



# NABL

## National Accreditation Board for Testing and Calibration Laboratories

Department of Science & Technology, India

### CERTIFICATE OF ACCREDITATION

#### YOUNG ENGINEERING & CALIBRATION SERVICES 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

Kamardanga Road, Ichapur, Howrah, West Bengal

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](http://www.nabl-india.org))

**Certificate Number** C-0535

**Issue Date** 20/03/2014



**Valid Until** 19/03/2016

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

Shally Sharma  
Convenor

Anil Relia  
Director

Prof. K. VijayRaghavan  
Chairman





# रा.प्र.प्र.बो.

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

प्रत्यायन प्रमाण-पत्र

यंग इंजीनियरिंग एंड कैलिब्रेशन सर्विसेस् प्रा. लि.

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”

हावड़ा, पश्चिम बंगाल

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](http://www.nabl-india.org) से भी प्राप्त कर सकते हैं)

प्रमाण-पत्र संख्या अ-0535

जारी करने की तिथि 20/03/2014



वैधता की तिथि 19/03/2016

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

शैली शर्मा

शैली शर्मा  
संयोजक

अनिल रेलिया

अनिल रेलिया  
निदेशक

के विजयराघवन

प्रो. के. विजयराघवन  
अध्यक्ष





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## SCOPE OF ACCREDITATION

Laboratory	Young Engineering & Calibration Services Pvt. Ltd., Kamardanga Road, Ichapur, Howrah, West Bengal		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Thermal Calibration	Issue Date	20.03.2014
Certificate Number	C-0535	Valid Until	19.03.2016
Last Amended on	12.09.2014	Page	1 of 3

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
<b>I. TEMPERATURE</b>			
1. GLASS THERMOMETER <sup>S</sup>	(-) 80°C to 30°C	0.15 °C	Using Standard SSPRT with Standard Data Aqs. System
	>30°C to 250°C	0.15 °C	
	>250°C to 450°C	0.25 °C	
GLASS THERMOMETER*	(-) 10°C to 250°C	0.32 °C	
2. RTD, THERMOCOUPLE, TEMP. INDICATOR / CONTROLLER / RECORDER WITH SENSOR, DIG. THERMOMETER, TEMP. GAUGE, TEMP. SWITCH, TEMP. INDICATOR / CONTROLLER / RECORDER WITH SENSOR OF BLOCK FURNACE / BATH / OVEN/ <sup>#</sup>	(-) 196°C	0.15 °C	Using Standard SSPRT with Standard DMM & 'R' Type Thermocouple
	-80°C to 100°C	0.15 °C	
	>100°C to 300°C	0.31 °C	
	>300°C to 600°C	0.36 °C	
	>600°C to 1200°C	2.40 °C	
3. NON CONTACT TYPE TEMPERATURE INDICATOR / CONTROLLER / RECORDER <sup>#</sup>	50° C to 300° C	2.1 °C	Using Standard Pyrometer & Black Body Furnace
	>300° C to 600° C	3.52 °C	
	>600°C to 1200° C	8.36 °C	

Avijit Das  
Program Manager

Shally Sharma  
Convenor





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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
4. THERMOCOUPLE, TEMP. INDICATOR / CONTROLLER / RECORDER WITH SENSOR, DIG. THERMOMETER, TEMP. GAUGE, TEMP. SWITCH, TEMP. INDICATOR / CONTROLLER / RECORDER WITH SENSOR OF BLOCK FURNACE / BATH / OVEN*	>1200°C to 1500°C	4.41 °C	Using Standard RTD Sensors, 'R' Type, Data Acquiescing System
5. TEMP. CALIBRATION OF THERMAL CHAMBER (DEEP FREEZER, REFRIGERATOR, INCUBATOR, AUTOCLAVE, AIR OVEN, FURNACE, TEMP.BATH ETC.)#	(-)196°C to (-) 80°C (-) 80°C to 100°C > 100°C to 350°C >350°C to 1200°C >1200°C to 1500°C	0.31 °C 0.15 °C 0.40 °C 2.82 °C 4.41 °C	Using SSPRT, RTD/ 'R' Type Thermocouple with Std. Data Aqs. System (Multi point calibration)
6. TEMP. CALIBRATION OF THERMAL CHAMBER (DEEP FREEZER, REFRIGERATOR, INCUBATOR, AUTOCLAVE, AIR OVEN, FURNACE, TEMP.BATH ETC.)*	>1200°C to 1500°C	4.41 °C	Using SSPRT, RTD/ 'R' Type Thermocouple with Std. Data Aqs. System (Multi point Calibration)

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
<b>II. HUMIDITY</b>			
1. RELATIVE HUMIDITY / DIGITAL & ANALOGUE HUMIDITY INDICATOR / HUMIDITY CHAMBER <sup>#</sup>	15% RH to 95% RH	2.12% RH	Using Standard Humidity Indicator & Humidity Generator

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

<sup>s</sup>Only in Permanent Laboratory.

\*Only for Site Calibration.

<sup>#</sup> The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.

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Program Manager

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