



NATIONAL CENTRE FOR QUALITY CALIBRATION

4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS, Iskcon-Ambli Road, Ambli, Ahmedabad-380 058
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CC-2128

Since 1998

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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

F/CR/M/O 64/03 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/170224/005
	Date of Issue	20/02/2024
	Date of Calibration	17/02/2024
	Suggested Due Date	16/02/2025
Date of Receipt / Ref.No.: 17/02/2024		

ULR No. : CC21282400000829F	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	0.0001 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 ± 5°C, 40 to 60 % Rh	Cali.Method No.	NCQC/CM/M/064
Actual Env. Cond.	24.7 °C 49.9 %Rh		

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/MMM/E1/04	CC-2346	MMD/15032/01	14/03/2024

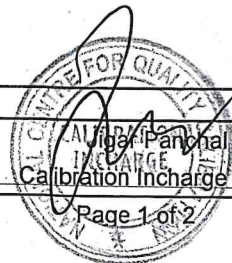
Linearity Test

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	0.001999	0.0000007	0.008000
0.0049985	0.004999	0.0000005	0.008000
0.0099997	0.010000	0.0000003	0.008000
0.0200019	0.020001	0.0000009	0.008000
0.0500003	0.050000	0.0000003	0.008000
0.1000029	0.100002	0.0000009	0.008000
0.1999992	0.199998	0.0000012	0.008000
0.5000023	0.500003	0.0000007	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 System Certificate No. 271

Traceable To National / International Standards.

Calibrated By	 Himanshu Parbadiya Calibration Engineer	Reviewed & Approved By	 Anil Panthia Calibration Incharge
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ULR No. : CC21282400000829F 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	9.999997	9.999996	9.999996	9.999997	9.999997	9.999998	9.999997	9.999998	9.999999	0.00000092

Repeatability Test @ 19.999991g (Full Load)

1	2	3	4	5	6	7	8	9	10	Repeatability
19.999991	19.999990	19.999989	19.999990	19.999991	19.999989	19.999992	19.999991	19.999990	19.999989	0.00000103

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 0.0014 mg + Max. Uncertainty is 0.0104 mg, Total (Error + Uncertainty) is 0.0118 mg, which is within ± 0.5 mg).
- Averages of Minimum Five Readings are reported.
- Suggested date is given based on customer requirements.
- These results are obtained at the time of calibration.
- Result relates to the item calibrated only.
- No external provider was used for calibration and hence it is not applicable.
- Calibration certificate shall not be reproduced except in full without written approval of Director, NCQC.
- 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 $k = 2$.
- Weighing balance 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.

Traceable To National / International Standards.

Calibrated By

Himanshu Parbadiya
Calibration Engineer

Reviewed & Approved By

Jigar Panchal
Calibration Incharge

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