



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 - 03		ULR NO : ULR-CC362125000012901F		PAGE 1 OF 1	
Customer Name			Customer Reference		
M/s. Christy FriedGram Industry Private Limited., A-2, A-3, SIDCO Industrial Estate, Andipalayam Post, Thiruchengode, Namakkal-637214.			CRF.No : 1262 Date of Receipt : 11.09.2025 Cal Date : 12.09.2025 Recom.Due Date : As Per Customer Plan Date of Issue : 12.09.2025		
Details of Unit Under Calibration					
Name : Vernier Caliper Make : Mitutoyo Model : --- Range : 0-300mm L.C : 0.02mm ID : ---			SI. No : 18268248 Type : Analog Inst.Location : -- Calibration at : Dimension Lab Instrument Received Condition Good		
Reference Documents		IS:16491 (PART-1) - 2024		Working Instruction No : ECSPLWI / MECH - 01	
Environmental Details					
Temperature in (°C)		Start	20.3	End	20.2
		Relative Humidity in (%)			48
Standard Used for Calibration					
Description	Make	S.No / ID.No	Certificate No	Traceability	Validity
Caliper Checker	Mikronix	2464 / ECS-CC-02	JRPM-CF-2024-CSRF-0641-C-2392	CC-2428	07.07.2026
Gauge Block	Aditya	2881 / ECS-SGB-02	JRPM-CF-2024-DIM-CSRF-1097-C-4894	CC-2428	13.11.2026
Expanded uncertainty of measurement obtained by multiplying the standard uncertainty by the coverage factor k=2 corresponds to confidence level of 95.45%)					±16.6µm

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

Out Side Master Reading	Instrument Reading	Error	Inside Master	Instrument Reading	Error	Depth Master	Error
0.00	0.00	-0.04	-	-	-	0.00	0.00
20.00	19.88	-0.12	20.00	20.04	0.04	20.00	0.00
50.00	49.88	-0.12	50.00	50.04	0.04	50.00	0.00
100.00	99.88	-0.12	100.00	100.04	0.04	100.00	0.00
150.00	149.90	-0.10	150.00	150.04	0.04	150.00	0.00
200.00	199.90	-0.10	200.00	200.04	0.04	200.00	0.00
250.00	249.90	-0.10	250.00	250.04	0.04	250.00	0.00
300.00	299.90	-0.10	300.00	300.04	0.04	300.00	0.00

Line Of Contact Error(External Jaw)		Crossed Knife Edge Error(Internal Jaw)		Scale Shift Error in (mm)			
Nominal Value Of Pin (mm)	Observed Value in mm	Nominal Value Of Ring (mm)	Observed Value in mm	Jaws	Nominal Value	Observed Value	Error
10.00	9.88	5.00	5.04	External	20.00	19.98	-0.02
				Internal	20.00	20.04	0.04
Parallelism Error of Jaws		External	0.08	Internal	0.00	Different Of Scale Shift Error	
							0.06

Permissible Error As Per Standards IS:16491 (PART-1) - 2024

Measured Length In mm	Permissible Error In µm(EMPE)	Scale Shift Max Permissible Error(SMPE)
0 ≤ L ≤ 50	± 20	±40
50 ≤ L ≤ 100	± 40	±60
100 ≤ L ≤ 150	± 40	±60
200 ≤ L ≤ 300	± 40	±60

Calibrated by

S.Ramachandran
Sr.Calibration Engineer



End Of Certificate



Approved by

G.Kamara
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.

ECSP/LQF/7.8/01