



Since 1998

NATIONAL CENTRE FOR QUALITY CALIBRATION

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CC-2128

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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

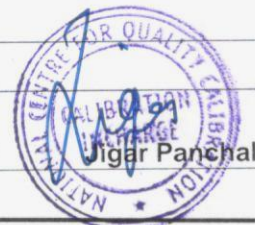
Name of Customer → National Centre For Quality Calibration 4, Abhishree Corporate Park, Nr. Swagat Banglows, BRTS, Iskon – Ambli Road, Ambli, Ahmedabad. – 380058.		Certificate No.	NCQC-M/100821/04
Date Of Receipt / Ref. No. → 10-08-2021		Date of Issue	10-08-2021
F/CR/M/031, Issue No.01 Page 1 of 3		Date of Calibration	10-08-2021
Suggested Due Date		09-08-2022	
ULR – CC212821100000116F		Discipline → Mechanical Calibration, Dimensional (Precision-Precision Instruments and Surface Topology)	
Details of Observation of Unit Under Calibration		Identification No.	: NCQC/M-113
		Serial No.	: 9965
		Name of Instrument	: Granite Surface Plate
Size	1000 x 630 mm	Visual Inspection	Satisfactory
Total Division in no. Of Row	6	Make	Micro-Flat
Total Division in no. Of Column	10	Accuracy	Grade "0"
		Location	Mechanical Lab. – 1
Results of Calibration			
Parameter to be checked	Permissible Values	Observed Values	
Flatness	6.0 µm	5.1 µm	
Remarks:			
<ul style="list-style-type: none"> ↪ Suggested due date is given based on customer requirements. ↪ Location of performance of calibration → At Lab. ↪ 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. ↪ Uncertainty of measurement at 95% confidence level is ± 4.0 µm at coverage factor k = 2. ↪ 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	133 / NCQC/M-116	25-06-2022
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/005/21, Date – 26.06.2021.		

Traceable To National / International Standards.

Calibrated By

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/100821/04

Date : 8/10/2021

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	-3.0	0.0	-1.0	-9.0	-11.0	-4.0	0.0	3.0
ROW02	0.0	11.0	8.0	6.0	5.0	-5.0	-8.0	-4.0	3.0	3.0
ROW03	0.0	17.0	11.0	8.0	6.0	-5.0	0.0	5.0	9.0	9.0
ROW04	0.0	16.0	18.0	15.0	14.0	12.0	5.0	13.0	16.0	12.0
ROW05	0.0	26.0	20.0	20.0	19.0	12.0	6.0	14.0	14.0	7.0
ROW06	0.0	34.0	21.0	21.0	15.0	9.0	7.0	7.0	12.0	10.0

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	-12.0	1.0	0.0	-1.0	0.0	0.0	1.0	2.0	-1.0	1.0
ROW03	24.0	22.0	19.0	17.0	20.0	20.0	18.0	10.0	10.0	15.0
ROW04	17.0	15.0	12.0	12.0	13.0	11.0	14.0	11.0	10.0	17.0
ROW05	18.0	13.0	10.0	10.0	9.0	13.0	14.0	15.0	15.0	21.0
ROW06	24.0	18.0	18.0	20.0	22.0	27.0	22.0	26.0	30.0	32.0

Deviation From Regression Plane (Values are in μm)

	Col 01	Col 02	Col 03	Col 04	Col 05	Col 06	Col 07	Col 08	Col 09	Col 10
ROW01	2.8	2.6	2.1	1.9	1.7	0.6	-0.5	-1.1	-1.3	-1.1
ROW02	-0.7	0.1	0.1	0.2	0.3	-0.4	-1.5	-2.0	-2.2	-2.0
ROW03	-0.8	0.2	0.3	0.3	0.6	-0.1	-0.9	-1.3	-1.2	-0.4
ROW04	-1.6	-0.5	-0.3	0.0	0.7	0.5	0.2	0.0	0.4	1.6
ROW05	-2.2	-0.9	-0.7	-0.1	0.6	0.7	0.4	0.3	0.6	1.9
ROW06	-2.3	-0.9	-0.7	0.0	0.8	0.9	0.5	0.2	0.6	2.2

