

Laboratory Prajyo Instrument Private Limited, 18,19, 20 A, 24, Rachana Industrial Complex, Plot No. 71/1B/14, Telco Road, General Block, MIDC, Bhosari, Pune, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2503

Page 1 of 18

Validity 22.03.2018 to 23.12.2019

Last Amended on -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>ELECTRO-TECHNICAL CALIBRATION</u>				
I.	SOURCE			
1.	DC Voltage [#]	0.1 mV to 300 mV 300 mV to 1000 V	1.16 % to 0.004 % 0.004 % to 0.0024 %	Using Multi-Product Calibrator, Direct Method
2.	AC voltage [#]	10Hz to 45 Hz 3 mV to 30 V 45 Hz to 10 kHz 3 mV to 1000 V 10 kHz to 100kHz 30 mV to 200V	0.737 % to 0.043 % 0.742 % to 0.053 % 0.464 % to 0.274 %	Using Multi-Product Calibrator, Direct Method
3.	DC Current [#]	10 μ A to 100 mA 100 mA to 1A 1 A to 20 A 20 A to 1000 A	0.25 % to 0.025 % 0.025 % to 0.037 % 0.037 % to 0.13 % 0.86 % to 0.29 %	Using Multi-Product Calibrator, 50 Turns Current Coil, Direct Method
4.	AC Current [#]	10 Hz to 45 Hz 30 μ A to 3 mA 3 mA to 3 A 45 Hz to 1 kHz 30 μ A to 300 mA 300 mA to 10 A 10 A to 20 A 50 Hz 20 A to 1000 A	0.66 % to 0.34 % 0.34 % to 0.15 % 0.62 % to 0.12 % 0.12 % to 0.19 % 0.19 % to 0.37 % 2.35 % to 0.36 %	Using Multi-Product Calibrator, 50 Turns Current Coil, Direct Method
5.	Resistance [#]	100 m Ω to 100 k Ω 100 k Ω to 1 G Ω	1.31 % to 0.007 % 0.007 % to 1.79 %	Using Multi-Product Calibrator by Direct Method

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number

CC-2503

Page

2 of 18

Validity

22.03.2018 to 23.12.2019

Last Amended on -

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6.	High Insulation Resistance [#]	10M Ω to 500G Ω	4.63 %	Using Standard Resistor by Direct Method
7.	Capacitance [#]	1kHz 1 nF to 1 mF	1.8 % to 1.38 %	Using Multi-Product Calibrator by Direct Method
		1kHz 1nF to 1 mF	1.16 %	Using Decade Capacitor by Direct Method
8.	Inductance [#]	1kHz 100 μ H to 10 H	1.62 % to 1.3 %	Using Decade Inductors by Direct Method
9.	Frequency [#]	1 Hz to 1.1GHz	1.17 % to 0.001 %	Using Multi-Product Calibrator by Direct Method
10.	Period [#]	2 ns to 5 s	1.17 % to 0.001 %	Using Multi-Product Calibrator by Direct Method
11.	Temperature : by Simulation method			
	PRT [#]	(-) 200 $^{\circ}$ C to 800 $^{\circ}$ C	0.07 $^{\circ}$ C	Using Multi-Product Calibrator using ITS – 90 standard for Ω to $^{\circ}$ C
12.	Thermocouple [#] (For instruments which have a selectable CJC feature CJC @ 0 $^{\circ}$ C)			
	J K R S T E	(-) 200 $^{\circ}$ C to 1200 $^{\circ}$ C (-) 200 $^{\circ}$ C to 1372 $^{\circ}$ C 0 to 1767 $^{\circ}$ C 0 to 1767 $^{\circ}$ C (-) 200 $^{\circ}$ C to 400 $^{\circ}$ C (-) 200 $^{\circ}$ C to 1000 $^{\circ}$ C	0.17 $^{\circ}$ C	Using Multi-Product Calibrator & using ITS – 90 standard for mV to $^{\circ}$ C conversion

