

Laboratory Sri Calibrations Services, H. No. 12-10-335/3/A, Fl. No. S1 & S2,
Nomula Lakshmi Residency, Seethaphalmandi, Secunderabad,
Telangana

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2338 (in lieu of C-0942, C-0943 &
C-0944)

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Validity 01.08.2017 to 31.07.2019

Last Amended on 10.08.2017

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>ELECTRO-TECHNICAL CALIBRATION</u>				
I.	SOURCE			
1.	DC Voltage [#]	1 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	0.5 % to 0.01 % 0.01 % 0.01 % 0.01 %	Using Multi Product Calibrator by Direct Method
2.	AC Voltage [#]	50 Hz to 1 kHz 1 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 700 V	3.2 % to 0.06 % 0.06 % to 0.084% 0.084 % to 0.06% 0.06% 0.06 % to 0.074%	Using Multi Product Calibrator by Direct Method
		10 μ A to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 2 A 2 A to 20 A	0.81 % to 0.017% 0.017 % to 0.019% 0.019 % to 0.014% 0.014 % to 0.017% 0.017 % to 0.40%	Using Multi Product Calibrator by Direct Method
		20 A to 1000 A	1.6 % to 1.01%	Using Current Coil Adopter by Comparison method
		50 Hz to 1kHz 10 μ A to 200 μ A 200 μ A to 200 mA 200 mA to 20A	3.96 % to 0.36 % 0.36 % to 0.1 % 0.1 % to 0.48 %	Using Multi Product Calibrator by Direct Method
		20 A to 1000 A	1.7 % to 1.10 %	Using Current Coil Adopter by Comparison Method

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5.	Resistance [§]	1 Ω to 10 Ω 10 Ω to 90 M Ω 90 M Ω to 999M Ω	1.73 % to 0.29 % 0.29 % 0.29 % to 1.24 %	Using Decade Resistance Box by Direct Method
	Resistance*	1 Ω to 100 Ω 100 Ω to 10 k Ω 10 k Ω to 100M Ω	1.4 % to 0.04 % 0.04 % to 0.03 % 0.03 % to 1.74 %	Using Decade Resistance Box by Direct Method
6.	Frequency [§]	10 Hz to 1 kHz 1 kHz to 100 kHz 100 kHz to 10 MHz	0.003 % to 0.008 % 0.008 % to 0.006 % 0.006 % to 0.023 %	Using Multi Product Calibrator by Direct Method
7.	Capacitance [§]	10 nF 20 nF 50 nF 100 nF 1 μ F	0.47 % 0.47 % 0.47 % 0.47 % 0.70 %	Using Multi Product Calibrator by Direct Method
	Temperature Simulation [§]			
	K Type Thermocouple	(-) 140 $^{\circ}$ C to 500 $^{\circ}$ C	0.69 $^{\circ}$ C to 0.18 $^{\circ}$ C	Using Thermocouple Adapter by Direct Method
	T Type Thermocouple	500 $^{\circ}$ C to 1340 $^{\circ}$ C	0.18 $^{\circ}$ C to 0.31 $^{\circ}$ C	
	J Type Thermocouple	(-) 240 $^{\circ}$ C to 200 $^{\circ}$ C	0.69 $^{\circ}$ C to 0.25 $^{\circ}$ C	
	E Type Thermocouple	200 $^{\circ}$ C to 390 $^{\circ}$ C	0.25 $^{\circ}$ C to 0.18 $^{\circ}$ C	
	R Type Thermocouple	(-) 180 $^{\circ}$ C to 750 $^{\circ}$ C	0.07 $^{\circ}$ C to 0.35 $^{\circ}$ C	
	S Type Thermocouple	0 $^{\circ}$ C to 200 $^{\circ}$ C	0.15 $^{\circ}$ C to 0.27 $^{\circ}$ C	
	B Type Thermocouple	200 $^{\circ}$ C to 800 $^{\circ}$ C	0.27 $^{\circ}$ C to 0.20 $^{\circ}$ C	
	N Type Thermocouple	0 $^{\circ}$ C to 1000 $^{\circ}$ C	1.12 $^{\circ}$ C to 0.76 $^{\circ}$ C	
		1000 $^{\circ}$ C to 1700 $^{\circ}$ C	0.76 $^{\circ}$ C to 0.82 $^{\circ}$ C	
		0 $^{\circ}$ C to 1000 $^{\circ}$ C	1.10 $^{\circ}$ C to 0.80 $^{\circ}$ C	
		1000 $^{\circ}$ C to 1700 $^{\circ}$ C	0.80 $^{\circ}$ C to 0.85 $^{\circ}$ C	
		600 $^{\circ}$ C to 800 $^{\circ}$ C	1.10 $^{\circ}$ C to 1.00 $^{\circ}$ C	
		800 $^{\circ}$ C to 1700 $^{\circ}$ C	1.00 $^{\circ}$ C to 1.10 $^{\circ}$ C	
		(-) 240 $^{\circ}$ C to 500 $^{\circ}$ C	0.46 $^{\circ}$ C to 0.17 $^{\circ}$ C	
		500 $^{\circ}$ C to 1300 $^{\circ}$ C	0.17 $^{\circ}$ C to 0.28 $^{\circ}$ C	

