

 OM ENGINEERS	CERTIFICATE OF CALIBRATION ISSUED BY Om ENGINEERS	 CC2751
	"Madhu Smruti", First Floor, S. No. 37/2, Plot No 2 Next to Sai services, Sinhagad Road, Vadgaon Kh, Pune - 411041. Tel. No. +91 7219710106, Cell No. +91 9822910106 E - Mail ID : pune_omengineers@rediffmail.com	

Issued On 03/03/2023 ULR No CC275123000002766F

Certificate No	Date of Receipt	Date of Calibration	Next Date of Calibration	Page	No. of Pages
OM / 46 / 220048	02/03/2023	02/03/2023	02/03/2025	1	4

Name of Customer & Address : **M/s. National Centre for Quality Calibration**
 4, Abhishree Corporate Park,, Near Swagat Bungalow BRTS., ISKCON-
 Ambli Road, Ambli, Ahmedabad, Gujarat 380058
 (Through - M/s. Octagon Precision (India) Pvt. Ltd., Pune)

Purchase Order No.	Date	Challan No.	Date	Work Order No	Condition of Item
Nil	Nil	Letter	25/02/2023	OM/CAL/2223/2747	OK

GAUGE FOR CALIBRATION : Length Measuring Machine
 Make : Octagon Model No : LMM300T
 Range / L.C. : Horizontal Axis : 0-100mm / 0.0001, Vertical Axis : 0-80mm / 0.0001mm
 Identification No. : NCQC/M-24
 Sr. No. : 050
 Calibration Procedure No. : CM 46
 Reference Document No. : Comparison Method
CALIBRATION PROCEDURE : To obtain the linear accuracy of Length Measuring Machine at various points of total range by comparison with Laser Interferometer.

NCQC
 Valid up to 02-03-2025
 Reviewed *[Signature]*

Equipment & Master Used for Calibration Used Standards are traceable to National / International Standards (Direct / through NABL Accredited Lab.)

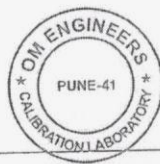
Equipment & Master Used for Calibration	Identification No.	Sr.No.	Calibration Certificate No	Calibration Date	Valid up to	Traceability With
Laser Interferometer	OM - E 22 - 01	1VQP30	111-19541	27.04.2020	27.04.2023	Federal Institute of Metrology METAS, Switzerland

UNCERTAINTY OF MEASUREMENT : $\pm 0.08 + 0.3 L \mu\text{m}$ (L in meter)

The uncertainty stated is the expanded uncertainty of measurement obtained by multiplying the standard uncertainty by the coverage factor $k=2$ corresponds to confidence level of 95.45%.

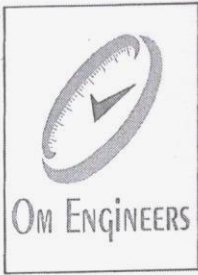
NOTE :1) Calibration Results are given on Page No. 2 onwards.

Jaywant Hode
 Deputy Technical Manager
 Calibrated By *[Signature]*



Ajay Gajare
 Technical Manager
 Authorized Signatory *[Signature]*

- This certificate refers only to the particular item(s) submitted for calibration .
- This certificate shall not be reproduced, except in full, unless written permission of M/s. Om Engineers, Pune.
- The Calibration results reported in this certificate are valid at the time of an under the stated conditions of measurement.



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Length Measuring Machine

Make Octagon

Identification No. NCQC/M-24

Sr.No. 050

Range Horizontal Axis : 0-100mm / 0.0001, Vertical Axis : 0-80mm / 0.0001mm

NABL 120 2.3.4 Mechanical Discipline : Dimensions (Precision - Precision Instruments)

Calibration Results

Horizontal Axis ;

Reading on Length Measuring Machine (mm)	Observed Reading on Laser Interferometer (mm)	Observed Error (μm)
0.00	0.00000 Set	0.00
0.50	0.50003	-0.03
1.00	1.00008	-0.08
5.00	5.00012	-0.12
10.00	10.00007	-0.07
20.00	20.00024	-0.24
30.00	30.00006	-0.06
40.00	40.00013	-0.13
50.00	50.00020	-0.20
60.00	60.00011	-0.11
70.00	70.00025	-0.25
80.00	80.00032	-0.32
90.00	90.00040	-0.40
100.00	100.00018	-0.18

CONTD. PAGE 4

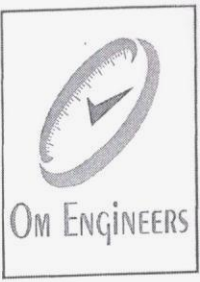
Jaywant Hode
Deputy Technical Manager

Calibrated By



Ajay Gajare
Technical Manager
Authorized Signatory

TRUE COPY



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Length Measuring Machine
 Make Octagon Identification No. NCQC/M-24 Sr.No. 050
 Range Horizontal Axis : 0-100mm / 0.0001, Vertical Axis : 0-80mm / 0.0001mm

NABL 120 2.3.4 Mechanical Discipline : Dimensions (Precision - Precision Instruments)

Calibration Results

Vertical Axis ;

Reading on Length Measuring Machine (mm)	Observed Reading on Laser Interferometer (mm)	Observed Error (μ m)
0.00	0.00000 Set	0.00
0.50	0.49995	+0.05
1.00	0.99979	+0.21
5.00	4.99997	+0.03
10.00	9.99981	+0.19
20.00	19.99975	+0.25
30.00	29.99977	+0.23
40.00	39.99983	+0.17
50.00	49.99986	+0.14
60.00	59.99989	+0.11
70.00	70.00017	-0.17
80.00	80.00011	-0.11

** End of Certificate **

Jaywant Hode
Deputy Technical Manager

Calibrated By



Ajay Gajare
Technical Manager

Authorized Signatory