Laboratory	ICL Calibration and Testing Services, SCO- 37, Ground Floor, Sector-12, Panchkula, Haryana					
Accreditation Standard	ISO/IEC	17025:2005				
Discipline	Therma	Thermal Calibration			20.11.2014	
Certificate Number	C-0382			Valid Until	19.11.2016	
Last Amended on	-			Page	1 of 2	
Quantity Measured Instrument	1	Range / Frequency	*Calibration Measurement Capability (±)	Remarks		
I. TEMPERATURE						
1. RTD's, Thermocouples wi without Indicator / Data lo Recorder, Temperature g Glass thermometer, Digita thermometer, Temperature	th and ogger / auge, il	(-) 30 °C to 50 °C 50 °C to 300 °C 300 °C to 1000 °C	1.4 °C 1.2 °C 2.8 °C	Using 4-wire RTD & 6.5 DMM, oil bath, low temperature bath and dry block furnace by Comparison Method		
transmitter, Temperature Controllers [#]	-	1000 °C to 1200 °C	3.5 °C	Using S-type the 6.5 DMM usin furnace by Comp	rmo-couple and ng dry block parison Method	
2. Calibration of liquid bath block furnaces, Freezers / Incubator, BOD incubator Centrifugal chamber, Environment chamber, Autoclave [#]	/ dry Oven, ·,	(-) 30 °C to 200 °C	2.0 °C	Using RTD with data logger / scanner and mini wireless data loggers by Multipoint calibration		
3. Temperature indicators of bath / dry block furnace, I Oven/ Incubator, BOD ind Centrifugal chamber, Environment chamber, Autoclave [#]	f liquid Freezer/ subator,	(-) 50 °C to 300 °C	0.6 °C	Using RTD with digital multi meter by Single position calibration		
4. Temperature indicators of block furnace, Muffle furn	f dry nace [#]	300 °C to 1000 °C 1000 °C to 1200 °C	3.0 °C 3.0 °C	Using S-type thermocouple and indicator & 6.5 DMM by Single position calibration		
5. Calibration of Oven/ temp furnace , dry block furnac	erature e [#]	200 °C to 1000 °C	4.5 °C	Using nine thermocouple N & K type and data logger scanner by Multipoint calibration		

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	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
6.	Calibration of liquid bath / dry block furnaces, Freezers / Oven, Incubator, BOD incubator, Centrifugal chamber, Environment chamber, Cold room, Hot room, Autoclave*	(-) 30 °C to 200 °C	2.0 °C	Using RTD with data logger / scanner & mini wireless data loggers by Multipoint calibration
7.	Temperature indicators of liquid bath/ Dry block furnace, Freezer/ Oven/ Incubator, BOD incubator, Centrifugal chamber, Environment chamber, Cold room, Hot room, Autoclave*	(-) 50 °C to 300 °C	0.6 °C	Using RTD with digital multi meter by Single position calibration
II	RELATIVE HUMIDITY			
1.	Digital/analog hygrometer, RH sensors, with transmitter /indicator/ Data logger/ Scanner [#]	20 % RH to 90 % RH @ $\approx 25 \ ^{\circ}{\rm C}$	2.5 % RH @ ≈ 25 °C	Using Digital temp./humidity indicator with sensors using humidity generator with chamber by Comparison Calibration
2.	Humidity indicator of humidity chamber, Environment chamber/ Generator [#]	20 % RH to 90 % RH @ ≈ 25 °C	2.6 % RH @ ≈ 25 °C	Using Digital temp./ humidity indicator with sensors/ mini wireless data logger by Single point calibration
3.	Calibration of Humidity chamber, Environment chamber [#]	20% RH to 90 % RH $@ \approx 25 \text{ °C}$	4.0 % RH @ ≈ 25 °C	Using Nine mini wireless data loggers by Multipoint calibration

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

*****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.