



Since 1998

# NATIONAL CENTRE FOR QUALITY CALIBRATION

**TRUE COPY**

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CC-2128

Visit our Web Site : [www.calibrationlaboratory.in](http://www.calibrationlaboratory.in)

Precision Calibration with National / International Traceability for Temperature, Dimensional, Pressure, Vacuum, Time, Mass, Electrical, Noise, Airflow, Lux & all Special Purpose Instruments in all ranges.

## Calibration Certificate

Name of Customer → <b>National Centre For Quality Calibration</b> 4, Abhishree Corporate Park, Nr. Swagat Banglows, BRTS, Iskcon – Ambli Road, Ambli, Ahmedabad. – 380058.		Certificate No.	NCQC-M/080823/002
Date of Issue		Date of Issue	08-08-2023
Date of Calibration		Date of Calibration	08-08-2023
Suggested Due Date		Suggested Due Date	07-08-2024
Date Of Receipt / Ref. No. → 08-08-2023		F/CR/M/031, Issue No.01 Page 1 of 3	

<b>ULR – CC212823000006675F</b>		<b>Discipline → Mechanical Calibration,</b> Dimension (Basic-Measuring Instrument, Gauges etc.)	
Details of Observation of Unit Under Calibration	Identification No.	: <b>NCQC/M-111</b>	
	Serial No.	: <b>6152</b>	
	Name of Instrument	: <b>Granite Surface Plate</b>	
Size	500 x 200 mm	Visual Inspection	Satisfactory
Total Division in no. Of Row	2	Make	Bagson
Total Division in no. Of Column	5	Accuracy	Grade "0"
		Location	Mechanical Lab. — 2

Results of Calibration		
Parameter to be checked	Permissible Values	Observed Values
Flatness	4.5 µm	3.1 µm

**Remarks:**

- Suggested due date is given based on customer requirements.
- These results are obtained at the time of calibration.
- Any hand written corrections (except @) or photocopies in the report invalidates this certificate.
- Environment condition during calibration: 20 ± 2°C, 40 to 60 % Rh.
- Average temperature → 20.6 °C and average humidity 48.4 % Rh during calibration of instruments.
- Uncertainty of measurement at 95% confidence level is ± 2.62 µm at coverage factor k = 2.
- No external provider was used for calibration and hence it is not applicable.
- Result relates to the item calibrated only.
- Calibration certificate shall not be reproduced except in full without written approval of Director, NCQC
- Location of performance of calibration → At Lab.
- Reference calibration method no.: NCQC/CM/M/031.
- Reference standard no.: IS 12937, IS 7327 & IS 2285
- Our masters are directly calibrated through NABL accredited calibration laboratory having direct traceability with national / international standard

Details of Master Instrument Used for Calibration			
Nomenclature	Make / Model	Id. No. / Sr. No.	Calibration Due Date
Electronic Level	Bagson / BDL-011	NCQC/M-116 / 133	09-06-2024
NCQC System Certificate No.	Certificate no. & Traceability of master with National Standards		
266	→ Our master electronic level is calibrated and traceable to National Standard through NABL accredited Laboratory Tanson Instrument, Certificate No. TI/F/EL/003/23, Date = 10.06.2023.		

NCQC  
Valid up to 07-08-2024  
Reviewed *[Signature]*

NCQC System Certificate No. 16

Traceable To National / International Standards.	
Calibrated By <i>[Signature]</i> Harsh Patel	Reviewed by & Approved By <i>[Signature]</i> Jigar Panchal







National Centre for Quality Calibration  
ISO/IEC 17025(NABL) Accredited Calibration Laboratory  
902 to 904, Samudra Annexe, Off CG Road, Ahmedabad-380006

**TRUE COPY**  
SURFACE CALIBRATION

Report No. : NCQC-M/080823/002

Date : 8/8/2023

No. of Rows : 03  
No. of Columns : 05

**Measurement Readings Along Rows** (Values are in Divisions)

	Col 01	Col 02	Col 03	Col 04	Col 05
ROW01	0.0	0.0	-12.0	10.0	15.0
ROW02	0.0	12.0	19.0	16.0	-12.0
ROW03	0.0	15.0	22.0	20.0	18.0

**Measurement Readings Across Rows** (Values are in Divisions)

	Col 01	Col 02	Col 03	Col 04	Col 05
ROW01	0.0	0.0	0.0	0.0	0.0
ROW02	12.0	-11.0	32.0	24.0	16.0
ROW03	22.0	25.0	25.0	29.0	35.0

**Deviation From Regression Plane** (Values are in  $\mu\text{m}$ )

	Col 01	Col 02	Col 03	Col 04	Col 05
ROW01	1.7	0.8	-1.0	-0.9	-0.2
ROW02	0.1	-1.1	0.3	0.4	-0.5
ROW03	-0.3	-1.4	0.2	0.6	1.3

