/Environmental chamber, Control Storage Room ,Cold Room etc.(Multi position calibration)	10 °C to 50 °C	2.30°C	Using Wireless Data Logger at multiposition calibration by spatial mapping comparison method



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159	THERMAL- SPECIFIC HEAT & HUMIDITY	Humidity Calibrator /Generator/Environmental chamber, Control Storage Room (Multi position calibration)	10 % to 95 % @ 25°C	4%RH	Using Wireless Data Logger at multiposition calibration by spatial mapping comparison method
160	THERMAL- SPECIFIC HEAT & HUMIDITY	Humidity Calibrator /Generator/Environmental chamber, Control Storage Room (Multi position calibration)	10 %RH to 95 %RH@25°C	3.9%RH	Using multipoint Data logger Yokogawa Mdel:GP 10 and Rotronic Make RH & Temperature Probe sensors & at multiposition calibration by spatial mapping comparison method
161	THERMAL- SPECIFIC HEAT & HUMIDITY	Indicator of Humidity calibrator /Generator/Environmental Chamber (Single point calibration)	10 %RH to 90 %RH@25°C	0.75%RH	Rotronic RH & Temp Prob with Indicator by comparison method (single point calibration)
162	THERMAL- SPECIFIC HEAT & HUMIDITY	Relative Humidity Sensors with Indicator ,Hygrometer /Humidity Data Logger Humidity Transmitter with sensor	10 %RH to 90 %RH@25°C	0.78%RH	Using MICHELL RH Generator & Rotronic RH & Temp Probe with Indicator By Comparison Method
163	THERMAL- SPECIFIC HEAT & HUMIDITY	Relative Humidity Sensors with Indicator ,Hygrometer /Humidity Data Logger Humidity Transmitter with sensor	10 °C to 50 °C@50%RH	0.46°C	Using MICHELL RH Generator & Rotronic RH & Temp Prob with Indicator By comparison Method



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Laboratory Name ARCHERCHEM CALIBRATIONS PVT.LTD., 212, LINKWAY ESTATE, NEW LINK ROAD, MALAD(W), MUMBAI, MAHARASHTRA, INDIA

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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(\pm)	Remarks
164	THERMAL-TEMPERATURE	Environmental Chamber ,Temperature Furnace, Autoclave etc.(Using Sensors at Multi Positions)	(-)80 °C to 400 °C	1.5°C	Using Multipoint Data Logger Yokogawa,Model:GP 10 and 3 wire RTD (PT-100) SENSORS & at multiposition calibration
165	THERMAL-TEMPERATURE	Glass Thermometer	(-)80 °C to 0 °C	0.6°C	Using SPRT with Model:935-14-95L & 934-14-95H WITH Millik Precision Thermometer Temperature Source:Stirred Liquid Bath ,Model:Hydra 798 L By Comparison Method
166	THERMAL-TEMPERATURE	Glass Thermometer	0 °C to 300 °C	0.6°C	Using SPRT with Model:935-14-95L & 934-14-95H with Millik Precision Thermometer Temperature Source: Stirred Liquid Bath Model:Hydra 798 By Comparison Method
167	THERMAL-TEMPERATURE	Indicator of Deep Freezers,oven,chambers,Incubator,BOD Incubators,Water Bath, Liquid Bath,Oil Bath,Dry Block Calibrators Furnace	(-80) °C to 300 °C	0.06°C	Using SPRT with Model:935-14-95L & 34-14-95H with Millik Precision Thermometer By comparison Method (Single Point Calibration)



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168	THERMAL-TEMPERATURE	Indicator of Deep Freezers, oven, chambers, Incubator, BOD Incubators, Water Bath, Liquid Bath, Oil Bath, Dry Block Calibrators Furnace	300 °C to 600 °C	0.2°C	Using SPRT with Model:935-14-95L & 934-14-95 H with Millik Precision Thermometer By Comparison Method (Single Point Calibration)
169	THERMAL-TEMPERATURE	RTD/PRT/ Thermocouple Sensor with or without Indicator, Temperature Transmitter with Sensor, Recorder with Sensor	(-)80 °C to 0 °C	0.02°C	Using SPRT with Model:935-14-95L & 934-14-95H With Millik Precision Thermometer Temperature Source: Stirred Liquid Bath Model: Hydra 798 L By Comparison Method
170	THERMAL-TEMPERATURE	RTD/PRT/ Thermocouple Sensor with or without Indicator, Temperature Transmitter with Sensor, Recorder with Sensor	0 °C to 300 °C	0.02°C	Using SPRT with Model:935-14-95L & 934-14-95H With Millik Precision Thermometer Temperature Source: Stirred Liquid Bath Model: Hydra 798 L By Comparison Method