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number

CC-2503

Page

3 of 18

Validity

22.03.2018 to 23.12.2019

Last Amended on -

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	B C N L U	600 °C to 1820 °C 0 to 2300 °C (-)200 °C to 1300 °C (-)200 °C to 900 °C (-) 200 °C to 600 °C		
13.	Thermocouple [#] J K R S T E B C N L U	(-) 200 °C to 1200 °C (-) 200 °C to 1372 °C 0 to 1767 °C 0 to 1767 °C (-) 200 °C to 400 °C (-) 200 °C to 1000 °C 600 °C to 1820 °C 0 to 2300 °C (-) 200 °C to 1300 °C (-) 200 °C to 900 °C (-) 200 °C to 600 °C	0.98 °C	Using Multi-Product Calibrator by Direct Method
14.	AC Power [#]	@ 50 Hz 40.0 V to 300 V 0.01 A to 20 A, UPF to 0.5 0.5 to 0.1 PF	0.17 % to 0.46 % 0.46 % to 1.2 %	Using Multi-Product Calibrator by Direct Method
15.	Power Factor [#] (Lead /Lag)	@50 Hz 0.01 PF to UPF	0.002 PF	Using Multi-Product Calibrator by Direct Method
16.	Oscilloscope [#]	Amplitude AC/DC-(1M Ω /50 Ω) 1 mV to 10 m V 10 mV to 130 V Time Marker 2 ns to 5 s	5.06 % to 0.58 % 0.58 % to 0.15 % 0.82 % to 0.58 %	Using Multi-Product Calibrator by Direct Method

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number

CC-2503

Page

4 of 18

Validity

22.03.2018 to 23.12.2019

Last Amended on -

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		Bandwidth 50 kHz to 1.1 GHz	2.6 % to 10 %	
17.	Transformers Turn Ratio Meter [#]	1 Turn to 2200 Turn	0.08 %	Using Transformers Turn Ratio Meter Calibrator , Digital Multimeter by Comparison Method
II.	MEASURE			
1.	DC Voltage [#]	0.1mV to 100mV 100 mV to 10 V 10 V to 1000 V	0.141 % to 0.001 % 0.001 % to 0.0008 % 0.0008 % to 0.001 %	Using 8 ^{1/2} Reference Digital Multimeter by Direct/ Comparison Method
2.	DC High Voltage [#]	1 kV to 60kV (at Lab) 1 kV to 100kV (at site)	2.5 % to 2 % 2.5 % to 2.1 %	Using HV Divider with KV Meter by Direct/ Comparison Method
3.	AC Voltage [#]	20 Hz to 10k Hz 1 mV to 1000 V 10 kHz to 100 kHz 2 mV to 200 mV 200 mV to 200V	0.975 % to 0.039 % 1.62 % to 0.11 % 0.11 % to 0.091 %	Using 8 ^{1/2} Reference Digital Multimeter by Direct/ Comparison Method
4.	AC High Voltage [#]	@50Hz 1 kV to 50kV (at Lab) 1 kV to 100kV (at site)	2.6 % to 2.4 % 2.6 % to 2.4 %	Using HV Divider with KV Meter by Direct/ Comparison Method

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number

CC-2503

Page

5 of 18

Validity

22.03.2018 to 23.12.2019

Last Amended on -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
5.	AC High Voltage [#]	@50Hz 1 kV to 33 kV	0.6 % to 0.2 %	Using Standard PT with Digital Multimeter by Direct/ Comparison Method
6.	DC Current [#]	10 μ A to 20 A 20 A to 500 A	0.016 % to 0.051 % 1.30 %	Using 8 ^{1/2} Reference Digital Multimeter, Standard Shunt by Direct/ Comparison Method
7.	AC Current [#]	50Hz to 5 kHz 30 μ A to 200mA 200 mA to 20 A 50 Hz 20 A to 3200A	0.32 % to 0.07 % 0.07 % to 0.14 % 0.36 %	Using 8 ^{1/2} Reference Digital Multimeter by Direct/ Comparison Method Standard CT with 6.5 DMM by Direct/ Comparison Method
8.	DC Resistance [#]	10 m Ω to 1 Ω 1 Ω to 1 M Ω 1M Ω to 20 G Ω	0.093 % to 0.006 % 0.006 % 0.006 % to 0.196 %	Using 8 ^{1/2} Reference Digital Multimeter by Direct/ Comparison Method
9.	Frequency / Period [#]	1 Hz to 1 GHz 1 μ s to 1 s	0.08 % to 0.0011 %	Using Frequency Counter by Direct/ Comparison Method
10.	Time Interval [#]	2 s to 24 Hr	0.007 s to 10.2 s	Using Digital Timer by Comparison Method
11.	Temperature: by Simulation Method			
	PRTs [#]	(-) 200°C to 800°C	0.021 °C	Using 8 ^{1/2} Reference Digital Multimeter, Simulation Method ITS – 90 standard for °C to Ω

