Testing Electrical Standards Laboratory And
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TC-6091

TESLA/FF-050

Calibration Certificate

Certificate No	**LM250310/1 / TC / FL / 001**	Unique Lab Report (ULR) ID	**CC234525000000018F**
Date of Calibration	**10/3/2025**	Recommended Next Due Date*	**10/3/2026**
Receipt / WRF No.	**LM250310/1**	Date of DUC Received	**10/3/2025**
Certificate Issue Date	**10/3/2025**	Calibration performed at	**Lab**

Details of Customer

Name	**xyz company**
Address	0
Ref. Doc. No.	LTB-1003
Date of Doc.	10/3/2025

Details of Device under Calibration (DUC)

Nomenclature	**Vernier Caliper**		
Calibration Range	**0 to 300 mm**	Mfg. Serial No	**sr_02**
Resolution	**0.01 mm**	Identification No	**id_02**
Make / Model	**ABB / ABB_DFM**	Condition of DUC	**Good**

Details of Calibration Masters and Traceability

Lab ID	Description of Master	Traceability
CEQ025	Caliper Checker, Make : Aditya, Sr. No. : 1019, Size : 20 to 600 mm	Traceable to National Standard through NABL Lab Certif. No CC-2188, Pune, Certificate No. 2024/01/101, Cal Date : 04/01/2024, Valid up to 03/01/2026
CEQ024	M-88 Steel Slip Gauge Set, Make : Aditya, Sr. No. : 3187, Size : 0.5 to 100 mm, Grade : 0	Traceable to National Standard through NABL Lab Certif. No CC-2188, Pune, Certificate No. 2024/01/096, Cal Date : 04/01/2024, Valid up to 03/01/2026
CEQ037	Steel Length bars (11 Nos), Make : Mikronix, Sr. No. : 4902, Size : 25 to 50 mm	Traceable to National Standard through NABL Lab Certif. No CC-2188, Pune, Certificate No. 2024/01/100, Cal Date : 04/01/2024, Valid up to 03/01/2026
CEQ038	Steel Length bars (12 Nos), Make : Mikronix, Sr. No. : 4903, Size : 25 to 300 mm	Traceable to National Standard through NABL Lab Certif. No CC-2188, Pune, Certificate No. 2024/01/099, Cal Date : 03/01/2024, Valid up to 02/01/2026

Details of Calibration Procedure and Reference Documents

Lab Procedure	Method of Calibration
Lab Procedure No. : COP/001-01	The calibration of DUC was carried out by using Precision Caliper Checker, Slip Gauge and Length bars for External, Internal & Depth measurement
Calibration Method is generally based on	NABL 129 - 2019, IS 16491 (Part 1) - 2016

Details of Environment Condition at the Time of Calibration

Temperature (20°C ± 2°C)	#DIV/0! °C	Relative Humidity (50 ± 15% Rh)	#DIV/0! % Rh
Uncertainty of Measurement	**± 10.0 µm**		

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2 such that the coverage probability corresponds to 95.45% confidence level

To verify the basic details of the Calibration Certificate kindly scan the QR code and follow the link provided

CC-2857

Reviewed and Authorized by
Denish Vaghasia (CEO)
Digitally Signed

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DISCIPLINE : MECHANICAL CALIBRATION

GROUP : DIMENSION (BASIC MEASURING INSTRUMENT,GAUGE ETC.)

Calibration Result

1.0 Calibration Result of DUC / Error of Measurement (All value in mm)

Sr. No.	External Measurement			Internal Measurement			Depth Measurement		
	Standard Size	Observed on DUC	Error	Standard Size	Observed on DUC	Error	Standard Size	Observed on DUC	Error
1	0.000	0.00	0.00	20.000	20.00	0.00	0.000	0.00	0.00
2	20.000	20.00	0.00	50.000	50.00	0.00	25.000	25.00	0.00
3	50.000	50.00	0.00	100.000	100.00	0.00	50.000	50.00	0.00
4	100.000	100.00	0.00	150.000	150.00	0.00	100.000	100.00	0.00
5	150.000	150.00	0.00	200.000	200.00	0.00	150.000	150.00	0.00
6	200.000	200.00	0.00	250.000	250.00	0.00	200.000	200.00	0.00
7	250.000	250.00	0.00	300.000	300.00	0.00	250.000	250.00	0.00
8	300.000	300.00	0.00	-	-	-	300.000	300.00	0.00

2.0 Parallelism error of measuring Jaws (All Value in mm)

Parallelism of external measuring jaws	0.012	Parallelism of Internal measuring jaws	0.011

General Remarks

- The reading has been rounded off wherever applicable
- Calibration is performed without doing any adjustment in its original condition at time of receipt/calibration, unless mentioned herein
- The calibration results relate only to the item calibrated and result reported in the certificate are valid at the time of and under the stated conditions of measurement.
- The Calibration certificate shall not be reproduced except in full, without written permission of the Laboratory
- *Recommended Next Due Date is reported as per requisition of customer

-- End of Certificate --

To verify the basic details of the Calibration Certificate kindly scan the QR code and follow the link provided

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