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
171	THERMAL-TEMPERATURE	RTD/PRT/ Thermocouple Sensor with or without Indicator , Temperature Transmitter with Sensor , Recorder with Sensor	300 °C to 600 °C	0.2°C	Using SPRT with Model 934-14-95H with Millik Precision Thermometer Temperature Source: Dry block calibrator Model: Pegasus 4853 By Comparison Method
172	THERMAL-TEMPERATURE	Temperature Indicator of Muffle Furnace, Dry Block Calibrator (Using single point calibration)	1100 °C to 1200 °C	1.6°C	Using R Type Thermometer with Millik Precision Thermometer By Comparison Method (Single Point Calibration)
173	THERMAL-TEMPERATURE	Temperature Indicator of Muffle Furnace, Dry Block Calibrator (Using single point calibration)	600 °C to 1100 °C	1.2°C	Using R Type Thermometer with Millik Precision Thermometer By Comparison Method (Single Point Calibration)
174	THERMAL-TEMPERATURE	Thermocouple with or without indicator Temperature Transmitter with sensor, Thermistor	1100 °C to 1200 °C	1.5°C	Using R type Thermometer with Millik Precision Thermometer Temperature Source: Dry Block calibrator, Model: Pegasus 4853 By Comparison Method



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(\pm)	Remarks
175	THERMAL-TEMPERATURE	Thermocouple with or without indicator Temperature Transmitter with sensor, Thermistor	600 °C to 1100 °C	1.2°C	Using R Type Thermocouple with Millik Precision Thermometer Temperature Source: Dry Block Calibrator , Model: Pegasus 4853 By Comparison Method



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
Site Facility					
1	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current	50Hz to 1 kHz, 100 mA to 1 A	0.16% to 0.09%	Using Multifunction Reference Multimeter, Fluke-8846A By Direct Method.
2	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current	50Hz to 1kHz, 1 A to 10 A	0.09% to 0.20%	Using Multifunction Reference Multimeter, Fluke-8846A By Direct Method.
3	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Current	50Hz to 1kHz, 30 µA to 100 mA	0.30% to 0.16%	Using Multifunction Reference Multimeter, Fluke-8846A By Direct Method.
4	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage	50Hz to 1 kHz, 1 kV to 27 kV	1.85%	Using Multifunction Fluke 80K-40 HV Probe with DMM 87 V
5	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage	50Hz to 1 kHz, 100 mV to 100 V	0.12% to 0.10%	Using Multifunction Reference Multimeter Fluke-8846 A By Direct Method.
6	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage	50Hz to 1 kHz, 100 V to 1000 V	0.10% to 0.11%	Using Multifunction Reference Multimeter Fluke-8846 A By Direct Method.



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(\pm)	Remarks
7	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage	50Hz to 1 kHz, 10 to 100	0.54 to 0.12	Using Multifunction Reference Multimeter Fluke-8846 A By Direct Method.
8	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure)	AC Voltage	50Hz to 1KHz, 1 mV to 10 mV	4.80% to 0.54%	Using Multifunction Reference Multimeter Fluke-8846 A By Direct Method.
9	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Current	50Hz to 1kHz, 30 μ A to 100 μ A	0.61% to 0.27%	Using Multifunction Calibrator ,Fluke - 5502A By Direct Method.
10	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Power(1 Phase)@UPF	50Hz to 1kHz, 30 V to 440V, 1 mA to 20A, 30 mW to 8.8 kW	1.76%	Using Multifunction Multiproduct Calibrator ,Fluke-5502 A +50 Turn By Direct Method.
11	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage	50Hz to 1kHz, 1 mV to 10 mV	2.58% to 0.36%	Using Multifunction Calibrator, Fluke-5502 A By Direct Method.
12	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage	50Hz to 1kHz, 10 mV to 100 mV	0.36% to 0.06%	Using Multifunction Calibrator, Fluke - 5502A By Direct Method.



