

Laboratory Perfect Utilities, C/003 Elenza Crest, Shindhu Bhavan Road B/h Rajpath Club, Off S. G. Highway, Ahmedabad, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Discipline Thermal Calibration **Issue Date** 26.10.2015

Certificate Number C-0631 **Valid Until** 18.08.2016

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
I. TEMPERATURE			
1. Temperature Sensors with/ without indicators ^{\$}	-80°C to -20 °C	0.37 °C	Using Standard PRT with Fluke Indicator, Liquid Bath by Comparison Method
2. Glass Thermometers ^{\$}	-10°C to 100 °C	0.67 °C	Using Standard PRT with Fluke Indicator, Liquid Bath by Comparison Method
3. Temperature Sensors with/ without indicators [#]	$\geq -20^{\circ}\text{C}$ to 140 °C $\geq 140^{\circ}\text{C}$ to 400 °C	0.31 °C 0.63 °C	Using Standard PRT with Fluke Indicator, Dry Block by Comparison Method
4. Temperature Indication for Ovens, Freezers, chambers at single point*	-196°C 80°C to 400 °C	0.60 °C 0.60 °C	Using Standard PRT with Fluke Indicator, Liquid Bath by Direct Method
5. Thermal Mapping* (Oven, Freezer, Chamber)	- 80°C to 80 °C	0.84 °C	Using RTD Sensors with indicators & Multi points RTD Sensors with data logger

Ranjith Kumar
Convenor

Avijit Das
Program Manager

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II. SPECIFIC HEAT & HUMIDITY			
1. Thermo -hygrometer^{\$}			
Humidity:	22%,32%,55%,65%, 75%, 85%,95% @25°C	2.23 % RH	Using Standard Digital thermo hygrometer & seven nos. of RH Desiccators by Comparison Method
Temperature:	5°C to 50 °C	0.59 °C	Using Standard PRT with Fluke Indicator & BOD incubator by Comparison Method
2. Humidity Chamber mapping[*]	20% Rh to 95 % Rh	2.23 % Rh	Using Thermo hygro data loggers & Multi points thermo hygro data loggers

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

^{\$}Only in Permanent Laboratory

^{*}Only for Site Calibration

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