



TRUE COPY

CALIBRATION CERTIFICATE

CUSTOMER : M/S NATIONAL CENTRE FOR QUALITY CALIBRATION
HOUSE No. 4, ABHISHREE CORPORATE PARK,

Date of Performance	: 03/09/2019	Certificate No.	: QSI/0344/19/09
Date of Issue	: 03/09/2019	Service Request Date	: 03/09/2019
Service Request No.	: 0344	Total Page	: 1
Page	: 1	Environment Temperature	: (20 ± 1)°C
Unit Under Calibration	: OPTICAL FLAT (BOTH SIDE)	Relative Humidity(%RH)	: (50 ± 10) %
Calibration Procedure	: QSI/QP/5.4/01.WI-23M	Location of calibration	: At Lab
Visual Inspection	: OK		

DETAILS OF UNIT UNDER CALIBRATION

Make	Model	Specification	Sr. No.	ID No.
MITUTOYO	158-118	Diameter : 45 mm Thickness : 12 mm Flatness : 0.1 µm	003728	NCQC/M-171

DETAILS OF STANDARD EQUIPMENTS USED FOR CALIBRATION

Name	Make	Sr. No./ID No.	Certificate No.	Validity	Calibrated By
OPTICAL FLAT With Monochromatic Light Source	MICRON	100915 (QSI/OF/01)	MetR1/2017-46(R1)	30/11/2019	Traceable to NPL, through NABL LAB CC-2006 (CMERI)

OBSERVATIONS

DESCRIPTION		Average Value of 10 Readings	
Sr. No. of Optical flat	Specification	Observed Flatness Of face A- Top (µm)	Observed Flatness Of face B -Bottom (µm)
003728	Diameter : 45 mm Flatness : 0.1 µm	0.0958	0.0943

NOTE : As per Manufacturers Specification - Flatness : 0.1 µm

OBSERVED ACCURACY : The Results of instrument falls with in Above Specified Accuracy (Permissible errors)

Remark : Ref. Standard IS-5440-1969

ULR NO. : CC2717190000000344F

Format No. : F01(5.10/01) ISSUE NO: 02

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

Remarks: As per **Manufacturers Specification** : OK

Suggested Due Date : 02/09/2020

Calibrated By
Shri Ram Dhiman
(Technical Executive)

Issued By
Ajay Kumar Singh
(Technical Manager)

NCQC System Certificate No. 351

NCQC
Valid up to 02-09-2021
Reviewed _____

NATIONAL AWARD WINNER