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
13	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage	50Hz to 1kHz, 10 V to 1000 V	0.043% to 0.061%	Using Multifunction Calibrator, Fluke - 5502A By Direct Method.
14	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage	50Hz to 1kHz, 10 V to 1000 V	0.043% to 0.061%	Using Multifunction Calibrator ,Fluke - 5502A By Direct Method.
15	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	AC Voltage	50Hz to 1kHz, 100 mV to 10 V	0.06% to 0.043%	Using Multifunction Calibrator ,Fluke - 5502A By Direct Method.
16	ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source)	Power Factor	50Hz, 0.1 pF Lead-UPF to 0.1 pF Lag	0.011pF	Using Multifunction MultiProduct Calibrator,Fluke-5502A By Direct Method
17	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Capacitance	1 nF to 10 nF	5.2% to 1.75%	Using Multifunction Reference Multimeter,Fluke-8846A By Direct Method.
18	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Capacitance	10 nF to 10 mF	1.75% to 2.21%	Using Multifunction Reference Multimeter,Fluke-8846A By Direct Method.



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
19	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	1 A to 10 A	0.083% to 0.19%	Using Multifunction Reference Multimeter, Fluke -8846 A By Direct Method.
20	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	10 µA to 10 mA	0.36% to 0.081%	Using Multifunction Reference Multimeter, Fluke-8846 A By Direct Method.
21	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	10 mA to 100 mA	0.081% to 0.064%	Using Multifunction Reference Multimeter, Fluke-8846 A By Direct Method
22	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	100 mA to 1 A	0.064% to 0.083%	Using Multifunction Reference Multimeter, Fluke-8846 A by Direct Method.
23	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	1 kV to 40 kV	1.84%	Using Multifunction Fluke 80K-40 HV Probe with DMM 87 V
24	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	10 mV to 100 mV	0.45% to 0.009%	using Multifunction Reference Multimeter Fluke -8846A By Diect Method
25	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	10 V to 100 V	0.004% to 0.0055%	using Multifunction Reference Multimeter Fluke -8846A By Diect Method
26	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	100 mV to 10 V	0.009% to 0.004%	using Multifunction Reference Multimeter Fluke -8846A By Diect Method



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
27	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	100 V to 1000 V	0.0055% to 0.0062%	using Multifunction Reference Multimeter Fluke -8846A By Direct Method
28	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Resistance	1 ohm to 10 ohm	0.36% to 0.046%	Using Multifunction Reference Multimeter Fluke-8846A By Direct Method
29	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Resistance	1 M ohm to 10 M ohm	0.013% to 0.057%	Using Multifunction Reference Multimeter Fluke-8846A By Direct Method
30	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Resistance	10 ohm to 100 ohm	0.046% to 0.016%	Using Multifunction Reference Multimeter Fluke-8846A By Direct Method
31	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Resistance	100 ohm to 1 M ohm	0.016% to 0.013%	Using Multifunction Reference Multimeter Fluke-8846A By Direct Method
32	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	Capacitance	1kHz, 1 nF to 10 µF	1.8% to 0.44%	Using Multifunction MultiProduct Calibrator, Fluke-5502A By Direct Method
33	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	1 A to 10 A	0.050% to 0.075%	Using Multifunction Calibrator Fluke-5502A By Direct Method
34	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	1 mA to 100 mA	0.02% to 0.017%	Using Multifunction Calibrator -Fluke-5502A By Direct Method.



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
35	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	10 µA to 100 µA	0.26% to 0.041%	Using Multifunction Calibrator, Fluke-5502A By Direct Method
36	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	10 A to 20 A	0.075% to 0.286%	Using Multifunction Calibrator Fluke-5502A By Direct Method.
37	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	100 µA to 1 mA	0.041% to 0.02%	Using Multifunction Calibrator ,Fluke - 5502A By Direct Method
38	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	100 mA to 1 A	0.017% to 0.050%	Using Multifunction Calibrator, Fluke-5502A By Direct Method.
39	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	20 A to 1000 A	0.91% to 0.71%	Using MFC 5502A +50 Turn Current Coil
40	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	1 M ohm to 10 M ohm	0.018% to 0.070%	Using Multifunction Calibrator ,Fluke - 5502A By Direct Method.
41	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	1 ohm to 10 ohm	0.74% to 0.082%	Using Multifunction Calibrator ,Fluke - 5502A By Direct Method.
42	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	10 M ohm to 100 M ohm	0.070% to 0.58%	Using Multifunction Calibrator ,Fluke - 5502A By Direct Method.
43	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	10 ohm to 100 k ohm	0.082% to 0.014%	Using Multi function Calibrator, Fluke - 5502A By Direct Method



