

Laboratory Sri Gokul Cal Lab., No. 59, 59th B Cross, 4th N Block, Rajajinagar, Bangalore, Karnataka

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2445 Page 1 of 4

Validity 13.04.2018 to 12.04.2020 Last Amended on 04.07.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I. PRESSURE INDICATING DEVICES				
1.	Pressure - Hydraulic Pressure Gauges & Transmitters [#]	0 to 200 bar 200 bar to 700 bar	0.5 % of rdg. 0.75 % of rdg.	Using Digital Pressure Gauge By Comparison Method as per DKD-R-6-1
2.	Vacuum Digital and Dial Vacuum Indicator And Transducers [#]	(-) 0.8 bar to 0 bar	1.0 % of rdg.	Using Digital Pressure Gauge by Comparison Method as per DKD-R-6-1
3.	Pressure –Pneumatic Magnahelic Gauges/ Low Pressure Gauge [#]	0.009 bar to 0.09 bar	0.76 % of rdg.	Using Digital Manometer by Comparison Method as per DKD-R-6-1
4.	Pressure Gauges, Pressure Transmitters, Pressure Transducers [#]	0 to 10 bar 10 bar to 40 bar	0.72 % of rdg./ 0.73 % of rdg. 0.36 % of rdg.	Using Digital Pressure Gauge by Comparison Method as per DKD-R-6-1
II. ACCELERATION AND SPEED				
1.	Tachometer [#] (Contact Type)	100 rpm to 5000 rpm	0.06 %	Using Digital Tachometer with Variable DC Drive
2.	Tachometer & RPM Indicator [#] (Non-Contact Type)	100 rpm to 60000 rpm	0.04 %	Using Digital Tachometer by Comparison Method

Pankaj Varshney
Convenor

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Program Director

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
3.	RPM Meter of Centrifuges, RPM Indicator [*]	500 rpm to 5000 rpm	0.05 %	Using Digital Tachometer with Variable DC Drive
4.	Vibration Meter [§] Velocity Mm/s (rms) Acceleration m/s ²	80 Hz to 160 Hz 5 mm/s to 25 mm/s 5 m/s ² to 25 m/s ²	2.52 % 2.52 %	Using STD Digital Vibration Meter
III.	ACOUSTICS			
1.	Sound Level Meter, dB Meters, Noise Level Meter [§]	1 kHz 94 dB & 114 dB	0.77 dB	Using Std Sound Level Calibrator

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<u>THERMAL CALIBRATION</u>				
1.	TEMPERATURE			
1.	RTDs, Thermocouple, Digital Thermometer, Temperature Indicating Devices, Temperature Switch [§]	(-) 30 °C to 100 °C 100 °C to 400 °C 400 °C to 600 °C	0.50 °C 0.50 °C 0.50 °C	Using RTD, R Type Thermocouple, Dry Block Calibrators & Readouts Sika MC 50 & Paperless Recorder by Comparison Method
2.	RTDs, Thermocouple, Digital Thermometer, Temperature Indicating Devices*	(-)30 °C to 100 °C 100 °C to 400 °C 400 °C to 600 °C	0.5 °C 0.5 °C 0.5 °C	Using RTD, R Type Thermocouple, Dry Block Calibrators & Readouts Sika MC 50 & Paperless Recorder by Comparison Method
3.	Indicator Of Oil & Water Bath Low & High Temperature Bath, Dry Block Calibrators [§]	(-)30 °C to 100 °C 100 °C to 400 °C 400 °C to 600 °C 600 °C to 1000 °C	0.40 °C 0.49 °C 0.55 °C 1.50 °C	Using Multi RTD (PT100), Thermocouples with Paperless Recorder by Comparison Method
4.	Indicator of Oil & Water Bath Low & High, Temperature Bath, Deep Freezers, Incubator, Ovens, Thermal Shock Chambers, Furnace*	(-) 70 °C to 200 °C 100 °C to 400 °C 400 °C to 1000 °C	6.0 °C 5.0 °C 12.6 °C	Using Multi RTD (PT100), Thermocouples, with Paperless Recorder by Comparison Method

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II.	SPECIFIC HEAT AND HUMIDITY			
1.	Humidity Meters With Sensor, Dial / Digital Humidity Meters Hygrometer [#]	5 % RH at 25 °C 10 % RH to 90 % RH at 25 °C 95 % RH at 25 °C	0.35 % RH 1.65 % RH 1.2 % RH	Using Standard Temperature Humidity Meter by Comparison Method

* 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.

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