

Laboratory Prism Calibration Centre, F-101, 101 A, TF-94-98, Rudraksh Complex-II, Jashoda Nagar Cross Roads, Phase –III, GIDC, Vatva, Ahmedabad, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2480 (In lieu of C-0984, C-1039, C-1040) **Page** 1 of 15

Validity 26.11.2017 to 25.11.2019 **Last Amended on** 26.09.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>ELECTRO TECHNICAL CALIBRATION</u>				
I.	SOURCE			
1.	Temperature Simulation # K Type Thermocouple J Type Thermocouple B Type Thermocouple R Type Thermocouple S Type Thermocouple T Type Thermocouple RTD PT 100	(-)50°C to 1300°C (-)100°C to 1200°C 600°C to 1800°C 360°C to 1700°C 300°C to 1700°C (-)50°C to 400°C (-)200°C to 800°C	0.90°C to 0.75°C 0.82°C 2.52°C to 1.41°C 1.55°C 1.82°C to 1.56°C 1.01°C 0.41°C to 0.63°C	Using Advance calibrator by Direct Method
2.	1 Phase/3 Phase Power #	50Hz 50 to 250V 0.1A to 5A (-)0.5 to +0.5 PF (7.5W – 3750W)	0.34% to 0.21%	Using 3 Phase Power / Energy Calibrator Zeal By Direct Method
3.	1 Phase/3 Phase Energy #	50Hz 50 o 250V 0.1A to 5A (-)0.5 to +0.5 PF (1.25Wh to 625Wh)	0.25% to 0.44%	Using 3 Phase Power / Energy Calibrator Zeal By Direct Method
4.	Power Factor #	50Hz (-)0.5 to +0.5 PF	0.012 PF	Using 3 Phase Power / Energy Calibrator Zeal By Direct Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
5.	DC Voltage #	10 mV to 100 mV 100 mV to 1000V	0.27% to 0.13% 0.13% to 0.12%	Using MFC Zeal By Direct Method
6.	AC Voltage #	50Hz 10 mV to 100 mV 100 mV to 1000V	0.52% to 0.22% 0.22%	Using MFC Zeal By Direct Method
7.	DC Current #	0.2mA to 24mA 24mA o 100mA 100mA to 10A 10A to 800A	2.1% to 0.042% 0.2% to 0.21% 0.21% to 0.40% 1.48% to 0.51%	Using Advanced calibrator & MFC with Current coil By Direct Method
8.	AC Current #	1mA to 100 mA 100mA to 10A 10A to 800A	0.36% to 0.25% 0.25% to 0.42% 1.55% o 1.27%	Using MFC with Current coil By Direct Method
9.	Frequency #	10Hz to 50kHz	1.5% to 0.03%	Using Advanced Calibrator By Direct Method
10.	DC Resistance #	1 Ω to 1 G Ω 1G Ω to 100 G Ω	1.4% to 2.65% 2.65% to 6.0%	Using Decade Box By Direct Method
II.	MEASURE			
1.	DC Voltage #	1mV to 100mV 100mV to 1V 1V to 1000V	0.70% to 0.012% 0.01% to 0.2% 0.2% to 0.041%	Using DMM Fluke By Direct/Comparison Method
2.	AC Voltage #	50Hz 100mV to 1V 1V to 1000V	0.12% to 0.2% 0.2% to 0.10%	Using DMM Fluke By Direct/Comparison Method

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3.	DC Current #	0.1mA to 1mA 1mA to 100mA 100mA to 1A 1A to 10A	1.01% to 0.06% 0.06% to 0.07% 0.07% to 0.2% 0.04% to 0.19%	Using DMM Fluke By Direct/Comparison Method
4.	AC Current #	50Hz 0.1mA to 1mA 1mA to 100mA 100mA to 1A 1A to 10A	1.0% to 0.3% 0.3% to 0.19% 0.19% to 0.3% 0.3% to 0.24%	Using DMM Fluke By Direct/Comparison Method
5.	Frequency #	10Hz to 50kHz	0.04% to 0.03%	Using DMM Fluke By Direct Method
6.	DC Resistance #	1Ω to 1GΩ	0.7% to 2.32%	Using DMM Fluke By Direct Method
7.	Temperature Simulation # Thermocouple K type J type B type R Type S type T type RTD PT 100	(-) 50°C to 1300°C (-)100°C to 1150°C 600°C to 1800°C 360°C to 1700°C 300°C to 1700°C (-)50°C to 400°C (-)200°C to 800°C	0.88°C to 0.75°C 0.82°C 2.52°C to 1.41°C 1.55°C 1.82°C to 1.55°C 1.01°C 0.28°C to 0.39°C	Using Advance Calibrator By Direct Method
8.	Time #	7s to 3600s 3600s to 86400s	2.42s to 2.53s 2.53s to 20.49s	Using Digital Stop Watch By Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
9.	AC High Voltage #	50Hz 1kV to 5 kV	8.3% to 5.8%	Using HV Probe with DMM By Comparison Method
10.	DC High Voltage #	1kV to 5 kV	5.0%	Using HV Probe with DMM By Comparison Method
11.	AC High Voltage *	1kV to 30 kV	8.3% to 5.7%	Using HV Probe with DMM By Comparison Method
12.	DC High Voltage *	1kV to 30 kV	5.0%	Using HV Probe with DMM by Comparison Method