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number

CC-2503

Page

6 of 18

Validity

22.03.2018 to 23.12.2019

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12.	Thermocouples # (J, K, R, S, T, E, B, C, N, L, U) CJC @ 0 °C (For instruments which have a selectable CJC feature)	(-) 200 °C to 2300 °C	0.055 °C to 0.095 °C	Using 8 ^{1/2} Reference Digital Multimeter, Simulation Method ITS – 90 standard for °C to mV
13.	Thermocouple# J K R S T E B C N L U	(-) 200 °C to 1200 °C (-) 200 °C to 1372 °C 0 to 1767 °C 0 to 1767 °C (-) 200 °C to 400 °C (-) 200 °C to 1000 °C 600 °C to 1820 °C 0 to 2300 °C (-) 200 °C to 1300 °C (-) 200 °C to 900 °C (-) 200 °C to 600 °C	0.976 °C	Using Multi-Product Calibrator 8 ^{1/2} Reference Digital Multimeter by Direct Method
14.	C.T# Ratio Error & Phase Error	1 to 3200 A/1- 5A 3200 A to 6000 A/1- 5A	RE : 0.018 % PE : 1.8 min RE : 0.027 % PE : 2.43 min	Using Standard CT and AITTS – 98 Comparison Method
15.	P.T# Ratio Error & Phase Error	AC, 50 Hz 6.6 kV, 11 kV, 22 kV, 33 kV	RE :0.08 % PE : 2.4 min	Using Standard CT and AITTS – 98 Comparison Method
16.	CT/PT Burdens#	CT Burden 1.25VA to 75VA PT Burden 1.25A to 200VA	1.72 % 1.24 %	Using AITTS – 98 Direct Method

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2503

Page 7 of 18

Validity 22.03.2018 to 23.12.2019

Last Amended on -

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17.	CT-PT Test Set [#]	CT mode 1A to 5A 0.1% to 1% PT Mode 110-110V/ $\sqrt{3}$	RE : 0.008 % to 0.011 % PE : 0.5 min	Using AITTS – 98 Comparison method
18.	Transformer Turns Ratio Meter Calibrator [#]	1 to 2200 turns	0.05 %	Using Multifunction Calibrator , Digital Multimeter by Comparison method
19.	Active Energy / Power [#]	50 Hz @ UPF 1mA -5A, 30 to 300 V	0.24 %	Using Multifunction Calibrator System by Comparison Method
20.	Capacitance [#]	@ 1 KHz 10 nF to 100 μ F 100 μ F to 1 mF	0.18 % to 1.58 %	Using LCR Meter by Direct Method
21.	Inductance [#]	1 kHz 10 μ H to 10 H	1.3 %	Using LCR Meter by Direct Method

