



NABL

National Accreditation Board for Testing and Calibration Laboratories

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

CERTIFICATE OF ACCREDITATION

AUTOCAL SOLUTIONS 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

Plot No. BG - 74, Gala No. 1 & 2, Jai Tulja Bhavani Indl. Premises, Telco Road, MIDC - Bhosari, Pune, Maharashtra

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)

Certificate Number C-1267

Issue Date 11/09/2015



Valid Until 10/09/2017

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 Relia
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

ऑटोकैल सोल्यूशन्स प्राइवेट लिमिटेड

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”

पुणे, महाराष्ट्र

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 से भी प्राप्त कर सकते हैं)

प्रमाण-पत्र संख्या अ-1267

जारी करने की तिथि 11/09/2015



वैधता की तिथि 10/09/2017

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
कार्यक्रम प्रवन्धक

अनिल रेलिया

अनिल रेलिया
निदेशक

श्रीकृष्ण जोशी

प्रा. श्रीकृष्ण जोशी
अध्यक्ष



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SCOPE OF ACCREDITATION

Laboratory	Autocal Solutions Pvt. Ltd., Plot No. BG-74, Gala No. 1 & 2, Jai Tulja Bhavani Indl. Premises, Telco Road, MIDC – Bhosari, Pune, Maharashtra		
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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
I. DIMENSION			
1. CALIPER [#] (Vernier/Dial/Digital) L. C. : 10 μ m ^Φ	0 to 600 mm	16 μ m	Using Caliper Checker & External Micrometer by Comparison Method
2. DEPTH GAUGE [#] (Vernier/Dial/ Digital) L. C. : 10 μ m ^Φ	Upto 600 mm	14 μ m	Using Caliper Checker, Gauge Block Set & Surface Plate by Comparison Method
3. HEIGHT GAUGE [#] (Vernier/Dial/Digital) L. C. : 10 μ m ^Φ	Upto 600 mm	15 μ m	Using Caliper Checker & Surface Plate by Comparison Method
4. EXTERNAL MICROMETER [#] L. C. : 1 μ m ^Φ	Upto 100 mm	2 μ m	Using Gauge Block Set by Comparison Method
5. DEPTH MICROMETER [#] L. C. : 10 μ m ^Φ	Upto 100 mm	9.2 μ m	Using Caliper Checker, Gauge Block Set & Surface Plate by Comparison Method
6. MICROMETER SETTING ROD [#]	Upto 75 mm	2.3 μ m	Using ULM by Comparison Method


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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
7. DIAL GAUGE [#] (Plunger Type) L. C. : 1 μ m L. C. : 10 μ m	0 to 1 mm 0 to 25 mm	1.0 μ m 6.0 μ m	Using ULM by Comparison Method
8. DIAL GAUGE [#] (Lever Type) L.C.: 0.001mm L.C.: 0.002mm L.C.: 0.01mm	0 to 0.14 mm 0 to 0.18 mm 0 to 1.0 mm	1.3 μ m 1.8 μ m 5.81 μ m	Using ULM by Comparison Method
9. PLAIN PLUG GAUGE/OD MASTER [#]	1 to 40 mm > 40 mm to 300 mm	2.5 μ m 5.7 μ m	Using ULM by Comparison Method
10. CYLINDRICAL MEASURING PINS [#]	Upto 20 mm	1.0 μ m	Using ULM by Comparison Method
11. PLAIN RING GAUGE [#]	3 mm to 40 mm > 40 mm to 200 mm	2.3 μ m 4.3 μ m	Using ULM & Master Ring Gauge by Comparison Method
12. THREAD PLUG GAUGE [#] (Effective Diameter)	3 mm to 40 mm > 40 mm to 200 mm	2.7 μ m 4.3 μ m	Using ULM Master Setting Disc & Thread Measuring Wires by Comparison Method
13. THREAD RING GAUGE [#] (Effective Diameter)	4 mm to 40 mm > 40 mm to 200 mm	2.3 μ m 4.3 μ m	Using ULM & Master Setting Ring by Comparison Method
14. SNAP GAUGE [#]	3 mm to 40 mm > 40 mm to 100 mm	3.6 μ m 3.6 μ m	Using ULM & Master Setting Ring by Comparison Method


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15. DIAL THICKNESS GAUGE [#] L.C: 10.0 μ m	Upto 10 mm	8.0 μ m	Using Gauge Block set (By Comparison Method)
16. FEELER GAUGE [#]	Upto 1 mm	5.0 μ m	Using Digital Micrometer By Comparison Method
II. MASS			
1. WEIGHTS [#] (CONVENTIONAL MASS)	1 mg	0.02 mg	Using Weights of Accuracy Class E 2 & Precision Balances by Substitution Method ABBA Cycle based on OMIL R 111-2004
	2 mg	0.02 mg	
	5 mg	0.02 mg	
	10 mg	0.03 mg	
	20 mg	0.05 mg	
	50 mg	0.05 mg	
	100 mg	0.06 mg	
	200 mg	0.07 mg	
	500 mg	0.07 mg	
	1 g	0.03 mg	
	2 g	0.04 mg	
	5 g	0.07 mg	
	10 g	0.07 mg	
	20 g	0.08 mg	
	50 g	0.10 mg	
	100 g	0.16 mg	
	200 g	0.21 mg	
	500 g	0.03 g	Using Weights of Accuracy Class F1 & Precision Balances by Substitution Method ABBA Cycle based on OMIL R 111-2004
	1 kg	0.03 g	
	2 kg	0.03 g	
	5 kg	0.03 g	
	10 kg	0.11 g	
	20 kg	0.12 g	


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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
2. WEIGHING MACHINE# d = 0.01 mg	(0 to 200) g	0.11 mg	Using Weights of Accuracy Class E2 & F1 based on OIML R 76 (2006)
d = 1 mg	(0 to 2) kg	5 mg	Using Weights of Accuracy Class E2 & F1 based on OIML R 76 (2006)
d = 100 mg	(0 to 5) kg	120 mg	Using Weights of Accuracy Class E2 & F1 based on OIML R 76 (2006)
d = 10 mg d = 100 mg	(0 to 20) kg	21 mg 120 mg	Using Weights of Accuracy Class E2 & F1 based on OIML R 76 (2006)
d = 1 g d = 5g	(0 to 100) kg	2 g 16 g	Using Weights of Accuracy Class E2 & F1 based on OIML R 76 (2006)
d = 1 g	(0 to 200) kg	15 g	Using Weights of Accuracy Class E2 & F1 based on OIML R 76 (2006)


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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
3. SPRING BALANCE / MECHANICAL BALANCE [#] L. C. : 1 g [Ⓟ]	0 to 240 kg	2 g	Using Weights of Accuracy Class E2 & F1 based on OIML R 76 (2006)

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

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

[Ⓟ] Laboratory can also calibrate instruments/devices of coarser resolution / least count within the accredited range using same reference standard/ master equipment under the scope of accreditation.

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