Small Industries Corporation Ltd., (A Govt. of India Enterprise), Sector B-24, Guindy Industrial Estate, Ekkaduthangal, Chennai,

Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2011 Page 1 of 5

(in lieu of C-0601, C-0602, C-0603)

Validity 27.02.2017 to 26.02.2019 Last Amended on --

SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks			
	ELECTRO-TECHNICAL CALIBRATION						
I.	SOURCE						
1.	DC Voltage	10 mV to 100 mV 100 mV to 50 V	0.50 % to 0.05 % 0.05 % to 0.08 %	Using AOIP Calys 1000 Multifunction Calibrator by Direct Method			
2.	DC Current	1 A to 20 mA	0.70 % to 0.1 %	Using AOIP Calys 1000 Multifunction Calibrator by Direct Method			
3.	Resistance	10 Ω to 4000 Ω	0.50 %	Using AOIP Calys 1000 Multifunction Calibrator by Direct Method			
4.	Temperature Simulation (Indicator Controller/ Recorder)						
	J Type Thermocouple	(-) 100 ° C to 1200 ° C	1.50 ° C	Using AOIP Calys 1000 Multifunction Calibrator by			
	S Type Thermocouple	170 ° C to 1500 ° C	1.50 ° C	Direct Method			
	RTD (PT-100)	(-) 100 ° C to 800 ° C	0.50 ° C				
II.	MEASURE						
1.	DC Voltage	10 mV to 100 mV 100 mV to 50 V	0.50 % to 0.46 % 0.46 % to 0.10 %	Using AOIP Calys 1000 Multifunction Calibrator by Direct Method			

Abhinav I	nakur
Conve	nor

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
2.	DC Current	1 mA to 20 mA	0.60 % to 0.10 %	Using AOIP Calys 1000 Multifunction Calibrator by Direct Method
3.	Resistance	10 Ω to 4000 Ω	0.20 % to 0.15 %	Using AOIP Calys 1000 Multifunction Calibrator by Direct Method
4.	Temperature Simulation (Indicator Controller/ Recorder)			
	J Type Thermocouple	(-) 100 ° C to 1500 ° C	1.50 ° C	Using AOIP Calys1000 Multifunction Calibrator by Direct Method
	S Type Thermocouple	170 ° C to 1500 ° C	1.50 ° C	
	RTD (PT-100)	(-) 100 ° C to 800 ° C	0.50 ° C	

Abhinav Thakur Convenor Avijit Das Program Director

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks			
	MECHANICAL CALIBRATION						
I.	PRESSURE INDICAT	NG DEVICES					
1.	Pressure-Hydraulic ⁵ (Dial, Digital Pressure Gauges/ Indicators, Pressure Transducers and Pressure Transmitter)	1 kg/cm ² to 30 kg/cm ² 30 kg/cm ² to 600 kg/cm ²	0.24 % 0.22 %	Using Hydraulic Dead Weight Tester Low Pressure 1 to 30 kg/cm ² High Pressure 10 to 600 kg/cm ² based on DKD-R6-1			
2.	Pressure-Hydraulic* (Industrial Dial, Digital Pressure Gauges/ Indicators, Pressure Switch and Pressure Transmitter)	0 kg/cm ² to 700 kg/cm	0.32 %	Using Digital Pressure Calibrator 0-700 & Hydraulic Pump based on DKD-R6:1			
3.	Pressure-Pneumatic ^s (Dial, Digital Pressure Gauges/ Indicators, Pressure Transducers and Pressure Transmitter)	1 kg/cm ² to 30 kg/cm ²	0.27 %	Using Pneumatic Pump & Digital Pressure Calibrator based on DKD-R6-1			

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
4.	Pressure- Pneumatic* (Dial, Digital Pressure Gauges/ Indicators, Pressure Transducers and Pressure Transmitter)	0 kg/cm ² to 30 kg/cm ²		Using Digital Pressure Calibrator 1 to 30 kg/cm ² & Pneumatic Pump based on DKD-R6-1

Abhinav Thakur Convenor Avijit Das Program Director

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
		THERMA	L CALIBRATION	
I.	TEMPERATURE			
1.	Temperature Sensor (RTD's Thermocouples and Thermisters with and without Indicator/ Controller and Temperature Gauges#	(-) 20 ° C to 100 ° C 100 ° C to 600 ° C 600 ° C to 1200 ° C 1200 ° C to 1400 ° C	0.67 ° C 1.65 ° C 5.1 ° C 5.1 ° C	Using RTD Pt-100, Thermocouple Type S, AOIP calys 1000 and Dry well by Comparison Method
2.	Temperature Baths, Oven [#]	(-) 20 ° C to 100 ° C 100 ° C to 600 ° C 600 ° C to 1200 ° C	0.67 ° C 1.65 ° C 5.1 ° C	Using RTD Pt-100, Thermocouple Type S, AOIP calys 1000 and high temperature by Comparison Method

^{*} Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95%

Abhinav Thakur Avijit Das
Convenor Program Director

^{\$}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.