



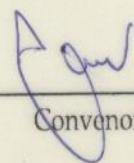
# NABL

**Department of Science & Technology, India**

## SCOPE OF ACCREDITATION

Laboratory	Baker Gauges India Private Limited, (HIP Division), Pune		
Accreditation Standard	ISO/IEC 17025:2005		
Field	Mechanical Calibration	Issue Date	30.06.2010
Certificate Number	C-0390	Valid Until	29.06.2012
Last Amended on	-	Page	1 of 3

Measured Qty / Instrument	Range / Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
1. Thread Plug Gauge - Simple Effective Diameter & Major Diameter	Upto M50	1.7 $\mu$ m	Using Floating Carriage / IBB Twin Check by 2 wire method
	Above M50 upto M100	2.0 $\mu$ m	
	Above M100 upto M200	2.0 $\mu$ m	Using IBB Twin Check by 2 wire method
	Above M200 upto M350	2.5 $\mu$ m	Using IBB Twin Check by 2 wire method
2. Thread Ring Gauge - Simple Effective Diameter	M3 upto M50	1.8 $\mu$ m	Using SIP 305M / IBB Twin Check by 2 Ball Method
	Above M50 upto M100	2.2 $\mu$ m	
	Above M100 upto M200	2.2 $\mu$ m	Using IBB Twin Check by 2 Ball Method
	Above M200 upto M350	3.4 $\mu$ m	Using IBB Twin Check by 2 Ball Method
3. Taper Thread Plug gauge - Simple Effective Diameter	$\varnothing$ 5 upto $\varnothing$ 60 mm	1.4 $\mu$ m	Using Floating Carriage by 2 wire method
	Above $\varnothing$ 60 upto $\varnothing$ 100 mm	1.6 $\mu$ m	Using Floating Carriage by 2 wire method
	Above $\varnothing$ 100 upto $\varnothing$ 200 mm	2.1 $\mu$ m	Using IBB Twin Check by 2 wire method

  
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Measured Qty / Instrument	Range / Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
4. Taper Thread Ring Gauge- Simple Effective Diameter	$\varnothing$ 5 upto $\varnothing$ 60 mm	1.8 $\mu$ m	Using IBB Twin Check / IAC Master Scanner by 2 Ball Method / 2D Scanning
5. Internal Diameter of Plain Taper Ring Gauge	$\varnothing$ 5 upto $\varnothing$ 60 mm	1.8 $\mu$ m	Using IBB Twin Check/ IAC Master Scanner by Comparison Method
6. External diameter of Plain Taper Plug	$\varnothing$ 5 upto $\varnothing$ 60 mm	1.8 $\mu$ m	Using IBB Twin Check by Comparison Method
7. External Micrometer LC : 0.001 mm	Upto 150 mm	2.8 $\mu$ m	Using Gauge Blocks by Comparison Method
8. External Micrometer LC : 0.01 mm	Upto 100 mm Above 100 upto 300 mm	6.0 $\mu$ m 6.8 $\mu$ m	Using Gauge Blocks by Comparison Method
9. Outer Diameter of plugs, Thread measuring wires, Master Setting Discs	Upto 10 mm Above 10 upto 100 mm Above 100 upto 350 mm	0.5 $\mu$ m 1.3 $\mu$ m 2.5 $\mu$ m	Using IBB Twin Check by Comparison Method Using IBB Twin Check by Comparison Method Using IBB Twin Check by Comparison Method

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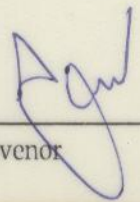
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Measured Qty / Instrument	Range / Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
10. Micrometer Setting Standards	Upto 350 mm	2.5 $\mu$ m	Using IBB Twin Check by Comparison Method
11. Internal Diameter of Rings	3mm to 60 mm	1.4 $\mu$ m	Using SIP 305 M / IBB Twin Check by Comparison Method
	Above 60 upto 100 mm	1.6 $\mu$ m	Using SIP 305 M / IBB Twin Check by Comparison Method
	Above 100 upto 350 mm	2.5 $\mu$ m	Using IBB Twin Check by Comparison Method
12. Thread Ring Gauge - Simple Effective Diameter	M1.4, M2, M2.2, M2.5, M2.6 - Standard Pitch & M2.3 x 0.4 6g & 6h Class	1.8 $\mu$ m	Using Check Plug & Wear Check Plug
13. Taper Thread Ring Gauge Simple Effective Diameter	2½", 3", 3½", 4", 5", 6" NPT & NPTF	3.2 $\mu$ m	Using Check Plug by Comparison Method

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

  
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