Laboratory	HTA Nea	HTA Instrumentation Pvt. Ltd., 73, Rama Chandra Agrahara, Near T. R. Mills, Chamarajpet, Bangalore, Karnataka ISO/IEC 17025: 2005				
Accreditation Standard	d ISO/					
Discipline	The	rmal Calibration	Issue Date	24.07.2014		
Certificate Number	C-06	C-0618		Valid Until 23.07.201		
Last Amended on	30.0	7.2014		Page 1 of 4 Remarks		
Quantity Measured Instrument	3/	Range / Frequency	*Calibration Measurement Capability (±)			
I. TEMPERATURE						
1. RTD/ THERMOCOU	PLE ^{\$}	-90° C to 550 ° C	0.6 ° C	Using Reference Thermometer Fluke 1523 with Fluke 5626 SPRT Sensor, Dry Block Calibrator & Field Metrology Dry Well Fluke 9190A as a Source By Comparison Method		
		550° C to 1000 ° C	3.60 ° C	Using Th Thermome 2108.1 w Thermocoupl Calibrato By Compa	ermocouple ter Delta Ohm ith "R" Type e and Dry Block r as a Source rison Method	
2. TEMPERATURE INDICATOR WITH SENS	SENSOR ^{\$}	-90° C to 550 ° C	0.6 ° C	Using Referer Fluke 1523 v SPRT Sens Calibrator & Dry Well Fl So By Compa	ice Thermometer with Fluke 5626 or, Dry Block Field Metrology uke 9190A as a ource rison Method	
		550° C to 1000 ° C	3.60 ° C	Using Th Thermome 2108.1 w Thermocoupl Calibrato By Compa	ermocouple ter Delta Ohm ith "R" Type e and Dry Block r as a Source rison Method	
Avijit Das Program Manager				Sangeet Con	a Kunwar venor	

aboratory HTA Instrumentation Pvt. Ltd., 73, Rama Chandra Agrahara, Near T. R. Mills, Chamarajpet, Bangalore, Karnataka					
Accreditation Standard	ISO/IEC 17025: 2005				
Discipline	Thermal Calibration C-0618		Issue Date	24.07.2014	
Certificate Number			Valid Until	23.07.2016	
Last Amended on	30.07.2014		Page2 of 4RemarksUsing Reference ThermometerFluke 1523 with Fluke 5626SPRT Sensor, Dry BlockCalibrator & Field MetrologyDry Well Fluke 9190A as a Source.By Comparison MethodUsing IR Calibrator with SPR Thermometer Delta ohm HD 2307.0. By Comparison Method		
Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)			
3. TEMPERATURE GAUGE	● 0° C to 550 ° C	1.3º C			
4. INFRARED CALIBRATO	R^{\$} 50° C to 350 ° C	3.40 ° C			
5. TEMPERATURE GAUGE	• 0° C to 140 ° C	1.20° C	Using Digital Thermometer Delta ohm 2307.0 with SPRT Sensor and Metrology Well Fluke 9170. By Comparison Method		
	140° C to 350 ° C	1.33º C	Using Digita Delta ohm 23 Sensor an Calibrator. I M	al Thermometer 307.0 with SPRT ad Dry Block By Comparison ethod	
	350° C to 550 ° C	2.75° C	Using Th Thermometer I with "S" Typ and Dry Bloc Compari	nermocouple Delta ohm 2128.2 e Thermocouple ek Calibrator. By son Method	

La	boratory	HTA Instrumentation Pvt. Ltd., 73, Rama Chandra Agrahara, Near T. R. Mills, Chamarajpet, Bangalore, Karnataka			a,
Ac	creditation Standard	ISO/IEC 17025: 2005			
Discipline		Thermal Calibration	Issue Date	24.07.2014	
Certificate Number		C-0618	Valid Until	23.07.2016	
La	st Amended on	30.07.2014		Page 3 of 4	
	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks	
6.	TEMPERATURE INDICA WITH SENSOR*	ATOR -40° C to 140 ° C	0.35° C	Using Digital Thermometer Delta ohm 2307 with SPRT Sensor and Metrology Well Fluke 9170 as a source. By Comparison Method Using Digital Thermometer Delta ohm 2307 with SPRT Sensor and Dry Block Calibrator as a source. By Comparison Method	
		140° C to 350 ° C	0.67º C		
		350° C to 550 ° C	2.6° C	Using Th Thermomet 2128.2 w Thermocouple Calibrator a Comparis	ermocouple er Delta ohm ith "S" type e and Dry Block s a Source. By son Method
		550° C to 1000 ° C	3.52° C	Using Th Thermometer I with "S" type and Dry Block Source. By Con	ermocouple Delta ohm 2307.0 Thermocouple k Calibrator as a mparison Method
7.	RTD/ THERMOCOUPLE	-40° C to 140 ° C	0.53° C	Using Digita Delta ohm 2 Sensor and M Fluke 9170 Comparis	l Thermometer 307 with SPRT Aetrology Well as a source. By son Method

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Certificate Number	C-0618		Valid Until	23.07.2016
Last Amended on	30.07.2014		Page	4 of 4
Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks Using Digital Thermometer Delta ohm 2307 with SPRT Sensor and Dry Block Calibrator as a source. By Comparison Method	
	140° C to 350 ° C	0.79° C		
	350° C to 550 ° C	2.5° C	Using Th Thermometer I with "S" type and Dry Bloc Source. By Co	ermocouple Delta ohm 2128.2 e Thermocouple k Calibrator as a mparison Method
	550° C to 1000 ° C	3.47º C	Using Th Thermometer I with "S" type and Dry Bloc Source. By Co	ermocouple Delta ohm 2128.2 e Thermocouple k Calibrator as a mparison Method

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

*****Only for Site Calibration