



# NATIONAL CENTRE FOR QUALITY CALIBRATION

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CC-2128

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

**TRUE COPY**

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, Iskon – Ambli Road, Ambli, Ahmedabad. – 380058.		Certificate No.	NCQC-M/090822/057
Date Of Receipt / Ref. No. → 09-08-2022		Date of Issue	10-08-2022
Date Of Receipt / Ref. No. → 09-08-2022		Date of Calibration	09-08-2022
Date Of Receipt / Ref. No. → 09-08-2022		Suggested Due Date	08-08-2023
Date Of Receipt / Ref. No. → 09-08-2022		F/CR/M/031, Issue No.01 Page 1 of 3	
<b>ULR – CC212822000010327F</b>		<b>Discipline → Mechanical Calibration,</b> Dimensional (Precision-Precision Instruments and Surface Topology)	
<b>Details of Observation of Unit Under Calibration</b>		Identification No.	: NCQC/M-113 *
<b>Details of Observation of Unit Under Calibration</b>		Serial No.	: 9965
<b>Details of Observation of Unit Under Calibration</b>		Name of Instrument	: Granite Surface Plate
Size	1000 x 630 mm	Visual Inspection	Satisfactory
Total Division in no. Of Raw	6	Make	Micro-Flat
Total Division in no. Of Column	10	Accuracy	Grade "0"
		Location	Mechanical Lab. – 1
<b>Results of Calibration</b>			
<b>Parameter to be checked</b>	<b>Permissible Values</b>	<b>Observed Values</b>	
<b>Flatness</b>	6.0 µm	4.8 µm	
<b>Remarks:</b>			
<ul style="list-style-type: none"> <li>↳ Suggested due date is given based on customer requirements.</li> <li>↳ Location of performance of calibration → At Lab.</li> <li>↳ These results are obtained at the time of calibration.</li> <li>↳ Any hand written corrections (except @) or photocopies in the report invalidates this certificate.</li> <li>↳ Environment condition during calibration: 20 ± 2°C, 40 to 60 % Rh.</li> <li>↳ Uncertainty of measurement at 95% confidence level is ± 4.0 µm at coverage factor k = 2.</li> <li>↳ Reference calibration method no.: NCQC/CMM/031.</li> <li>↳ Reference standard no.: IS 12937, IS 7327 &amp; IS 2285</li> <li>↳ Our masters are directly calibrated through NABL accredited calibration laboratory having direct traceability with national / international standard</li> </ul>			
<b>Details of Master Instrument Used for Calibration</b>			
<b>Nomenclature</b>	<b>Make / Model</b>	<b>Id. No. / Sr. No.</b>	<b>Calibration Due Date</b>
Electronic Level	Bagson / BDL-011	133 / NCQC/M-116	14-06-2023
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/003/22, Date – 15.06.2022.		

NCQC  
Valid up to 08-08-2023  
Reviewed: *[Signature]*

NCQC System Certificate No. 14



Traceable to National / International Standards.

Calibrated By

*[Signature]*  
Arif Shaikh

Arif Shaikh

Reviewed by & Approved By

Jigar Panchal



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

**SURFACE PLATE CALIBRATION**

Report No. : NCQC-MO/090822/57

Date : 8/10/2022

No. of Rows : 06  
 No. of Columns : 10

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

	Col 01	Col 02	Col 03	Col 04	Col 05	Col 06	Col 07	Col 08	Col 09	Col 10
ROW01	0.0	0.0	-4.0	-6.0	7.0	8.0	11.0	15.0	12.0	13.0
ROW02	0.0	9.0	8.0	11.0	15.0	16.0	12.0	13.0	14.0	12.0
ROW03	0.0	-8.0	-9.0	12.0	13.0	16.0	17.0	18.0	17.0	16.0
ROW04	0.0	7.0	9.0	8.0	13.0	16.0	15.0	14.0	18.0	17.0
ROW05	0.0	-5.0	-6.0	9.0	13.0	10.0	15.0	18.0	17.0	19.0
ROW06	0.0	9.0	8.0	15.0	12.0	13.0	16.0	18.0	16.0	19.0

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

	Col 01	Col 02	Col 03	Col 04	Col 05	Col 06	Col 07	Col 08	Col 09	Col 10
ROW01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROW02	5.0	6.0	7.0	16.0	15.0	18.0	17.0	* 16.0	18.0	17.0
ROW03	7.0	8.0	9.0	17.0	18.0	16.0	15.0	18.0	23.0	26.0
ROW04	9.0	15.0	13.0	12.0	14.0	18.0	17.0	18.0	17.0	18.0
ROW05	12.0	14.0	15.0	13.0	15.0	16.0	17.0	18.0	21.0	19.0
ROW06	11.0	13.0	14.0	17.0	16.0	15.0	15.0	19.0	17.0	16.0