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<u>MECHANICAL CALIBRATION</u>				
I.	DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)			
1.	Caliper - Vernier / Dial / Electronic [§] L.C. : 10 μ m	0 to 600mm	14 μ m	Using Caliper Checker, Gauge Block Set & Length Bar
2.	External Micrometer [§] L.C. :1 μ m	0 to 100 mm 100 mm to 300 mm	1.3 μ m 3.8 μ m	Using Mick Check Set & Gauge Block
3.	Height Gauge [§] (Vernier /Dial/Digital) L.C. :10 μ m	0 to 600 mm	13.6 μ m	Using Caliper Checker &Length Bar
4.	Dial Comparator [§] L.C. :1 μ m	0.050 mm	1.2 μ m	Using ULM
5.	Plunger Type Dial Gauge [§] L.C. :1 μ m	upto 50	1.3 μ m	Using ULM
6.	Lever Type Dial Gauge [§] L.C. :1 μ m	0 to1.0 mm	1.3 μ m	Using ULM by Direct Measurement as per IS 11498

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
7.	Dial Bore Gauge ^s (for transmission mechanism)	Upto 1 mm	2.4 μ m	Using ULM
8.	Foils ^s	0.003mm to 12 mm	1.2 μ m	Using ULM
9.	Measuring Scale / Taper Scale ^s	0 to 1000 mm	134 μ m	Using Tape and Scale
10.	Measuring Tape/ Pie Tape ^s	Upto 50 meter	134x \sqrt{L} μ m L in meter	Using Tape and Scale Calibrator
11.	Snap Gauge ^s	8 mm to 150 mm	2.3 μ m	Using ULM & Master Ring
12.	Feeler Gauge ^s	Upto 1 mm	1.2 μ m	Using ULM
13.	Spirit level ^s L.C:0.01 mm/m	L.C. 0.01 mm/m	6.6 μ m/m	Using Electronic Level
14.	Micrometer setting Rod ^s	25 to 275 mm	3.3 μ m	Using ULM, slip Gauges & Length Bar
15.	Internal Micrometer ^s (Two Point) L.C:10 μ m	Head 25 to 32 mm & 50 to 63 mm	3.0 μ m	Using ULM & Long slip Gauge
		Overall Length with Extension rod up to 10 to 250 mm	4.4 μ m	
16.	Dial Thickness Gauge ^s L.C:1 μ m	up to 25 mm	1.5 μ m	Using Gauge Block Set

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
17.	Pistol Caliper [§] L.C. 50 μ m	Upto 100 mm	29.3 μ m	Using Slip Gauge Set
18.	Plain Ring Gauge [§]	4 mm to 150 mm	2.4 μ m	Using ULM & Master Ring
19.	Test Sieve [§]	5 mm to 125 mm	28 μ m	Using Digital Vernier caliper
20.	Thread Plug Gauge Effective Diameter, Major Diameter [§]	3mm to 150 mm	2.2 μ m 3.2 μ m	Using ULM & Thread Measuring Wires, Gauge block
21.	Thread Ring Gauge Effective Diameter, Minor Diameter [§]	4 mm to 100 mm	2.2 μ m 2.1 μ m	Using ULM & Master Ring
22.	Ultrasonic Thickness Gauge [§]	up to 300 mm	71 μ m	Using Slip Gauge Set
23.	Plain Plug Gauge [§]	3 mm to 100 mm 100 mm to 280 mm	1.6 μ m 2.9 μ m	Using ULM, Gauge Block Set
24.	Cylindrical Measuring Pin [§]	0.1 mm to 20 mm	2.0 μ m	Using ULM
25.	Coating Thickness Gauge [§] L.C. 0.001mm	0 to 1 mm	2.8 μ m	Using Master Foil
26.	Surface Plate [*]	2000 mm x 2000 mm	$1.0 \sqrt{\frac{L+W}{125}} \mu\text{m}$ where L & W in mm	Using Electronic Level

