

Laboratory Upadhrish Reserchem LLP (Calibration Laboratory), Plot No. 7,
Sector -5, IIE, Sidcul Ranipur, Haridwar, Uttarakhand

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2870

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Validity 26.10.2018 to 25.10.2020

Last Amended on -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I. PRESSURE INDICATING DEVICES				
1.	Pressure Gauge/ Pressure Indicator/ Pressure Switch [#]	0 to 5 bar 0 to 10 bar 0 to 30 bar 0 to 250 bar 0 to 700 bar	0.007 bar 0.015 bar 0.036 bar 0.71 bar 0.82 bar	Using Digital Pressure Gauges By Comparison Method Based on DKD R 6-1
2.	Vacuum Gauge [#]	(-) 1 bar to 0	0.0059 bar	Using Digital Pressure Gauges By Comparison Method Based on DKD R 6-1,2
3.	Low Pressure Gauge/ Magnehelic Gauge/ Differential Gauge [#]	0 to 4.90 mbar 4.90 mbar to 49 mbar	0.012 mbar 0.057 mbar	Using Digital Pressure Gauges By Comparison Method Based on DKD R 6-1
II. SPEED AND ACCELERATION				
1.	Non-Contact Type Centrifuge/RPM Meter [#]	100 rpm to 1000 rpm 1000 rpm to 500 rpm	2.6 % rdg. 2.7% rdg.	Using Digital Tachometer
III. WEIGHING SCALE AND BALANCE				
1.	Weighing Balance [#] Resolution 0.001 mg Resolution 0.01 mg Resolution 0.1 mg	Up to 20 g Up to 80 g Up to 220 g	0.009 mg 0.033 mg 0.07 mg	Using E1 Class Set of Weights As per OIML R 76

Shally Sharma
Convenor

Anuja Anand
Program Manager

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<u>THERMAL CALIBRATION</u>				
I.	TEMPERATURE			
1.	Temperature Sensor (with or without Indicator)/ Glass Thermometer/Digital Thermometer/ Temperature Gauge [#]	(-) 25 °C to 50 °C 50 °C to 400 °C 400 °C to 600 °C	0.38 °C 0.51 °C 1.99 °C	Using 4 wire RTD PT-100 , S Type Thermocouple with Indicator, Digital Thermometer
2.	Temperature Indicator of Muffle Furnace / Furnace [#]	400°C to 1200°C	2.4 °C	Using S Type Thermocouple with Indicator (Single Point Calibration)
3.	Oven [#]	0 to 200 °C	2.0 °C	Using PT-100 RTD with Data Logger (Multipoint Calibration)
4.	Thermohygrometer/ Humidity Sensor with Indicator / USB Data Logger [#]	10 °C to 50 °C 30 %RH to 80%RH ~25 °C	0.40 °C 2.41 %RH	Using Humidity/ Temperature Sensor with Indicator

* 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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