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
44	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	100 k ohm to 1 M ohm	0.014% to 0.0184%	Using Multifunction Calibrator ,Fluke - 5502A By Direct Method.
45	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Resistance	100 M ohm to 1 G ohm	0.58% to 1.75%	Using Multifunction Calibrator ,Fluke - 5502A By Direct Method.
46	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	1 mV to 10 mV	0.36% to 0.043%	using Multifunction calibrator,Fluke-5502A By Direct Method
47	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	1 V to 100 V	0.064% to 0.0072%	using Multifunction calibrator,Fluke-5502A By Direct Method
48	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	10 mV to 100 mV	0.043% to 0.011%	using Multifunction calibrator,Fluke-5502A By Direct Method
49	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	100 mV to 1 V	0.011% to 0.064%	using Multifunction calibrator,Fluke-5502A By Direct Method
50	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	100 V to 1000 V	0.0072% to 0.0070%	using Multifunction calibrator,Fluke-5502A By Direct Method
51	ELECTRO-TECHNICAL- TEMPERATURE SIMULATION (Source)	B -Type	600 °C to 1800 °C	0.66°C to 0.40°C	Using Multiproduct Calibrator ,Fluke- 5520A,Using ITS-90 Scale for ? & mV Method.



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52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E -Type	(-)-200 °C to 1000 °C	0.65°C to 0.13°C	Using Multiproduct Calibrator ,Fluke - 5520A,Using ITS -90 Scale for ? & mV Method
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J -Type	(-)-200 °C to 1200 °C	0.32°C to 0.16°C	Using Multiproduct Calibrator Fluke - 5520A Using ITS-90 Scale for ? & mV Method.
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K -Type	(-)-200 °C to 1370 °C	0.89°C to 0.89°C	Using Multiproduct Calibrator Fluke - 5520A Using ITS-90 Scale for ? & mV Method.
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N -Type	(-)-200 °C to 1300 °C	0.47°C to 0.20°C	Using Multiproduct Calibrator ,Fluke -5520 A ,Using ITS-90 Scale for ? & mV Method
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R -Type	0 °C to 1768 °C	1.28°C to 0.44°C	Using Multiproduct Calibrator ,Fluke - 5520A,Using ITS-90 scale for ? & mV Method.
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S -Type	0 °C to 1768 °C	0.96°C to 0.44°C	Using Multiproduct Calibrator ,Fluke - 5520A,Using ITS-90 scale for ? & mV Method.
58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T -Type	(-)-200 °C to 400 °C	0.74°C to 0.10°C	Using Multiproduct Calibrator ,Fluke -5520 A ,Using ITS-90 Scale for ? & mV Method



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation Method (Indicator Controller / Recorder) Input RTD (PT-100)	Input RTD (Pt 100). (-)200°C to 800 °C	0.34°C to 0.27°C	Using Multiproduct calibrator, Fluke 5520A Using ITS-90 Scale for ? &mV Method.
60	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Frequency /Period	10 Hz to 1 MHz	0.058% to 0.012%	Using Multifunction Reference Multimeter, Fluke 8846A By Direct Method.
61	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	1 hr to 5 hr	6.65s to 24.62s	Using Time Interval Meter by Direct Method
62	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	1 s to 60 s	0.14s to 0.16s	Using Time Interval Meter by Direct Method
63	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	200 ms to 1 s	0.07s to 0.14s	Using Time Interval Meter by Direct Method
64	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	5 hr to 27 hr	24.62s to 26s	Using Time Interval Meter by Direct Method
65	ELECTRO-TECHNICAL- TIME & FREQUENCY (Measure)	Time	60 s to 1 hr	0.16s to 6.65s	Using Time Interval Meter by Direct Method



