Laboratory	**The Lakshmi Machine Tools, No. 5/279 Santham Avenue, Rajiv Gandhi Salai, Okkiyam Pettai, Chennai, Tamil Nadu**		
Accreditation Standard	**ISO/IEC 17025:2005**		
Discipline	**Mechanical Calibration**	**Issue Date**	**01.06.2015**
Certificate Number	**C-0518**	**Valid Until**	**31.05.2017**
Last Amended on	**-**	**Page**	**1 of 2**

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
I. DIMENSION			
1. Surface Plate # (Granite/Cast Iron)	3000 mm x 3000 mm	$2.0\sqrt{\frac{L+W}{B}}$ µm Where L=Length in mm W=Width in mm B =Bridge Length in mm	Using Precision Spirit Level & Measuring Bridge
2. Angle/Box Angle # Plate (Flatness)	1000 mm x 1000 mm	$2.0\sqrt{\frac{L+W}{B}}$ µm Where L=Length in mm W=Width in mm B =Bridge Length in mm	Using Square/ Frame Level
(Squareness)		1.6 + L/200 Where L=Length in mm	Using Square/ Frame Level by Comparison Method
(Parallelism)		3.0 µm	Using Dial Indicator by Comparison Method
3. Bench Center # Parallelism	300 mm	3.0 µm	Using Straight Mandrel Dial Indicator by Comparison Method
Co-axiality	2000 mm	3.0 µm	

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Convenor

Avijit Das
Program Manager

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
4. Straight Edge #			
(Straightness)	Upto 2000 mm	$2.0\sqrt{\frac{L+W}{B}}$ µm Where L=Length in mm W=Width in mm B =Bridge Length in mm	Using Precision Spirit Level & Measuring Bridge
(Parallelism)	Upto 2000 mm	3.0 µm	Using Dial Indicator by Comparison Method
5. Comparator Stand $ (Flatness)	300 mm x 300 mm	3.0 µm	Using Dial Indicator by Comparative Method
6. Tri-Square/ Engineering Square $	1000 mm	3.0 µm	Using Dial Indicator by Comparison Method

***Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95%**
$Only in Permanent Laboratory
 # The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.

Ranjith Kumar
Convenor

Avijit Das
Program Manager