



# NATIONAL CENTRE FOR QUALITY CALIBRATION

4, Abhishree Corporate Park, Nr. Swagat Bangalows BRTS, Iskcon-Ambli Road, Ambli, Ahmedabad-380 058

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Visit our Web Site : [www.calibrationlaboratory.in](http://www.calibrationlaboratory.in)



CC-2128

Precision Calibration with National / International Traceability for Temperature, Dimensional, Pressure, Vacuum, Time, Mass, Electrical, Noise, Airflow, Lux & all Special Purpose Instruments in all ranges.

## Calibration Certificate

F/CR/M/005 Issue No. 02

<b>Name of Customer</b> National Centre for Quality Calibration 4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS, Iskcon - Ambli Road, Ambli, Ahmedabad - 380 058, Gujarat	Certificate No. NCQC-M/191223/002 Date of Issue 20/12/2023 Date of Calibration 19/12/2023 Suggested Due Date 18/12/2024 Date of Receipt / Ref.No.: 19/12/2023
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ULR No. : CC212823000009359F      Discipline : Mechanical Calibration  
Dimensional (Basic- Measuring Instrument, Gauges etc.)

**Details of Observation of Unit Under Calibration**  
Identification No. : NCQC/M-137  
Serial No. : 170691035  
Name of Instrument : Digital Caliper


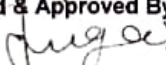
Range Resolution Make / Model Location	0 to 300 mm 0.01 mm Baker/=== Lab	Initial Error Visual Inspection Accuracy	Nil Satisfactory ± 0.01 mm Digital
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Loc. of Calibration Environment Cond. Actual Env. Cond.	At Laboratory 20 ± 2 °C, 40 % to 60 % Rh 19.7 °C      51.1 %Rh	Std. Ref. Used Cali.Method No.	IS 16491, Part - I NCQC/CM/M/005
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### Master Instruments Detail

NCQC SYS.NO.	Nomenclature	Make/ Model	Id / Serial No.	Traceable To	Certificate No.	Valid Upto
98	Tungsten Carbide Slip Gauge set	Mikronix / M88/1	NCQC/M-108/3909	CC-2102	SG 3980	17/09/2025
45	Internal Micro Checker	Aditya / ===	NCQC/M-06 / IMC 0500	CC-2082	P/09/230021	10/09/2025
285	Digital Micrometer	Mitutoyo / ===	NCQC/M-133 / 67198041	CC-2128	NCQC-M/201222/006	19/12/2023

Traceable To National / International Standards.

Calibrated By 	Maulik Rathod Calibration Engineer	Reviewed & Approved By 	Jigar Panchal Calibration Incharge
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NCQC DEFINES CALIBRATION AS "PRECISION AND RELIABILITY OF INSTRUMENTS FOR YOUR BETTER TOMORROW"



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F/CR/M/005 Issue No. 02

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	Date of Issue	20/12/2023
	Date of Calibration	19/12/2023
	Suggested Due Date	18/12/2024
	Date of Receipt / Ref.No.: 19/12/2023	

ULR No. : CC21282300009359F	Discipline : Mechanical Calibration Dimensional (Basic- Measuring Instrument, Gauges etc.)
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<b>Details of Observation of Unit Under Calibration</b>	Identification No. : NCQC/M-137
	Serial No. : 170691035
	Name of Instrument : Digital Caliper

### Calibration Results

Standard Readings in mm	Reading Observer by UUC in mm (Outside Measuring Jaw)	Reading Observer by UUC in mm (Inside Measuring Jaw)	Error in mm (outside Measuring Jaw)	Error in mm (inside Measuring Jaw)	Expanded Uncertainty (OMJ) in $\mu\text{m} \pm$	Expanded Uncertainty (IMJ) in $\mu\text{m} \pm$
0.00	0.00	====	0.00	====	7.93	====
50.00	50.00	50.00	0.00	0.00	7.93	7.93
100.00	100.00	100.00	0.00	0.00	7.93	7.93
150.00	150.00	150.00	0.00	0.00	7.93	7.93
200.00	200.00	200.01	0.00	0.01	7.93	8.78
250.00	249.99	250.01	-0.01	0.01	7.93	8.46
300.00	299.99	300.01	-0.01	0.01	7.93	7.93

### Calibration Results of Depth Side

Standard Readings in mm (Depth Measuring Jaw)	Reading Observer by UUC in mm (Depth Measuring Jaw)	Error in mm (Depth Measuring Jaw)	Expanded Uncertainty (DMJ) in $\mu\text{m} \pm$
0.00	0.00	0.00	7.93
50.00	50.00	0.00	7.93
100.00	100.00	0.00	7.93

Gap in outside measuring Jaw within 5  $\mu\text{m}$

Gap in Inside measuring Jaw within 8  $\mu\text{m}$

### Remarks:

- Averages of minimum five readings are reported.
- Suggested due date is given based on customer requirements.
- These results are obtained at the time of calibration.
- Result relates to the item calibrated only.
- No external provider was used for calibration and hence it is not applicable.
- Calibration certificate shall not be reproduced except in full without written approval of Director, NCQC.
- Any hand written corrections (except @) or photocopies of the report invalidates this certificate.
- The uncertainties are for a confidence probability of not less than 95% with coverage factor  $k = 2$ .
- Condition of instrument found satisfactory.
- Our masters are directly calibrated through NABL accredited calibration laboratory having direct traceability with National / international standard.

Traceable To National / International Standards.

Calibrated By 	Maulik Rathod Calibration Engineer	Reviewed & Approved By 	Jigar Panchal Calibration Incharge
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