

Laboratory IASC Sector Skill Council Calibration Lab, Syadwad Institute of Higher Education & Research, Delhi Road, Baghpat, Uttar Pradesh
Accreditation Standard ISO/IEC 17025: 2005
Certificate Number CC-2527 **Page** 1 of 2
Validity 18.01.2018 to 17.01.2020 **Last Amended on** -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
1.	PRESSURE INDICATING DEVICES			
1.	Pressure Gauge (Digital/Analog), Transducer with Indicator, Pressure Transmitter, Pressure Switch ^{\$}	2 bar to 35 bar 35 bar to 700 bar	0.1 % rdg 0.04 % rdg	Using Hydraulic Dead Weight Tester Direct/Comparison Based on DKD-R-6-1
2.	Pressure Gauge (Digital/Analog), Transducer with Indicator, Pressure Transmitter, Pressure Switch [#]	0 to 70 bar 0 to 700 bar	0.11 % rdg 0.06 % rdg	Using Digital Pressure Gauge with Hydraulic Comparator Direct/Comparison Based on DKD-R-6-1
3.	Pressure Gauge (Digital/Analog), Transducer with Indicator, Pressure Transmitter, Pressure Switch [#]	0 to 7 bar	0.0048 bar	Using Digital Pressure Gauge with Pneumatic Comparator Direct /Comparison Based on DKD-R-6-1
4.	Vacuum Gauge (Digital/Analog), Transducer with Indicator, Pressure Transmitter, Vacuum Switch [#]	(-) 0.85 bar to 0 bar	0.004 bar	Using Digital Vacuum Gauge with Pneumatic Comparator Direct /Comparison Based on DKD-R-6-1

Shally Sharma
 Convenor

Avijit Das
 Program Director

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<u>THERMAL CALIBRATION</u>				
I.	TEMPERATURE			
1.	RTD's, Thermocouples With & Without Indicator/ Datalogger/ Recorder, Temperature Gauges, Digital Thermometer, Temperature Transmitter #	50 °C to 250 °C 300 °C to 600 °C > 600 °C to 1200 °C	0.84 °C 2.0 °C 2.9 °C	Using RTD (PT-100), 4 Wire with Digital Thermometer using Dry Block Calibrator by Comparison Method Using R Type Thermocouple with Digital Thermometer Using Dry Block Furnace By Comparison Method
2.	Temperature Indicator of equipments like Oven, Environment Chamber, Incubator, Bod Incubator, Liquid Bath / Dry Block Furnaces/ Muffle Furnace # (Single Position Calibration)	50 °C to 250 °C 300 °C to 1200 °C	0.85 °C 2.93 °C	Using RTD (PT-100) 4 Wire with Digital Thermometer Using R Type Thermocouple with Digital Thermometer

* 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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