



# NATIONAL CENTRE FOR QUALITY CALIBRATION

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CC-2128

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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/083 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	<b>Certificate No.</b>	NCQC-M/140623/024
	<b>Date of Issue</b>	14/06/2023
	<b>Date of Calibration</b>	14/06/2023
	<b>Suggested Due Date</b>	13/06/2024
<b>Date of Receipt / Ref.No.:</b> 14/06/2023		

<b>ULR No. :</b> CC212823000004641F	<b>Discipline :</b> Mechanical Calibration Dimensional (Precision-Precision Instruments and Surface Topology)
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<b>Details of Observation of Unit Under Calibration</b>	<b>Identification No. :</b> NCQC/M-206
	<b>Serial No. :</b> 12785/2
	<b>Name of Instrument :</b> Bench Centre

<b>Range</b>	===	<b>Visual Inspection</b>	Ok
<b>Resolution</b>	===		
<b>Make / Model</b>	Micro-Flat/===	<b>Type / Size</b>	=== / 500x160 mm
<b>Location</b>	Lab		

<b>Loc. of Calibration</b>	At Laboratory	<b>Std. Ref. Used</b>	IS 5980
<b>Environment Cond.</b>	20 ± 5 °C, 40 to 60 % Rh	<b>Cali.Method No.</b>	NCQC/CM/M/083
<b>Actual Env. Cond.</b>	20.9 °C 52.2 %Rh		

### Master Instruments Detail

NCQC SYS.NO.	Nomenclature	Make/ Model	Id / Serial No.	Traceable To	Certificate No.	Valid Upto
373	Dial Indicator (lever type dial gauge)	Mitutoyo / ===	NCQC/M-186 / ZJY 846	CC-2128	NCQC-M/050623/027	04/06/2024
275	Cylindrical Mandral	Unity / ===	NCQC/M - 181 / ===	CC-2378	9283/N/2021	05/12/2023
353	Taper Test Mandrel	Unity / ===	NCQC/M-174 / ===	CC-2378	7482/N/2021	01/10/2023

### Calibration Results

Parameter Checked	Permissible error in µm	Observed Value in µm	Expanded Uncertainty in µm (k=2) (±)
Co-axiality of centres	15	9	7.7
Parallelism of axis of centres	10 / 300 mm	7	6

#### Remarks

- 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 in the report invalidates this certificate.
- Uncertainty of measurement at 95% confidence level at coverage factor k = 2.
- Our masters are directly calibrated through NABL accredited calibration laboratory having direct traceability with national / international standard

NCQC  
 Valid up to 13-06-2024  
 Reviewed *[Signature]*

<b>Traceable To National / International Standards.</b>	
<b>Calibrated By</b> <i>[Signature]</i> Maulik Rathod Calibration Engineer	<b>Reviewed &amp; Approved By</b> <i>[Signature]</i> Anif Shaikh Calibration Incharge

NCQC System Certificate No. 401