

TRUE COPY

CALIBRATION CERTIFICATE OF LENGTH BAR	CALIBRATION CERTIFICATE NO. KCP/02/22~23/2711.	
	ULR No: CC2323 22 0 00005911 F	
ISSUE DATE OF CERTIFICATE: 02-07-2022	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.: 11062022/04
DATE OF RECEIPT : 16-06-2022

ITEM FOR CALIBRATION : STEEL LONG LENGTH BAR, Type: M-2, Grade: '0'
ID No: NCQC/M-04, Sr. No. 10138. Make: KCP
DISCIPLINE: Mechanical-Dimension,
GROUP: Basic Measuring Instrument, Gauges etc

CONDITION OF ITEM : OK
LAB WORK ORDER NO. : 22-23/143.
DATE & PLACE OF CALIBRATION: 22-06-2022, @ KCP Lab.
CALIBRATION PROCEDURE : Determination of deviation & parallelism of Length Bar by comparison method as per procedure No.KCP/PCD/07-01-02 & as per IS 7014-1973.

EQUIPMENTS / REFERENCE CALIBRATION STANDARDS : Used standards are traceable to National 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, M8, Gr. 'K'	180	21100794/D1.02/C-198	22-12-2023
2.	Universal length measuring machine	000619	OM/46/200016	24.02.2023

ENVIRONMENTAL CONDITION : Temperature- 19.7°~20.2° [20° ± 1° C]
Humidity (RH) – 50.0% ~ 51.0%. [50 ± 10%]

UNCERTAINTY OF MEASUREMENT : ± 1.5 µm up to 300 mm
± 1.7 µm Over 300 up to 600 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%.


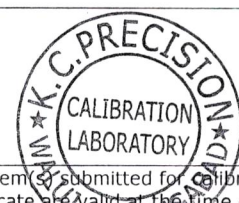
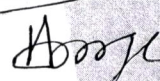
Note:

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

NEXT CALIBRATION DUE DATE : 22-06-2024.

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

NCQC
Valid up to 22/06/2024
Reviewed *[Signature]*

<p>CALIBRATED BY</p>  <p>V.V. SIMANT (Inspector)</p>		<p>AUTHORIZED SIGNATORY</p>  <p>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

TYPE: M-2

MAKE: KCP

ID NO: NCQC/M-04,

LAB WORK ORDER NO: 22-23/143

Nominal Length (l_n) 'mm'	Error in Gauge Length ($l_c - l_n$) ' μ m'	Parallelism ' μ m'
200.00	+0.10	0.10
300.00	+0.20	0.15

<p>CALIBRATED BY</p> <p>V.V.SIMANT (Inspector)</p>		<p>AUTHORIZED SIGNATORY</p> <p>T.V.JAMKHEDKAR (Technical Manager)</p>
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*****END OF CERTIFICATE*****