Flatness : 3.1 micrometer

Maximum Deviation : 1.7  $\mu\text{m}$

Minimum Deviation : -1.4  $\mu\text{m}$

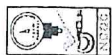
Calibrated By

Harsh Patel

Checked By

Jigar Panchal





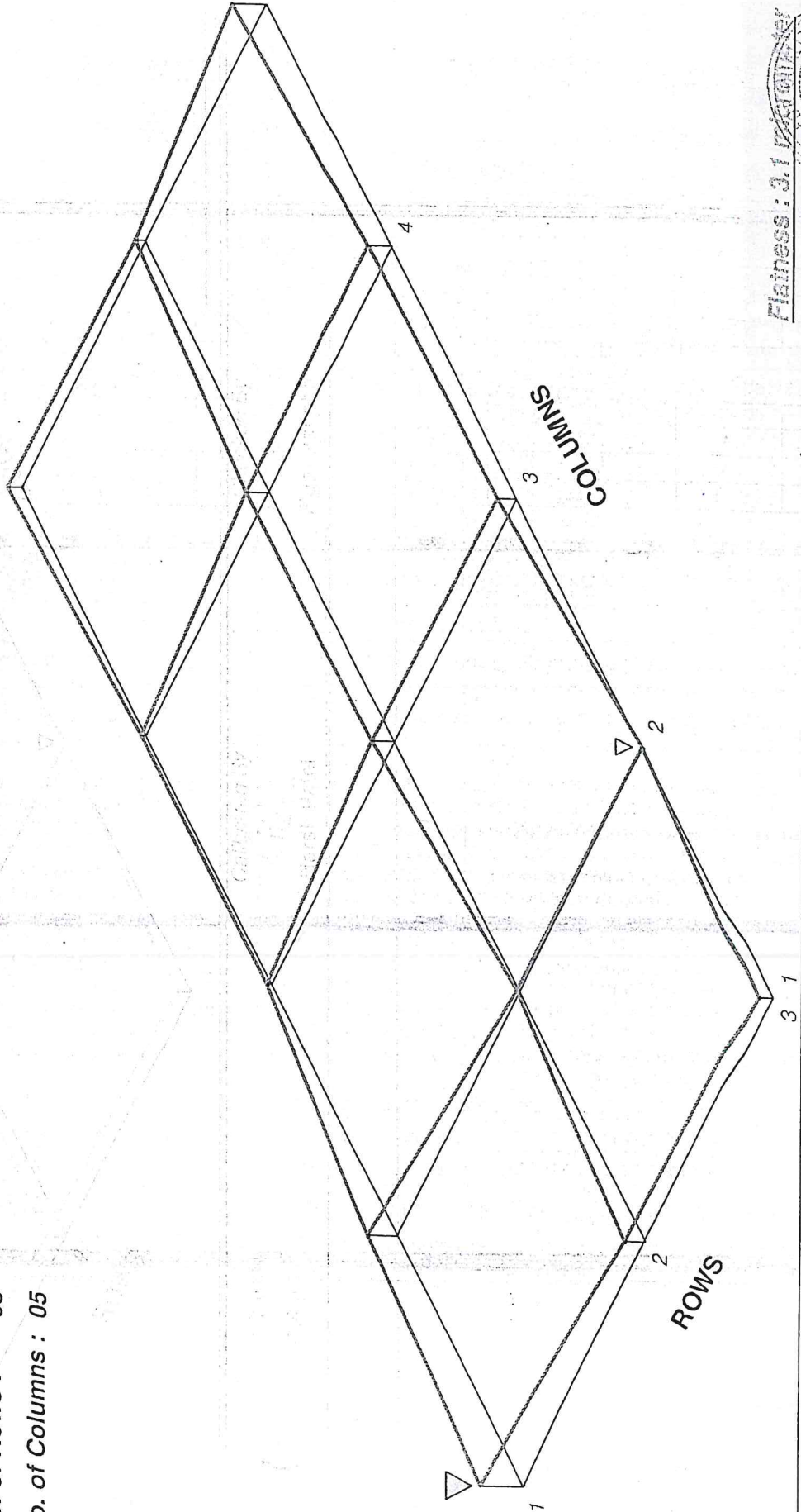
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**SURFACE PLATE CALIBRATION**

Report No. : NCQC-M/080823/002  
 Date : 8/8/2023

No. of Rows : 03  
 No. of Columns : 05

Scale : N T S



Flatness: 31

Maximum Deviation: 1.7  $\mu$ m  
 Minimum Deviation: -1.4  $\mu$ m

Calibrated By  
  
 Harsh Patel

Checked By  
  
 Jigar Panchal

