

Laboratory

Eurotech Instruments & Calibration Lab, No. 30/8, Pillayar Kovil  
3<sup>rd</sup> Street, Ekkattuthangal, Guindy, Chennai, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number

CC-2570

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Validity

20.02.2018 to 19.02.2020

Last Amended on 05.03.2018

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 <sup>#</sup>			
	Thermocouple B-Type	950 °C to 1000 °C	1.45 °C	Using Multifunction Calibrator GE/DPI 880 By Direct Method
	Thermocouple E-Type	(-) 200 °C to 950 °C	1.3 °C	
	Thermocouple J-Type	(-) 190 °C to 1200 °C	0.67 °C	
	Thermocouple K-Type	(-) 160 °C to 1200 °C	0.86 °C	
	Thermocouple N-Type	0 °C to 1300 °C	1.3 °C	
	Thermocouple R-Type	150 °C to 1750 °C	1.47 °C	
	Thermocouple S-Type	170 °C to 1750 °C	2.1 °C	
	Thermocouple T-Type	(-) 130 °C to 400 °C	0.62 °C	
	RTD(PT-100)	(-) 200 °C to 800 °C	0.30 °C	
<b>II.</b>	<b>MEASURE</b>			
1.	Temperature Simulation <sup>#</sup>			
	Thermocouple B-Type	920 °C to 1800 °C	1.66 °C	Using Multifunction calibrator GE/DPI 880 by Direct Method
	Thermocouple E-Type	(-) 100 °C to 950 °C	1.15 °C	
	Thermocouple J-Type	(-) 190 °C to 1200 °C	0.77 °C	
	Thermocouple K-Type	(-) 160 °C to 1200 °C	0.86 °C	

Ashish Kakran  
Convenor

Avijit Das  
Program Director

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	Thermocouple N-Type	0 °C to 1300 °C	1.22 °C	
	Thermocouple R-Type	150 °C to 1750 °C	1.54 °C	
	Thermocouple S-Type	170 °C to 1750 °C	2.00 °C	
	Thermocouple T-Type	(-) 130 °C to 400 °C	0.64 °C	
	RTD(PT-100)	(-) 200 °C to 800 °C	0.35 °C	

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<b><u>MECHANICAL CALIBRATION</u></b>				
<b>I. WEIGHTS</b>				
1.	Standard Weights* (M1 class)	1 mg 2 mg 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g	0.10 mg 0.10 mg 0.11 mg 0.10 mg 0.14 mg 0.11 mg 0.20 mg 0.20 mg 0.20 mg 0.20 mg 0.20 mg 0.20 mg 0.20 mg 0.50 mg 0.50 mg 1.00 mg 2.00 mg	Using F1/F2 Class Std Weights & Electronic Weighing Balance as per OIML R-111
2.	Weighing Balance*	1 mg to 200 g	0.80 mg	Using F1/F2 Class Standard Weights as per OIML R-76-1
<b>II. PRESSURE INDICATING DEVICES</b>				
1.	Pressure Gauges (Pneumatic) #	0 to 20 bar	0.04%rdg	Using Digital Pressure Calibrator By Comparison Method as per DKD R6-1

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2.	Pressure Gauges (Hydraulic) <sup>#</sup>	0 to 700 bar	0.07%rdg	Using Pressure Calibrator By Comparison Method as Per DKD R6-1
3.	Vaccum Gauges <sup>#</sup>	(-) 0.90 bar to 0 bar	0.36 %rdg	Using Digital Pressure Calibrator By Comparison Method as per ISO 3567 & ISO 27893

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<b><u>THERMAL CALIBRATION</u></b>				
<b>I.</b>	<b>TEMPERATURE</b>			
1.	RTD Sensor Thermocouple, Temperature Indicator/ Controller with Sensor <sup>#</sup>	(-) 15° C to 150° C 150° C to 300° C	0.29° C 0.37° C	Using RTD PT 100 with Fluke Process Calibrator By Comparison Method
2.	Temperature Indicator/ Controller with sensor of Freezer, Incubator, Oven, Furnace, Chiller, Water Bath, Autoclave, Chamber <sup>*</sup>	(-) 80° C to 150° C 150° C to 300° C	0.99° C 1.0° C	Using RTD PT 100 with Fluke Process Calibrator By Comparison Method

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

<sup>§</sup> Only in Permanent Laboratory

<sup>^</sup> Only for Site Calibration

<sup>#</sup> 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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