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II.	PRESSURE INDICATING DEVICES			
1.	Low Pressure Gauge # (Analog/Digital)	0 to 19.61 mbar	0.083 mbar	Using Digital Pressure calibrator & Low pressure pump as per DKD R6-01
2.	Pressure Gauge/Pressure Switch/Safety Valve/Pressure Transmitter # (Analog/Digital)	0 to 2 bar 2 bar to 20 bar 20 bar to 340 bar 340 bar to 700 bar 700 bar to 1000 bar	0.004 bar 0.03 bar 0.23 bar 0.46 bar 1.7 bar	Using Digital Pressure Gauge & Pneumatic pressure pump & Digital Multi meter as per DKD R6-01 Using Digital Pressure Calibrator & Hydraulic pressure pump & Digital Multimeter as per DKD R6-01
3.	Vacuum Gauge/Switch/ Transmitter # (Analog/Digital)	(-)0.9 bar to 0 bar	0.006 bar	Using Digital Vacuum Gauge & Vacuum pump & Digital Multimeter as per DKD R6-02

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III.	WEIGHTS			
1.	Weights ^s Class F1 Accuracy and coarse	1mg 2mg 5mg 10mg 20mg 50mg 100mg 200mg 500mg 1g 2g 5g 10g 20g 50g 100g 200 g	0.01mg 0.01mg 0.01mg 0.01mg 0.01mg 0.01mg 0.01mg 0.01mg 0.01mg 0.01mg 0.01mg 0.01mg 0.025mg 0.025mg 0.025mg 0.05mg 0.06mg	Using E2 Class weights and Precision Weighing Balances upto 100g/200g readability 0.01mg/0.1mg by Substitution Method & ABBA Weighing Cycle Procedure as per OIML R111
	F2 Class and Coarser	500 g 1 kg 2 kg 5 kg 10 kg 20 kg 50 kg	0.60mg 0.60mg 4.0 mg 4.5 mg 42.5 mg 42.5 mg 2.04 g	Using F1 Class weight and Electronic balance upto 1 kg readability 1 mg, upto 6kg readability 10mg, upto 20kg readability :100mg and upto 100kg readability: 5g/10g by Substitution Method & ABBA Weighing Cycle Procedure as per OIML R111

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
IV.	WEIGHING SCALE AND BALANCE			
1.	Weighing Balance [#] d=0.01mg and Coarser d= 0.1mg and Coarser d= 1mg and Coarser d= 10 mg and Coarser d= 100 mg and Coarser d= 5g/10g and Coarser d= 50 g and Coarser	0 to 100g >100 to 200 g >200 g to 1 kg >1 to 6 kg >6 to 20 kg >20 to 100 kg >100 to 250 kg	0.076 mg 0.095 mg 0.69 mg 6.0 mg 65.5 mg 5.8 g 102.50 g	Using E2 class Standard Weights & Calibration of Electronic Weighing Balance of Class I and Coarser as per OIML R-76-1 Using F1 class Standard Weights & Calibration of Electronic Weighing Balance of Class II Using F1 / M1 class & Calibration of Electronic Weighing Balance of Class III & coarser Using Standard Weights
V.	VOLUME			
1.	Calibration Of Piston Pipette ^{\$}	10 μ l to 100 μ l > 100 μ l to 500 μ l >500 μ l to 1000 μ l	0.1 μ l 0.4 μ l 0.65 μ l	Using Digital Weighing Balances upto 100g/200g readability 0.01mg/0.1mg and distilled water of known density Micropipette as per IS 8655-6 & ISO/TR 20461

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2.	Glass Pipette [§] (Graduated/Non Graduated)	0.1ml to 1.0 ml 1 ml to 10 ml >10ml to 50 ml	0.4 μ l 2.4 μ l 24 μ l	Using Digital Precision Balance and distilled water of known density as per ISO 4787 & ISO/TR 20641
3.	Glass Burette [§]	1ml to 10ml 10ml to 100ml	2.4 μ l 24.0 μ l	Using Digital Precision Balance and distilled water of known density as per ISO 4787 & ISO/TR 20641
4.	Measuring Cylinder/Volumetric Flask/Conical Flask/Beaker [§]	1ml to 100 ml >100ml to 1000ml >1000 ml to 2000 ml > 2000 ml to 5000 ml	24.0 μ l 0.24 ml 0.48 ml 1.2 ml	Using Digital Precision Balance and distilled water of known density as per ISO 4787 & ISO/TR 20641
VI.	ACCELERATION AND SPEED			
1.	RPM [#] (Non Contact type)	180 RPM to 10000 RPM	1.73 to 7.35 RPM	Using Digital Tachometer along with Tacho generator
VII.	ACOUSTICS			
1.	Sound Level Meter [§]	1 kHz 94 dB and 114 dB	1.074 dB	Using Sound Level Calibrator along with Meter
VIII.	UTM, TENSION CREEP AND TORSION TESTING MACHINE			
1.	Uniaxial Static Testing Machines Tension, Compression [*]	Tension 25N to 100 kN Compression 25N to 1000 kN	0.40% 0.40%	Using Force Proving Instruments (Load cell) of class one machine IS 1828 (Part 1)