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2503

Page 8 of 18

Validity 22.03.2018 to 23.12.2019

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<u>MECHANICAL CALIBRATION</u>				
1.	DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)			
1.	Calipers ^{\$} (Vernier/Dial/ Digital) L.C.: 0.01 mm	0 to 1000 mm	18.0 μ m	Using Slip Gauge, Caliper Checker Long Slip Gauges, Comparison IS 3651
2.	Height Gauge (Vernier / Dial / Digital) ^{\$} L.C.: 0.01 mm L.C.: 0.0001 mm	0 to 1000 mm Up to 600 mm	18.0 μ m 9.0 μ m	Using Slip Gauge Caliper Checker Long Slip Gauges, Comparison IS 2921
3.	Depth Gauge (Vernier / Dial / Digital) ^{\$} L.C.: 0.01 mm	0 to 600 mm	13.0 μ m	Using Slip Gauges , Long Slip Gauges, Caliper Checker, Comparison IS 4213
4.	External Micrometer ^{\$} L.C.: 0.001 mm	Up to 100 mm >100 mm to 300 mm	2.1 μ m 3.2 μ m	Using Slip Gauge Long Slip Gauges by Comparison IS 2967
	L.C.: 0.01 mm	Up to 100 mm >100 mm to 600 mm	4.2 μ m 6.8 μ m	
5.	Depth Micrometer ^{\$} L.C.: 0.01 mm	0 to 300 mm	5.3 μ m	Using Slip Gauge Long Slip Gauges, Comparison
6.	Internal Micrometer ^{\$} L.C.: 0.01 mm Basic Travel of Micrometer	50 mm to 63 mm	5.8 μ m	Using Slip gauge Long Slip Gauges, Comparison IS 2966

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number

CC-2503

Page

9 of 18

Validity

22.03.2018 to 23.12.2019

Last Amended on -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
7.	Plunger Dial Gauge / Comparator Dial [§] L.C.: 0.001 mm	0 to 1 mm	1.3 μ m	Using Electronic Dial Calibration Tester, Comparison IS 2092 ULM
	L.C.: 0.001 mm	0 to 50 mm	3.7 μ m	
8.	Lever Dial Gauge [§] L.C.: 0.001 mm	0 to 0.14 mm	2.2 μ m	Using Electronic Dial Calibration Tester, Comparison IS 11498
	L.C.: 0.002 mm	0 to 0.2 mm	2.2 μ m	
	L.C.: 0.01 mm	0 to 0.8 mm	3.1 μ m	
9.	Bore Gauge [§] (Transmission only) L.C.: 0.001	0 to 1 mm	4.0 μ m	Using Electronic Dial Calibration Tester, Comparison
10.	Dial Snap Gauge [§] L.C.: 0.001 mm	0 to 150 mm	2.8 μ m	Using Slip Gauge, Comparison IS 14271
11.	Inside Dial Caliper [§] L. C. : 0.01 mm	2 to 200 mm	6.4 μ m	Using Slip Gauge & Slip gauge Accessory, Comparison
12.	Dial Thickness [§] Gauge/ Pistol Caliper L.C.: 0.01 mm	Upto 50 mm	3.5 μ m	Using Slip Gauge, Comparison
13.	Bevel Protractor / Angle Protector / Combination Square [§] Set L. C.: 5 min L. C.: 1°	Upto 360 °	4 Min 35 Min	Using Angle Gauges, Comparison IS 4239
14.	Plain Plug Gauge / OD Master / Height / Width Gauge /Flush Pin Gauge [§]	1 mm to 100 mm	2.6 μ m	Using Slip Gauge & Comparator with Stand, Comparison IS 3455
		> 100 mm to 300 mm	3.7 μ m	

