

FEDERATION FOR DEVELOPMENT OF ACCREDITATION SERVICES

118-119, First Floor, Sushant Tower, Sector – 56, Gurugram – 122011, Haryana, India.



CERTIFICATE OF ACCREDITATION (AS PER ISO/IEC 17025:2017)

This is to attest that

M/s M K ENTERPRISES.

303, Balaji Heights, Behind Krushna Park,
Warje Malwadi Pune-411058, India

Calibration Laboratory

has demonstrated compliance with ISO/IEC Standard 17025:2017, General requirements for the competence of testing and calibration laboratories and supplementary criteria for Calibration laboratories.

Certificate Number: CL-120

Issue Date: 06.03.2024

Valid Until: 05.03.2026

The certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard and the relevant requirements of FDAS. (for scope of accreditation visit website www.fdasindia.org).


DEVI SARAN TEWARI
Director

FEDERATION FOR DEVELOPMENT OF ACCREDITATION SERVICES

118-119, First Floor, Sushant Tower, Sector – 56, Gurugram – 122011, Haryana, India.



SCOPE OF ACCREDITATION

(Annexure to Certificate of CL - 120)

Laboratory Name: M/s M K Enterprises
303, Balaji Heights, Behind Krushna Park, Warje Malwadi Pune-411058.

Validity: 06.03.2024 to 05.03.2026 **Amended on** N/A

Mechanical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
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Group: Mass				
1.	M3 Class Weight & Coarser	Using F1 Class Weight by substitution method of ABBA based on OIML R 111 – 1: 2004	500 g	0.10 g
2.	M2 Class Weight & Coarser	Using F1 Class Weight by substitution method of ABBA based on OIML R 111 – 1: 2004	1000 g	0.10 g
3.	M2 Class Weight & Coarser	Using F1 Class Weight by substitution method of ABBA based on OIML R 111 – 1: 2004	2000 g	0.10 g
4.	M1 Class Weight & Coarser	Using F1 Class Weight by substitution method of ABBA based on OIML R 111 – 1: 2004	5000 g	0.10 g
5.	M1 Class Weight & Coarser	Using F1 Class Weight by substitution method of ABBA based on OIML R 111 – 1: 2004	10000 g	0.10 g
6.	M1 Class Weight & Coarser	Using F1 Class Weight by substitution method of ABBA based on OIML R 111 – 1: 2004	20 kg	0.50 g
7.	M1 Class Weight & Coarser	Using F1 Class Weight by substitution method of ABBA based on OIML R 111 – 1: 2004	50 kg	1 g

Jitendra Parmar

Dealing Officer

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SCOPE OF ACCREDITATION

(Annexure to Certificate of CL - 120)

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Validity: 06.03.2024 to 05.03.2026 **Amended on** N/A

Mechanical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
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Group: Weighing Balance

1.	Electronic Weighing Balance (Readability: 0.0001 mg) - Class I & coarser	Using E1 Class Weights as per OIML R-76-1-2006 & R-76-2:2007	1 mg to 2 g	0.0040 mg
2.	Electronic Weighing Balance (Readability: 0.00001 g) - Class I & coarser	Using E2 Class Weights as per OIML R-76-1-2006 & R-76-2:2007	0 to 200 g	0.00020 g
3.	Electronic Weighing Balance (Readability: 0.01 g) - Class II & coarser	Using E2 Class Weights upto 200 g & upto 2 kg (F1 Class) weights as per OIML R 76 - 1-2006 & R-76-2:2007	0 to 2000 g	0.020 g
4.	Electronic Weighing Balance (Readability: 0.01 g) - Class II & coarser	Using E2 Class Weights upto 200 g & upto 5 kg (F1 Class) weights as per OIML R 76 - 1-2006 & R-76-2:2007	0 to 5000 g	0.020 g
5.	Electronic Weighing Balance (Readability: 0.1 g) - Class II & coarser	Using E2 Class Weights upto 200 g & upto 10 kg (F1 Class) weights as per OIML R 76 - 1-2006 & R-76-2:2007	0 to 10 kg	0.21 g
6.	Electronic Weighing Balance (Readability: 0.5 g) - Class II & coarser	Using E2 Class Weights upto 200 g & upto 35 kg (F1 Class) weights as per OIML R 76 - 1-2006 & R-76-2:2007	0 to 35 kg	0.70 g
7.	Electronic Weighing Balance (Readability: 1 g) - Class II & coarser	Using E2 Class Weights upto 200 g & upto 50 kg (F1 Class) weights as per OIML R 76 - 1-2006 & R-76-2:2007	0 to 50 kg	2 g

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Mechanical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (\pm) *
8.	Electronic Weighing Balance (Readability: 1 g) - Class II & coarser	Using E2 Class Weights upto 200 g & upto 150 kg (F1 Class) weights as per OIML R 76 - 1- 2006 & R-76-2:2007	0 to 150 kg	3 g
9.	Electronic Weighing Balance (Readability: 50 g) - Class III & coarser	Using F1 Class Weights upto 150 kg & M1 class upto 2000 kg weights as per OIML R 76 - 1-2006 & R-76-2:2007	0 to 500 kg	40 g
10	Electronic Weighing Balance (Readability: 100 g) - Class III & coarser	Using F1 Class Weights upto 150 kg & M1 class upto 2000 kg weights as per OIML R 76 - 1-2006 & R-76-2:2007	0 to 1000 kg	80 g
11	Electronic Weighing Balance (Readability: 200 g) - Class III & coarser	Using F1 Class Weights upto 150 kg & M1 class upto 2000 kg weights as per OIML R 76 - 1-2006 & R-76-2:2007	0 to 2000 kg	200 g

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Thermal Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
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Group : Temperature & Humidity

1.	Humidity Chamber, Climatic Chamber, Environmental Chamber	Using Temp-Humidity Indicator with in built Data Logger by Multi Point mapping Method	20 % RH to 95 % RH at 20° C to 40° C	2% RH
2.	Climatic Chamber, Environmental Chamber	Using RTDs with multichannel Data Logger by Multi Point Mapping Method	-50 to 200°C	0.6°C
3.	Indicator with Sensor of Humidity Chamber, Climatic Chamber, Environmental Chamber	Using Temp-Humidity Indicator with in built Data Logger by Single positioning method	20 % RH to 95 % RH at 20° C to 40° C	2% RH
4.	Indicator with Sensor of Climatic Chamber, Environmental Chamber, Ovens	Using RTDs with multichannel Data Logger by Single Point Mapping Method	-50 to 200°C	0.5°C

*Expanded uncertainty expressed in coverage probability of approximately 95 % (coverage factor k=2)

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