



NATIONAL CENTRE FOR QUALITY CALIBRATION

4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS, Iskcon Ambli Road, Ambli, Ahmedabad-380 058
 Ph. +91-79-29795322, 29795323 • Fax: +91-79-29795323 • Cell No. +91-9327017517, +91-9328616370
 E-mail : ncqc@calibrationlaboratory.in, • calibrationlab.ncqc@gmail.com



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/040 IssueNo. 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/290823/001	
	Date of Issue 29/08/2023	
	Date of Calibration 29/08/2023	
	Suggested Due Date 28/08/2024	
Date of Receipt / Ref.No.: 29/08/2023		

ULR No. : CC212823000007113F	Discipline : Mechanical Calibration Dimensional (Basic-Measuring Instrument, Gauges etc.)
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Details of Observation of Unit Under Calibration	Identification No. : NCQC/M-14
	Serial No. : SB-01
	Name of Instrument : Sine bar

Range 100 mm	Visual Inspection OK
Make / Model Micro-Flat/===	
Location Standard Room--Mechanical Lab	

Loc. of Calibration At Laboratory	Std. Ref. Used IS 5359
Environment Cond. 20 ± 2 °C, 40 to 60 % Rh	Cali.Method No. NCQC/CM/M/040
Actual Env. Cond. 20.8 °C 52.2 %Rh	

Master Instruments Detail

NCQC SYS.NO.	Nomenclature	Make/ Model	Id / Serial No.	Traceable To	Certificate No.	Valid Upto
84	Slip Gauge set	Aditya / M88/1	NCQC/M-109 / 2967	CC-2102	SG 3112	22/09/2023
292	Electronic Probe With D.R.O	Sylvac/ ===	NCQC/M-129/112730 17	CC-2128	NCQC-M/011022/001	30/09/2023
14	Granite Surface Plate	Micro-Flat / ===	NCQC/M-113 / 9965	CC-2128	NCQC-M/080823/001	07/08/2024
265	Angle Gauge Set	KCP/ ===	NCQC/M-118 / 10354	CC-2323	KCP/38/21-22/207	24/10/2023

Calibration Results

Parameter	Permissible Value	Observed Value	Expanded Uncertainty (k =2) (±)
Parallelism of top working surface w.r.t. Rollers	1.0	0.8 µm	4.91 µm
Angular Error at 15°	0.8	0.6 µm	19.60 Sec.
Angular Error at 30°	1.0	0.9 µm	19.60 Sec.
Angular Error at 45°	1.3	1.2 µm	19.60 Sec.

Remarks:

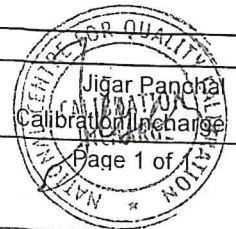
- Averages of minimum five readings are reported.
- Suggested due date is given based on customer requirements.
- Condition of instrument found satisfactory during receipt.
- These results are obtained at the time of calibration.
- Result relates to the item calibrated only.
- No external provider was 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
- Our masters are directly calibrated through NABL accredited calibration laboratory having direct traceability with National / international standard.

Traceable To National / International Standards.

Calibrated By
 Valid up to 28-08-2024
 Reviewed *[Signature]*

[Signature] Yash Shah
 Calibration Engineer

Reviewed & Approved By



NCQC System Certificate No.12