



NABL

National Accreditation Board for Testing and Calibration Laboratories

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

CERTIFICATE OF ACCREDITATION

SASTHA SCIENTIFIC AGENCIES

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

314, 8th E Main, 4th Cross, HRBR 1 Block, Kalyan Nagar, Bangalore, Karnataka

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-1406

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 Relia
Director

Prof. S. K. Joshi
Chairman



NABL

SCOPE OF ACCREDITATION

Laboratory	Sastha Scientific Agencies, 314, 8 th E Main, 4 th Cross, HRBR 1 Block, Kalyan Nagar, Bangalore, Karnataka		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Calibration	Issue Date	16.06.2016
Certificate Number	C-1406	Valid Until	15.06.2018
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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
I. DIMENSION (Basic Measuring Instrument, Gauge etc.)			
1. VERIFICATION OF EXTENSOMETER* (Mechanical/Electronic)	0 to 12.5mm	5 μ m	Using Extensometer Calibrator by Comparison Method as per IS 12872
II. DIMENSION (Precision Instruments)			
1. PROFILE PROJECTOR* Resolution Linear 1 μ m Angular 1 arc sec Magnification	Upto 400 mm x 400 mm 360° Upto 20 X	2.6 μ m 75 Arc sec 1.5 %	Using Glass Scale Angular Scale Glass Scale
2. MEASURING MICROSCOPE / TOOL MAKERS MICROSCOPE* Resolution Linear: 1 μ m Angular: 1 Arc sec	Upto 400 mm x 400 mm 360°	5.0 μ m 75 Arc sec	Using Glass Scale & Angular Scale by Comparison Method
3. MICROSCOPE – METALLURGICAL & STREAO* Linear Magnification	0 to 10 mm upto 1000 X	3.0 μ m 1.6 %	Using Glass Scale & Reticles by Comparison Method
4. BRINELL MICROSCOPE* Linear Magnification	0 to 10 mm & upto 1000 X	5.0 μ m	Using Glass Scale by Comparison Method

Neeraj Verma
Convenor

Avijit Das
Program Manager



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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
5. VIDEO MEASURING SYSTEM*			
Resolution:	Upto 360 mm	2.5 μ m	Using Glass Scale & Angular Scale by Comparison Method
Linear : 1 μm	Angular: 360 °	75 Arc sec	
Angular: 1 arc sec			
III. UTM, TENSION CREEP AND TORSION TESTING MACHINE			
1. VERIFICATION OF UNI-AXIAL TESTING MACHINES*			
Compression	10 kN to 1000 kN	0.8 %	Using Class-1 or better Proving Rings & Load Cells as per IS:1828-2005 Part -1
Tension	10 kN to 50 kN	0.8 %	
IV. HARDNESS TESTING MACHINE			
1. VERIFICATION OF ROCKWELL HARDNESS TESTER BY INDIRECT METHOD*			
	HRA	0.8 HRA	Using Standard Hardness Test Blocks as per IS:1586-2012
	HRB	1.0 HRB	
	HRC	0.8 HRC	
	HRN (30,45)	1.0 HRN	
	HRT(15)	1.0 HRT	
2. VERIFICATION OF BRINELL HARDNESS TESTER BY INDIRECT METHOD*			
	2.5 / 187.5 HBW	2%	Using Standard Hardness Test Blocks as per IS 1500-2013
	5 / 750 HBW	1.75%	
	10 / 3000 HBW	1.75%	
3. VERIFICATION OF MICRO-VICKERS HARDNESS TESTER BY INDIRECT METHOD*			
	HV0.2	3.35%	Using Standard Hardness Test Blocks as per IS 1501-Part 2
	HV1	2.5%	

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
4. VERIFICATION OF VICKERS HARDNESS TESTER BY INDIRECT METHOD*	HV5 HV10 HV30	2.5% 2.0% 2.0%	Using Standard Hardness Test Blocks as per IS 1501- Part 2
5. VERIFICATION OF LEEB HARDNESS TESTER*	465.7 HLD 758.4 HLD	1.5% 1.5%	Using Standard Hardness Test Blocks as per ASTM A 959

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

*Only for Site Calibration

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