

CALIBRATION CERTIFICATE OF LENGTH BAR	CALIBRATION CERTIFICATE NO. KCP/02/23~24/6663	
	ULR No: CC2323 23 0 00008363 F	
ISSUE DATE OF CERTIFICATE: 28-10-2023	PAGE: 1 of 2	NO. OF PAGES: 2

NAME & ADDRESS OF THE CUSTOMER : **M/s. NATIONAL CENTRE FOR QUALITY CALIBRATION**
House No. 4 Abhishree Corporate Park,
Near Swagat Bungalow BRTS, Iskon-Ambli Road, Ambli
AHMEDABAD – 380 058.

CUSTOMER'S REFERENCE : DC No.: 181023/08. Date 18-10-2023
DATE OF RECEIPT : 25-10-2023.
ITEM FOR CALIBRATION : Steel Long Length Bar Set., Type: M-1, Grade: '0'.
Sr No:1361, ID No: NCQC/M-05, Make: KCP
DISCIPLINE: Mechanical-Dimension,
GROUP: Basic Measuring Instrument, Gauges etc

CONDITION OF ITEM : OK
LAB WORK ORDER NO. : 23-24/353
DATE & PLACE OF CALIBRATION : 27-10-2023, @ KCP Lab.
CALIBRATION PROCEDURE : Determination of center deviation & parallelism
of gauge block by comparison method by using ULM as per
procedure No.KCP/PCD/07-02 & as per IS 7014:1973
EQUIPMENTS / REFERENCE : Used standards are traceable to National standards
CALIBRATION STANDARDS (direct/thro' NABL accredited Lab.)

Sr.No.	Type of Master equipments	I.D. No.	Calibration Report No.	Valid Up to
1.	Gauge Block set, M122/1, Gr. 'K' Material: Steel, $\alpha = 11.5 \times 10^{-6} / ^\circ C$	10185	P/01/220100	19-11-2024
2.	Gauge Block set, M8, Gr. 'K'	180	21100794/D1.02/C-198	22-12-2023
3.	Universal length measuring machine	000619	OM/46/220039	15-02-2025

ENVIRONMENTAL CONDITION : Temperature- 20.1°~20.6° [20° ± 1° C]
Humidity (RH)- 52.0%~54.0%. [50 ±10%]
UNCERTAINTY OF MEASUREMENT : ± 1.5 µm up to 300 mm
± 1.7 µm Over 300 up to 600 mm length

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:

NCQC
Valid up to 27-10-2025
Reviewed *Jus*

- 'ln' = Nominal length, 'lc' = Central length.
- α = Coefficient of Thermal Expansion.

NEXT CALIBRATION DUE DATE : 27-10-2025.

NOTE: Next calibration due date (2 years) mentioned in the certificate is given as per customer's request.

<p>CALIBRATED BY</p> <p>V.V. SIMANT (Inspector)</p>	<p>AUTHORIZED SIGNATORY</p> <p>T.V. JAMKHEDKAR (Technical Manager)</p>
<p>NCQC System Certificate No. 151</p>	
<ul style="list-style-type: none"> This certificate refers only to the particular item(s) submitted for calibration. The calibration results reported in this certificate are valid at the time of & under the stated condition of measurement. This certificate shall not be reproduced except in full, unless written permission of Quality Manager (Calibration Lab) 	

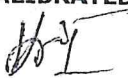
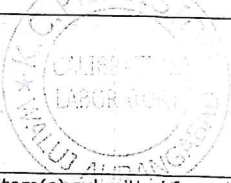
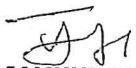


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CALIBRATION RESULTS

ITEM FOR CALIBRATION: Steel Long Length Bar Set. **Make:** KCP,
TYPE: M-1 **LAB WORK ORDER NO :** 23-24/353
Sr No: 1361 **ID No:** NCQC/M-05
Grade: '0'

Nominal Length (ln) 'mm'	Error in Gauge Length (lc-ln) ' μ m'	Parallelism ' μ m'
500.00	+0.51	0.12

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