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Accreditation Standard

ISO/IEC 17025: 2005

Certificate Number

CC-2503

Page

10 of 18

Validity

22.03.2018 to 23.12.2019

Last Amended on -

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15.	Cylindrical Setting Master / Plain Mandrill ^s	Upto to 100 mm Concentricity	2.6 μ m 2.0 μ m	Using Slip Gauge Comparator with Stand , FCDM Comparison
16.	Thread Plug Gauge Major Diameter Effective Diameter ^s	2 mm to 100 mm 100 mm to 300 mm	4.3 μ m 4.3 μ m	Using FCDM , ULM Comparison IS 4218
17.	Taper Thread Plug Gauge ^s (Effective Diameter)	2 mm to 100 mm	6.1 μ m	Using FCDM , ULM, Comparison
18.	Snap Gauge / Gap Gauge ^s	0.5 mm to 100 mm 100 mm to 200 mm 200 mm to 300 mm	1.4 μ m 2.3 μ m 6.2 μ m	Using Slip Gauge, Comparison IS 3455
19.	Feeler Gauge Set / Thickness Foils ^s	0.001 to 2 mm	3.1 μ m	Using Digital Micrometer, Comparison IS 3179
20.	Measuring Pin ^s	0.1 to 20 mm	1.6 μ m	Using Slip Gauge Comparator with Stand, Comparison IS 11103
21.	Thread Measuring Wire ^s	0.17 to 6.35 mm	1.6 μ m	Using ULM, IS 6311
22.	Micrometer Setting Sticks /Length Bar ^s	Upto 100 mm > 100 mm to 300 mm > 300 mm to 600 mm	2.3 μ m 3.7 μ m 5.0 μ m	Using Slip Gauge , Long Slip Gauges, Comparator with Stand, Comparison
23.	V Block ^s Parallelism Squariness / Symmetry	Up to 300 mm	5.3 μ m 8.6 μ m	Using Cylindrical square Master, Plunger Dial, Comparison IS 2949

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Accreditation Standard

ISO/IEC 17025: 2005

Certificate Number

CC-2503

Page

11 of 18

Validity

22.03.2018 to 23.12.2019

Last Amended on -

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24.	Engineers Square [§] Parallelism Squarness	Up to 300 mm	6.6 μ m 8.7 μ m	Using Cylindrical square Master, Plunger Dial, Comparison IS 2103
25.	Angle Plate [§] Parallelism Squarness	300 mm x 300 mm	6.6 μ m 8.7 μ m	Using Cylindrical square Master, Plunger Dial, Comparison IS 6973
26.	Comparator with Stand / Electronic Probe with DRO / Comparator [§] L.C.: 0.0001 mm Flatness of base	Up to 25 mm 500 mm X 500 mm	1.3 μ m 3.2 μ m	Using Slip Gauge, Electronic probe, Comparison
27.	Coating Thickness Gauge [§] L.C.: 0.1 μ m	0 μ m to 2000 μ m	13.6 μ m	Using Foils, Comparison
28.	Dial Calibration Tester [§] L.C.: 0.0001 mm	0 to 25 mm	1.7 μ m	Using Electronic Probe with D.R.O., Comparison
29.	Thread Ring Gauge [§] (Effective Diameter)	3 mm to 300 mm	3.3 μ m	Using ULM, Comparison IS 2334
30.	Taper Thread Ring Gauge [§] (Effective Diameter)	3 mm to 100 mm	3.3 μ m	Using ULM, Comparison
31.	Taper Plain Plug Gauge [§]	Up to 100 mm for Angle	5.6 μ m 15 sec of arc	Using ULM, Comparison
32.	Plain Ring Gauge [§]	3 mm to 300 mm	3.2 μ m	Using ULM, Comparison IS 3455

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number

CC-2503

Page

12 of 18

Validity

22.03.2018 to 23.12.2019

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33.	Taper plain Ring Gauge ^s	Up to 100 mm for Angle	5.6 μ m 15 sec of arc	Using ULM, Comparison
34.	Radius Gauge / Templet ^s	0 to 100 mm	15 μ m	Using Vision Measuring Machine, Comparison
35.	Thread Pitch Gauge ^s	55°, 60° Flank angle 0.3 to 8.0 mm Pitch	4.8 min 9.0 μ m	Using Vision Measuring Machine, Comparison
36.	Test Sieve ^s	Up to 100 mm	15 μ m	Using Vision Measuring Machine, Comparison
37.	Taper Scale ^s	0 to 100 mm	9.5 μ m	Using Vision Measuring Machine, Comparison
38.	Measuring Tape ^s	Up to 50 m	124 μ m \sqrt{L} , L is in meter	Using Scale & Tape Calibrator, Comparison
39.	Measuring Scale ^s	1 mtr	124 μ m	Using Scale & Tape Calibrator, Comparison
40.	Scale / Tape Calibrator [#] L.C.: 0.0001 mm	1000 mm	43 μ m	Using Slip Gauge, Long Slip Gauge, Comparison
41.	Length Measuring Machine [#] L.C.: 0.1 μ m	Up to 100 mm	1 μ m	Using Slip Gauge, Comparison
42.	Linear Height Measuring Instruments [#] L.C.: 0.0001mm	Up to 600 mm	8.8 μ m	Using Long Slip Gaug
43.	Surface Plate [#]	4000 mm x 4000 mm	1.4 μ m $\sqrt{L+W/100}$ L & W is in mm	Using Electronic Level, Using Comparison

