



# 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 परीक्षण एवं विकास केन्द्र

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”

बेंगलुरु, कर्नाटक

में स्थित इसकी सुविधाओं के लिए

यांत्रिक 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-1114

जारी करने की तिथि 02/09/2016



वैधता की तिथि 01/09/2018

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. दुस,

अतिल इलिचा

श्रीकृष्ण अंबा



# NABL

## National Accreditation Board for Testing and Calibration Laboratories

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

### CERTIFICATE OF ACCREDITATION

## ELECTRONICS TEST & DEVELOPMENT CENTRE

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

100 Feet Road, Peenya Industrial Area, Bengaluru, Karnataka

in the discipline of

**MECHANICAL 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-1114

**Issue Date** 02/09/2016



**Valid Until** 01/09/2018

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



Aviiit Das



Anil Relia



Prof. S. K. Joshi



# NABL

## SCOPE OF ACCREDITATION

Laboratory	Electronics Test & Development Centre, 100 Feet Road, Peenya Industrial Area, Bengaluru, Karnataka		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Calibration	Issue Date	02.09.2016
Certificate Number	C-1114	Valid Until	01.09.2018
Last Amended on	20.10.2016	Page	1 of 2

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks	
<b>I. ACCELERATION AND SPEED</b>				
1. VIBRATION TRANSDUCER/ ACCELEROMETER <sup>S</sup>	80/100/160 Hz 1 g to 10 g	2.0 %	Using Spectra CS 18 PCB/301A10 Endeveco/2270 by Comparison Method	
	10 Hz to 1000 Hz	2.41 %		
	1000 Hz to 10 kHz	3.73 %		
2. VIBRATION EXCITER <sup>S</sup>	1 to 10 g 10 Hz to 5 kHz	3.0 %	Using Spectra CS 18 PCB/301A10 Endeveco/2270 by Comparison Method	
	10 Hz to 5 kHz 1 g to 10 g	2.1 %		
3. VIBRATION METER <sup>S</sup> ACCELERATION VELOCITY DISPLACEMENT	10 Hz to 5 kHz 1 mm/s to 5 mm/s Upto 8 mm	4.0 %	Using Measuring Amplifier, Reference Accelerometer, Storage Oscilloscope by Comparison Method	
	10 Hz to 2.5 kHz 1g to 10 g	4.0 %		
4. VIBRATION MACHINE <sup>*</sup>	40 g	4.0 %	Using Measuring Amplifier, Reference Accelerometer, Storage Oscilloscope by Comparison Method	
5. BUMP TEST MACHINE <sup>*</sup>				
<b>II WEIGHING SCALE AND BALANCE</b>				
1. ELECTRONIC WEIGHING BALANCE <sup>*</sup>	d: 0.01 mg	Upto 200 g	0.12 mg	Using Electronic Weighing Balance of Class II and Coarser as per OIML R-76-1  Using Electronic Weighing Balance of Class III and Coarser as per OIML R-76-1
	d: 0.1 mg	Upto 10 kg	0.39 g	

**Rajeshwar Kumar**  
Convenor

**Avijit Das**  
Program Manager



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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
<b>III. WEIGHTS</b>			
1. MASS-WEIGHTS <sup>5</sup> (Class F2 Accuracy and Coarser)	1 mg	0.012 mg	Using E2 Class standard weights and Mass weighing balance (Readability: 0.01 mg) accuracy class F2 and coarser as per OIML R-111
	2 mg	0.012 mg	
	5 mg	0.012 mg	
	10 mg	0.012 mg	
	20 mg	0.024 mg	
	50 mg	0.020 mg	
	100 mg	0.020 mg	
	200 mg	0.020 mg	
	500 mg	0.020 mg	
	1 g	0.020 mg	
	2 g	0.020 mg	
	5 g	0.020 mg	
	10 g	0.030 mg	
	20 g	0.031 mg	
	50 g	0.050 mg	
	100 g	0.060 mg	
200 g	0.150 mg		

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

<sup>5</sup> Only in Permanent Laboratory

\* Only for Site Calibration

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

Rajeshwar Kumar  
Convenor

Avijit Das  
Program Manager