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66	ELECTRO-TECHNICAL- TIME & FREQUENCY (Source)	Frequency /Period	10 Hz to 1 MHz	0.062% to 0.0021%	Using Multifunction MultiProduct Calibrator, Fluke 5502A By Direct Method.
67	MECHANICAL- ACCELERATION AND SPEED	RPM Indicator	10 rpm to 20000 rpm	2.0rpm	Using Digital Tachometer By Comparison Method
68	MECHANICAL- ACCELERATION AND SPEED	Tachometer (contact Mode)	10 rpm to 1000 rpm	1.1rpm	Using Digital Tachometer & Tachometer Calibrator By Comparison Method
69	MECHANICAL- ACCELERATION AND SPEED	Tachometer (contact Mode)	1000 rpm to 5000 rpm	2.0rpm	Using Digital Tachometer & Tachometer Calibrator
70	MECHANICAL- ACCELERATION AND SPEED	Tachometer (Noncontact Type)	10 rpm to 100 rpm	0.6rpm	Using Digital Tachometer & Tachometer Calibrator By Comparison Method
71	MECHANICAL- ACCELERATION AND SPEED	Tachometer (Noncontact Type)	100 rpm to 10000 rpm	1.1rpm	Using Digital Tachometer & Tachometer Calibrator By Comparison Method
72	MECHANICAL- ACCELERATION AND SPEED	Tachometer (Noncontact Type)	10000 rpm to 90000 rpm	15.0rpm	Using Digital Tachometer & Tachometer Calibrator By Comparison Method



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
73	MECHANICAL-PRESSURE INDICATING DEVICES	Digital Pressure Indicator ,Manometer Magnahelic Gauge ,Low Pressure Gauge ,Pressure Transmitter,Pressure Switches Differential Pressure Gauges /Indicators	0 to 20 mbar	0.008mbar	Using Digital Pressure indicator, Calibrator Make: Polltech Instrument & Test pump by Comparison method DKD-R6-01
74	MECHANICAL-PRESSURE INDICATING DEVICES	Digital Pressure Indicator ,Manometer Magnahelic Gauge ,Low Pressure Gauge ,Pressure Transmitter,Pressure Switches Differential Pressure Gauges /Indicators	0 to 200 mbar	0.07mbar	Using Digital Pressure indicator, Calibrator Make: Polltech Instrument & Test pump by Comparison method DKD-R6-01
75	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Hydraulic Digital/Analog Pressure Gauges,Pressure Indicators,Pressure Transmitter,Pressure Switches,	1 bar to 350 bar	0.07bar	Using Digital Pressure Gauge & Pneumatic Test Pump By Comparison Method DKD-R6-01
76	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Hydraulic Digital/Analog Pressure Gauges,Pressure Indicators,Pressure Transmitter,Pressure Switches,	350 bar to 1000 bar	0.6bar	Using Digital Pressure Gauge & Pneumatic Test Pump By Comparison Method DKD-R6-01



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(\pm)	Remarks
77	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Pneumatic Digital/Analog Pressure Gauges, Vacuum Gauges, Indicators, Pressure Transmitter, Pressure Switch, Differential Pressure Gauge/Indicators	0 bar to 10 bar	0.006bar	Using Digital Pressure Gauge & Pneumatic Test Pump By Comparison Method DKD-R6-01
78	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Pneumatic Digital/Analog Pressure Gauges, Vacuum Gauges, Indicators, Pressure Transmitter, Pressure Switch, Differential Pressure Gauge/Indicators	0 bar to 2 bar	0.0006bar	Using Digital Pressure Gauge & Pneumatic Test Pump by Comparison Method DKD-R6-01
79	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Pneumatic Digital/Analog Pressure Gauges, Vacuum Gauges, Indicators, Pressure Transmitter, Pressure Switch, Differential Pressure Gauge/Indicators	0 bar to 35 bar	0.007bar	Using Digital Pressure Gauge & Pneumatic Test Pump By Comparison Method DKD-R6-01