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number

CC-2503

Page

13 of 18

Validity

22.03.2018 to 23.12.2019

Last Amended on -

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II.	DIMENSION (PRECISION INSTRUMENTS)			
1.	Profile projector/ VDO Measuring [#]			Using Glass Scale , Angle Gauge, Digital Vernier, Comparison
	A) Linear 0.001 mm	0 to 300 mm	11.3 μ m	
	B) Angular L.C : 0.0001°	0 to 360 °	3.2 Min	
	C) Magnification	10 x to 100 x	0.3%	
III.	ACCOUSTICS			
1.	Sound Level Meter [#]	94 dB & 114 dB	0.8 dB	Using Sound Calibrator, Comparison
IV.	ACCELERATION & SPEED			
1.	Tachometer Non-Contact Type ^{\$}	60 rpm to 70000 rpm	0.34% rdg	Using Digital Tachometer by Comparison
V.	TORQUE GENERATING DEVICES			
1.	Torque Wrenches ^{\$} Type I & II, All Classes	0.1 Nm to 10 Nm 10 Nm to 50 Nm 50 Nm to 1000 Nm	4.22 % rdg 1.35 % rdg 1.14 % rdg	Using Torque Wrench Tester, ISO6789:2003
VI.	DUROMETER			
1.	Shore A & D Hardness Tester ^{\$}	0 to 100 Shore A 0 to 100 Shore D	0.9 Shore A 0.9 Shore D	Using Electronic Probe with DCT, Depth of indenter as per ISO 18898

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number

CC-2503

Page 14 of 18

Validity

22.03.2018 to 23.12.2019

Last Amended on -

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VII. PRESSURE INDICATING DEVICES				
1.	Digital / Dial Vacuum Gauge / Indicator/ Transmitter [#]	0 bar to (-) 0.88 bar	0.006 bar	Using Digital Vacuum Gauge as per DKD-R 6-1 by Comparison method
2.	Digital / Dial Pressure Gauge / Indicator/ Transmitter/ Pressure Switch [#]	0 bar to 2 bar 0 bar to 40 bar 0 to 200 bar 0 to 700 bar 0 to 1000 bar	0.002 bar 0.12 bar 0.12 bar 2.9 bar 2.9 bar	Using Digital Pressure Indicator, DKD-R-6-1 by Comparison method
3.	Digital Pressure Indicator / Magnehelic Gauge [#]	0 to 50 mbar	0.08 mbar	Using Digital Pressure Indicator, DKD-R-6-1 by Comparison method
VIII. WEIGHTS				
1.	Mass (Weights) [*]	1 mg 2 mg 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g	0.04 mg 0.04 mg 0.04 mg 0.04 mg 0.04 mg 0.05 mg 0.04 mg 0.04 mg 0.04 mg 0.04 mg 0.04 mg 0.04 mg 0.04 mg 0.04 mg 0.06 mg 0.12 mg 0.12 mg	Using E2 class standard weights 1mg-200g and balance of 0.01 /0.1mg readability Using Calibration Of Weights of (F2 Class & Coarser) as per OIML R 111-1

