



# TANSON INSTRUMENT

(ULTRA-HIGH PRECISION MEASUREMENT & CALIBRATION)



CC-2660

Discipline: Mechanical CALIBRATION CERTIFICATE OF ELECTRONIC LEVEL  
 Issue Date: 08/06/2024 Calibration Date: 08/06/2024 Suggested Due Date: ----- No. of Pages: 1 of 2

ULR NO.: CC26602400000977F Certificate No. TI/F/EL/003/24

**Tested for** : M/s. NATIONAL CENTRE FOR QUALITY CALIBRATION  
 House No. 4, Abhishree Corporate Park.  
 Nr. Swagat Bungalow BRTS, Iskcon-Ambli Road,  
 Ambli, Ahmedabad - 380058.

**Description & Identification Of Instrument** : Electronic Level  
 Range :  $\pm 1.999\text{mm/m}$   
 Least Count :  $\pm 0.001\text{ mm/m}$   
 Modal : BDL-011  
 Make : BAGSON  
 Serial No. : 133  
 Inst. Id. No. : NCQC/M-116

**Environmental Conditions** : Temperature :  $(20 \pm 1)^\circ\text{C}$   
 Humidity :  $(50 \pm 10)\% \text{RH}$

**Calibration Location** : Calibration Lab 2

**Method of Calibration Used & Procedure No.** : Comparison of level (in differential mode) with  
 laser interferometer on a common tilting table  
 TI/WI/14

### Reference Standard Used & Specification

Name	Laser Interferometer with Angular Optics.
Make	Renishaw
Cert. No.	22100993/D1.02/C-103
Calib. Due Date	03/11/2024
Traceability	NPL
Uncertainty	Angular - 0.01 Sec. and Linear - $\pm 0.1\mu\text{m/m}$

DATE OF RECEIPT: 08-06-2024

UNCERTAINTY OF MEASUREMENT IS AT COVERAGE FACTOR  $k = 2$  FOR CONFIDENCE LEVEL OF 95% FOR A NORMAL DISTRIBUTION:  $\pm 3.2\mu\text{m/m}$

Calibrated By  
 Rahul Yadav



Approved By  
 MQ/TM  
 (Hitesh Tanwar)

This certificate pertains to the items calibrated at TANSON INSTRUMENT. No report should be reproduced without prior permission.  
 The results produced in this certificate are valid under stated condition at the time of calibration.

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## CALIBRATION RESULTS

I). 0.001mm/m

Sr. No.	Nominal Value (mm/m)	Observed Value	
		(+) Right Side Measured value (mm/m)	(-) Left Side Measured value (mm/m)
1.	0.000	0.0000(set)	0.0000(set)
2.	0.050	0.0498	0.0499
3.	0.100	0.0997	0.0996
4.	0.300	0.2984	0.2995
5.	0.500	0.4985	0.4992
6.	0.800	0.7982	0.7984
7.	1.000	0.9993	0.9981
8.	1.200	1.1986	1.1984
9.	1.400	1.3985	1.3985
10.	1.600	1.5974	1.5978
11.	1.800	1.7975	1.7977

Mean Sensitivity: 0.00096mm/m

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