



NABL

National Accreditation Board for Testing and Calibration Laboratories

(An Autonomous Body under Department of Science & Technology, Govt. of India)

CERTIFICATE OF ACCREDITATION

ELECTRONICS REGIONAL TEST LABORATORY (WEST)

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

STQC Directorate, Department of Information Technology, Plot No. F 7 & 8, MIDC Area, Andheri East, Mumbai, Maharashtra

in the discipline of
THERMAL CALIBRATION

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Certificate Number C-0108

Issue Date 02/01/2015



Valid Until 01/01/2017

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

Avijit Das
Program Manager

Anil Relia
Director

Prof. Ashutosh Sharma
Chairman



रा.प्र.प्र.बो.

राष्ट्रीय परीक्षण और अंशशोधन प्रयोगशाला प्रत्यायन बोर्ड

(विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार के अधीन स्वायत्तशासी निकाय)

प्रत्यायन प्रमाण-पत्र

इलेक्ट्रॉनिकी क्षेत्रीय परीक्षण प्रयोगशाला (पश्चिम)

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”

मुम्बई, महाराष्ट्र

में स्थित इसकी सुविधाओं के लिए

तापीय अंशशोधन

के विषय क्षेत्र में किया गया।

(इस प्रयोगशाला के प्रत्यायन के विषय क्षेत्र की जानकारी एन ए बी एल वेबसाइट www.nabl-india.org से भी प्राप्त कर सकते हैं)

प्रमाण-पत्र संख्या अ-0108

जारी करने की तिथि 02/01/2015



वैधता की तिथि 01/01/2017

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

अ. दास

अविजित दास

अनिल रेलिया

अनिल रेलिया

निदेशक

आशुतोष शर्मा

प्रो. आशुतोष शर्मा

अध्यक्ष



NABL

SCOPE OF ACCREDITATION

Laboratory Electronics Regional Test Laboratory (W), STQC Directorate, Department of Information Technology, Plot No. F 7 & 8, MIDC Area, Andheri East, Mumbai, Maharashtra

Accreditation Standard ISO/IEC 17025:2005

Discipline Thermal Calibration

Issue Date 02.01.2015

Certificate Number C-0108

Valid Until 01.01.2017

Last Amended on 23.02.2015

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Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability (\pm)	Remarks
I. TEMPERATURE			
1. FIXED POINT CALIBRATION SPRT, RTD^s	Triple Point of water Melting Point of Ga Melting Point of Sn Melting Point of Zn Melting Point of Al Triple Point of Hg Boiling Point of LN ₂	3.0 mK 4.0 mK 3.8 mK 5.5 mK 6.0 mK 5.0 mK 7.0 mK	Using Fixed Point Cells (Mini) & AC Thermometry Bridge and Liquid Nitrogen apparatus, SPRT and ASL Bridge
2. LIQUID-IN-GLASS THERMOMETER^s	-80 °C to 250 °C	0.07 °C	Using PRT with Black Stack Temperature Indicator and Oil bath, Cold bath (Methanol), DTI
3. RTD, THERMOCOUPLES, DTI OF CHAMBERS, FREEZER, TEMPERATURE INDICATOR WITH SENSORS, FURNANCE, BATHS^s	-80 °C to 250 °C 250 °C to 600 °C	0.05 °C 0.10 °C	Using PRT with Black Stack Temperature Indicator and Oil bath, Cold bath (Methanol), Dry Blocks, DTI
4. THERMOCOUPLES, DTI WITH THERMOCOUPLE AND SENSORS^s	300 °C to 1100 °C	1.53 °C	Using PRT/Thermocouple with Black Stack Temperature Indicator and Dry Block Furnace

Vishal Shukla
Convenor

Avijit Das
Program Manager



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SCOPE OF ACCREDITATION

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Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability (\pm)	Remarks
5. RTD, THERMOCOUPLES, DTI WITH SENSORS, BATHS, FURNANCES, OVENS, DEEP FREEZERS*	-25 °C to 600 °C	0.3 °C	Using PRT with Black Stack Temperature Indicator by Single Position
6. CLIMATIC TEST CHAMBERS* (TEMPERATURE)	-80 °C to 300 °C	0.6 °C	Using Class A, PT-100 Sensors (Nine nos) & DTI by Multipoint calibration
II. HUMIDITY			
1. RH & TEMPERATURE INDICATORS WITH SENSORS, HYGROMETERS RH/DTI OF CHAMBERS ⁵	20 % RH to 97 % RH @ Temperature range (10° to 55 °C)	1 % RH 0.2 °C	Using 2500 Humidity Generator & RH Indicator and Humidity Generator, Thunder Scientific
2. CLIMATIC TEST CHAMBERS*	20 % RH to 97 % RH @ Temperature range (20° to 55 °C)	1.5 % RH 0.3 °C	RH Temperature Indicator with Sensor by Single Position

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

⁵ Only in Permanent Laboratory

* Only for Site Calibration

Vishal Shukla
Convenor

Avijit Das
Program Manager