



NATIONAL CENTRE FOR QUALITY CALIBRATION

4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS, Iskon-Ambli Road, Ambli, Ahmedabad-380 058
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CC-2128

Since 1998

Visit our Web Site : www.calibrationlaboratory.in

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

TRUE COPY

Name of Customer → National Centre For Quality Calibration 4, Abhishree Corporate Park, Nr. Swagat Banglows, BRTS, Iskon – Ambli Road, Ambli, Ahmedabad. – 380058.		Certificate No.	NCQC-M/211221/05
		Date of Issue	21-12-2021
		Date of Calibration	21-12-2021
		Suggested Due Date	20-12-2022
Date Of Receipt / Ref. No. → 21-12-2021		F/CR/M/001/02, Issue No.01 Page 1 of 2	
ULR – CC212821100000140F		Discipline → Mechanical Calibration, Dimension (Basic-Measuring Instrument, Gauges etc)	
Details of Observation of Unit Under Calibration		Identification No.	: NCQC/M-133
		Serial No.	: 67198041
		Name of Instrument	: Digital Micrometer
Range	0 – 150 mm	Flatness	Within 2 Micron
Least Count	0.001 mm	Parallelism	Within 2 Micron
Make	Mitutoyo	Initial Error	Nil
Accuracy	± 0.002 mm		

Standard size of Slip Gauge Set in mm	Reading observed by UUC in mm	Error in mm
125.000	125.000	0.000
127.500	127.500	0.000
130.100	130.100	0.000
132.700	132.700	0.000
135.300	135.300	0.000
137.900	137.900	0.000
140.000	140.000	0.000
142.600	142.600	0.000
145.200	145.200	0.000
147.800	147.801	0.001
150.000	150.001	0.001

Calibration Results of Setting Pieces

Standard Size of setting Piece in mm	Observed Reading in mm	Absolute Error in mm	± Expanded Uncertainty (k = 2)
25.000	25.0000	0.0000	6.4 µm
50.000	49.9998	0.0002	6.4 µm
75.000	75.0001	0.0001	6.4 µm
100.000	99.9998	0.0002	6.4 µm
125.000	124.9998	0.0002	6.4 µm

NCQC System Certificate No. **285**

Traceable To National / International Standards.

Calibrated By

Arif Shaikh

Reviewed & Approved By

Jigar Panchal

NCQC DEFINES CALIBRATION AS "PRECISION AND RELIABILITY OF INSTRUMENTS FOR YOUR BETTER TOMORROW"



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	Serial No.	: 67198041	
	Name of Instrument	: Digital Micrometer	

Remarks:

- ↳ All the errors are found within the acceptance criteria (i.e. ± 0.002 mm) specified by the customer.
- ↳ Instrument found '**ACCEPTED**' after calibration.
- ↳ Averages of minimum three readings are reported.
- ↳ These results are obtained at the time of calibration.
- ↳ Condition of instrument found satisfactory during receipt.
- ↳ Any hand written corrections (except @) or photocopies of the report invalidates this certificate.
- ↳ Environment condition during calibration: $20 \pm 2^\circ\text{C}$, 40 to 60 % Rh.
- ↳ Location of Performance of Calibration → At Lab.
- ↳ Uncertainty of measurement at 95% confidence level is ± 1.52 micron by multiplying coverage factor $k = 2$.
- ↳ Reference calibration method no.: NCQC/CM/M/001 & 003.
- ↳ Reference IS standard no.: IS 2967.
- ↳ Our masters are directly calibrated through NABL accredited calibration Laboratory having direct traceability with national / international standard.

Details of Master Instrument Used for Calibration

Nomenclature	Make / Model	Sr. No. / Id. No.	Calibration Due Date
Slip Gauge Set	Mikronix/===	3910/NCQC/M-107	22-09-2023
Slip Gauge Set	Aditya / ===	2967/NCQC/M-109	22-09-2023
Optical Parallel Set	Mitutoyo/===	021478,007579,007531,007740/NCQC/M-172	19-09-2023
Optical Flat	Mitutoyo/===	003728/NCQC/M-171	19-09-2023
Electronic Probe with DRO	Sylvac/===	DRO: 11273017 & Prob : 13944 / NCQC/M-129	04-10-2022
Surface Plate	Microflat/===	6543 / NCQC/M-09	30-08-2022

NCQC System Certificate No.

Certificate no. & traceability of master with National Standards

119	↳ Our master slip gauge set is calibrated and traceable to National Standard through NABL accredited Laboratory Mikronix Associates, Certificate no.SG 3110, Date – 23-09-2021.
84	↳ Our master slip gauge set is calibrated and traceable to National Standard through NABL accredited Laboratory Mikronix, Aurangabad, Certificate no. SG 3112, Date – 23-09-2021.
350	↳ Our master optical parallel set is calibrated and traceable to National Standard through Quality Solutions, Faridabad , Certificate no. QSI/2586/21/09,, Date – 20-09-2021.
351	↳ Our master optical Flat is calibrated and traceable to National Standard through Quality Solutions, Faridabad , Certificate no., QSI/2585/21/09, Date – 20-09-2021.
292	↳ Our master Electronic Probe with D.R.O. is in-house calibrated and traceable to National Standard through NABL accredited Laboratory as per Certificate no. NCQC-M/051021/01, Date – 05-10-2021.
08	↳ Our master Granite Surface Plate is in-house calibrated and traceable to National Standard through NABL accredited Laboratory as per Certificate no. NCQC-M/310821/01, Date – 31-08-2021.

Traceable To National / International Standards.

Calibrated By

Arif Shaikh

Reviewed & Approved By

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