

Laboratory Cal-Tech Solution, Plot No. X-280, Oswal Complex, Shop No. 10,
MIDC Waluj, Aurangabad, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2794 **Page** 1 of 4

Validity 06.08.2018 to 05.08.2020 **Last Amended on** -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>ELECTRO TECHNICAL CALIBRATION</u>				
I.	SOURCE			
1.	DC Voltage [#]	1 mV to 75 mV 0.1 V to 2 V 2 V to 20 V	0.004 mV to 0.015 mV 0.0006 V to 0.0007 V 0.0008 V to 0.004 V	Using Wahl C50 Multifunction Calibrator By Direct Method
2.	DC Current [#]	1 mA to 20 mA	0.003 mA to 0.007 mA	Using Wahl C50 Multifunction Calibrator By Direct Method
3.	Frequency [#]	10 Hz to 1000 Hz 1 kHz to 10 kHz	0.012 Hz to 0.161 Hz 0.006 kHz	Using Wahl C50 Multifunction Calibrator By Direct Method
4.	Resistance [#]	1 Ω to 400 Ω 400 Ω to 4000 Ω	0.036 Ω to 0.11 Ω 8.834 Ω	Using Wahl C50 Multifunction Calibrator By Direct Method
5.	Temp. Simulation [#] (Temp. Controller/ Indicator/ Recorder/ Data Logger/ Scanner)			Using Wahl C50 Multifunction Calibrator By Direct Method
	Thermocouple	0 to 1350°C	0.46°C	
	K Type	0 to 400°C	0.39°C	
	T Type	0 to 1200°C	0.45°C	
	J Type			
	RTD-PT 100	(-)200 °C to 800°C	0.27°C	

Shally Sharma
Convenor

Anuja Anand
Program Manager

Laboratory

Cal-Tech Solution, Plot No. X-280, Oswal Complex, Shop No. 10,
MIDC Waluj, Aurangabad, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number

CC-2794

Page

2 of 4

Validity

06.08.2018 to 05.08.2020

Last Amended on -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
II.	MEASURE			
1.	DC Voltage [#]	1 mV to 75 mV 0.1 V to 1 V 1 V to 20 V	0.006 mV to 0.016 mV 0.0004 V to 0.002 V 0.002 V to 0.006 V	Using Wahl C50 Multifunction Calibrator By Direct Method
2.	DC Current [#]	1 mA to 20mA	0.003 mA to 0.008 mA	Using Wahl C50 Multifunction Calibrator By Direct Method
3.	Frequency [#]	1kHz to 10 kHz	0.0006 kHz to 0.0061 kHz	Using Wahl C50 Multifunction Calibrator By Direct Method
4.	Resistance [#]	5 Ω to 400 Ω 400 Ω to 4000 Ω	0.013 Ω to 0.079 Ω 0.079 Ω to 0.73 Ω	Using Wahl C50 Multifunction Calibrator By Direct Method
5.	Temperature Simulation [#]			
	Thermocouple			
	K Type	(-) 200 °C to 1350°C	0.46°C	Using Wahl C50 Multifunction Calibrator By Direct Method
	T Type	(-) 50 °C to 400°C	0.45°C	
	J Type	(-) 200 °C to 1200°C	0.49°C	
	RTD-PT 100	(-) 200 °C to 800°C	0.34°C	
6.	Stop Watch [#]	6 sec to 3600 sec	0.8 sec to 3.4 sec	Using Digital Stop Watch by Comparison Method

Shally Sharma
Convenor

Anuja Anand
Program Manager

Laboratory Cal-Tech Solution, Plot No. X-280, Oswal Complex, Shop No. 10,
MIDC Waluj, Aurangabad, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2794

Page

3 of 4

Validity 06.08.2018 to 05.08.2020

Last Amended on -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I.	PRESSURE INDICATING DEVICES			
1.	Pressure-Pneumatic Pressure Gauges, Pressure Transmitter*	0 to 20 bar	0.07 bar	Using Master Digital Pressure Gauge By Comparison Method based on DKD-R-6-1
2.	Pressure- Hydraulic Pressure Gauges, Pressure Transmitter*	0 to 400 bar	0.52 bar	Using Master Digital Pressure Gauge By Comparison Method based on DKD-R-6-1
3.	Vacuum Gauges, Vacuum Transmitter*	(-) 0.8 bar to 0	0.014 bar	Using Master Digital Pressure Gauge By Comparison Method based on DKD-R-6-1

Shally Sharma
Convenor

Anuja Anand
Program Manager

Laboratory Cal-Tech Solution, Plot No. X-280, Oswal Complex, Shop No. 10, MIDC Waluj, Aurangabad, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2794

Page 4 of 4

Validity 06.08.2018 to 05.08.2020

Last Amended on -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>THERMAL CALIBRATION</u>				
I.	TEMPERATURE			
1.	RTD , Thermocouple Temperature Sensor (with/without indicator)/ Temperature Transmitter/ Temperature Gauge/ Digital Thermometer [#]	50 °C to 400 °C	0.40 °C	Using 4-wire Master RTD Sensor & Multifunction Calibrator with Dry Block Calibrator as a Source By Comparison Method
2.	Temperature Indicator with Sensor of Liquid Bath, Dry Block Bath [#]	50°C to 400 °C	0.54°C	Using 4-wire Master RTD Sensor & Multifunction Calibrator with Dry Block Calibrator as a Source By Comparison Method

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

* 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.

Shally Sharma
Convenor

Anuja Anand
Program Manager