



# NABL

## National Accreditation Board for Testing and Calibration Laboratories

Department of Science & Technology, India

### CERTIFICATE OF ACCREDITATION

#### **AUTHENTIC INSTRUMENT & AUTOMATION 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

31, RIICO, Industrial Area, Jhotwara, Jaipur

in the discipline of

**ELECTRO-TECHNICAL 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-0686

**Issue Date** 13/04/2013



**Valid Until** 12/04/2015

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

Bibin Philip

Convenor

Anil Relia

Director

Dr. T. Ramasami

Chairman



# NABL

**Department of Science & Technology, India**

## SCOPE OF ACCREDITATION

Laboratory	Authentic Instrument & Automation Pvt. Ltd., 31, RIICO, Industrial Area, Jhotwara, Jaipur		
Accreditation Standard	ISO/IEC 17025:2005		
Discipline	Electro-Technical Calibration	Issue Date	13.04.2013
Certificate Number	C-0686	Valid Until	12.04.2015
Last Amended on	-	Page	4 of 4

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
16 COUNTER METER <sup>3</sup>	10 Counts to 1000 Counts	2 Counts	Using Time Calibrator/ Counter Calibrator by Comparison Method
17 AC HIGH VOLTAGE TESTER <sup>2</sup>	>1kV to 25 kV	2.05% to 1.76%	Using High Voltage Probe Fluke with Fluke Multimeter by Comparison Method
18 DC HIGH VOLTAGE TESTER <sup>2</sup>	>1kV to 3 kV	3.07% to 2.04%	Using High Voltage Probe Fluke with Fluke Multimeter by Comparison Method

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

<sup>1</sup> Only in Permanent Laboratory

<sup>2</sup> Only for Site Calibration

<sup>3</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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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
10 POWER/ ENERGY <sup>3</sup>	1 $\Phi$ / 3 $\Phi$ , 50 Hz Upto 230 V/5A 1 to 0.5 PF (Lag/Lead)	1%	Using Power/ Energy Meter Calibrator by Direct Method
<b>MEASURE</b>			
11 AC VOLTAGE <sup>3</sup>	50 Hz 10 mV to 1V 1 V to 750 V	0.8% to 0.13% 0.13%	Using 6 ½ Digit Multimeter by Direct Method
12 DC VOLTAGE <sup>3</sup>	1mV to 1V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	0.06% 0.06% to 0.6% 0.60% 0.6% to 0.06%	Using 6 ½ Digit Multimeter by Direct Method
13 AC CURRENT <sup>3</sup>	50 Hz 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 10 A	0.63% 0.63% to 0.2% 0.2% to 0.7% 0.70%	Using 6 ½ Digit Multimeter by Direct Method
14 DC CURRENT <sup>3</sup>	100 $\mu$ A to 100 mA 100 mA to 1 A 1A to 10 A	0.11% 0.11% to 0.6% 0.6% to 0.7%	Using 6 ½ Digit Multimeter by Direct Method
15 TIME <sup>3</sup>	1 s to 3600 s	1.17% to 0.11%	Using Time Calibrator/ Counter Calibrator by Comparison Method

  
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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
6 RESISTANCE <sup>3</sup> 4 Wire	1 m $\Omega$ 10 m $\Omega$ 100 m $\Omega$	1.15% 1.15% 1.51%	Using Micro Ohm Box by Direct Method
2 Wire	1 $\Omega$ to 100 $\Omega$ 100 $\Omega$ to 1 M $\Omega$ 1 M $\Omega$ to 900 M $\Omega$ 2 G $\Omega$ 20 G $\Omega$	3.2% to 1.15% 1.16% 1.16% 6% 6.10%	Using Decade Standard Resistance Box by Direct Method
7 CAPACITANCE <sup>3</sup>	1 kHz 10 pF to 10 $\mu$ F	2.58%	Using Standard Capacitance Box by Direct Method
8 INDUCTANCE <sup>3</sup>	1 kHz 30 $\mu$ H to 9H	1.40%	Using Standard Inductance Box by Direct Method
9 TEMPERATURE SIMULATION <sup>3</sup> (Indicator/ Controller/ Recorder) J Type K Type RTD Type (PT-100)	-200°C to 1100°C -200°C to 1200°C -200°C to 800°C	0.24% 0.15% 0.4% to 0.34%	Using Temperature Calibrator by Direct Method

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks	
<b>SOURCE</b>				
1 AC VOLTAGE <sup>1</sup>	50 Hz			
	10 mV to 200 mV	0.83% to 0.5%	Using 5½ Digit Multifunction Calibrator by Direct Method	
	200 mV to 2 V	0.5% to 0.4%		
	2 V to 200V	0.40%		
200 V to 1000 V	0.4% to 0.23%			
2 DC VOLTAGE <sup>1</sup>	10 mV to 200 mV	0.66% to 0.35%	Using 5½ Digit Multifunction Calibrator by Direct Method	
	200 mV to 2 V	0.35% to 0.2%		
	2 V to 20 V	0.2% to 0.15%		
	20 V to 200 V	0.20%		
3 AC CURRENT <sup>1</sup>	50 Hz			
	0.2 mA to 2 mA	3% to 0.70%	Using 5½ Digit Multifunction Calibrator by Direct Method	
	2 mA to 20 mA	0.70% to 0.45%		
	20 mA to 200 mA	0.45% to 0.35%		
	200 mA to 2 A	0.35% to 0.41%		
2 A to 10 A	0.41% to 0.35%			
4 DC CURRENT <sup>1</sup>	10 A to 100 A	0.35% to 2.4%	Using 5½ Digit Multifunction Calibrator by Direct Method	
	100 A to 1000 A	2.4% to 1.22%		
	0.2 mA to 2 mA	3.12% to 0.41%		Using Current Coil
	2 mA to 20 mA	0.41% to 0.25%		
	20 mA to 200 mA	0.25%		
200 mA to 2 A	0.25% to 0.40%			
5 FREQUENCY <sup>1</sup>	2 A to 10 A	0.40% to 0.31%	Using 5½ Digit Multifunction Calibrator by Direct Method	
	10 A to 100 A	0.31% to 0.62%		
	100 A to 1000 A	0.62% to 0.24%		
	45 Hz to 1 kHz	0.6% to 0.03%		

  
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# रा.प्र.प्र.बो.

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

प्रत्यायन प्रमाण-पत्र

ओथेन्टिक इंस्ट्रुमेंट एवं ओटोमेशन 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”

जयपुर

में स्थित इसकी सुविधाओं के लिए

विद्युत तकनीकी 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-0686

जारी करने की तिथि 13/04/2013



वैधता की तिथि 12/04/2015

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

*विविन फिलिप*

विविन फिलिप  
संयोजक

*अनिल रेलिया*

अनिल रेलिया  
निदेशक

*डा. टी. रामसामी*

डा. टी. रामसामी  
अध्यक्ष