Laboratory		Mechanical Measurement & Calibration Laboratory, R&D Centre for Bicycle & Sewing Machine, B – 38, 39, Phase V, Focal Point, Ludhiana, Punjab					
Асси	editation Standard	ISO/IEC	2 17025:2005				
Discipline		Mechanical Calibration			Issue Date	13.07.2016	
Certificate Number		C-0823			Valid Until	12.07.2018	
Last	Amended on	-			Page	1 of 2	
	Quantity Measured / Instrument		Range/ Frequency	* Calibration Measurem Capability (±)	nent Re	marks	
I.	DIMENSION (Basic Measuring Instrument, Gauge etc.)						
1.	VERNIER CAIPER <sup>\$</sup> (Analog/Digital)		0 to 100 mm	10.0 um	Using Course Pl	ook Sot & Ding	
	L.C. : 0.01 mm		0 to $100$ mm	19.0 μm	Gauge by Comr	bork Set & Ring	
2.	EXTERNAL MICROMETER <sup>\$</sup>		0 10 500 mm	22.0 µm	Suuge by comp		
	L.C. : 0.001 mm <sup><math>\Psi</math></sup>		0 to 25 mm	2.0 μm	Using Micromete	er Check Gauge	
			0 to 100 mm	2.3 μm	by Comparis	son Method	
3.	THREAD PLUG GAU	JGE <sup>\$</sup>	1 mm to 100 mm	4.0 µm	Using ULM & Three Wire Set by Comparison Method		
4.	THREAD RING GAU	GE <sup>\$</sup>	3 mm to 100 mm	4.0 µm	Using ULM & Setting Ring Gauge by Comparison Method		
5.	PLAING PLUG GAU	GE <sup>\$</sup>	0 to 100 mm	4.0 µm	Using ULM by Comparison Method		
6.	PLAING RING GAU	GE <sup>\$</sup>	0 to 100 mm	4.0 μm	Using ULM & Gauge by Comp	Setting Ring parison Method	
7.	DIAL INDICATOR <sup>\$</sup>		0	<i>c</i> <b>2</b>		- ·	
	L.C. : 0.01 mm		0 to 10 mm	6.3 μm	Using ULM by	Comparison	
	L.C.: 0.001 mm		0 to 50 mm	2.0 µm	Meu	100	
8.	DIAL TEST INDICA	TOR <sup>\$</sup>					
	L.C. : 0.01 mm		0 to 0.8 mm	6.3 μm	Using ULM by Metl	y Comparison nod	
	L.C.: 0.001 mm		0 to 0.14 mm	2.2 μm			
9.	SNAP GAUGE <sup>\$</sup>		0 to 100 mm	3.2 µm	Using Gauge Compariso	Block Set by n Method	

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II. DIMENSION (Precision Instruments)							
1. SLIP GAUGE SET <sup>\$</sup>	0.5 mm to 100 mm	(0.1 + 1.2/L) μm L in meter	Using Gauge Block Comparator & K Grade Gauge Block Set by Comparison Method.				

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

<sup>8</sup>Only in Permanent Laboratory
<sup>Φ</sup> 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.