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(\pm)	Remarks
80	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure-Pneumatic Digital/Analog Pressure Gauges, Vacuum Gauges, Indicators, Pressure Transmitter, Pressure Switch, Differential Pressure Gauge/Indicators	-0.95 bar to 0 bar	0.0006bar	Using Digital Pressure Gauge & Pneumatic Test Pump By comparison method DKD-R6-01
81	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass - Electronic Weighing Balance with Readability $d=0.1\mu\text{g}$ & Cap. 2.1 g	0 g to 2.1 g	0.003 mg	Using E1 Class Weights Calibration of Electronic weighing balance of class I & Coarser as per OIML R-76-1
82	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass- Electronic, Weighing Balances with Readability $d= 0.001$ mg	0 g to 100 g	0.03mg	Using E1 Class Weights Calibration of Electronic weighing balance and Comparator of class 1 & Coarser as per OIML R-76-1
83	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass- Electronic, Weighing Balances with Readability $d= 0.001$ mg	0 to 20 g	0.01mg	Using E1 Class Weights Calibration of Electronic weighing balance and Comparator of class 1 & Coarser as per OIML R-76-1



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(\pm)	Remarks
84	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass-Electronic, Weighing Balances with Readability d= 0.001 mg	0 to 5 g	0.005mg	Using E1 Class Weights Calibration of Electronic weighing balance and Comparator of class 1 & Coarser as per OIML R-76-1
85	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass-Electronic, Weighing Balances with Readability d= 0.01 mg	0 g to 1000 g	0.3mg	Using E1 Class Weights Calibration of Electronic weighing balance and Comparator of class 1 & Coarser as per OIML R-76-1
86	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass-Electronic, Weighing Balances with Readability d= 0.01 mg	0 to 200 g	0.03mg	Using E1 Class Weights Calibration of Electronic weighing balance and Comparator of class 1 & Coarser as per OIML R-76-1
87	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass-Electronic, Weighing Balances with Readability d= 0.1 mg	0 to 5000 g	0.7mg	Using E1 Class Weights Calibration of Electronic weighing balance and Comparator of class 1 & Coarser as per OIML R-76-1



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
88	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass-Electronic, Weighing Balances with Readability d= 10 mg	0 to 25 kg	20mg	Using E2 Class Weights Calibration of Electronic weighing balance and Comparator of class II & Coarser as per OIML R-76-1
89	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass-Electronic, Weighing Balances with Readability d= 100 mg	0 to 25 kg	200mg	Using E2 Class Weights Calibration of Electronic weighing balance and Comparator of class II & Coarser as per OIML R-76-1
90	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass-Electronic, Weighing Balances with Readability d= 1g	0 to 100 kg	6g	Using F1 Class Weight Calibration of electronic weighing balance of class III & Coarser as per OIML R-76-1
91	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass-Electronic, Weighing Balances with Readability d= 50g	0 to 400 kg	54g	Using F1 Class Weights Calibration of Electronic weighing balance of class III & Coarser as per OIML R-76-1
92	THERMAL- SPECIFIC HEAT & HUMIDITY	/Environmental chamber, Control Storage Room ,Cold Room etc.(Multi position calibration)	10 °C to 50 °C	2.30°C	Using Wireless Data Logger at multiposition calibration by spatial mapping comparison method



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
93	THERMAL- SPECIFIC HEAT & HUMIDITY	Humidity Calibrator /Generator/Environmental chamber, Control Storage Room (Multi position calibration)	10 % to 95 % @ 25°C	4%RH	Using Wireless Data Logger at multiposition calibration by spatial mapping comparison method
94	THERMAL- SPECIFIC HEAT & HUMIDITY	Humidity Calibrator /Generator/Environmental chamber, Control Storage Room (Multi position calibration)	10 %RH to 95 %RH@25°C	3.9%RH	Using multipoint Data logger Yokogawa Mdel:GP 10 and Rotronic Make RH & Temperature Probe sensors & at multiposition calibration by spatial mapping comparison method
95	THERMAL- SPECIFIC HEAT & HUMIDITY	Indicator of Humidity calibrator /Generator/Environmental Chamber (Single point calibration)	10 %RH to 90 %RH@25°C	0.75%RH	Rotronic RH & Temp Prob with Indicator by comparison method (single point calibration)
96	THERMAL- SPECIFIC HEAT & HUMIDITY	Relative Humidity Sensors with Indicator ,Hygrometer /Humidity Data Logger Humidity Transmitter with sensor	10 %RH to 90 %RH@25°C	0.78%RH	Using MICHELL RH Generator & Rotronic RH & Temp Probe with Indicator By Comparison Method
97	THERMAL- SPECIFIC HEAT & HUMIDITY	Relative Humidity Sensors with Indicator ,Hygrometer /Humidity Data Logger Humidity Transmitter with sensor	10 °C to 50 °C@50%RH	0.46°C	Using MICHELL RH Generator & Rotronic RH & Temp Prob with Indicator By comparison Method



