

Laboratory

QRICS Calibration Laboratories Pvt. Ltd., 'Paras' Complex, GP/67,
Office No. 7, 8, 9, & 10 Basement, Thermax Chowk, MIDC,
Chinchwad, Pune, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number

CC-2747 (In lieu of C-0131, C-0440, C-0715)

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Validity

03.07.2018 to 02.07.2020

Last Amended on

30.08.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>ELECTRO TECHNICAL CALIBRATION</u>				
I.	SOURCE			
1.	DC Voltage #	1mV to 300mV 300mV to 30V 30V to 1000V	0.77% to 0.01% 0.01% to 0.003% 0.003%to 0.01%	Using Fluke 9100 By Direct Method
2.	DC Current #	10 μ A to 3mA 3mA to 3A 3A to 20A 20A to 200A 200A to 1000A	0.16 %to 0.02% 0.02% to 0.1% 0.1% to 0.09% 0.09% to 0.31% 0.31%to 0.15%	Using Fluke 9100 By Direct Method 10 turn Current Coil 50 turn Current Coil
3.	AC Voltage #	50Hz 1mV to1000V	2.57% to 0.07%	Using Fluke 9100 By Direct Method
4.	AC Current #	50Hz 10 μ A to 30mA 30mA to 3A 3A to 20A 20A to 200A 200A to 1000A	5.88% to 0.17% 0.17% to 0.22% 0.22% to 0.28% 0.28% to 0.48% 0.48% to 0.37%	Using Fluke 9100 By Direct Method 10 turn Current Coil 50 turn Current Coil
5.	Resistance #	1 Ω to30 Ω 30 Ω to300k Ω 300k Ω to400M Ω	1.25% to 0.07% 0.07% to 0.03% 0.03% to 0.56%	Using Fluke 9100 By Direct Method
6.	Frequency #	10Hz to10MHz	0.082% to0.009%	Using Fluke 9100 By Direct Method

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7.	Capacitance #	1kHz 1nFto3000nF 3000nFto1mF	2.84% to 0.84% 0.84% to 1.93%	Using Fluke 9100 By Direct Method
8.	Temperature Simulation# (Recorder/ Indicator/ Controller by simulation method) RTD J Type K type R Type S Type	(-)200°C to 800°C (-)190 to 1200°C (-)160 to 1200°C 170 to 1750°C 170 to 1750°C	0.53°C 0.65°C 0.66°C 0.74°C 0.81°C	Using Fluke 9100 By Direct Method
9.	Insulation Resistance #	10 MΩ to1 GΩ @ up to 1000 V	0.67 % to 5.92%	Using Fluke 9100 By Direct Method

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II.	MEASURE			
1.	DC Voltage #	1mV to1000mV 1000mV to10V 10V to1000V	0.47% to 0.004% 0.004% to 0.004% 0.004% to 0.007%	Using Fluke 8846A By Direct Method
2	DC Current #	100uAto1mA 1mAto1A 1Ato10A	0.147%to 0.067% 0.067% to 0.089% 0.089% to 0.228%	Using Fluke 8846A By Direct Method
3	AC Voltage #	50Hz 1mVto1V 1Vto10V 10Vto1000V	5.495% to 0.1153% 0.1153% to 0.115% 0.115% to 0.1054%	Using Fluke 8846A By Direct Method
4	AC Current #	50Hz 100uAto1mA 1mAto1A 1Ato10A	0.284% to 0.410% 0.410% to 0.195% 0.195% to 0.484%	Using Fluke 8846A By Direct Method
5	Resistance #	1 Ω to1K Ω 1K Ω to100K Ω 100K Ω to100M Ω	2.449% to 0.0297% 0.0297% to0.0329% 0.0329% to 5.880%	Using Fluke 8846A By Direct Method
6	Frequency #	10Hz to1MHz	0.065% to 0.127%	Using Fluke 8846A By Direct Method
7	DC Capacitance #	1nFto 1mF	5.79% to 2.027%	Using Fluke 8846A By Direct Method

