Laboratory	**MK Best Calibration Services, No: 27, F-2,1st Floor, 2nd street, Varalakshmi Nagar, P. H. Road, Maduravoyal, Chennai, Tamil Nadu**		
Accreditation Standard	**ISO/IEC 17025:2005**		
Discipline	**Mechanical Calibration**	**Issue Date**	**06.08.2015**
Certificate Number	**C-1098**	**Valid Until**	**29.07.2016**
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	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
I.	**DIMENSION**			
1.	**EXTERNAL MICROMETER$**			
	(Analogue/Digital)	0 to 25 mm	1.2 µm	Using 0 Grade Slip Gauge by Comparison Method
	LC: 0.001mm	25 mm to 100 mm	2.0 µm	
		100 mm to 300 mm	4.4 µm	
2.	**Depth Micrometer$**			
	(Analogue/Digital)			
	LC: 0.01 mm	0 to 25 mm	6.0 µm	Using 0 Grade Slip Gauge by Comparison Method
		25 mm to 150 mm	5.9 µm	
3.	**CALIPER$**			
	(Analog/Dial/Digital)			
	LC: 0.01mmϕ	0 to 150 mm	9.2 µm	Using Caliper Checker by Comparison Method
		0 to 300 mm	9.7 µm	
		0 to 600 mm	12.0 µm	
4.	**DEPTH CALIPER $**			
	(Analog/Dial/Digital)			Using 0 Grade Slip Gauge by Comparison Method
	LC: 0.02 mm	Up to 300 mm	14.2 µm	
5.	**HEIGHT GAUGE$**			
	(Analog/Dial/Digital)			
	LC: 0.01 mmϕ	0 to 300 mm	8.5 µm	Using Caliper Checker by Comparison Method
		0 to 600 mm	9.5 µm	

	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
6.	**DIAL GAUGE$ (Plunger Type) Analog/Digital**			
	LC: 0.001 mm	Up to 25 mm	2.9 µm	Using Dial Gauge Calibrator by Comparison Method
7.	**DIAL GAUGE$ (Lever Type) Analog/Digital**			
	LC: 0.001 mm	Up to 0.14 mm	2.8 µm	Using Dial Gauge Calibrator by Comparison Method
	LC: 0.002 mm	Up to 0.2 mm	3.0 µm	
	LC: 0.01 mm	Up to 1.6 mm	6.4 µm	
8.	**BORE DIAL GAUGE$ (Transmission Only)**	Up to 1 mm	1.4 µm	Using Dial Gauge Calibrator by Comparison Method
9.	**GROOVE DIAL GAUGE$ (Internal)**			
	LC: 0.01 mm	10 mm to 100 mm	7.6 µm	Using Gauge Block / Caliper Checker by Comparison Method
	LC: 0.025 mm	10 mm to 120 mm	38.0 µm	
10.	**DIAL THICKNESS GAUGE$**			
	LC: 0.01 mm	0 to 30 mm	5.8 µm	Using Gauge Blocks by Comparison Method

	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
11.	**PISTOL CALIPER$** **LC: 0.1 mm**	0 to 100 mm	70.0 µm	Using Gauge Blocks by Comparison Method
12.	**SNAP GAUGE/GAP GAUGE$**	0 to 50 mm 50 mm to 100 mm 100 mm to 300 mm	2.7 µm 4.8 µm 5.3 µm	Using Gauge Blocks by Comparison Method
13.	**FEELER GAUGE$**	Up to 1.0 mm	2.2 µm	Using Digital Micrometer by Comparison Method
14.	**FORD CUP$** **(Orifice Diameter)**	Dia Up to 6 mm	11.1 µm	Using Vernier Caliper by Comparison Method
15.	**ELECTRONIC HEIGHT GAUGE♣** **(Dial/ Digital)** **LC:0.001 mm**	Upto 300 mm Upto 600 mm	6.0 µm 6.7 µm	Using Caliper Checker by Comparison Method
16.	**PROFILE PROJECTOR/ VIDEO MEASURING MACHINE♣**	0 to 300 mm 0 to 360°	2.6 µm 42 min. of arc	Using Linear Glass Scale & Angular Graticule by Comparison Method
17.	**BENCH CENTRE♣** **(Parallelism & Co-Axiality Of Centre)**	0 to 300 mm	3.3 µm	Using Mandrel / Dial Indicator by Comparison Method
18.	**GRANITE/ CAST IRON SURFACE PLATE♣**	2000 mm * 1000 mm	$3.5 \times \sqrt{\frac{L+W}{150}}$ µm, (L&W in mm)	Using Spirit level by Comparison Method

Neeraj Verma
Convenor

Avijit Das
Program Manager

	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
II.	**PRESSURE & VACUUM**			
1.	**PRESSURE** [#] **(Pneumatic Gauge)**	0 to 25 bar	0.18 bar	Using Pressure Calibrator by Comparison Method based on DKD R-6-1
2.	**PRESSURE GAUGE / TRANSMITTER**[#] **(Hydraulic)**	0 to 700 bar	0.29 bar	Using Pressure Calibrator by Comparison Method based on DKD R-6-1
3.	**VACUUM GAUGE**[#]	-0.9 bar to 0 bar	0.18 bar	Using Pressure Calibrator by Comparison Method based on DKD R6-2 (Part- – 1)
III.	**ACCOUSTICS**			
1.	**SOUND LEVEL METERS AND SOUND LEVEL CALIBRATORS**[$]	94 dB & 114 dB @ 1kHz	0.56 dB	Using Sound level Calibrators & Meters as per OIML R- 58

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	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
IV.	**ACCELEARATION AND SPEED**			
1.	**DIGITAL TACHOMETER, MECHANICAL TACHOMETER, CENTRIFUGE, RPM INDICATORS, STIRRERS$**	100 RPM to 90000 RPM	1.56% rdg to 0.03% rdg	Using Tachometer 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.
ΦLaboratory 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.

Neeraj Verma
Convenor

Avijit Das
Program Manager