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	RTD (Pt-100)	(-) 200 °C to 800 °C	0.35 °C to 0.36 °C	Using Multi Function Calibrator by Direct Method
9.	Temperature Simulation *			
	K Type Thermocouple	(-) 140 °C to 500 °C	0.07 °C to 0.41 °C	Using Multi Function Calibrator by Direct Method
	T Type Thermocouple	500 °C to 1340 °C	0.41 °C	
	J Type Thermocouple	(-) 200 °C to 200 °C	0.24 °C	
	R Type Thermocouple	200 °C to 390 °C	0.24 °C	
	S Type Thermocouple	(-) 180 °C to 750 °C	0.07 °C to 0.35 °C	
	B Type Thermocouple	0 °C to 1000 °C	0.30 °C to 0.34 °C	
	N Type Thermocouple	1000 °C to 1700 °C	0.34 °C to 0.37 °C	
	RTD Type	0 °C to 1000 °C	0.39 °C	
		1000 °C to 1700 °C	0.39 °C to 0.44 °C	
		500 °C to 800 °C	0.32 °C to 0.92 °C	
		800 °C to 1700 °C	0.92 °C	
		(-) 200 °C to 500 °C	0.13 °C to 0.47 °C	
		500 °C to 1300 °C	0.47 °C to 0.37 °C	
		(-) 100 °C to 800 °C	0.35 °C to 0.36 °C	
II.	MEASURE			
1.	DC Voltage [§]	1 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	0.53 % to 0.017 % 0.017 % 0.017 % 0.017 % to 0.018 % 0.018 % to 0.025 %	Using 6 ½ Digital Multimeter by Direct Method
2.	AC Voltage [§]	50 Hz to 1 kHz 1 mV to 100 mV 100 mV to 1 V 1V to 750 V	50 Hz to 1 kHz 5.9 % to 0.18 % 0.18 % to 0.20 % 0.20 % to 0.18 %	Using 6 ½ Digital Multimeter by Direct Method

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3.	DC Current [§]	1 mA to 100 mA 100 mA to 1 A 1 A to 10 A	0.64 % to 0.07 % 0.07 % to 0.21 % 0.21 % to 0.35 %	Using 6 ½ Digital Multimeter by Direct Method
4.	AC Current [§]	50 Hz to 1 kHz 10m A to 2 A 2 A to 10 A	50 Hz to 1 kHz 4.9 % to 0.43 % 0.43 % to 0.72 %	Using 6 ½ Digital Multimeter by Direct Method
5.	Resistance [§]	1 Ω to 100 Ω 100 Ω to 10 k Ω 10 k Ω to 100M Ω	1.4 % to 0.04 % 0.04 % to 0.03 % 0.03 % to 1.74 %	Using 6 ½ Digital Multimeter by Direct Method
6.	Timer #	60 s to 900 s 900 s to 3600 s	1.9 s to 1.3 s 1.3 s to 2.9 s	Using Digital Timer by Comparison Method
7.	High Voltage (DC) [§]	1 kV to 5 kV	0.028 kV to 0.141 kV	Using High Voltage Probe with Digital Multimeter by Direct Method
8.	High Voltage (AC) [§]	50 Hz 1 kV to 5 kV	0.3 kV	Using High Voltage Probe with Digital Multimeter by Direct Method
9.	High Voltage (DC)*	1 kV to 40 kV	0.3 kV	Using High Voltage Probe with Digital Multimeter by Direct Method
10.	High Voltage (AC)*	50 Hz 1 kV to 28 kV	0.51 kV	Using High Voltage Probe with Digital Multimeter by Direct Method
11.	Frequency [§]	10 Hz to 300 kHz	0.035 %	Using 6 ½ Digital Multimeter by Direct method

