National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

CERTIFICATE OF ACCREDITATION

EXCEL CALIBRATION PVT. LTD.,

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

No. 101, Legend Construction, No. 3-4-136/101, Barkathpura,
Hyderabad Urban, Telangana

in the field of

CALIBRATION

Certificate Number CC-2424

Issue Date 12/10/2017 **Valid Until** 11/10/2019

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL

Avijit Das
Program Director

8907697020002000111

Anil Relia
Chief Executive Officer

National Accreditation Board for Testing and Calibration Laboratories

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SCOPE OF ACCREDITATION

Laboratory Excel Calibration Pvt. Ltd., No. 101, Legend Construction, No. 3-4-136/101, Barkathpura, Hyderabad Urban, Telangana

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
		ELECTRO-TECHNICAL CALIBRATION		
I.	**SOURCE**			
1.	DC Voltage #	1 mV to 100 mV	0.24% to 0.00411%	Using Standard Calibrator Fluke 5522A By Direct Method
		100 mV to 10 V	0.0040% to 0.0018%	
		10 V to 100 V	0.0018% to 0.0037%	
		100 V to 1000V	0.0037 % to 0.0024%	
2.	AC Voltage #	**45 Hz to 10KHz**		
		3 mV to 30 mV	0.25% to 0.08%	Using Standard Calibrator Fluke 5522A By Direct Method
		30 mV to 100 mV	0.08% to 0.031%	
		100 mV to 1V	0.031% to 0.035%	
		1 V to 30V	0.035 % to 0.026%	
		30V to 300V	0.026 % to 0.04%	
		45 Hz to 1KHz		
		300V to 1000V	0.04%	
3.	DC Current #	10µA to 100µA	0.25% to 0.04%	Using Standard Calibrator Fluke 5522A by Direct Method
		100µA to 1 mA	0.04% to 0.017%	
		1 mA to 1A	0.017% to 0.03%	
		1A to 10A	0.03% to 0.062%	
		10A to 20A	0.062% to 0.12%	Using Fluke 5522AWith current coil 5500A By Direct Method
		20A to 1000A	0.65%	

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
4.	AC Current #	**10Hz to 1KHz**		Using Standard Calibrator Fluke 5522A By Direct Method
		30µA to 300µA	0.65% to 0.2%	
		300µA to 300mA	0.2% to 0.14%	
		300 mA to 3A	0.14% to 0.075%	
		45Hz to 1KHz 3A to 20A	0.075% to 0.21%	Using Fluke 5522AWith current coil 5500A By Direct Method
		50 Hz 20A to 900A	0.68% to 1.41%	
5.	Resistance #	1Ω to 100Ω	0.12% to 0.006%	Using Standard Calibrator Fluke 5522A By Direct Method
		100Ω to 1KΩ	0.006 % to 0.004%	
		1KΩ to 1MΩ	0.004% to 0.004%	
		1MΩ to 10 MΩ	0.004% to 0.017%	
		10MΩ to 300MΩ	0.017% to 0.4%	
		300MΩ to 1GΩ	0.4% to 1.78%	
		0.001Ω	0.18%	Using Standard Resistors at discrete Values High Precision Decade Resistance Box & Decade Megohm Box By Direct Method
		0.01Ω	0.15%	
		0.1Ω	0.7%	
		0.1 Ω to 1 Ω	1.4% to 0.14%	
		1 GΩ to 1 TΩ	2.5% to 8.2%	

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
6.	Capacitance #	**1kHz**		Using Standard Calibrator Fluke 5522A By Direct Method
		220pF to 1nF	5.6% to 1.8%	
		1nF to 10nF	1.8% to 0.43%	
		10nF to 300nF	0.43% to 0.28%	
		100Hz		
		700nF to 3µF	0.36% to 0.23%	
		3µF to 100µF	0.23% to 0.14%	
7.	Inductance #	**1kHz** 100µH to 10H	1.25% to 1.65%	Using Decade Inductance Box By Direct Method
8.	AC Power-1Φ #	**50Hz**		Using Standard Calibrator Fluke 5522A By Direct Method
		120V to 240V	0.25% to 1.05%	
		0.1A to 20A		
		0.2(Lead)-UPF-0.2(Lag)		
		2.4W to 4.8kW		
9.	Power Factor #	0.2 Lead to UPF 0.2 Lag to UPF	0.003 PF	Using Standard Calibrator Fluke 5522A By Direct Method
10.	Oscilloscope # Amplitude Signal Amplitude Square Wave Time Marker Band Width	2.5mV to 130V	2.5% to 0.4%	Using Scope Calibrator Fluke 5522A By Direct Method
		2mV to 55V_{P-P} (@1kHz)	2.35% to 0.55%	
		1nS to 5S	0.06% to 0.55%	
		50kHz to 1GHz	5.9%	

