Laboratory	**Hi-Tech Calibration Laboratory, 325, 3rd Floor, Radha Palace, Gurudwara Road, Gurgaon, Haryana**		
Accreditation Standard	**ISO/IEC 17025:2005**		
Discipline	**Mechanical Calibration**	**Issue Date**	**02.09.2014**
Certificate Number	**C-0829**	**Valid Until**	**01.09.2016**
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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
I. PRESSURE			
1. Hydraulic Pressure : Digital/Dial Pressure gauges♣	0 to 400 kg/cm²	2.0 kg/ cm²	Using Digital Pressure Gauge by Comparison Method
II. DIMENSION			
1. Height Gauge $ (Vernier/Dial/Digital) L.C: 0.01 mm Φ	0 to 300 mm 0 to 600 mm	17.7 µm 21.5 µm	Using Caliper Checker
2. Caliper $ (Vernier/Dial/Digital) L.C: 0.01 mm Φ	0 to 300 mm 0 to 600 mm	14.7 µm 21.5 µm	Using Caliper Checker
3. External Micrometer $ L.C: 0.001 mm **L.C: 0.01 mm**	0 to 100 mm 0 to 150 mm	1.9 µm 7.0 µm	Using Slip Gauge Blocks
4. Plain Plug Gauge $ /Measuring Pin/ Thread Measuring Wire/ 3 Wire Unit	Upto 25 mm >25mm to 100mm	2.3 µm 4 µm	Using External Micrometer Using Slip Gauge & Digital Indicator
5. Electronic Probe $	0 to 25 mm	1.1 µm	Using Slip Gauge Blocks
6. Feeler Gauge/ $ Standard Foils	Upto 1 mm	2.4 µm	Using Digital Micrometer

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
7. Dial Bore Gauges $	Transmission Accuracy		
L.C: 0.01 mm	Upto 2 mm	6.0 µm	Using Dial Calibration
(Travel Only)		1.5 µm	Tester
8. Dial Thickness Gauge $			
L.C : 0.01 mm	0 to 100 mm	7.6 µm	Using Slip Gauge Blocks
9. Lever Dial $			
L.C : 0.01/0.002 mm	0 to 1.4 mm	3.0 µm	Using Dial Calibration
L.C : 0.001mm	0 to 0.14 mm	1.5 µm	Tester
10. Plunger Dial $			
(Dial Gauge Indicator)			
L.C : 0.001mm Φ	0 to 25 mm	1.8 µm	Using Dial Calibration Tester
11. Snap Gauge $	0 to 100 mm	3.0 µm	Using Slip Gauge Blocks
12. Bevel Protector /$			
Combination Set / Angle Protector			
L.C : 5' Φ	0°-180°-0°	3.7'	Using Angle Gauge Blocks
13. Thread Plug Gauge $	Upto 50 mm	3.7 µm	Using 3 Wire Pin & Digital Micrometer
14. V-Block$	Upto 150 mm	4.0 µm	Using Slip Gauge, Digital
Flatness		6.0 µm	Indicator & Mandrel
Parallelism		6.0 µm	
Symmetry			

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
15. Surface Plate $	1000 mm x 1000 mm	1.6 √(L+W)/ 125 μm L&W in mm	Using Electronic Level
16. Ford Cup $ Orifice Diameter	Upto 10 mm	14 μm	Using Digital Caliper
17. Coating Thickness Gauge$ (Digital & Dial Type)	Upto 100 μm >100 μm to 817 μm	2.4 μm 3.0 μm	Using Standard Foils Set
18. Profile Projector♣			
X/Y Axis Movement	0 to 300 mm	5 μm	Using Slip Gauge Blocks, Angle Gauge & Digital Caliper
Angle	0 to 360°	3'	
Magnification	10 X to 100 X	0.3 %	
19. Surface Plate♣	4000 mm x 4000 mm (L & W)	1.6 √(L+W)/ 125 μm L &W in mm	Using Electronic Level

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

$Only in Permanent Laboratory
♣Only for Site Calibration
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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