Laboratory	**MSME Testing Centre, Shaheed Captain Gaur Marg, Okhla Industrial Estate, Phase III, New Delhi**		
Accreditation Standard	**ISO/IEC 17025: 2005**		
Discipline	**Mechanical Calibration**	**Issue Date**	**24.05.2015**
Certificate Number	**C-0054**	**Valid Until**	**23.05.2017**
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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
I. DIMENSION			
1. EXTERNAL MICROMETER$ L.C.: 1 µmΦ	Upto 100 mm	1.7 µm	Using 0 Grade Block Set by Comparison Method
2. MICROMETER SETTING$ ROD/ LENGTH BAR	Upto 175 mm Above 175 mm to 450 mm	2.6 µm 6.3 µm	Using UMM and 00 Slip Gauge Set & Accessories
3. DIAL GAUGE$ (Lever Type) L. C. 0.001 mm	0 to 0.14 mm	1.5 µm	Using 00 slip Gauge Set by Comparison Method
4. DIAL GAUGE$ (Plunger Type) L. C. : 0.01 mm	0 to 10 mm Above 10 mm to 50 mm	6 µm 7.0 µm	Using Slip Gauge Set by Comparison Method
5. CALIPER$ (Vernier /Dial/Digital) L. C.: 10 µm	Upto 450 mm	9.4 µm	Using 00 Gauge Block Set & Accessories by Comparison Method
6. STEEL SCALE$ L.C.: 1.0 mm	0 to 1000 mm	$145 \times \sqrt{\frac{L}{200}}$ µm Where L is in mm	Using UMM by Comparison Method

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	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
7.	**PLAIN PLUG GAUGE/ MEASURING PIN / THREAD MEASURING WIRE**[$]	0.1 mm to 200 mm	3.0 µm	Using UMM by Comparison Method
8.	**THEAD PLUG GAUGE**[$]	2 mm to 100 mm	3.1 µm	Using ULM by Comparison Method
9.	**PLAIN RING GAUGE**[$]	Upto 50 mm Above 50 mm to 200 mm	1.6 µm 3.0 µm	Using UMM by Comparison Method
10.	**THREAD RING GAUGE**[$]	Upto 100 mm	3.1 µm	Using ULM by Comparison Method
11.	**RADIUS GAUGE**[$]	Upto 30 mm 30 mm to 200 mm	200 µm 300 µm	Using UMM by Comparison Method
12.	**PITCH GAUGE**[$]	Upto 3 mm	3.0 µm	Using UMM by Comparison Method
13.	**HEIGHT GAUGE**[$] **(Vernier/Dial/ Digital) L. C. : 10µm**[Φ]	Upto 450 mm	9.5 µm	Using 00 Grade Block Set By Comparison Method
14.	**SURFACE PLATE**[$]	1000 mm x 2000 mm	$2.3\sqrt{\frac{(L+W)}{125}}$ µm	Using Electronic Level by Comparison Method
15.	**SURFACE ROUGHNESS**[$] **$R_A$ R_Y R_Z**	0 to 300 µm	8 %	Using Surface Roughness Tester by Comparison Method

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	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
16.	**STRAIGHT EDGE**[$]			
	THICKNESS ≥50 mm	Upto 1000 mm	10 µm	Using Gauge Block Set & Surface Plate by Comparison Method
	THICKNESS ≤ 50 mm	Upto 1000 mm	6 µm	Using Electronic Level by Comparison Method
17.	**SLIP GAUGESS**[$]	Upto 10 mm 10 mm to 25 mm 25 mm to 100 mm	0.13 µm 0.25 µm 0.73 µm	Using Slip Gauges Comparator by Comparison Method
18.	**V BLOCK**[$]			
	PARALLELISM	Upto 300 mm	5 µm	Using Slip Gauges Lever/ Plunger Dial Gauge Mandrel By Comparison Method
	FLATNESS		5 µm	
	SQUARENESS		5 µm	
	V ANGLE		3'	
19.	**TEST SIEVES**[$]	100 mm	5 µm	Using UMM Digital Caliper By Comparison Method
20.	**GLASS SCALE**[$]			
	L.C.: 0.001 mm	0 to 10 mm 10 mm to 200 mm	2.0 µm 6.0 µm	Using UMM By Comparison Method
21.	**ANGLE GAUGE**[$]	≤ 90° ≥90°	40 ' 50 '	Using UMM By Comparison Method
22.	**MEASURING TAPE**[$] L.C.: 0.5 mm	Upto 15 m	$270 \times \sqrt{\frac{L}{200}}$ µm Where L is in mm	Using UMM by Comparison Method

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	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
23.	**CALIPER CHEKCER**[$]	Upto 450 mm	5.0 µm	Using Slip gauges Length Bar Level Dial Gauge

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

[$]Only in Permanent Laboratory

[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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