

Laboratory RK Technologies, F-26, 2nd Floor, New Ashoka Vihar, XLO Point, MIDC Ambad, Nashik, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2497

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Validity 26.12.2017 to 25.12.2019

Last Amended on 11.12.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>ELECTRO-TECHNICAL CALIBRATION</u>				
1.	SOURCE			
1.	DC Voltage [#]	1 m V to 10V 10 V to 1000 V	7.6 % to 1.6% 0.16 %	Using 5½ Digit Zeal MFC By Direct Method
2.	DC Current [#]	1mA to 1A 1A to 10 A 10 A to 100 A 100 A to 900 A	0.73 % 1.34 % to 1.00%	Using 5½ Digit Zeal MFC By Direct Method Using Current Coil
3.	AC Voltage [#]	50 Hz 5mV to 1 V 1V to 1000 V	1.90% to 0.79% 0.79% to 0.26%	Using 5½ Digit Zeal MFC By Direct Method
4.	AC Current [#]	50 Hz 1 mA to 1 A 1A to 10 A 10 A to 900 A	0.8% to 1.06% 1.06% to 0.32% 1.28%	Using 5½ Digit Zeal MFC By Direct Method Using Current Coil
5.	DC Resistance [#] (2 Wire & 4 Wire)	1 Ω to 1000 Ω 1 K Ω to 1M Ω 1M Ω to 1000 M Ω	1.01 % to 0.3% 0.3% to 0.58% 0.58% to 2.37%	Using Decade Resistance Zeal By Direct Method
6.	Frequency [#]	45 Hz to 1000 Hz	0.60 % to 0.06%	Using 5½ Digit Zeal MFC By Direct Method
7.	Temperature Simulation [#] RTD - PT-100 J Type K Type T Type	(-)200°C to 800°C (-)100°C to 750°C (-)100°C to 1300°C (-)100°C to 350°C	1.0°C 1.1°C 1.27°C 1.1°C	Using Universal Calibrator By Direct Method

Mamta Bharti
Convenor

Avijit Das
Program Manager

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	R Type S Type	300°C to 1750°C 300°C to 1750°C	1.77°C 1.77°C	
II.	MEASURE			
1.	DC Current [#]	2 mA to 20 mA	0.7% to 0.12%	Using Universal Calibrator By Direct Method
2.	Time [#] (Stop Watch)	20 s to 3600 s	6 s	Using Digital Stop Watch By Comparison Method

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<u>MECHANICAL CALIBRATION</u>				
1.	PRESSURE INDICATING DEVICES			
1.	Hydraulic Pressure- Analog /Digital Pressure Gauge [#]	0 to 700 bar	0.42 bar	Using Digital Pressure Gauge, Hydraulic pump Based on DKD-R-6-1
2.	Pneumatic Pressure- Analog /Digital Pressure Gauge [#]	0 to 30 bar	0.08 bar	Using Digital Pressure Gauge, Pneumatic Pump Based on DKD-R-6-1
3.	Pneumatic Pressure- Analogue/ Digital Low Pressure Gauge, Digital Manometer [#]	0 to 1000 mbar	1.17 mbar	Using Digital Pressure Calibrator Using Low Pressure Polltech Air Pump, Based on DKD-R-6-1

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<u>THERMAL CALIBRATION</u>				
I.	TEMPERATURE			
1.	RTD/PT-100/ Thermocouples With or Without Indicator, Temperature Gauge #	50°C to 200 °C 200°C to 1000°C	1.20 °C 3.2°C	Using 4 Wire RTD & Read Unit Universal Calibrator By Comparison Method Using R Type Thermocouple & Read Unit Universal Calibrator By Comparison Method
2.	Indicator of Oven / Furnace/Baths at Single Specified Position#	50°C to 200 °C 200°C to 1000°C	1.20 °C 3.2°C	Using 4 Wire RTD & Read Unit Universal Calibrator By Comparison Method Using R Type Thermocouple & Read Unit Universal Calibrator By Comparison Method
II.	SPECIFIC HEAT & HUMIDITY			
1.	Digital Thermo-Hygrometers, Humidity Indicators\$	20 % RH to 90% RH @ 25°C 10 °C to 50°C @ 50% RH	2.8 % RH 0.8 °C	Using Digital Thermo-hygrometers and Humidity Chambers By Comparison Method

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

\$ Only in Permanent Laboratory

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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