NABL

National Accreditation Board for Testing and Calibration Laboratories

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

CERTIFICATE OF ACCREDITATION

Q-TECH ENGINEERING SERVICES

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

S-134,C/o, Precision Engineering Works, 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-0917

Issue Date 14/05/2015

Valid Until 13/05/2017

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. Ashutosh Sharma
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

क्यू-टेक इंजीनियरिंग सर्विसेस

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-0917

जारी करने की तिथि 14/05/2015

वैधता की तिथि 13/05/2017

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 प्रबन्धक

अनिल रेलिया
अनिल रेलिया
निदेशक

आशुतोष शर्मा
प्रो. अशुतोष शर्मा
अध्यक्ष

NABL
SCOPE OF ACCREDITATION

Laboratory	**Q-Tech Engineering Services, S-134, C/o, Precision Engineering Works, MIDC, Bhosari, Pune, Maharashtra**		
Accreditation Standard	**ISO/IEC 17025:2005**		
Discipline	**Mechanical Calibration**	**Issue Date**	**14.05.2015**
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Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability (±)	Remarks
I. DIMENSION			
1. EXTERNAL MICROMETER^{S} L.C. 1 µm$^{\Phi}$	Up to 100 mm >100 mm to 300 mm	1.4 µm 3.0 µm	Using Slip Gauge Blocks Gr '0' / Long Slip Gauges, by Comparison Method
2. DEPTH MICROMETER^{S} L.C.: 10 µm	Up to 300 mm	8.8 µm	Using Slip Gauge Blocks Gr '0', by Comparison Method
3. INTERNAL MICROMETER^{S} L.C.: 10 µm	Up to 600 mm	8.2 µm	Using Slip Gauge Blocks Gr '0', by Comparison Method
4. CALIPER^{S} (Vernier /Dial/Digital) L.C.: 0.01 mm$^{\Phi}$	Up to 600 mm	15.0 µm	Using Slip Gauge Blocks Gr '0' & Caliper Checker , Long Slip Gauge, by Comparison Method
5. HEIGHT GAUGE^{S} (Vernier /Dial/Digital) L.C. : 0.01 mm$^{\Phi}$	Up to 600 mm	13.0 µm	Using Slip Gauge Blocks Gr '0' & Caliper Checker , Long Slip Gauge, by Comparison Method
6. DEPTH GAUGE^{S} (Vernier /Dial/Digital) L.C.: 0.01 mm$^{\Phi}$	Up to 300 mm	15.0 µm	Using Slip Gauge Blocks Gr '0' & Caliper Checker, by Comparison Method

Shally Sharma
Convenor

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Program Manager

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7. PLUNGER DIAL GAUGE / COMPARATOR[$]			
L.C. :0.001 mm	Up to 1 mm	1.2 µm	Using Electronic Dial Calibration Tester by Comparison Method
L.C.: 0.001 mm[Φ]	Up to 25 mm	2.6 µm	
8. LEVER DIAL GAUGE [$]			
L.C.: 0.001 mm[Φ]	Up to 0.2 mm	1.8 µm	Using Electronic Dial Calibration Tester by Comparison Method
L.C.: 0.01 mm	Up to 1 mm	5.9 µm	
9. BORE GAUGE[$]	Transmission only		Using Electronic Dial Calibration Tester by Comparison Method
	0 to 2 mm	4.0	
10. DIAL SNAP GAUGE[$]	Up to 150 mm	3.9	Using Slip Gauge Block Gr '0', by Comparison Method
11. DIAL THICKNESS GAUGE / PISTOL CALIPER[$]			
L.C.: 0.01 mm	Up to 30 mm	5.9 µm	Using Slip Gauge Block Gr '0' by Comparison Method
L.C.: 0.1 mm	Up to 50 mm	60 µm	
12. BEVEL PROTRACTOR/ ANGLE PROTRACTOR / COMBINATION SET[$]			
L.C.: 5'[Φ]	Up to 360°	3.6'	Using Angle Gauge Block Gr '0' by Comparison Method
13. PLAIN PLUG GAUGE / SETTING PLUG GAUGE / OD MASTER / HEIGHT MASTER / WIDTH GAUGE / PLAIN MANDRILL[$]	Up to 50 mm	1.6 µm	Using Slip Gauge Block Gr '0' & Comparator with Stand, by Comparison Method
	> 50 mm to 100 mm	2.0 µm	
	> 100 mm to 300 mm	4.0 µm	