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Certificate Number CC-2503

Page 15 of 18

Validity 22.03.2018 to 23.12.2019

Last Amended on -

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		500 g 1 kg 2 kg 5 kg	12 mg 12 mg 12 mg 12 mg	Using F1 class weights and balance of $d=0.01$ g Readability, Calibration Of Weights of (M1Class & Coarser) as per OIML R 111-1
		10 kg 20 kg	200 mg 200 mg	Using F1 class weights and balance of $d=0.1$ g readability, Calibration Of Weights of (F1Class & Coarser) as per OIML R 111-1
IX.	VOLUME			
1.	Micropipettes*	10 μ l <V \leq 100 μ l 100 μ l <V \leq 1000 μ l	0.6 μ l 3.52 μ l	Using Weighing Balance with $d: 0.01$ mg, and Distilled Water, Gravimetric Method as per ISO 8655-6
2.	Glassware* (Volumetric Flask, Burettes, Conical Flask, Glass Pipettes, Measuring Cylinder)	1ml \leq V \leq 50ml 50ml<V \leq 100 ml 100ml<V \leq 5000 ml	0.017 ml 0.110 ml 2.8 ml	Using Weighing Balance with $d: 0.01$ mg, and Distilled Water, Gravimetric Method as per ISO 4787
X.	WEIGHING SCALE & BALANCE			
1.	Weighing Balance*			
	$d = 0.01$ mg $d = 0.1$ mg	1 mg to 100 g 1 mg to 200 g	0.07 mg 0.11 mg	Using Weights of E2 class, Calibration Electronic Balances of Class I & Coarser

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Certificate Number CC-2503

Page 16 of 18

Validity 22.03.2018 to 23.12.2019

Last Amended on -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
	d = 0.01 g d = 0.1 g d = 1 g d = 5 g d = 10 g	0.2 g to 6 kg 10 g to 20 kg 50 g to 30 kg 100 g to 50 kg 200 g to 200 kg	20 mg 100 mg 1 g 5 g 30 g	Using Weights of E2 & F1 class, Calibration Electronic Balances of Class II & Coarser

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Page 17 of 18

Validity 22.03.2018 to 23.12.2019

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>THERMAL CALIBRATION</u>				
I.	TEMPERATURE			
1.	Glass, Dial Thermometer [#]	(-) 35°C to 160°C	0.14 °C	RTD 4 Wire, 6 ½ DMM, Using Oil Bath (Comparison)
2.	Temp. Sensor With & Without Indicator [#]	(-) 35°C to 160°C	0.14 °C	RTD 4 Wire, 6 ½ DMM , Using Oil Bath (Comparison)
		160°C to 400°C	0.20 °C	RTD 4 Wire, 6 ½ DMM, Using Dry Block (Comparison)
		400°C to 1000°C >1000°C to 1100°C	1.5 °C 2.4 °C	S Type, 6 ½ DMM, Using Dry Block (Comparison)
3.	Temp. Freezer, Oven, Furnace, Incubator, Environmental Chamber, BOD Incubator, Liquid Bath, Dry Block (Single Point) [#]	-35°C to 400°C	0.2 °C	RTD 4 Wire, 6 ½ DMM, Using (Comparison)
4.	Oven, Furnaces, Dry Block (Single Point) [#]	400°C to 1000°C 1000°C to 1100°C	1.54 °C 2.39 °C	S Type, 6 ½ DMM, Using (Comparison)

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Page 18 of 18

Validity 22.03.2018 to 23.12.2019

Last Amended on -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
5.	Freezer, Oven, Furnace, Incubator, Environmental Chamber, BOD Incubator, Liquid Bath (Multi Points Mapping) *	(-) 35 °C to 400 °C 400 °C to 1100 °C	0.46 °C 3.01 °C	RTD (Pt-100) K-Type thermocouple Digital Data Logger, Using (Comparison)
II.	SPECIFIC HEAT & HUMIDITY			
1.	Thermo Hygrometer, RH Sensor with or without indicator [#]	10 % to 95% RH @ 25 °C 10°C to 50°C @ 50 % RH	1.21 % RH 0.3 °C	Using RH Sensor with indicator, (Comparison)
2.	Humidity Calibrator, Humidity generator , Humidity chamber (Single point) [#]	10 % to 95% RH @ 25 °C 10°C to 50°C @ 50 % RH	1.21 % RH 0.3 °C	Using RH Sensor with indicator, (Comparison)
3.	Humidity Chamber (Multi Points mapping) *	20 % to 90 % RH 15°C to 50°C	2.09 % RH 0.3 °C	Using (Humidity Data loggers, Comparison)

* Measurement Capability is expressed as an uncertainty (\pm) at a confidence probability of 95%

[§] Only in Permanent Laboratory

^{*} Only for Site Calibration

[#] The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.

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