Flatness : 5.1 micrometer

Maximum Deviation : 2.8 μm

Minimum Deviation : -2.3 μm

Calibrated By

Arif Shaikh

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Checked By

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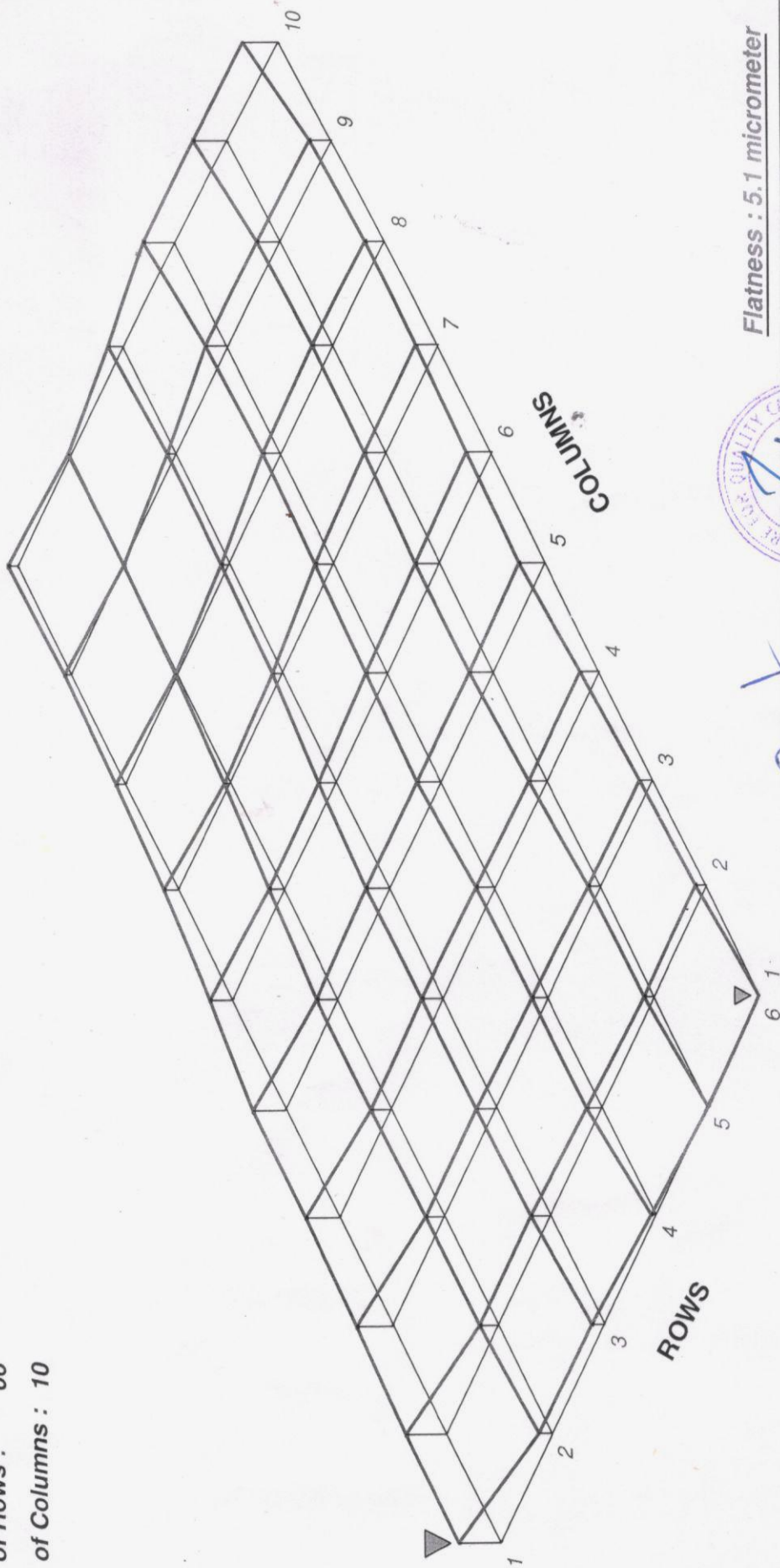
SURFACE PLATE CALIBRATION

Report No. : NCQC-MO/100821/04
Date : 8/10/2021

Scale : N T S

No. of Rows : 06

No. of Columns : 10



Flatness : 5.1 micrometer



Checked By

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Maximum Deviation: 2.8 μm

Minimum Deviation: -2.3 μm