

Date of Calibration	19.12.2024	Recommended due date	18.12.2025
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Mechanical - Dimension (Precision Instruments)

Calibration Certificate

For

SURFACE ROUGHNESS SPECIMEN

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-DIM-059	Satisfactory	Cleaned & Calibrated

Calibrated By		Reviewed & Approved By Authorized Signatory	
Identification	RPL-TM-01	Identification	Jayasree Manikandan

Date of Calibration	19.12.2024	Recommended due date	18.12.2025
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Date of Performance of Calibration	19.12.2024	Date of Issue	21.12.2024
		Recommended Due Date	18.12.2025

Name & Contact information of Customer:	IGP ENGINEERS PVT LTD., - Unit II (Ring Gasket Division), No.21, Gangaiamman Koil Street, Keezhur Village - 603 108.	Date of Receipt	19.12.2024
		CSRF Number	RPL/SRF/2024/671
		Location-Calibrated at	In House

Description of the Unit Under Calibration (UUC)

Description	SURFACE ROUGHNESS SPECIMEN	Model	178-602
Range	Ra: 2.94 µm ; Rmax(Ry): 9.3 µm	Serial No	302631907
Least Count	--	Identification No	IGP/TMMDE-86
Make	MITUTOYO	Accuracy	± 6%
Location	IGP Testing Room	Operating Range	Ra: 2.94 µm ; Rmax(Ry): 9.3 µm

Condition of unit under calibration on receipt	Satisfactory
Method used - Reva Phoenix Document Number	RPL-L03-DI-025-DIM-059
Reference Standard (International / National)	IS 3073

Environmental Details	Temperature	Start	20.2 °C	End	20.2 °C	Difference	0.2 °C
	Relative Humidity		52.3 %RH		52.6 %RH		0.3 %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	Surface Roughness Specimen	RMTL/01/323101854-A1 Valid till 04.06.2025
2	Surface Roughness Tester	JRPM-CF-2024-DIM-CSRF-0905-C-3380 Valid till 20.09.2026

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Discipline : Mechanical - Dimension (Precision Instruments)

Calibration Results

Sr.No.	Nominal Value	Observed Value	
		Min	Max
	µm	µm	µm
1	Ra: 2.94	2.945	2.955
2	Rmax(Ry): 9.3	9.336	9.338

1	Uncertainty of Measurement (at 95.45% confidence level with coverage factor k=2) ± µm :	8.82%
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Remarks :

Note: 'UOM' Indicates of Unit of Measurement

Digital Signature of Laboratory:
REVA PHOENIX LABS AND CONSULTANTS
PRIVATE LIMITED
Date: 07/01/2025 09:55:03 +05:30
Reason: Calibration Certificate
Location: Chennai

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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.

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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

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