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12.	Temperature Simulation [#]			
	K Type Thermocouple	(-) 140 °C to 500 °C	0.93°C to 0.20°C	Using Multi Function Calibrator
	T Type Thermocouple	500 °C to 1340 °C	0.20°C to 0.31°C	
	J Type Thermocouple	(-) 200 °C to 200 °C	0.30°C to 0.15°C	
	R Type Thermocouple	200 °C to 300 °C	0.15°C to 0.18°C	
	J Type Thermocouple	(-) 180 °C to 500 °C	0.31°C to 0.19°C	
	R Type Thermocouple	500 °C to 1150 °C	0.19°C to 0.27°C	
	S Type Thermocouple	0 °C to 1000 °C	0.93°C to 0.71°C	
	B Type Thermocouple	1000 °C to 1700 °C	0.71°C to 0.77 °C	
	N Type Thermocouple	0 °C to 1000 °C	0.93°C to 0.74°C	
	B Type Thermocouple	1000 °C to 1700 °C	0.74°C to 0.81°C	
	N Type Thermocouple	500 °C to 800 °C	0.57°C to 0.69°C	
	RTD Type	800 °C to 1800 °C	0.69°C to 0.78°C	
		(-) 100 °C to 500 °C	0.59°C to 0.18°C	
		500 °C to 1300 °C	0.18°C to 0.26°C	
		(-) 200 °C to 800 °C	0.36°C	

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<u>MECHANICAL CALIBRATION</u>				
I.	DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)			
1.	Vernier Caliper [§] (Dial/Digital/ Analog) L.C.: 0.01 mm [¶]	Upto 300 mm	0.010 mm	Using Caliper Checker / Grade Block set "0" grade by Comparison Method
2.	Depth Caliper [§] (Vernier/Dial) L.C.: 0.02 mm	Upto 300 mm	0.013 mm	Using Grade Block Set "0" Gauge by Comparison Method
3.	Height Gauge [§] (Vernier/Dial) L.C.: 0.02 mm	Upto 600 mm	0.015 mm	Using Caliper Checker / Grade Block set "0" grade by Comparison Method
4.	Height Gauge [§] (Dial/Digital) L.C.: 0.01 mm	Upto 600 mm	0.012 mm	Using Caliper Checker / Grade Block set "0" grade by Comparison Method
5.	External Micrometer [§] (Analog/Digital) L.C.: 0.001 mm	Upto 25 mm	0.001 mm	Using Grade Block set "0" Gauge by Comparison Method
6.	External Micrometer [§] L.C.: 0.01 mm	Upto 50 mm	0.007 mm	Using Grade Block set "0" Gauge by Comparison Method
7.	Depth Micrometer [§] (Analog/Digital) L.C.: 0.01 mm	Upto 50 mm	0.007 mm	Using Grade Block set "0" Gauge by Comparison Method

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8.	Dial/Digital Gauge [§] (Plunger Type) L.C.: 0.001mm ^φ	Upto 25 mm	0.003 mm	Using Dial calibration Tester by Comparison Method
9.	Dial /Digital Thickness Gauge [§] L.C.: 0.01 mm	Upto 10 mm	0.008 mm	Using Grade Block set "0" Gauge by Comparison Method
10.	Radius Gauge [§]	0.05 mm to 25 mm	0.009 mm	Using Profile Projector by Comparison Method
11.	Pitch Gauge [§] (Pitch & Angle)	Upto 7 mm	0.007 mm 3.14 arc min	Using Profile Projector by Comparison Method
12.	Test Sieves [§]	0.05 mm to 50 mm	0.007 mm	Using Profile Projector by Comparison Method
13.	Bevel Protractor [§] L.C.: 5 min.	90° X 4 Quadrants	4.25 arc min	Using Profile Projector by Comparison Method
14.	Sheet Metal Protractor / Combination Set/ Angle Protractor [§] L.C.: 1°	0 to 180°	1.9 arc min	Using Profile Projector by Comparison Method
15.	Steel Scale [§] L.C.: 1 mm	Upto 1000 mm	0.123 mm	Using Tape & Scale Calibration Unit by Comparison Method
16.	Steel Tape / Woven Metallic / Fiber Tape [§] L.C.: 1 mm	Upto 100 mtr.	$0.27\sqrt{L/1000}$ mm L in mm	Using Tape & Scale Calibration Unit by Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
17.	Pie Tape ^s L.C.: 1 mm	20 mm to 1500 mm	0.62 mm	Using Tape & Scale Calibration Unit by Comparison Method
18.	Feeler Gauge ^s	0.02 mm to 1 mm	0.002 mm	Using Digimetic Micrometer by comparison method
19.	Lever Dial Gauge ^s L.C.: 0.01 mm	Upto 2.0 mm	0.006 mm	Using Dial calibration Tester by Comparison Method
20.	Lever Dial Gauge ^s L.C.: 0.001 mm	Upto 0.2 mm	0.003 mm	Using Dial calibration Tester by Comparison Method
21.	Dial Bore Gauge ^s L.C.: 0.001 mm	Upto 2 mm travel	0.003 mm	Using Grade Block set "0" Gauge by Comparison Method
II.	PRESSURE INDICATING DEVICES			
1.	Digital /analog Pressure gauges, Pressure transducers/transmitters,(With & Without indicator) Pressure switches, DP Gauge Digital / analog Manometers #	1 bar to 35 bar 35 bar to 700 bar (-) 70 mbar to 70 mbar 0 to 1 bar	0.006 bar 0.14 bar 0.013 mbar 0.0006 bar	Using Digital Pressure Gauge with Hydraulic/Pneumatic comparator Pump Using Digital Low Pressure calibrator
2.	Vacuum Gauge [#]	(-) 0.90 bar to 0	0.0006 bar	Using Digital Low Pressure calibrator

