ULR Number	CC417824000000374F	**Certificate Number**	RPL-CF-2024-MASS-CSRF-1262-C-0125
Date of Calibration	26.12.2024	**Recommended due date**	25.12.2025

Mechanical- Weights

Calibration Certificate

For

Standard Weight

Laboratory certifies that the equipment has been calibrated in accordance with a quality system registered to ISO 9001:2015 and confirms to ISO/IEC 17025:2017 and laboratory applicable procedures.

The measurement expanded uncertainty is expressed at 95% confidence level with a coverage factor equal to two (k=2).

Laboratory measurement standards are traceable through unbroken chain of comparison to National and / or to International Standards.

Calibration of all equipment, meters used are traceable to National Standards / International Standards and their calibration are current.

This calibration report contains the results of calibration and / or other relevant data about the calibration.

This report applies only to the item identified and shall not be reproduced except in full, without specific written approval from the Laboratory.

No statement of compliance with specifications is made or implied on this report. However, the results are reviewed to establish where any measurement results exceed the manufacturers specification and communicate results by means of this report.

Lab QR Code

Certificate QR Code

Calibration Procedure	As Received Conditions	As Shipped Condition
RPL-L03-DI-025-MASS-001A	Satisfactory	Cleaned & Calibrated

Calibrated By		Reviewed & Approved By | Authorized Signatory		
Identification	RPL-TM-02	**Identification**	Jayasree Manikandan	m.ll

Reva Phoenix Complex, No. 14, 4th Street, Raja Rajeswari Nagar, Madipakkam, Chennai – 600 091, Tamilnadu, India.
+91 98406 72352 | +91 99405 64783 | +91 99400 47321 enquiry@revaphoenix.com www.revacalibration.com

ULR Number	CC417824000000374F	**Certificate Number**	RPL-CF-2024-MASS-CSRF-1262-C-0125
Date of Calibration	26.12.2024	**Recommended due date**	25.12.2025

Date of Performance of Calibration	26.12.2024	**Date of Issue**	01.01.2025
		Recommended Due Date	25.12.2025

Name & Contact information of Customer:	Kothari Petrochemicals Limited 1/2B, 33/5, Sathangadu Village, Manali, Chennai - 600068.	**Date of Receipt**	26.12.2024
		CSRF Number	RPL/SRF/2024/726
		Location-Calibrated at	In House

Description of the Unit Under Calibration (UUC)

Description	Standard Weight	**Model**	E2 Class
Range	100 g	**Serial No**	--
Least Count	--	**Identification No**	--
Make	METTLER	**Accuracy**	E2 Class
Location	--	**Operating Range**	100 g

Condition of unit under calibration on receipt	Satisfactory
Method used - Reva Phoenix Document Number	RPL-L03-DI-025-MASS-001A
Reference Standard (International / National)	OIML R111-1 : 2004

Environmental Details	**Temperature**	**Start**	**23.6 °C**	**End**	23.6 °C	**Difference**	0.2 °C
	Relative Humidity		57.4 %RH		57.5 %RH		0.1 %RH

Details of Traceability - Master Equipment / Standard used for Calibration

Sl. No.	Description Master Equipment / Standard used for calibration	Metrological Traceability to National / International Standards
1	Weight Box	CC-2231,TSC/22-23/9683-1 Valid till 22.09.2027

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Discipline : Mechanical- Weights

Calibration Results

Sr.No.	Nominal Mass Value	Conventional Mass	MPE (±)	Class	Expanded Uncertainty (±)
	g	g	g	g	g
1	100.00	100.00006	0.00016	E2	0.000015

Remarks :

REVA PHOENIX Labs & Consultants Pvt. Ltd.

1. Measured value of each weight is reported
2. Temperature change during calibration is not more than ± 0.3 °C per hour
3. Thermal Stabilization hour - 24 hour
4. MPE is defined as Maximum Permissible Error as per OIML R-111 2004
5. The Weights marked " * " indicates the second weight of same denomination
6. The certificate refers only to the particular item submitted for calibration
7. The certificate results reported in the certificate are valid at the time of and under stated conditions of measurement
8. Calibration Method Followed : By Subdivision Method & Substitution Method - ABBA Cycle
9. The weights are calibrated for Scientific or Industrial purpose only
10. The calibration certificate shall not be reproduced in part or in full without written approval laboratory
11. The above weights are calibrated for E1 class & all the weights are within the limits as per OIML R-111 2004
12. Masters are Traceable to SI units

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Digital Signature of Laboratory:
REVA PHOENIX LABS AND CONSULTANTS
PRIVATE LIMITED
Date: 07/01/2025 15:02:28 +05:30
Reason: Calibration Certificate
Location: Chennai

REVA PHOENIX
Labs & Consultants Pvt. Ltd.

