



# NATIONAL CENTRE FOR QUALITY CALIBRATION

4, Abhishree Corporate Park, Nr. Swagat Bungalows 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

Since 1998

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/010/02 Issue No.02

Name of Customer

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/050623/027

Date of Issue

06/06/2023

Date of Calibration

05/06/2023

Suggested Due Date

04/06/2024

Date of Receipt / Ref.No.: 05/06/2023

ULR No. : CC21282300004025F

Discipline : Mechanical Calibration  
Dimensional (Basic-Measuring Instrument, Gauges etc.)

Details of Observation of Unit Under Calibration

Identification No. : NCQC/M-186

Serial No. : ZJY 846

Name of Instrument : Dial Indicator (Lever Type Dial Gauge)

Range 0 to 0.14 mm  
Resolution 0.001 mm  
Make / Model Mitutoyo/===  
Location

Visual Inspection

Ok, Free Movement of Pointer on Dial

Type / Size

Lever type

Loc. of Calibration At Laboratory  
Environment Cond. 20 ± 2°C, 40 to 60 %Rh  
Actual Env. Cond. 20.9 °C 50.4 %Rh

Std. Ref. Used

IS 11498

Cali.Method No.

NCQC/CM/M/010

### Master Instruments Detail

NCQC SYS.NO.	Nomenclature	Make/ Model	Id / Serial No.	Traceable To	Certificate No.	Valid Upto
226	Length Measuring Machine	Octagon / LMM300T	NCQC/M-24 / 050	CC-2751	OM / 46 / 220048	02/03/2025

### Normal Direction of stylus

Division of Dial	0.000	0.014	0.028	0.042	0.056	0.070	0.084	0.098	0.112	0.126	0.140
Clockwise	0.0	0.3	0.2	0.4	0.2	0.5	0.3	0.6	0.2	0.8	0.3
Anti - Clockwise	0.6	0.5	0.3	0.8	0.4	0.3	0.2	0.5	0.6	0.3	0.7

### Change in Direction of stylus

Division of Dial	0.000	0.014	0.028	0.042	0.056	0.070	0.084	0.098	0.112	0.126	0.140
Clockwise	0.0	0.2	0.5	0.6	0.8	0.3	0.2	0.7	0.6	0.8	0.9
Anti - Clockwise	0.7	0.9	0.7	0.8	1.2	1.1	1.2	1.4	1.2	1.5	1.3

NCQC  
Valid up to 04-06-2024  
Reviewed *[Signature]*

Calibrated By

Traceable To National / International Standards.

*[Signature]* Harsh Patel  
Calibration Engineer

Reviewed & Approved By



*[Signature]*  
Arif Shaikh  
Calibration Incharge

NCQC System Certificate No. 373

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Identification No. : NCQC/M-186

Serial No. : ZJY 846

Name of Instrument : Dial Indicator (Lever Type Dial Gauge)

### Performance of UUC

Parameter	Observed Value in mm
Error in Any 0.02 mm	-0.0006
Error in 1/2 revolution - Normal Direction of stylus	0.0006
Error in 1/2 revolution - Change in Direction of stylus	0.0008
Error in any Large interval up to 1 revolution - Normal Direction of stylus	0.0008
Error in any Large interval up to 1 revolution - Change in Direction of stylus	0.0009
Repeatability	0.0007
Hysteresis	0.0010

Expanded Uncertainty in  $\mu\text{m}$  ( $k=2$ ) :  $\pm 1.60$

Remarks:

- Suggested due date is given based on customer requirements
- All values are in  $\mu\text{m}$
- These results are obtained at the time of calibration.
- Condition of instrument found satisfactory during receipt.
- 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  $k=2$
- Our masters are directly calibrated through NABL accredited calibration laboratory having direct traceability with National / international standard.

Traceable To National / International Standards.

Calibrated By

Harsh Patel  
Calibration Engineer

Reviewed & Approved By

Anil Shaikh  
Calibration Incharge

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