NATIONAL CENTRE FOR QUALITY CALIBRATION

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Since 1998

CC-2128

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. Date of Issue Date of Calibration Suggested Due Date	NCQC-M/O30823/001 08-08-2023 08-08-2023 07-08-2024
Date Of Receipt / Ref. No.→ 08-08-2023		F/CR/M/031, Issue No.01 Page 1 of 3	
ULR – CC212823000006674F	**Discipline → Mechanical Calibration,** Dimension (Basic-Measuring Instrument, Gauges etc.)		
Details of Observation of Unit Under Calibration	Identification No. : **NCQC/M–113** Serial No. : **9965** Name of Instrument : **Granite Surface Plate**		
Size Total Division in no. Of Raw Total Division in no. Of Column	1000 x 630 mm 6 10	Visual Inspection Make Accuracy Location	Satisfactory Micro-Flat Grade "0" Mechanical Lab. – 1

Results of Calibration

Parameter to be checked	Permissible Values	Observed Values
Flatness	6.0 µm	5.0 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 → 20.4 °C and average humidity 48.1 % Rh during calibration of instruments.
- Uncertainty of measurement at 95% confidence level is ± 4.0 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

NCQC System Certificate No. 14

Traceable To National / International Standards.

Calibrated By	Harsh Patel	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

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SURFACE PLATE CALIBRATION

Report No. : NCQC-M/080823/001
Date : 8/8/2023

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	-2.0	-4.0	4.0	8.0	7.0	9.0	4.0	10.0
ROW02	0.0	6.0	5.0	-1.0	7.0	10.0	9.0	10.0	12.0	15.0
ROW03	0.0	9.0	7.0	8.0	9.0	15.0	11.0	15.0	9.0	14.0
ROW04	0.0	12.0	9.0	12.0	14.0	19.0	18.0	18.0	14.0	19.0
ROW05	0.0	5.0	-5.0	16.0	15.0	22.0	14.0	12.0	16.0	20.0
ROW06	0.0	11.0	15.0	18.0	20.0	18.0	15.0	22.0	15.0	14.0

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	4.0	3.0	4.0	6.0	7.0	8.0	9.0	10.0	5.0
ROW03	10.0	5.0	-5.0	5.0	10.0	13.0	14.0	12.0	15.0	8.0
ROW04	16.0	10.0	12.0	9.0	-12.0	5.0	-5.0	14.0	-4.0	14.0
ROW05	14.0	-6.0	14.0	8.0	15.0	14.0	9.0	17.0	16.0	15.0
ROW06	12.0	15.0	16.0	18.0	17.0	20.0	14.0	15.0	10.0	20.0

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	1.9	0.9	-0.1	-0.6	-0.6	-0.8	-0.7	-1.1	-1.0
ROW02	1.7	1.1	0.3	-0.5	-0.7	-0.6	-0.6	-0.4	-0.4	-0.2
ROW03	1.0	0.4	-0.6	-0.7	-0.5	0.0	0.0	0.3	0.3	0.0
ROW04	1.0	0.2	-0.6	-0.6	-1.2	0.1	0.1	1.6	0.9	1.8
ROW05	0.8	-1.2	-1.8	-2.0	-2.2	-0.5	-1.0	0.3	0.0	0.7
ROW06	0.4	-1.1	-0.7	-0.7	-0.7	0.7	0.0	2.1	1.2	2.3

