# Calibration Certificate of Digital Caliper

Certificate No. : M /23-24/ 3256-02
ULR No. : CC236323000035939F

Date of issue : 21-11-2023
Date of Calibration : 20-11-2023
Next Calibration Due : 19-11-2024

**DESCRIPTION OF INSTRUMENT:** 

#### NAME AND ADDRESS OF CUSTOMER:

 xx
 Range
 : 0 - 200 mm

 xx
 Leastcount
 : 0.01 mm

 xx
 Identification No.
 : KDV194

 SI . No
 : A22341809

 Make
 : Mitutoyo

Customer's Reference : D.C./P.O. No: 205110 Date: 03-11-2023
Date of Receipt : 15-11-2023 Our Inward No.: M /SER/23-24/ 3256-2
Condition On Receipt : Satisfactory Calibration done at : Dimension Lab

Calibration Procedure No. : M-CP-001 [Based on IS 16491 - Part 1(2016)]

Environmental Condition during calibration : Temperature : 20.9 °C Humidity : 50.2 %RH Uncertainty of Measurement : ± 10.7 µm (At 95.45% confidence level with coverage factor k = 2)

## **Reference Standards & Equipments Used For Calibration**

Sr. No.	Name of the Master Used	ld. No.	Calibration Report No.	Valid Upto	Traceability
1	Caliper Checker, 600mm	MMT-RS-07	M/22-23/INH-025	24-01-25	NABL Lab. No. CC-2363
2	Gauge Block Set Grade '0'	MMT-RS-54	KCP/01/23-24/2535	09-06-25	NABL Lab. No. CC-2323
3	Cylindrical Setting Master	MMT-RS-24	M/23-24/INH-019	01-12-25	NABL Lab. No. CC-2363
4	Setting Ring Gauges, 4 - 100mm	MMT-RS-22	M/23-24/INH-006	28-04-25	NABL Lab. No. CC-2363

# MECHANICAL CALIBRATION (DIMENSION) CALIBRATION RESULTS

(All values are in mm)

PARTIAL CONTACT ERROR - EXTERNAL MEASUREMENT					
Reference Size	Observed Reading on Caliper	Error			
0	0	0			
21.24	21.23	-0.01			
51.36	51.35	-0.01			
90.00	89.99	-0.01			
120.00	119.99	-0.01			
150.00	149.99	-0.01			
180.00	179.99	-0.01			
200.00	199.99	-0.01			

PARTIAL CONTACT ERROR - DEPTH MEASUREMENT				
Reference Size	Observed Reading on	Error		
Neierence Size	Caliper	Liloi		
20.00	20.01	0.01		
50.00	50.01	0.01		
100.00	100.01	0.01		
150.00	150.01	0.01		
200.00	200.01	0.01		

PARTIAL CONTACT ERROR - INTERNAL MEASUREMENT				
Reference Size	Observed Reading on	Error		
11010101100 5120	Caliper	Litoi		
20.00	20.01	0.01		
50.00	50.01	0.01		
80.00	80.01	0.01		
110.00	110.01	0.01		
140.00	140.01	0.01		
170.00	170.01	0.01		
200.00	200.01	0.01		

ERROR OF INDICATION				
Scale Shift Error (External Vs Internal)	0			
Scale Shift Error (External Vs Depth)	0.01			
Line Contact Error	0.01			
Full Surface Contact Error	0			
Error due to crossed kinfe edge distance	0.01			
Repeatability of Partial Surface Contact error	0.01			

\*\*\* END OF CERTIFICATE \*\*\*

### AUTHORISED BY

R.Balamuralikrishnan (Quality Manager)

Calibrated By: B.Manikandan
Designation: (Calibration Engineer)

MIMPL-CL-004-24-D-001/02 Issue No.01 Issue Date:01/02/2024