



# NABL

## National Accreditation Board for Testing and Calibration Laboratories

Department of Science & Technology, India

### CERTIFICATE OF ACCREDITATION

## G. D. INSTRUMENT CALIBRATION 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

F-46, 47, Flora Town-A, Behind Hotel Taj Residency, MIDC Area, Ambad, Nashik

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-0391

**Issue Date** 30/09/2012



**Valid Until** 29/09/2014

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  
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

जी. डी. इंस्ट्रुमेंट कैलिब्रेशन सेंटर

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”

नासिक

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-0391  
जारी करने की तिथि 30/09/2012



वैधता की तिथि 29/09/2014

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  
संयोजक

अनिल रेलिया

अनिल रेलिया  
निदेशक

टी. रामसामी

डा. टी. रामसामी  
अध्यक्ष



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Last Amended on	-	Page	1 of 6

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
1. CALIPER <sup>1</sup> (Vernier/Dial/Digital) L.C. 0.01 mm	0 to 600 mm Above 600 to 1000 mm	13.0 $\mu$ m 18.0 $\mu$ m	Using Caliper Checker Length Bar
L.C. 0.02 mm	0 to 600 mm Above 600 to 1000 mm	16.0 $\mu$ m 22.0 $\mu$ m	
2. HEIGHT GAUGE <sup>1</sup> (Vernier/Dial/Digital) L.C. 0.01 mm	0 to 600 mm Above 600 to 1000 mm	13.6 $\mu$ m 18.7 $\mu$ m	Using Caliper Checker, Length Bar
L.C. 0.02 mm	0 to 600 mm Above 600 to 1000 mm	17.0 $\mu$ m 23.0 $\mu$ m	
3. DEPTH GAUGE <sup>1</sup> (Vernier/Dial/Digital) L.C. 0.01 mm	0 to 300 mm	12.0 $\mu$ m	Using Caliper Checker & Gauge Block
L.C. 0.02 mm	0 to 300 mm	16.0 $\mu$ m	
4. EXTERNAL MICROMETER (Vernier/Dial/Digital) L.C. 0.001 mm	0 to 150 mm	2.3 $\mu$ m	Using Gauge Block & Length Bars
L.C. 0.010 mm	0 to 100 mm	6.4 $\mu$ m	
L.C.0.010 mm	100 to 500 mm	10.4 $\mu$ m	
5. INTERNAL MICROMETER <sup>1</sup> (Tubular Rod Caliper Type) L.C.0.01 mm	5 to 150 mm	8.0 $\mu$ m	Using Caliper Checker & Gauge Block
L.C.0.01 mm	150 to 500 mm	11 $\mu$ m	

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Last Amended on	-	Page	2 of 6

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6. DEPTH MICROMETER <sup>1</sup> (Vernier/Dial/Digital) L.C.0.01 mm	0 to 300 mm	6.6 $\mu$ m	Using Gauge Block
7. PLUNGER TYPE DIAL INDICATOR <sup>1</sup> L.C. 0.001 mm L.C. 0.002 mm L.C. 0.010 mm	Upto 50.0 mm Upto 50.0 mm Upto 50.0 mm	2.0 $\mu$ m 2.5 $\mu$ m 6.0 $\mu$ m	Using Electronic Probe with D.T.C. Using Dial Calibration Tester
8. LEVER TYPE DIAL INDICATOR <sup>1</sup> L.C. 0.001 mm L.C. 0.002 mm L.C. 0.010 mm	Upto 2.0 mm Upto 2.0 mm Upto 2.0 mm	2.2 $\mu$ m 2.4 $\mu$ m 6.0 $\mu$ m	Using Electronic Probe with D.T.C.
9. BORE GAUGE <sup>1</sup> (Transmission Accuracy)	Upto 2.5 mm Transmission	2.3 $\mu$ m	Using Electronic Probe with D.T.C.
10. DIAL THICKNESS GAUGE <sup>1</sup> L.C. 0.01 mm	0 to 10 mm	7.0 $\mu$ m	Using Gauge Block
11. DIAL SNAP GAUGE <sup>1</sup> L.C. 0.001 mm	2 mm to 100 mm	2.5 $\mu$ m	Using Gauge Block
12. MICROMETER SETTING STANDARD LENGTH BAR <sup>1</sup>	Upto 100 mm 100 mm to 400 mm	2.5 $\mu$ m 5.0 $\mu$ m	Using Comparator Stand with Electronic Probe & Gauge Block
13. PLAIN PLUG GAUGE <sup>1</sup> / WIDTH GAUGE / SPL GAUGE / HEIGHT GAUGE BLOCKS PADDLE GAUGE	Upto 100 mm 100 mm to 200 mm	2.4 $\mu$ m 2.5 $\mu$ m	Using Comparator Stand with electronic Probe & Gauge Block

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Last Amended on	-	Page	3 of 6