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8	Temperature Simulator# RTD J Type K type R Type S Type T Type B Type E Type	(-)200°C to 600°C (-)200 to 1200°C (-)200 to 1350°C 0 to 1750°C 0 to 1750° C (-)200 to 400° C 0 to 1750° C (-)200 to 1000° C	0.85°C 0.14°C 0.25°C 0.92°C 0.92°C 0.87°C 0.46°C 0.19°C	Using Fluke 8846A (mV to °C) & ITS 90 charts. By Direct Method
9	Time # (Stop Watch & Digital Timer)	7sec to 3600sec 3600sec. to 24hrs	0.6 sec to 2.88sec 2.88 sec to 49.9 sec	Using Diamond Stopwatch & Digital Timer Totalizer By comparison method
10	Inductance #	1kHz 100µH to 1mH 1mH to 5 H	2.63% to 1.15% 1.15% to 0.23%	Using LCR Meter By Direct Method
11	High Voltage AC #	50 Hz 1 kVA Cto5kVAC	8.4%	By Direct /Comparison method Using HV Probe with Fluke DMM

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<u>MECHANICAL CALIBRATION</u>				
I.	DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)			
1.	Angle Protractor [§] L.C. 1° Combination Set [§] L.C. 1°	0-180°	35 min of arc	Using Video Measuring System
2.	Angle Blocks [§]	Upto 90 Deg	14.5 s	Using slip gauges, Sine bar, Millmess dial, surface plate
3.	Bevel Protractor [§] L.C. 0° 5'	0-360°	3 min of arc	Using Video Measuring System
4.	Bore Gauge [§] L.C. 0.001 mm (Transmission Error Only)	Upto 1 mm	1.37 μ m	Using Length Measuring machine by Comparison method
5.	Caliper [§] (Electronic) L.C. 0.001 mm	0-300 mm	7.0 μ m	Using slip gauges, Caliper checker by Comparison method

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6.	Caliper [§] (Digital/Dial/Electronic/ Vernier) L.C. 0.01 mm ^ϕ	0 to 600 mm 0 to 1000 mm	11 μ m 15 μ m	Using slip gauges, Caliper checker and length bars by Comparison method
	Caliper [§] L.C. 0.02 mm ^ϕ	Upto 1500 mm	22.0 μ m	Using slip Gauges, Caliper checker and length bars by Comparison method
7	Comparator Stand [§] (Flatness)	200 mm x 200 mm	4.8 μ m	Using dial comparator by Comparison method
8	Depth Micrometer [§] L.C. 0.001 mm ^ϕ	0 to 300 mm	3.4 μ m	Using slip gauges by comparison method
9	Thickness Gauge [§] (Dial / Digital) L.C. 0.001 mm ^ϕ L.C. 0.01 mm	0 to 20 mm 0 to 20 mm	1.1 μ m 5.80 μ m	Using slip gauges by Comparison method
10	Dial Calibration Tester [§] L.C. 0.0002 mm	0 to 25 mm	2.5 μ m	Using slip gauges by Comparison method
	L.C. 0.001 mm	0 to 25 mm	2.6 μ m	Using Electronic Probe and slip gauges by Comparison method
11	Dial Snap Gauge [§]	Upto 100 mm	2.5 μ m	Using Slip gauges by Comparison method

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11	Feeler Gauge [§]	0.01 to 1 mm	3.1 μ m	Using micrometer by comparison method
12	Electronic Height Gauge (Linear) [#] L.C. 0.0001 mm [Ⓞ] (Squareness) [#]	0 to 600 mm 0 to 600 mm	8 μ m 11 μ m	Using caliper checker by Comparison method master cylinder
13	Analog Comparator [§] L.C. 0.0001 mm L.C. 0.001 mm	0 to 3 μ m 0 to 30 μ m	1.2 μ m 1.4 μ m	Using slip gauges by Comparison method
14	Engineers Square, Angle Plate, Square Block [§] (Parallelism) (Squareness)	300 x 600 mm	4.9 μ m 9.5 μ m	Using plunger dial and angle plate by Comparison method
15	Sinebar [§] (Angle) (Parallelism) (Roller Distance)	Upto 200 mm	10.3 s 3.6 μ m 5.4 μ m	Using slip gauges, surface plate and angle gauge
16	External Micrometer [§] L.C. 0.001 mm L.C. 0.01 mm	0 to 200 mm 0 to 100 mm 0 to 300 mm 0 to 600 mm 0 to 1000 mm	2.7 μ m 6.5 μ m 10.0 μ m 11.0 μ m 12.0 μ m	Using slip gauges by Comparison method, using slip gauges, Length bar and Plunger dial by Comparison method
17	Floating Carriage [§] L.C. 0.0001 mm	Upto 100 mm	2.7 μ m	Using slip gauges, OD

