Laboratory	**L.G.B. Metrology Calibration Lab, 6/16/13, Krishnarayapuram Road, Ganapathy, Coimbatore, Tamil Nadu**		
Accreditation Standard	**ISO/IEC 17025: 2005**		
Certificate Number	**CC-2208**	**Page**	**1 of 6**
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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
	ELECTRO TECHNICAL CALIBRATION			
I.	**SOURCE**			
1.	Temperature Simulation #			
	K – Type	(-) 200°C to 1200°C	1.03°C	Using Multifunction Calibrator Beamex, MC 2 By Direct Method
	J – Type	(-) 200°C to 600°C	0.75°C	
	T – Type	(-) 240°C to 350°C	1.06°C	
	R – Type	0°C to 1200°C	1.79°C	
	S – Type	0°C to 1200°C	1.92°C	
	E – Type	(-) 240°C to 1000°C	0.90°C	
	B – Type	600°C to 1200°C	1.86°C	
	RTD-PT100	(-) 200°C to 750°C	0.19°C	

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
	MECHANICAL CALIBRATION			
I.	**DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)**			
1.	External Micrometer $ (Mech/Digital) L.C.:0.001mm L.C.:0.01mm	 0 to 100mm 100 mm to 200 mm 200 mm to 300 mm	 1.45 µm 4.44 µm 4.65 µm	Using Gauge Block Set by Comparison Method as per IS 2967
2.	Depth Micrometer $ L.C.:0.01mm	0to 25 mm	3.54 µm	Using Gauge Block Set by Comparison Method as per JIS B7544
3.	Vernier Caliper $ (Mech/Digital/Dial) L.C.:0.01mm	0 to 300 mm	8.73 µm	Using Gauge Block & caliper checker by Comparison Method as per IS 3651(part II)
4.	Height Gauge $ (Mech/Digital/Dial) L.C.:0.01mm	0 to 300 mm	8.51 µm	Using Gauge Block & caliper checker by Comparison Method as per IS 2921
5.	Plunger Dial Gauge$ (Digital/Analog) L.C.:0.001mm	0 to 10 mm	0.93 µm	Using Dial Gauge Calibrator by Comparison Method as per IS 2092

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6.	Lever Type Dial Gauge[$] L.C.:0.01mm L.C.:0.001mm L.C.:0.002mm	 0 to 1 mm 0 to 0.14 mm 0 to 0.2mm	 4.30 µm 0.73 µm 0.95 µm	Using Dial Gauge Calibrator & Dial Tester by Comparison Method as per IS 11498
7.	Bore Dial Gauge[$] (Transmission only) L.C.:0.001mm	 Travel 1.5 mm	 3.74 µm	Using Dial Gauge Calibrator & Dial Gauge by Comparison Method as per JIS B7515
8.	Plain Plug Gauge[$]	0.5 to 75mm	1.44 µm	Using Universal Length Measuring System by Comparison Method as per IS 3455
9.	Pin Gauge[$]	0.5 to 20mm	1.30 µm	Using Universal Length Measuring System by Comparison Method as per IS 11103
10.	Ring Gauge[$]	2 mm to 100mm	1.90 µm	Using Universal Length Measuring System by Comparison Method as per IS 3485
11.	LVDT Probe with Indicator[$] L.C.:0.001mm	 +/- 5mm	 3.12 µm	Using Slip Gauge with Comparator Stand by Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
II.	**HARDNESS TESTING MACHINE**			
1.	Rockwell/Superficial Hardness♣	HRA HRB HRC HR15N	0.65 HRA 0.99 HRB 0.51 HRC 0.78 HR15N	Using Reference Hardness Blocks by Indirect Method as per IS 1586(Part 2)
2.	Vickers Hardness♣	HV 5 HV 10 HV 0.2 HV 1	2.5 % 1.9 % 4.6 % 3.0 %	Using Reference Hardness Blocks by Indirect Method as per IS 1501(Part 2)
3.	Brinel Hardness♣	HBW 5/750 HBW 10/3000	1.9 % 1.3 %	Using Reference Hardness Blocks by Indirect Method as per IS 1586(Part 2)
III.	**PRESSURE INDICATING DEVICES**			
1.	Hydraulic Pressure Gauges $	0 to 5883990 Pa 0 to 68646550 Pa	0.55 % rdg 0.19 % rdg	Using Pressure Calibrator by comparison Method as per DKD R6-1 Using Pressure Calibrator by comparison Method as per DKD R6-1

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
2.	Pneumatic Pressure Gauges [$]	0 to 1961330 Pa 0 to 20000 Pa	0.13 % rdg 0.31 % rdg	Using Pressure Calibrator with uncertainty of 0.012% by comparison Method as per DKD R6-1

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
		THERMAL CALIBRATION		
1.	**TEMPERATURE**			
1.	RTD/ Thermo couple with and without Indicator #	(-)20°C to 140°C >140°C to 1150°C	0.6°C 3.1°C	Using RTD & Beamax MC2 Calibrator in Dry Block Bath by Comparison method

*** Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95%**
$Only in Permanent Laboratory
#Only for Site Calibration

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