



NABL

National Accreditation Board for Testing and Calibration Laboratories

Department of Science & Technology, India

CERTIFICATE OF ACCREDITATION

NORTHLAB (INDIA) PVT. LTD.

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

CHENNAI

in the field of

THERMAL CALIBRATION

Certificate Number C-0197

Issue Date 17/05/2010

Valid Until 16/05/2012

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the additional requirements of NABL.

Signed for and on behalf of NABL


Alok Jain

Convenor


Anil Relia

Director


Dr T. Ramasami

Chairman



रा.प्र.प्र.बो.

राष्ट्रीय परीक्षण और अंशशोधन
प्रयोगशाला प्रत्यायन बोर्ड
विज्ञान एवं प्रौद्योगिकी विभाग, भारत

प्रत्यायन प्रमाण-पत्र

नार्थलैब (इण्डिया) प्राइवेट लिमिटेड

का मूल्यांकन और प्रत्यायन निम्न मानक के अनुसार

आई.एस.ओ./आई.ई.सी. 17025:2005

“परीक्षण एवं अंशशोधन प्रयोगशालाओं की सक्षमता की सामान्य अपेक्षाएँ”

चेन्नई

में स्थित इसकी सुविधाओं के लिए

तापीय अंशशोधन

के क्षेत्र में किया गया।

प्रमाण-पत्र संख्या **अ-0197**
जारी करने की तिथि **17/05/2010**

वैधता की तिथि **16/05/2012**

यह प्रमाण-पत्र उपर्युक्त मानक तथा राष्ट्रीय परीक्षण और अंशशोधन प्रयोगशाला प्रत्यायन बोर्ड की अतिरिक्त अपेक्षाओं का निरंतर संतोषप्रद अनुपालन किए जाने पर अनुबंध में निर्दिष्टानुसार प्रत्यायन के क्षेत्र के लिए वैध रहेगा।

रा.प्र.प्र.बो. की ओर से हस्ताक्षरित

अनिल रेलिया

अनिल रेलिया

निदेशक

डा. टी. रामसामी

डा. टी. रामसामी

अध्यक्ष

आलोक जैन

आलोक जैन

संयोजक



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Department of Science & Technology, India

SCOPE OF ACCREDITATION

Laboratory	NorthLab (India) Pvt. Ltd., Chennai		
Accreditation Standard	ISO/IEC 17025:2005		
Field	Thermal Calibration	Issue Date	17.05.2010
Certificate Number	C-0197	Valid Until	16.05.2012
Last Amended on	-	Page	1 of 4

Quantity Measured / Instrument	Range	* Calibration Measurement Capability (\pm)	Remarks
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AT LABORATORY

TEMPERATURE

1. RTD Sensor with / without Indicator, Thermocouple Sensor with/without Indicator, Thermistor Sensor with/without Indicator, Glass Thermometer, Temperature Baths, Ovens, Furnaces, Freezers, Capillary Thermometers, Bi-Metallic Thermometers, Data Loggers, Recorders, Temperature Switch, Temperature Transmitter.	-80°C to -20°C	0.37°C	By using Liquid Bath/Std PRT(5627-12) / DMM HP 3458A
	-20°C to 80°C	0.06°C	By using Hart Bath/Std PRT(5627-12) / DMM HP 3458A
	80°C to 300°C	0.38°C	By using Silicon Oil Bath / Std PRT(5626) / DMM HP 3458 A
	300°C to 660°C	0.44°C	By using Dry Block/Std PRT(5626) / DMM HP 3458 A
	660°C to 1100°C	2.6°C	By using Dry Block Calibrator/Std Type-S TC / DMM HP 3458A
2. Infrared Thermometers	1100°C to 1200°C	2.6°C	By using Dry Block Calibrator/Std Type-S TC / DMM HP 3458A
	50°C to 200°C	3.3°C	By using Infrared Thermometer (Raytek) / Black Body Calibrator (Hart)
	200°C to 1100°C	3.1°C	By using Std S-Type T/C (Isotech) / Dry Block Calibrator (TC 1200) / DMM HP 3458A
	1100°C to 1200°C	4.2°C	By using Std S-Type T/C (Isotech) / Dry Block Calibrator (TC 1200) / DMM HP 3458A



