



# Ecs Excellent Calibration Services Pvt. Ltd.,

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CC - 3621

ISO/IEC 17025 : 2017 Accredited Laboratory  
**CALIBRATION CERTIFICATE**

|                                                                                                                                                             |          |                                 |                                                                                                                                           |                        |                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------|
| CERTIFICATE NO: ECS/25/1262 - 04                                                                                                                            |          | ULR NO : ULR-CC362125000012902F |                                                                                                                                           | PAGE 1 OF 1            |                          |
| Customer Name                                                                                                                                               |          |                                 | Customer Reference                                                                                                                        |                        |                          |
| M/s. Christy FriedGram Industry Private Limited.,<br>A-2, A-3, SIDCO Industrial Estate,<br>Andipalayam Post, Thiruchengode,<br>Namakkal-637214.             |          |                                 | CRF.No : 1262<br>Date of Receipt : 11.09.2025<br>Cal Date : 12.09.2025<br>Recom.Due Date : 11.09.2026<br>Date of Issue : 12.09.2025       |                        |                          |
| Details of Unit Under Calibration                                                                                                                           |          |                                 |                                                                                                                                           |                        |                          |
| Name : External Micrometer<br>Make : Mitutoyo<br>Model : --<br>Range : 0-25mm<br>L.C : 0.001mm<br>ID No : CL - SG - 78 - 02                                 |          |                                 | SI No : 47173775<br>Type : Analog<br>Inst.Location : Chemical Lab<br>Calibration at : Dimension Lab<br>Instrument Received Condition Good |                        |                          |
| Reference Documents                                                                                                                                         |          | IS:2967 /1983(RF-2019)          |                                                                                                                                           | Working Instruction No |                          |
|                                                                                                                                                             |          |                                 |                                                                                                                                           | ECSPLWI / MECH - 05    |                          |
| Environmental Details                                                                                                                                       |          |                                 |                                                                                                                                           |                        |                          |
| Temperature in (°C)                                                                                                                                         | Start    | 20.3                            | End                                                                                                                                       | 20.1                   | Relative Humidity in (%) |
|                                                                                                                                                             |          |                                 |                                                                                                                                           |                        | 50                       |
| Standard Used for Calibration                                                                                                                               |          |                                 |                                                                                                                                           |                        |                          |
| Description                                                                                                                                                 | Make     | S.No / ID.No                    | Certificate No                                                                                                                            | Traceability           | Validity                 |
| Gauge Block                                                                                                                                                 | Aditya   | 2881 / ECS-SGB-02               | JRPM-CF-2024-DIM-CSRF-1097-C-4894                                                                                                         | CC-2428                | 13.11.2026               |
| Optical Flat                                                                                                                                                | Mitutoyo | 30012 / ECS-OF-01               | RPL-2025-0334-C-003834                                                                                                                    | CC-4178                | 01.04.2027               |
| Expanded uncertainty of measurement obtained by multiplying the standard uncertainty by the coverage factor k=2 corresponds to confidence level of 95.45% ) |          |                                 |                                                                                                                                           |                        | ±2.1µm                   |

## Result Of Calibration (All Dimensions Are in mm) - Dimension

| Nominal Value | Measured Value | Error  |
|---------------|----------------|--------|
| 0.000         | 0.000          | Set    |
| 2.500         | 2.500          | 0.000  |
| 5.100         | 5.100          | 0.000  |
| 7.700         | 7.699          | -0.001 |
| 10.300        | 10.299         | -0.001 |
| 12.900        | 12.900         | 0.000  |
| 15.000        | 15.000         | 0.000  |
| 17.600        | 17.601         | 0.001  |
| 20.200        | 20.201         | 0.001  |
| 22.800        | 22.800         | 0.000  |
| 25.000        | 25.000         | 0.000  |

## Measuring Face Of Flatness And Parallelism

|                                |         |
|--------------------------------|---------|
| Flatness Of Anvil Face         | 0.00096 |
| Flatness Of Spindle Face       | 0.00096 |
| Parallelism Of Measuring Faces | 0.001   |

## Permissible error as per Standards IS: 2967/1983

| Range in mm | Tolerance Of Zero Setting In µm | Permissible Error In µm |
|-------------|---------------------------------|-------------------------|
| 0 - 25      | ± 2                             | ± 4                     |
| 25 - 50     | ± 2                             | ± 4                     |
| 50 - 75     | ± 3                             | ± 5                     |

Calibrated by

S.Ramachandran

Sr.Calibration Engineer



\*\*\*End Of Certificate\*\*\*



Approved by

G.Kamaraj

Technical Manager

- ◆ This Certificate Refer to the values Obtained at the time of Calibration & at the above stated Condition.
- ◆ The Calibration results reported Corresponds to the particular item mentioned above.
- ◆ Equipment used for calibration were calibrated and are traceable to National / International Standards.
- ◆ Certificate shall not be Reproduced Except in full without the written approval from our Laboratory.
- ◆ Recommended due date mentioned as per customer requirement.
- ◆ Measurement uncertainty is reported at approximately 95.45% confidence level with k=2.

ECSPQLF/7.8/01