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
11.	Temperature Simulation # (Temperature indicators/ Controller/ Recorder/ Calibrator/ Transmitter)			
	K-Type	(-)200°C to 1350°C	0.40°C	Using Standard Calibrator Fluke 5522A By Direct Method
	J-Type	(-)200°C to 1200°C	0.26°C	
	E-Type	(-)250°C to 1000°C	0.45°C	
	T-Type	(-)200°C to 400°C	0.55°C	
	S-Type	250°C to 1700°C	0.80°C	
	R-Type	250°C to 1700°C	0.60°C	
	B-Type	600°C to 1800°C	0.58°C	
	N-Type	(-)200°C to 1300°C	0.35°C	
	PT-100	(-)200°C to 800°C	0.25°C	
12.	Frequency#	1Hz to 26.5GHz	0.0065% to0.015%	Using RF Reference Source 96270A By Direct Method
13.	RF Power#	10MHz to 4 GHz (-) 40dBm to 14dBm	5.20%	Using RF Reference Source 96270A By Direct Method
II.	**MEASURE**			
1.	DC Voltage#	0.5mV to 100mV	0.085% to 0.06%	Using 8½ DMM Fluke 8508A By Direct Method
		100 mV to 10V	0.06% to 0.005%	
		10 V to 100 V	0.005% to 0.005%	
		100 V to 1000V	0.005% to 0.001%	

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
2.	AC Voltage#	**40Hz to 10KHz**		Using 8½ DMM Fluke 8508A By Direct Method
		10mV	0.065%	
		45Hz to 20KHz		
		100 mV to 1V	0.20% to 0.06%	
		1V to 100V	0.06% to 0.03%	
		100V to 1000V	0.03% to 0.09%	
3.	DC Current#	10µA to 1mA	0.009% to 0.005%	Using 8½ DMM Fluke 8508A By Direct Method
		1mA to 1A	0.005% to 0.026%	
		1A to 10A	0.02%	
4.	AC Current#	**40Hz to 1KHz**		Using 8½ DMM Fluke 8508A By Direct Method
		10µA	0.081%	
		50Hz to 10KHz		
		100µA to 100mA	0.07% to 0.061%	
		100mA to 1A	0.061% to 0.05%	
		1A to 10A	0.05% to 0.065%	
5.	DC Resistance#	10mΩ to 10Ω	0.5% to 0.06%	Using 8½ DMM Fluke 8508A By Direct Method
		10Ω to 100Ω	0.06% to 0.03%	
		100Ω to 100KΩ	0.03% to 0.045%	
		100KΩ to 10MΩ	0.045% to 0.04%	
		10MΩ to 10GΩ	0.04% to 0.3%	

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
6.	Temperature Measurement#			
	K-Type	(-)200°C to 1350°C	0.36°C	Using MFC 5522A & DMM 8846A (for PT100) By Direct Method
	J-Type	(-)200°C to 1200°C	0.24°C	
	E-Type	(-)250°C to 1000°C	0.45°C	
	T-Type	(-)250°C to 400°C	0.57°C	
	N-Type	(-)200°C to 1300°C	0.36°C	
	R-Type	250°C to 1700°C	0.56°C	
	S-Type	300°C to 1700°C	0.43°C	
	RTD (PT-100)	(-)200°C to 800°C	0.16°C	
7.	Frequency#	10Hz to 1MHz	0.035%	Using DMM 8846A By Comparison Method
8.	Time Interval#	1 Sec to 9000 Sec	0.1Sec	Using Time Totalizer By Comparison Method
9.	DC Current*	10A to 100A	0.2% to 1.2%	Using DMM with Standard Resistor & Current Shunt By Direct Method
10.	AC High Voltage*	**50Hz** 1kV to 25kV	8.8%	Using HV Probe & DMM By Direct Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
	MECHANICAL CALIBRATION			
I.	**DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)**			
1.	Slip Gauge[$] Grade 0,I,II	0.5 mm to 10 mm 10 mm to 25 mm 25 mm to 50 mm 50 mm to 75 mm 75 mm to100 mm	0.4 µm 0.6 µm 0.7 µm 1.0 µm 1.2 µm	Using Gauge blocks Comparator & "K" Grade Slip Gauges By Comparison Method Base on IS:3650
2.	External Micrometer [$] L.C.0.001 mm L.C.0.01 mm	Up to 25 mm 25 mm to 500 mm 500 mm to 1000 mm	1.2 µm 4.2 µm 12.6 µm	Using Gauge Blocks& Long gauge blocks By Comparison Method Base on IS:2967
3.	Extension Rods [$] Of internal Mic./Length Bars/ Width gauge/Setting Rod of Ext. Mic.	0 to 300 mm 300mm to 1000mm	3.0µm 14.0µm	Using Electronic height gauge & Surface Plate as Reference By Comparison Method Base on IS:2966
4.	Vernier calipers[$] (dial and digital) L.C.0.01mm L.C.0.02mm	Up to 300mm 300mm to 1000mm	8.4µm 15.9µm	Using Caliper Checker / Long gauges Blocks By Comparison Method Base on IS:3651(part 1&2)
5.	Vernier Depth Gauge[$] L.C.0.01mm	Up to 600 mm	11.0µm	Using Gauge Blocks / Long gauge blocks By Comparison Method Base on IS:4213

