

Laboratory **Adept Advisors India Pvt. Ltd., 205B/3, Cosmos Commercial Complex, New Shahupuri, Kolhapur, Maharashtra**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **CC-2612 (In lieu of C-0811, C-0812, C-0813)** Page **1 of 3**

Validity **20.03.2018 to 19.03.2020** Last Amended on -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
<b><u>ELECTRO-TECHNICAL CALIBRATION</u></b>				
<b>I.</b>	<b>SOURCE</b>			
1.	Temperature Simulation* PT- 100 J Type Thermocouple K Type Thermocouple R Type Thermocouple S Type Thermocouple	(-)150 °C to 600°C 0 °C to 760°C (-)50 °C to 1300°C 900 °C to 1700°C 900 °C to 1700°C	0.34 °C 0.66 °C 1.16 °C 1.31 °C 1.34 °C	Using Temperature Calibrator-SIKA by Direct Method
<b>II.</b>	<b>MEASURE</b>			
1.	Time*	5 s to 999 s 999 s to 7200 s	0.7 s to 1.5 s 1.5 s to 8.6 s	Using Digital Timer by Comparison Method

**Rajeshwar Kumar**  
Convenor

**Avijit Das**  
Program Director

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<b><u>MECHANICAL CALIBRATION</u></b>				
<b>I.</b>	<b>PRESSURE INDICATING DEVICES</b>			
1.	Pressure –(Hydraulic) For Dial and Digital Pressure Gauge*	0 to 30 bar 30 to 700 bar	0.14 bar 1.7 bar	Using Digital Pressure Gauge. With hydraulic pump by Comparison method based on DKD-R-6-1
2.	Pressure – (Pneumatic) For Dial and Digital Pressure Gauge/pressure transmitter/switch*	0 to 40 bar	0.42 bar	Using Digital Pressure Gauge. With pneumatic pump by Comparison method based on DKD-R-6-1
3.	Negative Pressure – (Vacuum) For Dial & Digital Vacuum Gauges*	0 to -0.8 bar	0.07 bar	Using Digital Vacuum Gauge. With vacuum pump by Comparison method based on DKD-R-6-1

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<b><u>THERMAL CALIBRATION</u></b>				
<b>I.</b>	<b>TEMPERATURE</b>			
<b>1.</b>	RTD/TC Temperature Sensors With And Without Indicator*	(-)40 °C to 50°C  50 °C to 250°C  250 °C to 1000°C	0.40 °C  0.40 °C  2.5°C	Using RTD with indicator & Liquid bath by Comparison method UUC to Standard  Using R type TC with indicator & Dry well block by Comparison method UUC to Standard  Using R type TC with indicator & Dry well block by Comparison method UUC to Standard
<b>2.</b>	Freezer, Cold Chamber Oven, Furnace*	(-)40 °C to 250°C  250° C to 1000°C	5°C  8°C	Using PT-100 Type Sensors ( Minimum 9) with Multi channel data logger by comparison method  Using K- Type Thermocouples ( Minimum 9) with Multi channel data logger by comparison method

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

\* Only for Site Calibration

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