

Laboratory **Maruti Weigtech Pvt. Ltd., 255-258, 2<sup>nd</sup> Floor, Shukan Mall, Science City Road, Sola, Ahmedabad, Gujarat**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **CC-2813 (in lieu of C-1074)** Page **1 of 3**

Validity **12.08.2018 to 11.08.2020** Last Amended on **16.08.2018**

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
<b><u>MECHANICAL CALIBRATION</u></b>				
<b>I.</b>	<b>WEIGHTS</b>			
1.	Mass-Weights <sup>s</sup>	1 mg 2 mg 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 500 mg	0.0010 mg 0.0010 mg 0.0010 mg 0.0010 mg 0.0010 mg 0.0012 mg 0.0016 mg 0.0020 mg 0.0026 mg	Using E1 Class (1 mg to 20 kg) and Weighing Balances with Resolution of 0.1 $\mu$ g (1 mg to 2 g) 1 $\mu$ g (>2 g to 100 g) 0.01 mg (>100 g to 1 kg) 0.1 mg (> 1 kg to 10 kg) 1 mg (>10 kg to 20 kg)  Using Substitution Method as per OIML R 111: 2004  For Calibration of E1 Class Weight and Coarser
		1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g 500 g 1 kg 2 kg 5 kg 10 kg 20 kg	0.003 mg 0.004 mg 0.005 mg 0.0066 mg 0.008 mg 0.010 mg 0.016 mg 0.0316 mg 0.081 mg 0.161 mg 0.319 mg 0.809 mg 1.608 mg 3.206 mg	Using Substitution Method as per OIML R 111: 2004  For Calibration of E1 Class Weight and Coarser

**Rajeshwar Kumar**  
Convenor

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Program Manager

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		50 kg	92.0 mg	Using E1 Class (1 mg to 20 kg) 2 Sets and Weighing Balances with Resolution of 100 mg for Calibration of F1 Class Weight and Coarser
		100 kg 200 kg 500 kg 1000 kg 2000 kg	0.90 g 0.92 g 8.72 g 9.16 g 18.97 g	Using F1 & M1 Class Weights with Weigh Balance Resolutions 1 g (100 kg to 200 kg) 10 g (>200 kg to 1000 kg) 20 g (>1000 kg to 2000 kg) for Calibration of M1 Class Weights & Coarser
<b>II.</b>	<b>WEIGHING SCALE AND BALANCE</b>			
<b>1.</b>	Electronic Weighing Balance <sup>#</sup>	1 mg to 2 g $d \geq 0.0001$ mg	0.004 mg	Using E1 Standard Weights 1 mg to 50 kg for Calibration of Class I Weighing Balances and coarser as per OIML R 76 – 1
		Upto 100 g $d \geq 0.001$ mg	0.016 mg	
		Upto 200 g $d \geq 0.01$ mg	0.031 mg	
		Upto 500 g $d \geq 0.01$ mg	0.080 mg	
		Upto 1000 g $d \geq 0.01$ mg	0.160 mg	
		Upto 2000 g $d \geq 0.1$ mg	0.328 mg	Calibration of Class II Weighing Balances and Coarser as per OIML R-76
		Upto 5000 g $d \geq 0.1$ mg	0.812 mg	
		Upto 10000 g $d \geq 0.1$ mg	1.608 mg	

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		Upto 20000 g d $\geq$ 1 mg	3.16 mg	
		Upto 50000 g d $\geq$ 100 mg	64.2 mg	
	F1 Class Weights	Upto 200 kg d $\geq$ 1 mg	0.67 g	Calibration of Class III & IV Weighing Balances and Coarser as per OIML R-76
		Upto 500 kg d $\geq$ 10 g	6.36 g	
		Upto 1000 kg d $\geq$ 10 mg	6.37 g	
	M1 Class Weights	Upto 2000 kg d $\geq$ 20 g	15.30 g	

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

§ Only in Permanent Laboratory

# The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.

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