Flatness : 5 micrometer

Maximum Deviation : 2.8 µm
Minimum Deviation : -2.2 µm

Calibrated By	Checked By	
Harsh Patel	Jigar Panchal	CALIBRATION INCHARGE

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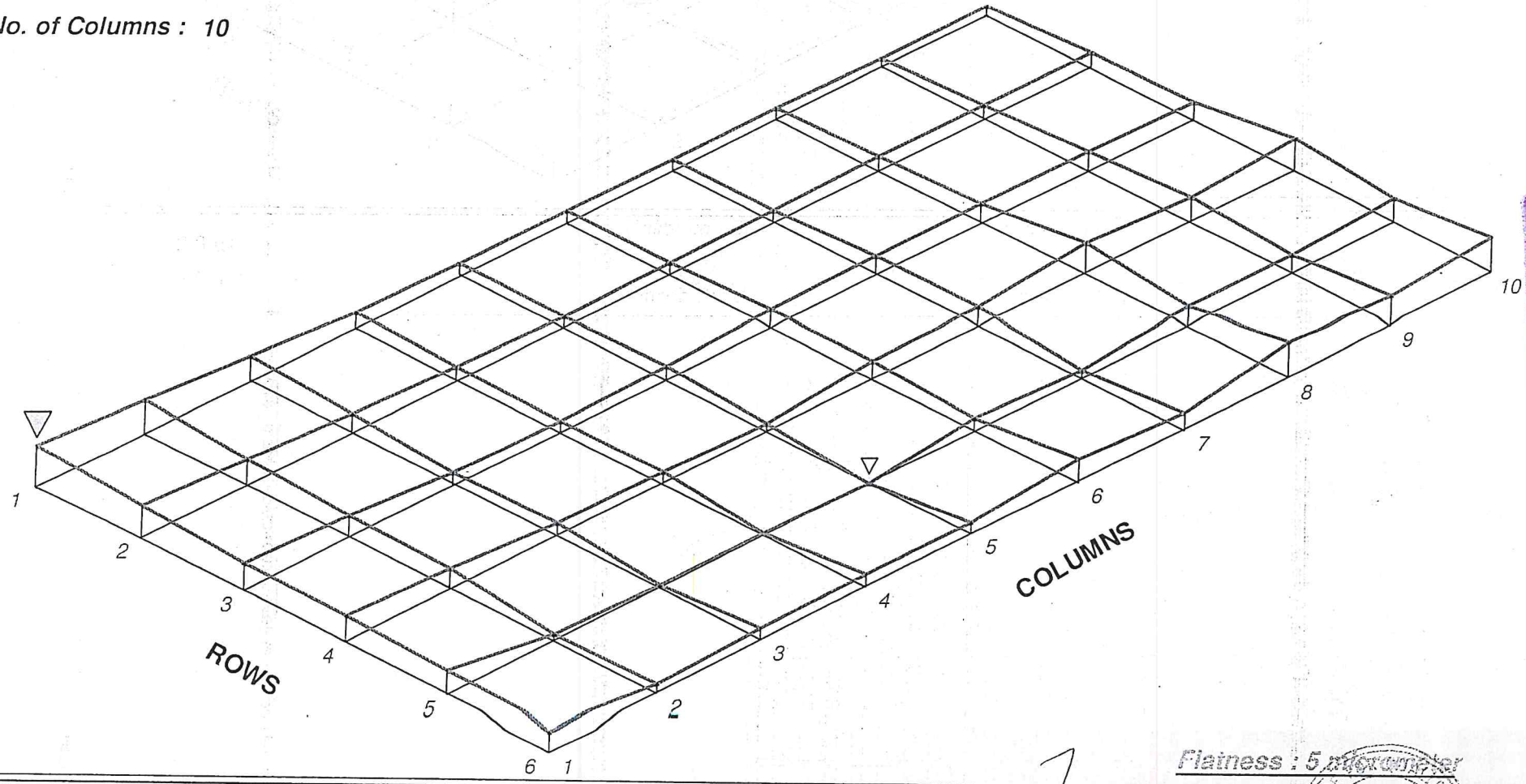
Report No. : NCQC-M/080823/001
Date : 8/8/2023

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

Scale : N T S



TRUE COPY

Flatness : 5 µm overall

Maximum Deviation: 2.8 µm
Minimum Deviation: -2.2 µm

Calibrated By	*Checked By*
Harsh Patel	Jigar Panchal

CALIBRATION INCHARGE