

**Laboratory** Weightronics Mass Calibration Laboratory (WMCL), D-46, Sector -4, DSIIDC Industrial Area, Bawana, New Delhi

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

**Certificate Number** CC-2743 (In lieu of C-1403)

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**Validity** 16.06.2018 to 15.06.2020

**Last Amended on** 22.06.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
<b><u>MECHANICAL CALIBRATION</u></b>				
<b>I. WEIGHTS</b>				
1.	Weights <sup>s</sup> (Conventional Mass)	1 mg 2 mg 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 500 mg	0.001 mg 0.001 mg 0.001 mg 0.001 mg 0.001 mg 0.001 mg 0.001 mg 0.002 mg 0.002 mg	Using Standard Weight of Accuracy Class E <sub>1</sub> (1 g) and Mass Comparator (s) with Resolution (s) of 0.1 $\mu$ g (1 mg to 500 mg), for Calibration of Accuracy Class E <sub>1</sub> and Coarser by Sub Division Method as per OIML R 111 using the Weight of 1 g as Reference Standard
		1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g 500 g 1 kg	0.003 mg 0.004 mg 0.005 mg 0.006 mg 0.009 mg 0.011 mg 0.017 mg 0.031 mg 0.1 mg 0.2 mg	Using Standard Weights of Accuracy Class E <sub>1</sub> (1 mg to 50 kg) and Mass Comparator (s) with Resolution (s) of 0.1 $\mu$ g (1 mg to 5 g), 1 $\mu$ g (10 g to 200 g), 0.1 mg (500 g to 2 kg), 1 mg (5 kg & 10 kg), 5 mg (20 kg & 50 kg) & For Calibration of Accuracy Class E <sub>1</sub> Weights and Coarser by Substitution Method as per OIML R 111 using the Weights of 1 mg to 1 kg as Reference Standard

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		2 kg 5 kg 10 kg 20 kg 50 kg	0.7 mg 2 mg 3 mg 7 mg 20 mg	Using Calibration of Accuracy Class E <sub>2</sub> Weights and Coarser by Substitution Method as per OIML R 111 using Weights of 2 kg to 50 kg as Reference Standard
		100 kg 200 kg 500 kg 1 000 kg	2 g 5 g 15 g 25 g	Using Standard Weights of Accuracy Class M <sub>1</sub> (100 kg to 1 000 kg) and Weighing Balance (s) with Resolution (s) of 1 g (100 kg), 5 g (200 kg), 10 g (500 kg), 20 g (1000 kg), for Calibration of Accuracy Class M <sub>2</sub> Weights and Coarser by Substitution Method as per OIML R 111 using Weights of 100 kg to 1000 kg as Reference Standard
<b>II.</b>	<b>WEIGHING SCALE AND BALANCE</b>			
1.	Weighing Balance <sup>#</sup>  Readability: $\leq 0.1 \mu\text{g}$ Readability: $\leq 1 \mu\text{g}$ Readability: $\leq 10 \mu\text{g}$ Readability: $\leq 10 \mu\text{g}$ Readability: $\leq 100 \mu\text{g}$	1 mg to 6 g 1 mg to 26 g Up to 50 g Up to 200 g Up to 2 kg	7 $\mu\text{g}$ 10 $\mu\text{g}$ 15 $\mu\text{g}$ 35 $\mu\text{g}$ 1 mg	Using Standard Weights of Accuracy Class E <sub>1</sub> (1 mg to 2 kg) as per OIML R-76-1

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	Readability: $\leq$ 100 mg	Up to 50 kg	100 mg	Using Standard Weights of Accuracy Class F <sub>1</sub> (Up to 50 kg) as per OIML R-76-1
	Readability: $\leq$ 10 g Readability: $\leq$ 50 g	Up to 200 kg Up to 1000 kg	20 g 50 g	Using Standard Weights of Accuracy Class M <sub>1</sub> (Up to 1000 kg) as per OIML R-76-1

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

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

<sup>\*</sup> Only for Site Calibration

<sup>#</sup> 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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