



# NABL

## National Accreditation Board for Testing and Calibration Laboratories

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

### CERTIFICATE OF ACCREDITATION

#### NEW TECHNO MACHINE TOOLS

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

Plot No. M/C 62, Mujessar Sector 24, NIT, Faridabad, Haryana

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-0192

**Issue Date** 16/06/2016

**Valid Until** 15/06/2018



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

Avijit Das  
Program Manager

Anil Rella  
Director

Prof. S. K. Joshi  
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

## न्यू टेक्नो मशीन टुल्स

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”

फरीदाबाद, हरियाणा

में स्थित इसकी सुविधाओं के लिए

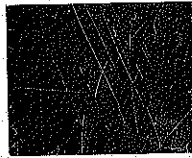
यांत्रिक अंशशोधन

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-0192

जारी करने की तिथि 16/06/2016



वैधता की तिथि 15/06/2018

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. दास,

अविजीत दास  
कार्यक्रम प्रबन्धक

अनिल रेलिया

अनिल रेलिया  
निदेशक

श्रीकृष्ण जोशी

प्रो. श्रीकृष्ण जोशी  
अध्यक्ष



# NABL

## SCOPE OF ACCREDITATION

Laboratory New Techno Machine Tools, Plot No. M/C 62, Mujessar Sector 24, NIT, Faridabad, Haryana

Accreditation Standard ISO/IEC 17025:2005

Discipline Mechanical Calibration Issue Date 16.06.2016

Certificate Number C-0192 Valid Until 15.06.2018

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Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability ( $\pm$ )	Remarks
<b>I. DIMENSION</b>			
1. SURFACE PLATE <sup>S</sup> (Granite/Cast Iron)	630 mm x 630 mm	$1.35 \sqrt{\frac{L+W}{125}} \mu\text{m}$ W=Width, L=Length in mms	Using Electronic Level by Direct Method
2. EXTERNAL MICROMETER <sup>S</sup> (Mechanical/Digital) L.C.: 0.001 mm	Upto 100 mm >100 mm to 300 mm	4.1 $\mu\text{m}$ 13.0 $\mu\text{m}$	Using Gauge Blocks/ Long Gauge by Comparison Method
3. DEPTH MICROMETER <sup>S</sup> L.C.: 0.001 mm	Upto 100 mm	3.0 $\mu\text{m}$	Using Gauge Blocks by Comparison Method
4. CALIPER <sup>S</sup> (Vernier/Dial/Digital) L.C.: 0.01 mm	Upto 600 mm	12.0 $\mu\text{m}$	Using Gauge Blocks / Caliper Checker by Comparison Method
5. DIAL THICKNESS GAUGE <sup>S</sup> L.C.: 0.001 mm	Upto 100 mm	2.0 $\mu\text{m}$	Using Gauge Blocks by Comparison Method
6. HEIGHT GAUGE <sup>S</sup> (Vernier/Dial/Digital) L.C.: 0.01 mm	Upto 600 mm	12.0 $\mu\text{m}$	Using Gauge Blocks/ Caliper Checker Blocks by Comparison Method

Ram Ashray  
Convenor

Avijit Das  
Program Manager



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7. DEPTH CALIPER <sup>s</sup> (Vernier/Dial/Digital) L.C.: 0.02 mm	Upto 300 mm	11.9 $\mu$ m	Using Gauge Blocks by Comparison Method
8. FEELER GAUGE <sup>s</sup>	Upto 1 mm	4.1 $\mu$ m	Using Digital Micrometer by Comparison Method
9. SNAP GAUGE <sup>s</sup>	Upto 300 mm	3.0 $\mu$ m	Using Gauge Blocks by Comparison Method
10. SPIRIT LEVEL <sup>s</sup> (Sensitivity) L.C.: 0.02 mm/m	Upto 1 mm/m	28 $\mu$ m/m	Using Sine Bar & Gauge Blocks by Comparison Method
11. COMPARATOR STAND <sup>s</sup> (Flatness)	Upto 300 x 300 mm	3.0 $\mu$ m	Using Lever Dial Gauge & Surface Plate by Comparison Method based on IS: 7599
12. BEVEL PROTRACTOR <sup>s</sup> L.C.: 5 Min	Upto 180°	4.0 Arc Min	Using Angle Gauge Blocks by Comparison Method based on IS: 4239
13. PLAIN PLUG GAUGE <sup>s</sup>	Upto $\varnothing$ 100 mm	4.1 $\mu$ m	Using Gauge Blocks & Electronic Probe by Comparison Method based on IS: 3455 & IS: 2344
14. V-BLOCK <sup>s</sup> Parallelism, Symmetry & Squareness	Upto 300 mm	6.0 $\mu$ m	Using Precision Cylinders & Electronic Comparator by Comparison Method based on IS: 2949

  
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15. MICROMETER SETTING MASTERS <sup>s</sup>	Upto 250 mm	9.0 $\mu$ m	Using Gauge Blocks & Electronic Comparator by Comparison Method
16. DIAL GAUGE PLUNGER TYPE <sup>s</sup> (Analog/Digital) L.C.: 0.001 mm	Upto 25 mm	2.5 $\mu$ m	Using Dial Calibration Tester by Comparison Method
17. DIAL GAUGE LEVER TYPE <sup>s</sup> L.C.: 0.001 mm	Upto 1mm	1.5 $\mu$ m	Using Dial Calibration Tester by Comparison Method
18. BORE GAUGE <sup>s</sup> (Transmission Only) L.C.: 0.001 mm	Dia Range: $\varnothing$ 6-500 mm Probing Range: Upto 1 mm	2.0 $\mu$ m	Using Dial Calibration Tester by Comparison Method
19. TRY SQUARE <sup>s</sup>	Upto 450 mm	10.0 $\mu$ m	Using Cylinder & Gauge Blocks by Comparison Method
20. DIAL SNAP GAUGE <sup>s</sup> L.C.: 0.01mm	Upto 200 mm	6.0 $\mu$ m	Using Gauge Blocks
21. CALIPER CHECKER <sup>s</sup>	Upto 600 mm	9.0 $\mu$ m	Using Gauge Block & Electronic Probe
22. DIAL CALIBRATION TESTER <sup>s</sup>	Upto 25 mm	1.0 $\mu$ m	Using Gauge Block & Electronic Probe
23. SINE CENTRE <sup>s</sup>	Upto 1000 mm	5 Arc Sec	Using Lever Dial & Outside Micrometer by Comparison Method

  
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Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability ( $\pm$ )	Remarks
24. ANGL PLATE <sup>S</sup>	Upto 450 mm	5.0 $\mu$ m	Using Master Cylinder & Gauge Blocks by Comparison Method
25. BOX ANGLE PLATE	Upto 450 mm	5.0 $\mu$ m	Using Master Cylinder & Gauge Blocks by Comparison Method
26. SURFACE PLATE* (Granite/Cast Iron)	3000 mm x 3000 mm	$1.35 \sqrt{\frac{L+W}{125}} \mu$ m W=Width, L=Length in mms	Using Electronic Level by Direct Method
27. BENCH CENTRE*	Upto 3000 mm	6.8 $\mu$ m	Using Cylindrical Mandrel, Lever Dial Gauge by Comparison Method
28. STRAIGHT EDGE*	Upto 3000 mm	8.5 $\mu$ m	Using Electronic Level by Comparison Method
29. GEAR ROLLING TESTER* Squareness & Flatness	Upto 450 mm	20.0 $\mu$ m	Using Master Mandrel, Gauge Blocks & Electronic Level

\* 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

  
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