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

	Col 01	Col 02	Col 03	Col 04	Col 05	Col 06	Col 07	Col 08	Col 09	Col 10
ROW01	2.9	1.9	0.4	-1.1	-1.4	-1.7	-1.7	-1.2	-1.1	-0.9
ROW02	2.0	1.4	0.6	0.2	0.2	0.5	0.5	0.8	1.2	1.3
ROW03	1.2	0.0	-1.5	-1.4	-1.5	-1.3	-1.1	-0.4	0.1	0.6
ROW04	0.7	0.4	-0.2	-0.4	-0.3	0.0	0.0	0.5	1.2	1.8
ROW05	0.5	-0.1	-1.7	-1.9	-1.7	-1.6	-1.5	-0.7	0.0	0.6
ROW06	0.1	0.1	-0.4	-0.2	-0.2	0.0	0.1	1.0	1.7	2.3

**Flatness : 4.8 micrometer**

Maximum Deviation : 2.9  $\mu\text{m}$

Minimum Deviation : -1.9  $\mu\text{m}$

Calibrated By

Checked By

Arif shaikh

Jigar Panchal



**National Centre for Quality Calibration**

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

**SURFACE PLATE CALIBRATION**

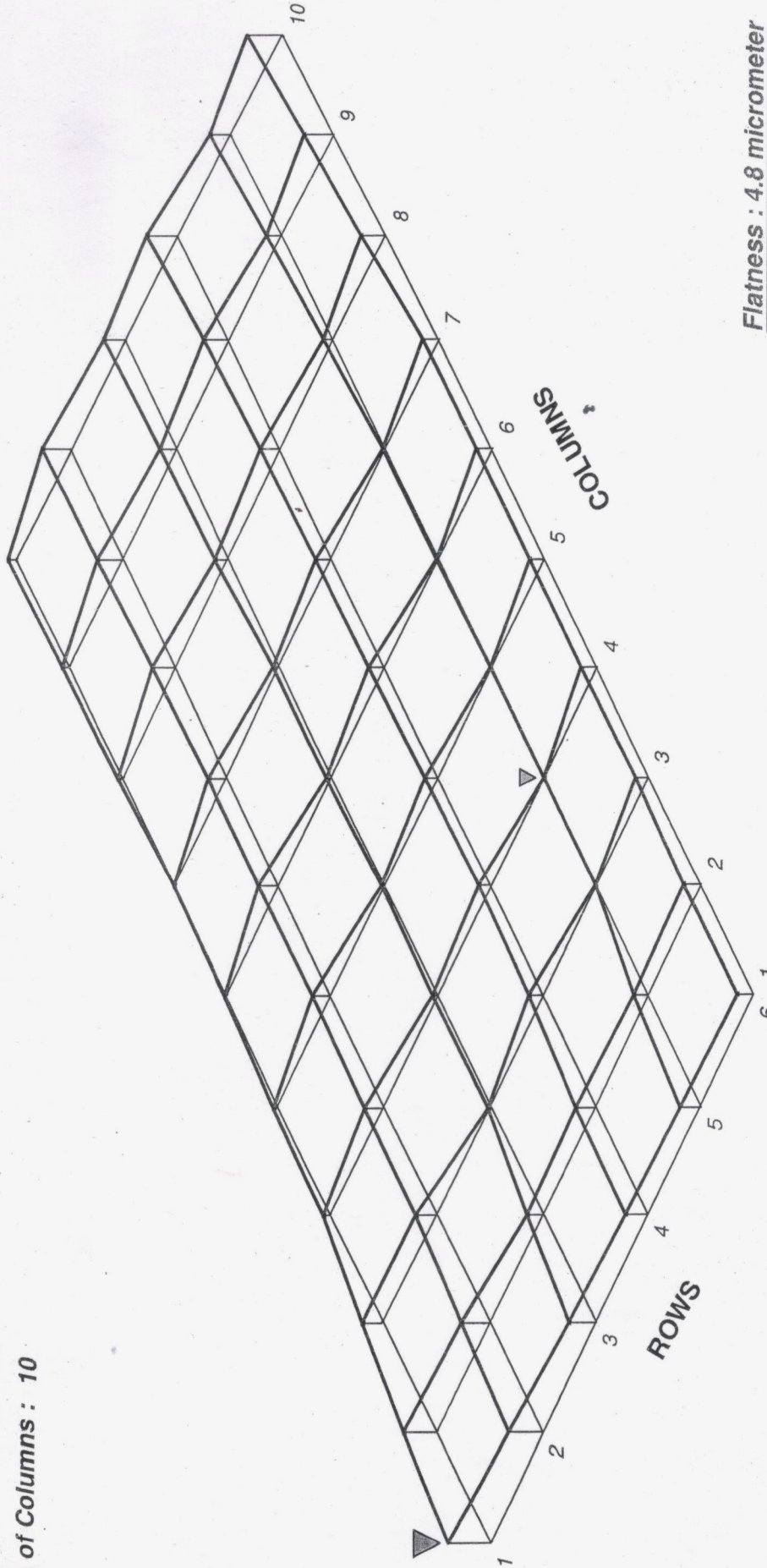
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Scale : N T S



Flatness : 4.8 micrometer

Maximum Deviation: 2.9  $\mu\text{m}$   
Minimum Deviation: -1.9  $\mu\text{m}$

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