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(\pm)	Remarks
98	THERMAL-TEMPERATURE	Environmental Chamber ,Temperature Furnace, Autoclave etc.(Using Sensors at Multi Positions)	(-)-80 °C to 400 °C	1.5°C	Using Multipoint Data Logger Yokogawa,Model:GP 10 and 3 wire RTD (PT-100) SENSORS & at multiposition calibration
99	THERMAL-TEMPERATURE	Indicator of Deep Freezers,oven,chambers,Incubator,BOD Incubators,Water Bath, Liquid Bath,Oil Bath,Dry Block Calibrators Furnace	(-80) °C to 300 °C	0.06°C	Using SPRT with Model:935-14-95L& 34-14-95H with Millik Preci9sion Thermometer By comparison Method (Single Point Calibration)
100	THERMAL-TEMPERATURE	Indicator of Deep Freezers,oven,chambers,Incubator,BOD Incubators,Water Bath, Liquid Bath,Oil Bath,Dry Block Calibrators Furnace	300 °C to 600 °C	0.2°C	Using SPRT with Model:935-14-95L &934-14-95 H with Millik Precision Thermometer By Comparison Method (Single Point Calibration)
101	THERMAL-TEMPERATURE	RTD/PRT/ Thermocouple Sensor with or without Indicator ,Temperature Transmitter with Sensor ,Recorder with Sensor	(-)-80 °C to 0 °C	0.02°C	Using SPRT with Model:935-14-95L & 934-14-95H With Millik Precision Thermometer Temperature Source:Stirred Liquid Bath Model:Hydra 798 L By Comparison Method



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
102	THERMAL-TEMPERATURE	RTD/PRT/ Thermocouple Sensor with or without Indicator , Temperature Transmitter with Sensor , Recorder with Sensor	0 °C to 300 °C	0.02°C	Using SPRT with Model:935-14-95L & 934-14-95H With Millik Precision Thermometer Temperature Source:Stirred Liquid Bath Model:Hydra 798 L By Comparison Method
103	THERMAL-TEMPERATURE	RTD/PRT/ Thermocouple Sensor with or without Indicator , Temperature Transmitter with Sensor , Recorder with Sensor	300 °C to 600 °C	0.2°C	Using SPRT with Model 934-14-95H with Millik Precision Thermometer Temperature Source:Dry block calibrator Model:Pegasus 4853 By Comparison Method
104	THERMAL-TEMPERATURE	Temperature Indicator of Muffle Furnace,Dry Block Calibrator (Using single point calibration)	1100 °C to 1200 °C	1.6°C	Using R Type Thermometer with Millik Precision Thermometer By Comparison Method (Single Point Calibration)
105	THERMAL-TEMPERATURE	Temperature Indicator of Muffle Furnace,Dry Block Calibrator (Using single point calibration)	600 °C to 1100 °C	1.2°C	Using R Type Thermometer with Millik Precision Thermometer By Comparison Method (Single Point Calibration)



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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
106	THERMAL-TEMPERATURE	Thermocouple with or without indicator Temperature Transmitter with sensor, Thermistor	1100 °C to 1200 °C	1.5°C	Using R type Thermometer with Millik Precision Thermometer Temperature Source:Dry Block calibrator, Model:Pegasus 4853 By Comparison Method
107	THERMAL-TEMPERATURE	Thermocouple with or without indicator Temperature Transmitter with sensor, Thermistor	600 °C to 1100 °C	1.2°C	Using R Type Thermocouple with Millik Precision Thermometer Temperature Source:Dry Block Calibrator ,Model:Pegasus 4853 By Comparison Method