CALIBRATION CERTIFICATE

CUSTOMER : **M/S NATIONAL CENTRE FOR QUALITY CALIBRATION**
HOUSE NO. 4, ABHISHREE CORPORATE PARK, NR. SWAGAT BUNGALOW BRTS , ISKCON-AMBLI ROAD , AMBLI , AHMEDABAD -380058

Date of Performance	:	09/09/2023	Certificate No.	:	QSI/ 1523/23/09
Date of Issue	:	11/09/2023	Service Request Date / Receipt Date	:	08/09/2023
Service Request No.	:	1523	Total Page	:	1
Page	:	1	Environment Temperature	:	(20 ± 1)°C
Unit Under Calibration	:	OPTICAL PARALLEL SET	Relative Humidity(%RH)	:	(50 ± 10) %
Calibration Procedure	:	QMP-25(WI-80M)	Location of calibration	:	At QSI Dimension Lab
Visual Inspection	:	OK			

DETAILS OF UNIT UNDER CALIBRATION

Make/ Model	Range	Location	Optical parallel Sr. No.	Series / Model No.	ID No.
MITUTOYO 157-903	Flatness : 0.1 µm Parallelism : 0.2 µm Diameter : 30mm Thickness : (12.0, 12.12 ,12.25 , 12.37)mm ±0.01mm	-------	021478 007579 007531 007740	157-101 157.102 157-103 157-104	NCQC/M-172

DETAILS OF STANDARD EQUIPMENTS USED FOR CALIBRATION

Name	Make	Sr. No./ID No.	Certificate No.	Validity	Calibrated By
Optical flat	MICRON	100915	MetR1/2021-40	03/12/2023	NABL LAB CC-2006 (CMERI)
Two Probe Comparator (Gauge block calibrator)	KCP-TESA	207 QSI/SGC/01	QSI/2497/21/09	14/09/2023	NABL LAB CC-2717

OBSERVATIONS

DESCRIPTION				Observed Flatness Of face A- Top (µm)	Observed Flatness Of face B- Top (µm)	Observed Parallelism (µm)
Model of set	Series	Sr. No	Thickness in mm			
157-903	157-101	021478	12.00 ± 0.01	0.0492	0.0369	0.02 µm
	157-102	007579	12.12 ± 0.01	0.0369	0.0492	0.04 µm
	157-103	007531	12.25 ± 0.01	0.0614	0.0369	0.05 µm
	157-104	007740	12.37 ± 0.01	0.0492	0.0614	0.03 µm

ULR NO. CC271723000001498F
UUC:- Unit Under Calibration
Format no : F01(QMP-21) -7.8 , Issue no/ Date : 01/ 01/11/2019 , Revision no/ Date : 00 / 01/11/2019
Traceability of Standard(s) : The Standard Used for calibration is traceable to National Standards
Uncertainty of Measurement (At approximately 95% Confidence Level, k=2) : ± 0.11 µm
Remark : Ref. Standard IS-5440-2020
RESULT: ***Results of*** **UUC** ***compliance to required Accuracy of*** **Manufacturers** (Flatness : 0.1 µm & Parallelism : 0.2 µm) **Results OK**
Suggested Due Date : 08/09/2025

Calibrated By
Shri Ram Dhiman
(Technical Executive)

Issued By
Ajay Kumar Singh
(Technical Manager)

NCQC
Valid up to 08-09-2025
Reviewed

NCQC System Certificate No. 350

NATIONAL AWARD WINNER