Laboratory		Shanmugha Precision Forging (A Unit of Vee See Bee Trust), Shanmugha Complex, Thirumalaisamudram, Thanjavur, Tamil Nadu			
Accreditation Standard		ISO/IEC 17025: 2005			
Certificate Number		CC-2402		Page 1	of 3
Validity		06.10.2017 to 05.10.2019		Last Amended on -	
SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration N Capability (±)	leasurement	Remarks
MECHANICAL CALIBRATION					
Ι.	DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)				
1.	Caliper Vernier/Dial/Digital ^{\$} L.C.: 0.01mm L.C.: 0.02 mm	Upto 600 mm Upto 600 mm	14.59 μm 15.83 μm		Using Caliper Checker IS 3651: 1982 P1(Reaffirmed 2010) , IS 3651: 1985 P2 (Reaffirmed 2010) & IS 3651: 1988 P3 (Reaffirmed 2008)
2.	Depth Caliper Vernier / Dial /Digital ^{\$} L.C.: 0.020 mm	Upto 150 mm	13.47 μm		Using Gauge Block Set On Surface Plate By Comparison Method IS 4213: 1991 (Reaffirmed 2010)
3.	Height Gauge Vernier / Dial / Digital ^{\$} L.C.: 0.010 mm L.C.: 0.020 mm	0 to 300 mm 0 to 600 mm	12.02 μm 17.3 μm		Using Caliper Checker IS 2921 : 2016
4.	External Micrometer ^{\$} L.C.: 0.001 mm L.C.: 0.01 mm	Upto 150 mm Upto 300 mm	1.96 μm 8.55 μm		Using Gauge Block Set Based On Comparison Method IS 2967: 1983 (Reaffirmed 2008)
5.	Depth Micrometer ^{\$} L.C.: 0.01 mm	Upto 150 mm	8.2 μm		Using Gauge Block Set Based On Comparison Method

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
6.	Plunger Type Dial Indicator ^{\$} L.C.: 0.001 mm L.C.: 0.01 mm	0 to 1 mm 0 to 10 mm	1.54 μm 3.28 μm	Using Dial Calibration Tester By Comparison Method IS 2092: 1983 (Reaffirmed 2008)
7.	Lever Type Dial Indicator ^{\$} L.C.: 0.001 mm L.C.: 0.01 mm	0 to 0.14 mm 0 to 0.8 mm	1.54 μm 3.27 μm	Using Dial Calibration Tester By Comparison Method IS 11498: 1985 (Reaffirmed 2010)
8.	Bore Gauge With Dial (For Transmission Accuracy) ^{\$} L.C.: 0.001 mm	Upto 1 mm	2.06 μm	Using ULM By Comparison Method
9.	Plain Plug Gauge ^{\$}	Upto 150 mm	1.78 μm	Using ULM Based On Comparison Method IS 3455 : 1985 (Reaffirmed 2010)
10.	Plain Ring Gauge ^{\$}	4 mm to 200 mm	2.35 μm	Using ULM Based On Comparison Method IS 3455 : 1985 (Reaffirmed 2010)
11.	Snap Gauge [≴]	4 mm to 130 mm	2.32 μm	Using ULM Based On Comparison Method IS 3455 : 1985 (Reaffirmed 2010), IS 7606 : 1982 (Reaffirmed 2010) & IS 14271 : 1995 (Reaffirmed 2010)

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
12.	Measuring Pins ^{\$}	0.1 mm to 15 mm	1.2 μm	Using ULM Based On Comparison Method IS 11103 : 1984 (Reaffirmed 2010)
13.	Thread Measuring Wires ^{\$}	0.17 mm to 3.20 mm	1.18 μm	Using ULM Based On Comparison Method IS 6311 : 1978 (Reaffirmed 2010)
14.	Thread Plug Gauge Effective Diameter ^{\$}	M3 to M100	3.1 μm	Using ULM based on comparison method IS 2334: 2001 (Reaffirmed 2013) IS 4218 : 2001 P1, P2 & P4 (All reaffirmed 20060 IS 4218 : 1999 P3 (Reaffirmed 2009)
15.	Thread Ring Gauge Effective Diameter ^{\$}	M4 to M100	2.3 μm	Using ULM based on comparison method IS 2334: 2001 (Reaffirmed 2013) IS 4218 : 2001 P1, P2 & P4 (All reaffirmed 20060 IS 4218 : 1999 P3 (Reaffirmed 2009)
16.	Feeler Gauge ^{\$}	0 to 1 mm	1.19 μm	Using ULM based on comparison method IS 3179: 1990 (Reaffirmed 2010) IS 4210: 1967 (Reaffirmed 2008)

* Measurement Capability is expressed as an uncertainty (\pm) at a confidence probability of 95% ^{\$}Only in Permanent Laboratory