

TRUE COPY

NATIONAL CENTRE FOR QUALITY CALIBRATION

4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS, Iskcon-Ambli Road, Ambli, Ahmedabad-380 058

Ph. +91-79-29795322, 29795323 • Fax : +91-79-29795323, Cell No. +91-9327017517, +91-9328616370

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Visit our Web Site : www.calibrationlaboratory.in



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 a II ranges.

Calibration Certificate

FICR/M/064/03 Issue No.03

Name of Customer National Centre for Quality Calibration 4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS, Iskcon - Ambli Road, Ambli, Ahmedabad - 380 058, Gujarat	Certificate No.	NCQC-M/210223/005
	Date of Issue	22/02/2023
	Date of Calibration	21/02/2023
	Suggested Due Date	20/02/2024
Date of Receipt / Ref.No.: 21/02/2023		

ULR No. : CC212823000000788F	Discipline : Mechanical Calibration Mass and Volume
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Details of Observation of Unit Under Calibration	Identification No. : NCQC/M - 120
	Serial No. : B535359835
	Name of Instrument : Digital Mass Comparator

Range	0 to 22 g	Initial Error	Nil
Resolution	0.000001 g	Visual Inspection	Ok
Make / Model	Mettler Toledo/XPE 26C	Accuracy	Class I
Location	Mass Laboratory		

Loc. of Calibration	At Laboratory	Std. Ref. Used	OIML R 76
Environment Cond.	25 ± 1°C, 40 to 60 % Rh	Cali.Method No.	NCQC/CM/M/064

Master Instruments Detail

NCQC SYS.NO.	Nomenclature	Make/ Model	Id / Serial No.	Traceable To	Certificate No.	Valid Upto
262	Reference Weight box (E1 class)	Weightronics / =====	NCQC/M - 47 / NCQC/M/W/E1/04	CC-2346	MMD/150321/01	14/03/2024

Linearity Test

Standard Weights Put up in g.	Readings Observed By UUC in g.	Absolute Error in g.	Expanded Uncertainty in mg. (k =2) ±
0.0010004	0.001000	0.0000004	0.008000
0.0019997	0.002000	0.0000003	0.008000
0.0049985	0.004999	0.0000005	0.008000
0.0099997	0.009999	0.0000007	0.008000
0.0200019	0.020001	0.0000009	0.008000
0.0500003	0.050001	0.0000007	0.008000
0.1000029	0.100001	0.0000019	0.008000
0.1999992	0.199998	0.0000012	0.008000
0.5000023	0.500002	0.0000003	0.008000
1.0000029	1.000004	0.0000011	0.008000
1.9999926	1.999994	0.0000014	0.008000
5.000003	5.000003	0.0000000	0.008000
9.999996	9.999997	0.0000001	0.008000
19.999991	19.999990	0.0000001	0.010400

NCQC
Valid up to 20-02-2024
Reviewed *[Signature]*

Traceable To National / International Standards.

Calibrated By	<i>[Signature]</i> Himanshu Parbadiya Calibration Engineer	Reviewed & Approved By	<i>[Signature]</i> Jigar Panchal Calibration Incharge
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NCQC System Certificate No. 271

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ULR No. : CC212823000000788F Discipline : Mechanical Calibration
Mass and Volume

Details of Observation of Unit Under Calibration
Identification No. : NCQC/M – 120
Serial No. : B535359835
Name of Instrument : Digital Mass Comparator

Repeatability Test @ 9.999996 g (Half Load)

1	2	3	4	5	6	7	8	9	10	Repeatability
9.999997	9.999996	9.999997	9.999999	9.999997	9.999996	9.999997	9.999996	9.999998	9.999996	0.00000099

Repeatability Test @ 19.999991g (Full Load)

1	2	3	4	5	6	7	8	9	10	Repeatability
19.999991	19.999989	19.999992	19.999991	19.99999	19.999989	19.99999	19.999988	19.99999	19.999991	0.00000120

Remarks :

- All the errors are found within accuracy (i.e. Linearity – ± 0.5 mg. Up to 22 g.) of instrument specified as per OIML R 76 1.
- Instrument found 'Accepted' after calibration after applying decision rule (Max. Linearity is 0.0019 mg + Max. Uncertainty is 0.0104 mg, Total (Error + Uncertainty) is 0.0123 mg, which is within ± 0.5 mg).
- Averages of Minimum three Readings are reported.
- Suggested date is given based on customer requirements.
- These results are obtained at the time of calibration.
- Any hand written corrections (except @ marked) or photocopies of the report invalidates this certificate.
- The uncertainties are for a confidence probability of not less than 95% with coverage factor k = 2.
- Mass Comparator is calibrated for scientific or industrial purpose only.
- Our masters are directly calibrated through NABL accredited calibration lab having direct traceability with National / International standard.

Calibrated By Himanshu Parbadiya Calibration Engineer	Traceable To National / International Standards.	Reviewed & Approved By Jigar Panchal Calibration Incharge