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
				Master by comparison method
18	Internal Micrometer [§]	5 mm to 30 mm	6.5 μ m	Using Plunger dial and slip gauge by comparison method
19	Height Micrometer [§] L.C. 0.002 mm	5mm to 300 mm	7.0 μ m	Using lever Dial, Slip Gauges, Length bar and surface plate by comparison method
20	Height Gauge [§] L.C. 0.01 mm ^ϕ (Vernier, Dial, Electronic)	0 to 600 mm 0 to 1000 mm	13.0 μ m 15.0 μ m	Using caliper checker, Slip gauges and length bar by comparison method
21	Lever Dial [§] L.C. 0.001 mm L.C. 0.002 mm L.C. 0.01 mm	0-0.14 mm 0-0.2 mm 0-1 mm	1.21 μ m 1.36 μ m 4.5 μ m	Using Length Measuring Machine by Comparison method
22	Foils [§]	0.01 to 1 mm	3.8 μ m	Using Length Measuring machine
23	OD Master / Setting Master [§]	Upto 100 mm Upto 300 mm	1.26 μ m 1.6 μ m	Using Length Measuring machine
24	Pistol Caliper [§] L.C. 0.1 mm	0 to 50 mm	59.1 μ m	Using slip gauges by Comparison method
25	Plunger Dial [§]	0 to 50 mm		

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	L.C. 0.001 mm ^φ		1.39 μ m	Using Length Measuring machine
26	Plain Plug Gauge / Width Gauge/ Length Master / Round Height/ Block / OD Gauge [§]	Upto 100 mm Upto 300 mm	1.26 μ m 1.6 μ m	Using Electronic probe comparator stand and slip gauges
27	Pin Gauges [§]	Upto 20 mm	1.26 μ m	Using Length Measuring machine
28	Plain Ring Gauges [§]	3 to 100 mm 3 mm to 280 mm	1.17 μ m 1.6 μ m	Using Length Measuring machine
29	Plain Taper Plug Gauge [§] Angle Measurement, Length, Minor & Major Diameter	Upto 100 mm	12 s	Using Length Measuring Machine by Comparison method
30	Plain Taper Ring Gauge [§] Angle Measurement, Major Diameter	8 mm to 100 mm Major Diameter Angle	1.5 μ m 1.54 min of arc	Using Length Measuring machine
31	Radius Gauge [§]	Upto 25 mm	10 μ m	Using Video measuring system
32	Snap Gauge / Length Gauge [§]	2mm to 100 mm > 100 mm to 300 mm > 300 mm to 500 mm	2.5 μ m 3.2 μ m 6.7 μ m	Using Slip Gauges
33	Steel Rule [§]			Using length machine by

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	L.C. 0.5 mm ^φ	0 to 1000 mm	109.68 \sqrt{L} μm Where L in m	comparison method
34	Steel Tape [§] L.C. 1.0 mm ^φ	Upto 50 m	109.68 \sqrt{L} μm Where L in m	Using length machine by comparison method
35	Micrometer setting sticks / Setting Rod / Riser Blocks [§]	Upto 300 mm Upto 600 mm	2.9μm 3.35μm	Using Plunger dial / Electronic Height gauge by comparison method
36	Slip Gauge Sets [§]	Upto 20 mm Upto 50 mm Upto 100 mm	0.38μm 0.50μm 0.75μm	Using slip gauges and slip gauge calibrator by comparison method
37	Standard steel wire gauge [§]	Upto 10 mm	13.0μm	Using Video Measuring system
38	Straight edge [§] Parallelism Straightness	Upto 1000 mm	5.5μm 9.0μm	Using surface plate, Plunger dial and slip gauges by Comparison method
39	Taper Thread Plug Gauge [§]	6 mm to 100 mm	5.0μm	Using floating carriage by Comparison method, TMW
40	Taper Thread Ring [§]	4mm to 100 mm	3.5μm	Using length measuring machine
41	Thread Plug Gauge [§]	3 mm to 100 mm	5.2μm	Using floating carriage by Comparison method & Length measuring machine
		3 mm to 250 mm	2.9μm	Using length measuring