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IX.	TORQUE GENERATING DEVICES			
1.	Torque Tools of Type 1 and 2 Of Type 1 Class B,C,D & E Type 2 Class A,B,D,E ^s	2 Nm to 20 Nm	1.86%	Using Three Calibrated Torque Transducer of 20,200 and 2000 Nm Capacity Along with peak holding facility digital indicator in torque wrench calibrating machine ISO 6789
		20 Nm to 200 Nm	1.08%	
		200 Nm to 2000Nm	0.75%	
X.	HARDNESS TESTING MACHINES			
1.	Verification of Rockwell Hardness Testing Machines	HRBW HRC	1.19 HRBW 1 HRC	Using Rockwell Hardness Standard Blocks IS 1586-2
2.	Verification of Brinell Hardness Testing Machines	HBW2.5/187.5	1.12%	Using Brinell Hardness Standard Blocks IS 1500-2
		HBW 5/750	1.13%	
		HBW 10/3000	1.07%	

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<u>THERMAL CALIBRATION</u>				
1.	TEMPERATURE			
1.	Temperature Sensor RTD /Thermocouple With or Without indicator/ Temperature Calibrator/ bath/Black Body /Thermometer With Sensor Temperature Gauge/ Recorder/Transmitter With Sensor / Temperature Switch/Digital Thermometer #	(-)30°C to 123°C 123°C to 300°C 300°C to 600°C 600°C to 1200°C	0.33°C 0.43°C 0.63°C 3.51 °C	Using Master SSPRT, Master R / S Type Thermocouple with Advance Modular Calibrator & Dry Block Temperature Bath & Oil Bath
2.	Liquid In Glass Thermometer \$	(-)30 °C to 123 °C 123 °C to 250°C	0.65 °C 0.66 °C	Using Master SSPRT with Advance Modular Calibrator Source : Liquid Temperature Bath
3.	Infrared Temp. gun / Pyrometer/Thermal Imager/ IR Sensor#	50°C to100°C 100°C to 500°C 500°C to 1200°C	2.64 °C 3.53 °C 4.66 °C	Using Black Body Source By Direct/Comparison Method

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4	Indicator of Freezers/ Bath, Cold Chamber/Incubator/ Water Bath/ COD/ Autoclave/ Environment Chamber* (Single Position)	(-) 80 °C to 150°C	0.42 °C	Using Using SSPRT / RTD Sensor/ & Advance Modular Calibrator
5.	Indicator of Oven/ ETO/ BOD/Furnace / Environment Chamber* (Single Position)	150 °C to 600°C	0.57°C	Using SSPRT /RTD Sensor/ & Advance Modular Calibrator
6.	Indicator of Oven/ Muffle Furnace* (Single Position)	600°C to 1200°C	3.52°C	Using Master R /S Thermocouple Sensors / Advance Modular Calibrator
5.	Mapping of Freezers/ Bath Cold Chamber/ Refrigerators *	(-)80°C to 200°C	1.60°C	Using RTD Sensors/ Thermocouple Sensors (Multiposition) & Data Logger
6.	Mapping of DHS/Sterilizer/ Oven/ Water bath / ETO/COD -BOD Autoclave*	200°C to 600°C	3.36°C	
7.	Mapping of Oven/ Muffle Furnace*	600 °C to 1050°C	6.50 °C	

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II.	SPECIFIC HEAT AND HUMIDITY			
1.	RH Sensor / RH Indicator with Sensor /Dry & Wet Bulb Thermometer Thermohygrometer / RH Transmitter #	30% to 95% RH @ 25°C 20°C to 50°C @ 50% RH	1.24%RH @25°C 0.37°C@50%RH	Using Digital Hygrometer & Humidity Generator
2.	Environment Chambers/Humidity Chamber/ Generators/RH & Temperature*	30% to 85% RH @ 25°C 20°C to 50°C @ 50% RH	1.25 % RH@ 25°C 0.38°C @50% RH	Using Data loggers By mapping multi position

* 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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