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HUMIDITY

3. Digital/Analog Thermohygrometers, Thermohygrographs, Data Logger & Transmitter, Digital / Analog Hygrometer, Hygrographs.	0.5% R.H.	0.3% R.H.	By using Humidity Standard Solution (Rotronic AG)
	5 % R.H., 10% R.H.	0.3% R.H.	By using Humidity Standard Solution (Rotronic AG)
	11.3% R.H.	0.3% R.H.	By using Humidity Standard Solution (Rotronic AG)
	20% R.H.	0.3% R.H.	By using Humidity Standard Solution (Rotronic AG)
	35% R.H.	0.6% R.H.	By using Humidity Standard Solution (Rotronic AG)
	50% R.H.	1.0% R.H.	By using Humidity Standard Solution (Rotronic AG)
	65% R.H.	1.0% R.H.	By using Humidity Standard Solution (Rotronic AG)
	75.3% R.H.	1.2% R.H.	By using Humidity Standard Solution (Rotronic AG)
	80%R.H., 95% R.H.	1.2% R.H.	By using Humidity Standard Solution (Rotronic AG)
	30%R.H. to 95% R.H.	2.5% R.H.	By using Rotronic Humidity Probe with Humidity Chamber



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AT SITE

TEMPERATURE

4. RTD Sensor With / Without Indicator, Thermocouple Sensor With/Without Indicator, Thermistor Sensor With/Without Indicator, Glass Thermometer, Temperature Baths, Ovens, Furnaces, Freezers, Capillary Thermometers, Bi-Metallic Thermometers, Data Loggers, Recorders, Temperature Switch, Temperature Transmitter.	-80°C to -20°C	0.37°C	By using Liquid Bath/Std PRT(5627-12) / HP 3458A
	-20°C to 80°C	0.06°C	By using Hart Bath/Std PRT(5627-12) / HP 3458A
	80°C to 300°C	0.38°C	By using Silicon Oil Bath / Std PRT(5626) / HP 3458A
	300°C to 660°C	0.44°C	By using Dry Block / Std PRT(5626) / HP 3458A
	660°C to 1100°C	2.6°C	By using Dry Block Calibrator / Std Type-S TC / HP 3458A
	1100°C to 1200°C	2.6°C	By using Dry Block Calibrator/ Std Type-S TC / HP 3458A

HUMIDITY

5. Digital/Analog Thermohygrometers / Thermohygrographs, Digital / Analog Hygrometer / Hygrographs, Humidity Sensor / Datalogger / Transmitter	0.5 % R.H.	0.3 % R.H.	By using Humidity Standard Solution (Rotranic AG)
	5 % R.H., 10% R.H.	0.3 % R.H.	
	11.3% R.H.	0.3 % R.H.	
	20% R.H.	0.3 % R.H.	
	35 % R.H.	0.6 % R.H.	
	50 %R.H.	1.0 % R.H.	
	65 %R.H.	1.0 % R.H.	
	75.3 %R.H.	1.2 % R.H.	
	80%R.H., 95 %R.H.	1.2 % R.H.	
	5%R.H. to 95 % R.H.	2.5 % R.H.	

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6. Humidity Profiling Humidity Chamber, Environmental Chamber	10%R.H. to 95 % R.H.	3.4 % R.H.	By using Humidity Probe (Hygroclib S1)
7. Thermal Profiling Freezer, Ovens / Furnace, Bath, Environmental Chamber	-80°C to 200°C 200°C to 600°C 600°C to 1100°C 1100°C to 1200°C	2.2 °C 2.1 °C 4.0 °C 5.9 °C	By using Keithley Data Logger and Thermocouples (KE2700)

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