National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

M.M.D. KANTAWALA LLP CALIBRATION LABORATORY

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

A/17, MOHAN ESTATE, KHOKHRA, AHMEDABAD, , GUJARAT, INDIA

in the field of

CALIBRATION

Certificate Number: CC-2346

Issue Date: 07/10/2024 **Valid Until:** 17/08/2026

This certificate supersedes the Certificate No.CC-2346 with issue date 30/08/2024 in view of updating the name of the laboratory.
This certificate supersedes the Certificate No.CC-2346 with issue date 18/08/2024 in view of change in legal entity of the laboratory.

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of thislaboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: M.M.D. KANTAWALA LLP

Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : M.M.D. KANTAWALA LLP CALIBRATION LABORATORY, A/17, MOHAN ESTATE, KHOKHRA, AHMEDABAD, GUJARAT, INDIA

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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-VOLUME	Micro Pipette	Using Electronic Balance (Readability : 0.01 mg) and Distilled Water by Gravimetric Method as per ISO 8655 - 6 : 2022	100 µl to 1000 µl	2.6 µl
2	MECHANICAL-VOLUME	Pipette, Burette, Measuring Cylinder, Volumetric Flask	Using Electronic Balance (Readability : 0.01 mg) and Distilled Water by Gravimetric Method as per ISO 4787 : 2021	1 ml to 100 ml	27 µl
3	MECHANICAL-VOLUME	Pipette, Burette, Measuring Cylinder, Volumetric Flask	Using Electronic Balance (Readability : 0.01 mg & 0.1 mg) and Distilled Water by Gravimetric Method as per ISO 4787 : 2021	100 ml to 1000 ml	50 µl
4	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class II and Coarser (Readability: 1 mg)	Using E1 Class Weights by Comparison Method as per OIML R - 76 - 1	> 2.3 kg to 10.1 kg	4 mg

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5	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class II and Coarser (Readability: 5 mg)	Using E1 Class Weights by Comparison Method as per OIML R - 76 - 1	> 10.1 kg to 60 kg	20 mg
6	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class III and Coarser (Readability: 1 g)	Using E1, F1 Class Weights by Comparison Method as per OIML R - 76 - 1	> 60 kg to 100 kg	4 g
7	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class IIII (Readability : 10 g)	Using F1, M1 Class Weights by Comparison Method as per OIML R - 76 - 1	> 100 kg to 300 kg	10 g
8	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class IIII (Readability : 50 g)	Using F1, M1 Class Weights by Comparison Method as per OIML R - 76 - 1	> 300 kg to 500 kg	350 g
9	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass Comparator, Electronic Balance - Accuracy Class I and coarser (Readability: 0.01 mg)	Using E1 Class Weights by Comparison Method as per OIML R - 76 - 1	> 111 g to 610 g	0.086 mg
10	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass Comparator, Electronic Balance - Accuracy Class I and Coarser (Readability: 0.0001 mg)	Using E1 Class Weights by Comparison Method as per OIML R - 76 - 1	0 to 6.1 g	0.0054 mg

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11	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass Comparator, Electronic Balance - Accuracy Class I and Coarser (Readability: 0.001 mg)	Using E1 Class Weights by Comparison Method as per OIML R - 76 - 1	> 6.1 g to 111 g	0.022 mg
12	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass Comparator, Electronic Balance - Accuracy Class I and Coarser (Readability: 0.1 mg)	Using E1 Class Weights by Comparison Method as per OIML R - 76 - 1	> 610 g to 2300 g	0.4 mg
13	MECHANICAL-WEIGHTS	Weight (E1 Class & Coarser)	Using E1 Class Weight & Mass Comparator of Range 6.1 g (Readability : 0.0001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1 : 2004	1 mg	0.0008 mg
14	MECHANICAL-WEIGHTS	Weight (E1 Class & Coarser)	Using E1 Class Weight & Mass Comparator of Range 6.1 g (Readability : 0.0001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1 : 2004	1 g	0.0017 mg

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15	MECHANICAL-WEIGHTS	Weight (E1 Class & Coarser)	Using E1 Class Weight & Mass Comparator of Range 2.3 kg (Readability : 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1 : 2004	1 kg	0.15 mg
16	MECHANICAL-WEIGHTS	Weight (E1 Class & Coarser)	Using E1 Class Weight & Mass Comparator of Range 111 g (Readability : 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1 : 2004	10 g	0.0043 mg
17	MECHANICAL-WEIGHTS	Weight (E1 Class & Coarser)	Using E1 Class Weight & Mass Comparator of Range 6.1 g (Readability : 0.0001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1 : 2004	10 mg	0.0007 mg

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18	MECHANICAL-WEIGHTS	Weight (E1 Class & Coarser)	Using E1 Class Weight & Mass Comparator of Range 111 g (Readability : 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1 : 2004	100 g	0.015 mg
19	MECHANICAL-WEIGHTS	Weight (E1 Class & Coarser)	Using E1 Class Weight & Mass Comparator of Range 6.1 g (Readability : 0.0001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1 : 2004	100 mg	0.0009 mg
20	MECHANICAL-WEIGHTS	Weight (E1 Class & Coarser)	Using E1 Class Weight & Mass Comparator of Range 6.1 g (Readability : 0.0001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1 : 2004	2 g	0.0023 mg