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14.	**SNAP GAUGE / GAP GAUGE$**	Up to 100 mm > 100 mm to 200 mm > 200 mm to 300 mm	1.5 µm 3.0 µm 5.0 µm	Using Slip Gauge Block Gr '0', by Comparison Method
15.	**THREAD PLUG GAUGE$** **Effective Dia. / Major Dia.**	Up to 100 mm	3.4 µm	Using FCDM with Electronic probe by Comparison Method
16.	**TAPER THREAD PLUG GAUGE$** **Effective Dia. / Major Dia.**	Up to 100 mm	4.8 µm	Using FCDM with Electronic probe, by Comparison Method
17.	**FEELER GAUGE SET$**	Up to 1 mm	3.0 µm	Using Digital Micrometer, By Comparison Method
18.	**CYLINDRICAL SETTING MASTER$**	Up to 100 mm	2.0 µm	Using Slip Gauge Block Gr '0' & Comparator with Stand, by Comparison Method
19.	**MEASURING PIN/ THREAD MEASURING WIRE$**	Up to 20 mm	1.5 µm	Using Slip Gauge Block Gr '0' & Comparator with Stand, by Comparison Method
20.	**MICROMETER SETTING STICKS$**	Up to 100 mm > 100 mm to 300 mm > 300 mm to 600 mm	2.0 µm 3.7 µm 7.8 µm	Using Slip Gauge Block Gr '0', Comparator with Stand , Single Axis Measuring M/C, by Comparison Method
21.	**PLAIN RING GAUGE$**	Up to 100 mm > 100 mm to 300 mm	6.0 µm 6.5 µm	Using Electronic Height Gauge 2D, by Comparison Method
22.	**COATING THICKNESS GAUGE$**	Up to 2000 µm	5.0 µm	Using Master Thickness Foils, Comparison Method,

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23.	**COATING THICKNESS FOILS$**	Up to 2 mm	1.5 µm	Using Electronic Probe with Comparator stand, by Comparison Method
24.	**DIAL CALIBRATION TESTER$ (Micrometer Lead Type) L.C.: 0.0002 mmΦ**	Up to 25 mm	2.4 µm	Using Electronics Probe, by Comparison Method
25.	**ELECTRONIC PROBE / COMPARATOR$ L.C.: 0.0001 mmΦ**	Up to 25 mm	0.7 µm	Using Slip Gauge & Comparator with stand, by Comparison Method
26.	**COMPARATOR STAND$ (Flatness of base)**	Up to 150 mm	3.7 µm	Using Single Axis Measuring M/C, by Comparison Method
27.	**INSIDE DIAL CALIPER / TWO PIN DIAL$ L.C.: 0.01 mmΦ**	Up to 100 mm	7.0 µm	Using Digital Micrometer, by Comparison Method
28.	**V BLOCK / PARALLEL BLOCK$ Parallelism /Symmetricity Squareness**	Up to 150 mm	7.0 µm 16.0 µm	Using Electronics Height Gauge 2D, Surface Plate & Plain Mandrill, by Comparison Method
29.	**ENGINEERS SQUARE$ Parallelism/ Straightness/ Flatness Squareness**	Up to 300 mm	6.2 µm 16.0 µm	Using Electronic Height Gauge 2D, Surface Plate, by Comparison Method

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	Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability (±)	Remarks
30.	**ANGLE PLATE / BOX PLATE[$]** **Parallelism / Flatness/ Squareness**	Up to 300 mm	6.2 µm 16.0 µm	Using Electronic Height Gauge 2D, Surface Plate, by Comparison Method
31.	**'V' ANVIL MICROMETER[$]** **L.C.: 0.001 mm[Φ]**	Up to 100 mm	6.0 µm	Using Setting Master, by Comparison Method
32.	**CALIPER CHECKER / STEP GAUGE[$]**	Up to 600 mm	9.6 µm	Electronic Height Gauge 2D, Surface Plate, by Comparison Method

*** Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95%**
[$]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.
[Φ] 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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