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
6.	Depth micrometer $ L.C.:0.01mm	Up to 150mm	8.3µm	Using Gauge Blocks & Long gauge blocks By Comparison Method Base on BS:6468
7.	Height Gauge$ (digital and dial) L.C.0.001mm	Up to 300mm 300mm up to 600mm 600 up to 1000mm	6.6µm 9.3µm 13.0µm	Using Gauge Blocks / Long gauge blocks By Comparison Method Base on IS:2921
8.	Plain Plug Gauges$	Up to 300mm	2.2 µm	Using ULM By Comparison Method Base on IS:3455
9.	Thread Measuring Wire / Cylindrical Measuring Pins$	0.17mm to 6.35mm Up to 20mm	0.7µm 1.0µm	Using ULM By Comparison Method Base on IS:11103
10.	Thread Plug Gauge$ (Effective dia)	up to 100 mm 100 mm to 300 mm	3.8µm 5µm	Using ULM By Comparison Method Base on IS:6311
11.	Plain Ring Gauge$	1.8 mm to 100mm 100mm to 300mm	3.4µm 3.8µm	Using ULM By Comparison Method Base on IS:3544
12.	Thread Ring Gauge$ (Effective Dia)	1.8 mm to 100mm 100mm to 300mm	3.8µm 3.8µm	Using ULM By Comparison Method Base on IS:2334
13.	Taper Plain Plug Gauge$	Up to 100mm	3.9µm	Using ULM By Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
14.	Taper Plain Ring Gauge$	Upto 100mm	3.1µm	Using ULM By Comparison Method
15.	Taper Thread Plug Gauge$ (Effective dia)	Upto 100mm	4.0µm	Using ULM By Comparison Method
16.	Taper Thread Ring Gauge$ (Effective dia)	Up to 100mm	4.3µm	Using ULM By Comparison Method
17.	Feeler Gauges$	Up to 2 mm	1.7µm	Using Micrometer/ULM By Comparison Method Base on IS:3179
18.	Plunger Dial Gauges$ L.C.0.001mm	Up to 50 mm	1.7µm	Using ULM By Comparison Method Base on IS:2092
19.	Lever Dial Gauge$ L.C.0.002mm	Up to 2 mm	1.9µm	Using ULM By Comparison Method Base on IS:11498
20.	Bore Gauges$ (Transmission Only)	Up to 2 mm	2.5µm	Using ULM By Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
21.	Internal/Inside Micrometer $ (Travel Only) L.C.0.01mm	Up to 50 mm	7.2µm	Using ULM By Comparison Method
22.	Internal/External Groove Dial Gauge$ (Travel Only) L.C.0.01mm	Up to 100 mm	6µm	Using Gauge Blocks, ULM By Comparison Method
23.	Dial Thickness Gauge$ L.C.0.001mm	100 mm	8µm	Using Gauge Blocks By Comparison Method Base On IS:2092
24.	Ultrasonic Thickness Gauge$	Up to 300mm	5µm	Using Gauge Blocks & Long gauge blocks By Comparison Method
25.	Coating Thickness Gauge$	Up to 2mm	2µm	Using Coating Thickness Foil By Comparison Method
26.	Snap Gauge$	Up to 300mm	4.6µm	Using Gauge blocks / ULM By Comparison Method Base on IS:3477
27.	Groove Micrometer$	Up to 100mm	2µm	Using Gauge blocks By Comparison Method
28.	Three Pin Micrometer $	Up to 100 mm	8.2 µm	Using plain ring gauges By Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
29.	Pistol Caliper[$]	Up to 100 mm	28.9 µm	Using Gauge blocks By Comparison Method
30.	Millimess[$]	Up to 1 mm	1.7 µm	Using ULM By Comparison Method
31.	2D Height Measuring Instrument [$] L.C.0.0001 mm	Up to 1000 mm	7.3 µm	Using Long gauge blocks By Comparison Method Base On IS:2921
32.	Sine Bar[$]	Up to 500 mm	0.4 arc of min	Using Angle gauges, dial indicators, Slip Gauge Set By Comparison Method Base On IS:4239
33.	Bevel Protractor , Combination Set, Inclinometer [$]	Up to 360 deg	3.3 arc of min	Using Angle gauge blocks By Comparison Method Base On IS:4239
34.	V-Blocks [$] (Parallelism) (Squarness) (Symmetrically)	Up to 250 mm	10 µm	Using Test mandrel and Dial indicators By Comparison Method Base On IS:2949
35.	Angle Plates [$] (Parallelism) (Squarness)	300 x 300 mm	7.1 µm	Using Height Gauge Surface table and dial indicators By Comparison Method Base On IS:2554, IS:6973 & IS:6232