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21	MECHANICAL-WEIGHTS	Weight (E1 Class & Coarser)	Using E1 Class Weight & Mass Comparator of Range 2.3 kg (Readability : 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1 : 2004	2 kg	0.31 mg
22	MECHANICAL-WEIGHTS	Weight (E1 Class & Coarser)	Using E1 Class Weight & Mass Comparator of Range 6.1 g (Readability : 0.0001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1 : 2004	2 mg	0.0007 mg
23	MECHANICAL-WEIGHTS	Weight (E1 Class & Coarser)	Using E1 Class Weight & Mass Comparator of Range 111 g (Readability : 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1 : 2004	20 g	0.0056 mg

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24	MECHANICAL-WEIGHTS	Weight (E1 Class & Coarser)	Using E1 Class Weight & Mass Comparator of Range 6.1 g (Readability : 0.0001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1 : 2004	20 mg	0.0007 mg
25	MECHANICAL-WEIGHTS	Weight (E1 Class & Coarser)	Using E1 Class Weight & Mass Comparator of Range 6.1 g (Readability : 0.0001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1 : 2004	200 mg	0.0012 mg
26	MECHANICAL-WEIGHTS	Weight (E1 Class & Coarser)	Using E1 Class Weight & Mass Comparator of Range 610 g (Readability : 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1 : 2004	200 g	0.03 mg

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27	MECHANICAL-WEIGHTS	Weight (E1 Class & Coarser)	Using E1 Class Weight & Mass Comparator of Range 6.1 g (Readability : 0.0001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1 : 2004	5 mg	0.0008 mg
28	MECHANICAL-WEIGHTS	Weight (E1 Class & Coarser)	Using E1 Class Weight & Mass Comparator of Range 6.1 g (Readability : 0.0001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1 : 2004	5 g	0.0031 mg
29	MECHANICAL-WEIGHTS	Weight (E1 Class & Coarser)	Using E1 Class Weight & Mass Comparator of Range 6.1 g (Readability : 0.0001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1 : 2004	50 mg	0.0008 mg

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30	MECHANICAL-WEIGHTS	Weight (E1 Class & Coarser)	Using E1 Class Weight & Mass Comparator of Range 111 g (Readability : 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1 : 2004	50 g	0.009 mg
31	MECHANICAL-WEIGHTS	Weight (E1 Class & Coarser)	Using E1 Class Weight & Mass Comparator of Range 6.1 g (Readability : 0.0001 mg) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1 : 2004	500 mg	0.0012 mg
32	MECHANICAL-WEIGHTS	Weight (E1 Class & Coarser)	Using E1 Class Weight & Mass Comparator of Range 610 g (Readability : 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1 : 2004	500 g	0.06 mg

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33	MECHANICAL-WEIGHTS	Weight (E2 Class & Coarser)	Using E1 Class Weight & Weighing Balance of Range 10.1 kg (Readability : 1 mg) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1 : 2004	10 kg	2.1 mg
34	MECHANICAL-WEIGHTS	Weight (E2 Class & Coarser)	Using E1 Class Weight & Mass Comparator of Range 64.1 kg (Readability: 5 mg) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1 : 2004	20 kg	8 mg
35	MECHANICAL-WEIGHTS	Weight (E2 Class & Coarser)	Using E1 Class Weight & Weighing Balance of Range 10.1 kg (Readability : 1 mg) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1 : 2004	5 kg	1.3 mg

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36	MECHANICAL-WEIGHTS	Weight (E2 Class & Coarser)	Using E1 Class Weight & Mass Comparator of Range 64.1 kg (Readability : 5 mg) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1 : 2004	50 kg	11 mg

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Site Facility					
1	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class II and Coarser (Readability: 1 mg)	Using E1 Class Weights by Comparison Method as per OIML R - 76 - 1	> 2.3 kg to 10.1 kg	4 mg
2	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class II and Coarser (Readability: 5 mg)	Using E1 Class Weights by Comparison Method as per OIML R - 76 - 1	> 10.1 kg to 60 kg	20 mg
3	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class III and Coarser (Readability: 1 g)	Using E1, F1 Class Weights by Comparison Method as per OIML R - 76 - 1	> 60 kg to 100 kg	4 g
4	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class IIII (Readability : 10 g)	Using F1, M1 Class Weights by Comparison Method as per OIML R - 76 - 1	> 100 kg to 300 kg	10 g
5	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance - Accuracy Class IIII (Readability : 50 g)	Using F1, M1 Class Weights by Comparison Method as per OIML R - 76 - 1	> 300 kg to 500 kg	350 g

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6	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass Comparator, Electronic Balance - Accuracy Class I and coarser (Readability: 0.01 mg)	Using E1 Class Weights by Comparison Method as per OIML R - 76 - 1	> 111 g to 610 g	0.086 mg
7	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass Comparator, Electronic Balance - Accuracy Class I and Coarser (Readability: 0.0001 mg)	Using E1 Class Weights by Comparison Method as per OIML R - 76 - 1	0 to 6.1 g	0.0054 mg
8	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass Comparator, Electronic Balance - Accuracy Class I and Coarser (Readability: 0.001 mg)	Using E1 Class Weights by Comparison Method as per OIML R - 76 - 1	> 6.1 g to 111 g	0.022 mg
9	MECHANICAL-WEIGHING SCALE AND BALANCE	Mass Comparator, Electronic Balance - Accuracy Class I and Coarser (Readability: 0.1 mg)	Using E1 Class Weights by Comparison Method as per OIML R - 76 - 1	> 610 g to 2300 g	0.4 mg

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