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14. PLAIN SNAP GAUGE <sup>1</sup> / GAP GAUGE	2mm to 100 mm 100 mm to 200 mm	1.4 $\mu$ m 2.0 $\mu$ m	Using Gauge Block
15. MEASURING PIN <sup>1</sup>	0.5 mm to 20 mm	1.5 $\mu$ m	Using Comparator Stand with Electronic Probe
16. FEELER GAUGE <sup>1</sup> / STANDARD FOILS OF COATING THICKNESS GAUGE	Upto 2.0 mm	1.5 $\mu$ m	Using Comparator Stand with Electronic Probe
17. ELECTRONIC PROBE WITH DRO <sup>1</sup> L.C.:to 0.05 $\mu$ m	0 to 25 mm	1.4 $\mu$ m	Using Slip Gauge Block Grade "0"
18. DIAL CALIBRATION TESTER <sup>1</sup> L.C.0.001 mm L.C.0.0001 mm	0 to 25 mm 0 to 25 mm	2.8 $\mu$ m 1.9 $\mu$ m	Using Electronic Probe with D.R.O.
19. PISTOL CALIPER <sup>1</sup> L.C.0.05 mm L.C.0.1 mm	0 to 50 mm 0 to 50 mm	35.0 $\mu$ m 70.2 $\mu$ m	Using Gauge Block
20. BEVEL PROTRACTOR <sup>1</sup> DEGREE PROTRACTOR COMBINATION SET L.C. 5 minutes L.C. 1° deg.	0°-90°-0°	3' 30'' 45' 27''	Using Angle Gauge Block & Granite Surface Plate
21. CYLINDRICAL SETTING MASTER <sup>1</sup> / OD MASTER / HEIGHT BLOCK.	Upto 100 mm	1.8 $\mu$ m	Using Comparator Stand with Electronic Probe & Gauge Block

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Last Amended on	-	Page	4 of 6

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22. V-BLOCK <sup>1</sup> FLATNESS/ PARALLELISM/ SQUARENESS OF FACE	300x250x100 mm	4.2 $\mu$ m	Using Slip Gauge Block Granite Square & Granite Surface Plate
ANGLE	0 to 45 °	8' 53"	Bevel Protractor.
23. SPIRIT LEVEL <sup>1</sup> SQUARE LEVEL 0.01mm/Meter 0.01mm/Meter	0 to 200 mm	3.7 $\mu$ m/meter 4.3 $\mu$ m/meter	Using Slip Gauge Block & Granite Surface Plate
24. ANGLE PLATE <sup>1</sup> / SQUARE ANGLE / TRY SQUARE (Squareness)	Upto 300 mm	4.2 $\mu$ m	Using Slip Gauge Block Granite Square & Granite Surface Plate
25. THREAD PLUG GAUGE <sup>1</sup> (For Major & Effective Diameter)	2 mm to 100 mm	3.5 $\mu$ m on effective diameter	Using Floating Carriage Diameter Measuring Machine
26. THREAD MEASURING WIRES <sup>1</sup>	0.17 to 6.35 mm	1.4 $\mu$ m	Using Comparator Stand with Electronic Micro Indicator Probe
27. PLAIN RING GAUGE <sup>1</sup> / TAPER RING GAUGE	2 to 300 mm	2.5 $\mu$ m	Using LabtoMicrocal (LMC-600)
28. TORQUE WRENCH <sup>1</sup> TYPE I & II (A,B)	0 to 200 Nm Upto 1000 Nm	0.6 % 0.12 %	Using Electronic Torque Wrench Tester Calibrator SUSHMA IND. ISO 6789 : 2004
29. PRESSURE INDICATOR <sup>1</sup> , PRESSURE TRANSMITTERS, PRESSURE, GAUGES (Pneumatic)	0 to 20 bar	0.35 % F.S.	Using Druck Digital Pressure Indicator DPI 104 Druck PV 411 A, (By Comparison method of UUC to Standard)

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Last Amended on	-	Page	5 of 6

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30. THREAD RING GAUGE <sup>1</sup> FOR PITCH DIAMETER	3 mm to 300 mm	2.8 $\mu$ m	Using Lab-Microcal (LMC-600)
31. TAPER THREAD RING GAUGE <sup>1</sup> FOR PITCH DIAMETER	10 mm to 100 mm	3.0 $\mu$ m	Using Lab-Microcal (LMC-600)
32. TAPER PLUG GAUGE <sup>1</sup>	Angle Measurement	10.0 mins of arc	Using Lab-Microcal (LMC-600)
33. FORCE GAUGE <sup>1</sup> PUSH-PULL GAUGE / METER	500.00 N 50.00 kgf /	0.261 % F.S	Using Digital Force Gauges Measuring Machine
34. SINGLE AXIS MEASURING MACHINE <sup>1</sup> L.C. 0.001 mm & L.C. 0.0001 mm	0 to 100 mm Scale 0 to 100 mm Scale	1.0 $\mu$ m 1.0 $\mu$ m	Using Slip Gauge Set by Direct Comparison Method
<b><u>SITE CALIBRATION</u></b>			
36. LINEAR HEIGHT MEASURING INSTRUMENT <sup>2</sup> L.c.:- 0.001mm	Upto 600 mm	10.0 $\mu$ m	Using Caliper Checker, Gauge Block, Granite Square, & Granite Surface Plate ( For Temp.30° )
37. SURFACE PLATE <sup>2</sup>	2000 X 2000 mm ( Length L-in mm & width W in mm)	$4.8 \sqrt{\frac{L+W}{150}}$ $\mu$ m	Using Precision Spirit Level ( For Temp.30° )

  
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Last Amended on	-	Page	6 of 6

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38. PROFILE ROJECTOR <sup>2</sup> A) LINEAR X,Y AXIS L.C. 0.001 mm / 0.005 mm / 0.010 mm	0 to 100mm	4.2 $\mu$ m	Using Slip Gauge Set by Direct Comparison Method
B) ANGULAR L.C. 1 MIN / 5 MIN	0° to 360°	2.0 min. 3.4 min.	Using Angle Gauge Blocks by Direct Comparison Method
C) MAGNIFICATION	10X to 50X	0.24 %	Using Slip Gauge & by Direct Comparison Method Digital Caliper
39. PRESSURE INDICATOR <sup>2</sup> , PRESSURE TRANSMITTERS, INSTRUMENTS , GAUGES , CALIBRATORS, (HYDRAULIC)	0 to 700 bar	0.45 % FS	Using Druck Digital Pressure Indicator DPI 104, Druck PV 411 A, by Comparison method of UUC to Standard

\* 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

  
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