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Mandatory Annexure to Calibration Certificate

1. Calibration Certificate includes all the information as agreed with Customer and as necessary for the interpretation of the results and all information required by the method used, including, additions to deviations, or exclusions.
2. All issued reports are retained as technical records by our Laboratory as per ISO/IEC 17025: 2017 requirements.
3. Metrological traceability to National | International Standards as per ISO/IEC 17025: 2017 requirements is and Calibration reports do not contain any recommendation on Calibration interval, except where agreed.
4. Laboratory is responsible for all the information provided in the report, except when information is provided by the customer. Data provided, where applicable, is clearly identified, as they can affect the validity of results.
5. Measurement Uncertainty reported is at approximately 95% confidence level with k=2; Unit of measurement result and measurement uncertainty are same as that of range selected, unless otherwise indicated in certificate.
6. Calibration Certificate is issued in accordance with the terms and conditions laid down by NABL which has assessed our measurement capability and its traceability to recognized National | International standards.
7. Metrological traceability of Masters to National / International Standard is established by unbroken chain of calibration.
8. Calibration Certificate pertains only to the particular item(s) submitted and reported for calibration and shall not be reproduced except in full, without the written approval from our Laboratory.
9. Results reported in Calibration Certificate are valid at the time of and stated conditions of measurement of UUC.
10. Error(s), if any, in the Calibration Certificate, shall be brought to the notice of Laboratory within 30 days from the date of issue. Amendments to Certificate will not be entertained thereafter.
11. Calibration Certificate is issued based on Customer requirements for Scientific and Industrial purposes and not meant for other purpose and shall not be produced in the court of law.
12. Legal Aspects: Calibration of Weights, Density of solids, Load cell, UTM, Pressure Dead Weight Tester, Pressure Gauge. Liquid-in-glass Thermometer done by our Laboratory is meant for scientific and industrial purpose only. However, if used for commercial trading, additional recognition/ approval shall be complied as required by Department of Legal Metrology, Regulatory body, etc.
13. Laboratory is not liable for any change in the reported data and performance specification on account of malfunctioning of Standards | Equipment covered by this Certificate due to damage caused to it after the issue of this Certificate.
14. Any corrections | changes | erasing | modifications | unauthorized Seal, Stamp or Signature on this Calibration Certificate invalidate this Certificate.
15. Unless otherwise specified, the measurement data reported is considered 'As found data - without any adjustments.'
16. Decision Rule: No conformity statement (Pass | Fail | Accepted | Rejected) is provided, unless otherwise indicated on report.
17. NABL Guideline 133 is adopted for the use of NABL Symbol.
18. This report pertains only to the sample | equipment submitted and shall not be reproduced in part or full, without explicit written permission from our Laboratory.
19. Only Digital calibration Certificate in soft, valid and prepared as per ISO/IEC 17025:20217 requirement is issued.

Scope of Accreditation:

Please contact our Laboratory to get a copy of our ISO/IEC 17025: 2017 Accredited Certificate and Scope of Calibration. You may also download the same directly from NABL Website.

Calibrated By		**Reviewed & Approved By | Authorized Signatory**		m.ll
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Date of Calibration	26.12.2024	**Recommended due date**	25.12.2025

For any further information, assistance or feedback; please contact:

Director | Managing Director

Reva Phoenix Labs & Consultants Private Limited

Reva Phoenix Complex, No.14, 4th Street, Rajarajeswari Nagar,

Madipakkam, Chennai 600 091, Tamil Nadu, India

Enquiry : +91 99406 72352 | Accounts: +91 95000 32931 | Reception: +91 98402 96996 | Management: +91 99403 48159

E mail: enquiry@revaphoenix.com | Website: www.revacalibration.com

Our Accredited Calibration Laboratories:

- Acceleration, Speed & Vibration, Acoustics
- Mechanical - Density & Viscosity
- Mechanical - Dimension - Basic Measuring Instrument, Gauge etc.
- Mechanical - Dimension - Precision Instruments
- Electro Technical - Time & Frequency, Simulation, Electrical Equipment, AC & DC
- Fluid Flow, Air & Water - Flow Measuring Devices
- Mechanical - Force, Push Pull, UTM, Durometer, Mobile Force Measuring System
- Mechanical - Hardness Testing Machines
- Mechanical - Impact Testing Machine
- Mechanical - Mass & Volume, Weighing Scale & Balance, Weights
- Optical Metrology, Lux Meter & Lamp
- Mechanical - Pressure Indicating Devices
- Thermal - Temperature, Specific Heat & Humidity
- Torque - Generating | Measuring Devices, Torque Wrench, Torque Sensors

Calibration Services

Mechanical | Dimension – All Basic & Precision Equipment | CMM Calibration | Pressure – Upto 4000 Bar | Torque – upto 3000 Nm | Mass E1 | Volume – Micro Pipette | Electro-Technical MFC & Oscilloscope | Thermal – Furnace Mapping & Pyrometer upto 1750°C | Force | Optics | Light Source | Lux Meter (1 to 2,00,000 Lux) | Acceleration | Speed | Tachometer | Rubber Hardness Tester | Fluid Flow | Anemometer | Acoustics | Mechanical Calibration | Rockwell | Brinell | Vickers | Micro-Vickers | UTM Calibration | UTM CTM TTM | Impact Testing Machine Calibration | Force Gauge | Push Pull Gauge | Leeb's Hardness | Portable Hardness Tester | Dynamic Hardness Tester | E1 Calibration | Density & Viscosity | Air Flow Meters | pH Meter | Conductivity Meter | Lab Master Equipment Calibration | Gauss | Reference Magnet | 3 Energy & Power | Liquid Flow Meter | Vibration | Portable Vibration Calibrator | Torque Sensor Upto 2000 Nm

Calibrated By		**Reviewed & Approved By | Authorized Signatory**		m.ll
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- End of Calibration Certificate -