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				machine, TMW

42	Thread Ring Gauge [§]	3 mm to 100 mm 3 mm to 250 mm	1.2 μ m 1.8 μ m	Using length measuring machine
43	Thread Pitch Gauge [§] Thread Angle Thread Pitch	60° 0.4 mm to 6 mm	12 min of arc 8.5 μ m	Using video measuring machine by Comparison method
44	Thread measuring prisms [§] Width of prism	A / B / C / D	2.35 μ m	Using length measuring machine
45	Thread measuring wires [§]	0.17 to 6.35 mm	1.26 μ m	Using length measuring machine
46	Two pin inside dial caliper [§] L.C. 0.01 mm [Ⓧ]	5 mm to 75 mm	8.0 μ m	Using micrometer and dial calibration tester by Comparison method
47	V Block [§] Parallelism Squareness	Upto 300 mm	5.1 μ m 11.1 μ m	Using Surface plate, Plunger Dial and analog comparator by Comparison method
48	Depth Gauge [§] L.C. 0.01 mm [Ⓧ] (Vernier/Dial/Digital/ Electronic)	0 to 300 mm 0 to 600 mm	12.9 μ m 14.8 μ m	Using caliper checker and slip gauges by Comparison method

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49	V Groove Micrometer [§] L.C. 0.001 mm [Ⓧ]	Upto 100 mm	2.17 μ m	Using OD Master by Comparison method
50	Surface Plate # (Granite / Cast Iron)	2500 x 2500 mm	2.0 $\sqrt{L+W}$ /100 μ m L & W in mm	Using electronic level
51	Spirit level [§] L.C. 0.01 mm/m [Ⓧ]	Upto 300 mm	11 μ m/m	Using tilting table and Electronic level by comparison
II	DIMENSION (PRECISION INSTRUMENTS)			
1.	Graticule (Angular) [§]	0 to 360°	10.5 min of arc	Using video measuring machine
2.	Video measuring system / Profile Projector # L.C. 0.001 mm [Ⓧ] Linear Angular Magnification	Upto 100 mm 360° 10X / 20 X	16.67 μ m 8 min of arc 0.34%	Using Precision Glass scale, Angle Graticule and steel ball
III.	Pressure Indicating Devices			
1.	Pressure Pneumatic Analog (Dial) & Digital Pressure Gauges [#]	0 to 20 bar	0.13 bar	By Comparison method-based on DKD-R6-1 & NABL 122-13
2.	Pressure Hydraulic Analog (Dial) & Digital Pressure Gauges [#]	0 to 400 bar 0 to 700 bar	1.86 bar 4.86 bar	By Comparison method-based on DKD-R6-1 & NABL 122-13
3.	Vacuum	(-) 0.8 to 0 bar	0.02 bar	By comparison method-

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	Analog (Dial) & Digital Pressure Gauges [#]			based on DKD-R-6-2 & NABL 122-13
IV.	ACCOUSTICS			
1	Sound Level Meter [§]	1 kHz 94 dB 114 dB	0.8db	Using sound level calibrator

THERMAL CALIBRATION

I.	TEMPERATURE			
1.	Temperature Sensor \$ (RTD/ Thermocouple With and without Indicators)/ Temperature gauge	-10°C to 50°C	0.81°C	By Comparison Method Using Standard "Rtd" & 6 ½ digit DMM and Dry well furnace as a source
2	Temperature Sensor # (RTD/ Thermocouple With and without Indicators)/ Temperature gauge	50°C to 400°C	2.0°C	By Comparison Method Using Standard "Rtd" & 6 ½ digit DMM and Dry well furnace as a source
3	Temperature Sensor # (RTD/ Thermocouple With and without Indicators)	400°C to 1000°C	3.0°C	By Comparison Method Using Standard "S" type & 6 ½ digit DMM and Dry well furnace as a source and zero compensation

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* Measurement Capability is expressed as an uncertainty (±) 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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