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
36.	Thickness Foils[$]	Up to 2 mm	1.7 µm	Using ULM/Micrometer By Comparison Method
37.	Engineer Square[$] (Squarness)	Up to 300mm	7.2µm	Height Gauge Surface table and dial indicators By Comparison Method Base On IS:2103
38.	Test Sieve[$]	0.003mm to 25mm 25mm to 300mm	8.2µm 8.1µm	Using Profile Projector / Digital Vernier By Comparison Method Base On IS:460(part I,II,II)
39.	Radius Gauge/ Form Gauge[$]	0.5mm to 100mm	7.3µm	Using Profile Projector By Comparison Method
40.	Thread Pitch Gauge[$]	0.1mm to 25mm	7.3µm	Using Profile Projector By Comparison Method
41.	Angle Gauge, Angular Scale, Angle Graticule[$]	0° to 360°	0.4 are of min.	Using Profile Project By Comparison Method
42.	ULM [♣] L.C.0.0001mm	0 to 100mm	0.6µm	Using K grade slip gauge blocks By Comparison Method
43.	Profile Projector / Microscope [♣] L.C.0.001mm	0 to 100mm 0 to 360 deg 5X to 10X	5µm 5 min 0.9%	Using Angle Gauge, Slip Gauge & Linear Glass Scale By Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
44.	CMM♣ L.C.0.001mm	0 to 700mm	7.2µm	Using Long gauge blocks By Comparison Method ISO:15635,ISO:10360
45.	Surface Plates♣	Up to 4000X4000mm	4µm/m	Using Spirit Level By Comparison Method ISO:7327:2003,ISO:8512-2
46.	Electronic Height Gauge♣	Up to 700mm	8.5µm	Using long gauge blocks By Comparison Method
II.	**PRESSURE INDICATING DEVICES**			
1.	Hydraulic Pressure Pressure Gauge, Digital Pressure Gauge, Transmitter/ Transducer, Pressure Switch#	0 to 200 bar 0 to 700 bar 0 to 1000 bar	0.078 bar 0.15 bar 2 bar	Using Digital Pressure Gauge / Pressure Calibrator By Comparison Method as per DKD R6-1
2.	Pneumatic Pressure Pressure Gauge Digital Pressure Gauge, Transmitter/ Transducer, Pressure Switch#	0 to 40 bar 0 to 2bar	0.0081 bar 0.001 bar	Using Digital Pressure Gauge / Hand Pump By Comparison Method as per DKD R6-1

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
3.	Vacuum Vacuum Gauge Digital Vacuum Gauge, Vacuum Transmitter/ Transducer Vacuum switch#	(-)0.95 to 0 bar	0.0005 bar	Using Digital Pressure Gauge / Vaccum Pump By Comparison Method as per DKD R6-2
4.	Low Pressure Magnehelic Gauge Manometer Differential Pressure Transmitter#	0 to 2000 mmWc	1.0 mmWc	Using Low Pressure Calibrator By Comparison Method as per DKD R6-1
III.	**TORQUE GENERATING DEVICES**			
1.	Torque Wrench $ Type I Class B,C,D,E Type II Class A,B,D,E	 1Nm to 100 Nm 100Nm to 1000 Nm 1000Nm to 3000 Nm	 1.2% 1.5% 1.6%	Using Digital Torque Wrench Tester By Comparison Method as per IS:6789:2003

* 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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