National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : WEIGHTRONICS MASS CALIBRATION LABORATORY, D-46, SECTOR-4, DSIIDC, BAWANA, NORTH WEST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 20/10/2024 to 19/10/2028 **Last Amended on** 29/10/2024

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Standard Weight of Accuracy Class E1 and Mass Comparator (Resolution: 0.1 µg) By Substitution Method as per OIML R 111-1	1 g	0.00042 mg
2	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Standard Weight of Accuracy Class E1 and Mass Comparator (Resolution : 0.01 mg) By Substitution Method as per OIML R 111-1	1 kg	0.08 mg
3	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Standard Weights of Accuracy Class E1 and Mass Comparators (Resolution: 0.1 µg) By Substitution Method as per OIML R 111-1	1 mg	0.00042 mg
4	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Standard Weight of Accuracy Class E1 and Mass Comparator (Resolution : 1 µg) By Substitution Method as per OIML R 111-1	10 g	0.002 mg

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5	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Standard Weight of Accuracy Class E1 and Mass Comparator (Resolution : 1 mg) By Substitution Method as per OIML R 111-1	10 kg	1.2 mg
6	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Standard Weight of Accuracy Class E1 and Mass Comparator (Resolution: 0.1 µg) By Substitution Method as per OIML R 111-1	10 mg	0.00042 mg
7	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Standard Weight of Accuracy Class E1 and Mass Comparator (Resolution: 1 µg) By Substitution Method as per OIML R 111-1	100 g	0.006 mg
8	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Standard Weight of Accuracy Class E1 and Mass Comparator (Resolution: 0.1 µg) By Substitution Method as per OIML R 111-1	100 mg	0.00044 mg

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9	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Standard Weight of Accuracy Class E1 and Mass Comparator (Resolution: 0.1 µg) By Substitution Method as per OIML R 111-1	2 g	0.00044 mg
10	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Standard Weight of Accuracy Class E1 and Mass Comparator (Resolution 0.1 mg) By Substitution Method as per OIML R 111-1	2 kg	0.2 mg
11	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Standard Weight of Accuracy Class E1 and Mass Comparator (Resolution: 0.1 µg) By Substitution Method as per OIML R 111-1	2 mg	0.00042 mg
12	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Standard Weight of Accuracy Class E1 and Mass Comparator (Resolution : 1 µg) By Substitution Method as per OIML R 111-1	20 g	0.0024 mg

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13	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Standard Weight of Accuracy Class E1 and Mass Comparator (Resolution : 1 mg) By Substitution Method as per OIML R 111-1	20 kg	2 mg
14	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Standard Weights of Accuracy Class E1 and Mass Comparators (Resolution: 0.1 µg) By Substitution Method as per OIML R 111-1	20 mg	0.00044 mg
15	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Standard Weight of Accuracy Class E1 and Mass Comparator (Resolution: 1 µg) By Substitution Method as per OIML R 111-1	200 g	0.015 mg
16	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Standard Weight of Accuracy Class E1 and Mass Comparator (Resolution: 0.1 µg) By Substitution Method as per OIML R 111-1	200 mg	0.00044 mg

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17	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Standard Weight of Accuracy Class E1 and Mass Comparator (Resolution: 0.1 µg) By Substitution Method as per OIML R 111-1	5 g	0.001 mg
18	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Standard Weight of Accuracy Class E1 and Mass Comparator (Resolution: 0.1 mg) By Substitution Method as per OIML R 111-1	5 kg	0.34 mg
19	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Standard Weight of Accuracy Class E1 and Mass Comparator (Resolution: 0.1 µg) By Substitution Method as per OIML R 111-1	5 mg	0.00042 mg
20	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Standard Weight of Accuracy Class E1 and Mass Comparator (Resolution : 1 µg) By Substitution Method as per OIML R 111-1	50 g	0.004 mg

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21	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Standard Weights of Accuracy Class E1 and Mass Comparators (Resolution: 0.1 µg) By Substitution Method as per OIML R 111-1	50 mg	0.00044 mg
22	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Standard Weight of Accuracy Class E1 and Mass Comparator (Resolution: 0.01 mg) By Substitution Method as per OIML R 111-1	500 g	0.04 mg
23	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Standard Weight of Accuracy Class E1 and Mass Comparator (Resolution: 0.1 µg) By Substitution Method as per OIML R 111-1	500 mg	0.00042 mg
24	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using Standard Weight of Accuracy Class E1 and Mass Comparator (Resolution : 5 mg) By Substitution Method as per OIML R 111-1	50 kg	16 mg

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25	MECHANICAL-WEIGHTS	Accuracy class M2 & coarser	Using Standard Weights of Accuracy Class M1 and Weighing Balances (Resolution: 1 g) By Substitution Method as per OIML R 111-1	100 kg	2000 mg
26	MECHANICAL-WEIGHTS	Accuracy class M2 & coarser	Using Standard Weights of Accuracy Class M1 and Weighing Balances (Resolution: 20 g) By Substitution Method as per OIML R 111-1	1000 kg	25000 mg
27	MECHANICAL-WEIGHTS	Accuracy class M2 & coarser	Using Standard Weights of Accuracy Class M1 and Weighing Balances (Resolution: 5 g) By Substitution Method as per OIML R 111-1	200 kg	5000 mg
28	MECHANICAL-WEIGHTS	Accuracy class M2 & coarser	Using Standard Weights of Accuracy Class M1 and Weighing Balances (Resolution: 10 g) By Substitution Method as per OIML R 111-1	500 kg	15000 mg

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Site Facility					
1	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Class I and coarser (Readability: 0.01 mg)	Using E1 Standard Weights as per OIML R-76-1	0 to 1 kg	0.08 mg
2	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Class I and coarser (Readability: 0.1 µg)	Using E1 Standard Weights as per OIML R-76-1	0 to 5 g	1 µg
3	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Class I and coarser (Readability: 0.1 mg)	Using E1 Standard Weights as per OIML R-76-1	0 to 5 kg	0.3 mg
4	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Class I and coarser (Readability: 1 µg)	Using E1 Standard Weights as per OIML R-76-1	0 to 20 g	2 µg
5	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Class I and coarser (Readability: 1 µg)	Using E1 Standard Weights as per OIML R-76-1	0 to 200 g	10 µg
6	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Class I and coarser (Readability: 1 µg)	Using E1 Standard Weights as per OIML R-76-1	0 to 50 g	4 µg
7	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Class I and coarser (Readability: 1 mg)	Using E1 Standard Weights as per OIML R-76-1	0 to 10 kg	1 mg
8	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Class I and coarser (Readability: 1 mg)	Using E1 Standard Weights as per OIML R-76-1	0 to 20 kg	2 mg

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9	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Class I and coarser (Readability: 100 µg)	Using E1 Standard Weights as per OIML R-76-1	0 to 2 kg	0.2 mg
10	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Class I and coarser (Readability: 5 mg)	Using E1 Standard Weights as per OIML R-76-1	0 to 50 kg	16 mg
11	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Class II and coarser (Readability: 20 g)	Using M1 Standard Weights as per OIML R-76-1	0 to 1000 kg	21 g
12	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Class II and coarser (Readability: 5 g)	Using M1 Standard Weights as per OIML R-76-1	0 to 200 kg	5 g
13	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Class III and coarser (Readability: 10 kg)	Using M2 Standard Weights as per OIML R-76-1	0 to 25 Ton	5 kg

*** CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of k = 2.**