

TRUE COPY

CALIBRATION CERTIFICATE OF LENGTH BAR	CALIBRATION CERTIFICATE NO. KCP/02/23~24/9524	
	ULR No: CC2323 24 0 0000 475 F	
ISSUE DATE OF CERTIFICATE: 10-01-2024	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,
 Nr.Swagat Banglow BRTS, Iskon-Ambli Road, Ambli,
AHEMEDABAD – 380 058.

CUSTOMER'S REFERENCE : DC No.:231223/011.Date.:23/12/2023
DATE OF RECEIPT : 28-12-2023.
ITEM FOR CALIBRATION : Steel Long Length Bar Set., Type: M-3, Grade:'0'.
 ID No: NCQC/M-105,Sr.No.:1609 Make: KCP.
DISCIPLINE: Mechanical-Dimension,
GROUP: Basic Measuring Instrument, Gauges etc
CONDITION OF ITEM : OK
LAB WORK ORDER NO. : 23-24/443
DATE & PLACE OF CALIBRATION : 09-01-2024, @ 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.	Steel Long Gauge Block Set M-8	180	KCP/02/23~24/8798	21.12.2025
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

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:

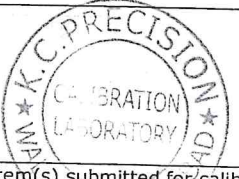
'In'=Nominal length, 'lc'=Central length.
 α = Coefficient of Thermal Expansion.

NCQC
 Valid up to 09-01-2026
 Reviewed *[Signature]*

NCQC System Certificate No. 09

NEXT CALIBRATION DUE DATE : 09-01-2026.

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

<p>CALIBRATED BY</p> <p style="text-align: center;"><i>[Signature]</i></p> <p style="text-align: center;">V.V.SIMANT (Inspector)</p>	<p style="text-align: center;">AUTHORIZED SIGNATORY</p> <p style="text-align: center;"><i>[Signature]</i></p> <p style="text-align: center;">T.V.JAMKHEDKAR (Technical Manager)</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 Length Bar
Sr.No.:1609
TYPE: M-3
ID NO: NCQC/M-105,

MAKE: KCP
LAB WORK ORDER NO: 23-24/443

Nominal Length (l_n) 'mm'	Error in Gauge Length ($l_c - l_n$) ' μ m'	Parallelism ' μ m'
100.00	+0.40	0.08
175.00	+0.42	0.10
250.00	-0.80	0.06

CALIBRATED BY V.V.SIMANT (Inspector)		AUTHORIZED SIGNATORY T.V.JAMKHEDKAR (Technical Manager)
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