

<b>Laboratory</b>	<b>Electronics Test and Development Centre, Housefed Complex, Central Block, 1st &amp; 2nd Floor, Beltola-Basistha Road, Dispur, Guwahati, Assam</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025:2005</b>		
<b>Discipline</b>	<b>Mechanical Calibration</b>	<b>Issue Date</b>	<b>20.11.2014</b>
<b>Certificate Number</b>	<b>C-0526</b>	<b>Valid Until</b>	<b>19.11.2016</b>
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Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability ( $\pm$ )	Remarks
<b>I. DIMENSION</b>			
1. EXTERNAL MICROMETER <sup>§</sup> L.C. 0.001 mm	0 to 25 mm	2.0 $\mu$ m	Using Ceramic Gauge Block, M-112, K-grade By Comparison Method
2. VERNIER CALIPER <sup>§</sup> L.C. 0.01 mm	0 to 200 mm	17 $\mu$ m	Using Ceramic Gauge Block, M-112, K-grade By Comparison Method
3. ANGLE <sup>§</sup> L.C. 5 min	5 min to 90 <sup>o</sup>	3.5 min	Using Angle Gauge Block, Starret, AG16LM By Comparison Method
<b>II. MASS</b>			
1. MASS <sup>§</sup>	1 mg	0.02 mg	Using Standard Weight Category-E2
	2 mg	0.02 mg	
	5 mg	0.02 mg	
	10 mg	0.02 mg	
	20 mg	0.02 mg	
	50 mg	0.02 mg	
	100 mg	0.02 mg	
	200 mg	0.02 mg	
	500 mg	0.02 mg	
	1 g	0.05 mg	
	2 g	0.05 mg	
	5 g	0.05 mg	

**Vishal Shukla**  
Convenor

**Avijit Das**  
Program Manager

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Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability ( $\pm$ )	Remarks
	10 g to 20 g	0.08 mg	Using Standard Weight Category-E2
	50 g	0.15 mg	
	100 g	0.27 mg	
	200 g	0.54 mg	
	500 g	0.1 g	
	1 kg	0.1 g	
	2 kg	0.1 g	
	5 kg	0.1 g	
	10 kg	0.1 g	
	12 kg	0.1 g	
<b>2. BALANCE<sup>s</sup></b>			
<b>L.C. 0.01 mg</b>	4 g to 200 g	0.16 mg	Using Standard Weight Category-E2
<b>L.C. 0.1 g</b>	>200 g to 12000 g	0.22 g	
<b>III. PRESSURE &amp; VACUUM</b>			
<b>1. HYDRAULIC PRECISION PRESSURE GAUGE<sup>s</sup></b>	1 bar to 1000 bar	0.25 bar	Using High Precision Digital Pressure Gauge by Comparison Method as per DKD-R6.1
<b>2. PNEUMATIC PRECISION PRESSURE GAUGE<sup>s</sup></b>	1 bar to 40 bar	0.026 bar	Using Pressure calibrator By Comparison Method as per DKD-R6.1

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Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability ( $\pm$ )	Remarks
3. VACUUM GAUGE <sup>§</sup>	(-) 0.85 bar to (-) 0.1 bar	0.0068 bar	Using Pressure calibrator By Comparison Method as per DKD-R6.1
VACUUM GAUGE*	(-) 0.9 bar to (-) 0.1 bar	0.0034 bar	Using Pressure calibrator By Comparison Method as per DKD-R6.1
4. HYDRAULIC PRESSURE GAUGE*	1 bar to 1000 bar	2.00 bar	Using Digital Pressure Gauge By Comparison Method as per DKD-R6.1
5. PNEUMATIC PRESSURE GAUGE*	1 bar to 40 bar	0.064 bar	Using Pressure calibrator By Comparison Method as per DKD-R6.1

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

<sup>§</sup>Only in Permanent Laboratory

\*Only for Site Calibration

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