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
2.	M2 Class Weights And Coarser ^s	500 g 1 kg 2 kg 5 kg	0.02 g 0.02 g 0.03 g 0.03 g	Using F1 Class weights and Balance of d:10 mg as per OIML R- 111 By Substitution Method through ABBA cycles
		10 kg 20 kg 50 kg	1 g 1.5 g 2 g	Using F1 Class weights and Balance of d:0.5/1g as per OIML R- 111 By Substitution Method through ABBA cycles
VI.	WEIGHING SCALE AND BALANCE			
		1 mg to 3 g d \geq 0.001 mg	0.004mg	
		1 mg to 82 g d \geq 0.01 mg	0.02mg	
		10 mg to 200 g d \geq 0.1 mg	0.2mg	
		500 mg - 6kg d \geq 0.01 g	30mg	
		50g - 60 kg d \geq 0.5 g	2 g	
		2kg - 500 kg d \geq 100 g	200 g	

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VII.	VOLUME			
1.	Glassware (Pipette, Burette Measuring cylinder, Volumetric flask) [§]	1 ml \leq V < 10 ml 10 ml \leq V < 100 ml 1000 ml \leq V < 2500 ml	0.01 ml 0.05 ml 0.35 ml	Using Weighing balance with d : 0.01 mg d : 0.1 mg & d : 10 mg respectively & distilled water based on Gravimetric method as per ISO 4787
2.	Micro Pipettes [§]	10 μ l to 100 μ l 100 μ l to 1000 μ l 1 ml to 10 ml	0.18 μ l 0.33 μ l 3.4 μ l	Using weighing balance of d: 0.01 / 0.1 mg & Distilled water based on Gravimetric Method as per ISO 8655
VIII.	DENSITY AND VISCOSITY			
		0.600 g/ml to 1.000 g/ml	0.0012g/ml	Using Hydrometer of resolution : 0.0005 g/ml and Appropriate liquid by Comparison Method as per Archimedes Principle based on IS 3104
		1.000 g/ml to 2.000 g/ml	0.002 g/ml	Using Hydrometer of resolution : 0.001 g/ml and Appropriate liquid by Comparison Method as per Archimedes Principle based on IS 3104

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<u>THERMAL CALIBRATION</u>				
I.	TEMPERATURE			
1.	Liquid-in-Glass Thermometer, RTD/Thermocouple Sensor with or without Indicator, Dial/Digital Thermometer #	(-) 80°C to 250°C	0.22°C	Using SSPRT with Temperature Indicator and 6 ½ Digit Digital Multimeter, Low Temperature Bath, Oil Bath by Comparison Method
2.	RTD/Thermocouple Sensor with or without Indicator, Dial / Digital Thermometer #	250°C to 1200°C	2.43°C	Using R-Type Thermocouple with Temperature Indicator , 6 ½ digit DMM by Comparison Method
3.	Liquid Baths / Dry Block Calibrator #	(-) 80°C to 250°C 250°C to 1200°C	0.4°C 4.0°C	Using RTD ,R Type Thermocouple with Temperature indicator Based on Euromet cg-13
4.	IR Thermometer, Pyrometer \$	50°C to 500°C	4.2°C	Using IR Thermometer and Black Body Source by Comparison Method
5.	Freezer, Oven, Chamber, Incubator*	(-) 80°C to 250°C	1.4°C	Using RTD Sensor With Data logger (Minimum 9 Sensors) at Multi position Calibration

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II.	SPECIFIC HEAT & HUMIDITY			
1.	Humidity Meter / Indicator / Data Logger / Controller, Thermo-Hygrometer [§]	15% RH to 90%RH @ 25°C	2.0% RH	Using Humidity/Temp, Generator cum chamber, Humidity Temperature Meter with Sensor
2.	Chamber / Environmental Chamber *	30% RH to 95%RH @ 25°C	3.03 %RH	Using Humidity/Temp. Wireless Data logger (Minimum 9) at Multi position Calibration

* 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.

^φLaboratory can also calibrate instruments/devices of coarser resolution / least count within the accredited range using same reference standard/ master equipment under the scope of accreditation.