



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
E-mail : ncqc@calibrationlaboratory.in, • calibrationlab.ncqc@gmail.com



CC-2128

Visit our Web Site : www.calibrationlaboratory.in

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

F/CR/M/064/02 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/210223/007
	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. : CC212823000000790F Discipline : Mechanical Calibration
Mass and Volume

Details of Observation of Unit Under Calibration
Identification No. : NCQC/M – 43
Serial No. : 48769
Name of Instrument : Digital Weighing Balance

Range	0 to 1220 g	Initial Error	Nil
Resolution	0.001 g	Visual Inspection	Ok
Make / Model	Precisa/1212MSCS	Accuracy	Class II
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/O1	14/03/2024
357	Weight (E1 Class)	M.M.D / =====	NCQC/M – 166 / ===	CC-2346	MMD/200822/O1	19/08/2025
358	Weight (E1 Class)	M.M.D / =====	NCQC/M – 167 / ===	CC-2346	MMD/200822/O2	19/08/2025

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. 78



Since 1998

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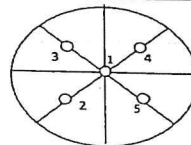
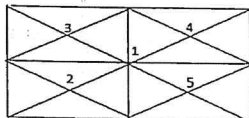
Details of Observation of Unit Under Calibration	Identification No. : NCQC/M - 43
	Serial No. : 48769
	Name of Instrument : Digital Weighing Balance

Linearity Test

Standard Weights Put up in g.	Readings Observed By UUC in g.	Absolute Error in g.	Expanded Uncertainty in mg. (k=2) ±
0.0049985	0.005	0.0000015	1.291
0.0099997	0.010	0.0000003	1.291
0.0200019	0.020	0.0000019	1.291
0.0500003	0.050	0.0000003	1.291
0.1000029	0.100	0.0000029	1.291
0.1999992	0.200	0.0000008	1.291
0.5000023	0.500	0.0000023	1.291
1.0000029	1.000	0.0000029	1.291
1.9999926	2.000	0.0000074	1.291
5.000003	5.000	0.000003	1.339
9.999996	9.999	0.000996	1.765
19.999991	19.999	0.000991	1.782
50.000019	50.000	0.000019	1.291
100.000026	100.000	0.000026	1.367
199.99995	199.999	0.00095	1.752
500.00012	500.000	0.00012	1.374
1000.0003	999.999	0.0013	2.036
1200.00025	1199.998	0.00225	2.905

Eccentricity Test

Standard Weights Put up in g.	Centre	Front Left	Back Left	Back Right	Front Right	Centre	Average of Center - Max Deviation of Corner
500.00012	500.000	499.999	500.000	499.999	499.999	500.000	0.0010



Traceable To National / International Standards.

Calibrated By		Himanshu Parbadiya Calibration Engineer	Reviewed & Approved By		Jigar Panchal Calibration Incharge
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Details of Observation of Unit Under Calibration

Identification No. : NCQC/M – 43
 Serial No. : 48769
 Name of Instrument : Digital Weighing Balance

Repeatability Test @ 500.00012 g @ Half Load

1	2	3	4	5	6	7	8	9	10	Repeatability
500.000	499.999	500.000	499.999	499.999	500.000	500.000	500.000	499.999	500.001	0.00067


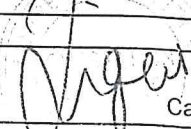
Repeatability Test @ 1000.0003 g @ Full Load

1	2	3	4	5	6	7	8	9	10	Repeatability
1199.998	1199.999	1199.998	1199.997	1199.998	1199.998	1199.999	1199.998	1199.997	1199.998	0.00067

Remarks :

- All the errors are found within accuracy (i.e. Linearity – ± 5 mg Up to 50 g, ± 10 mg for above 50 g to 200 g and ± 15 mg for above 200 g to 1220 g) of instrument specified as per OIML R 76 1.
- Instrument found 'Accepted' after calibration after applying decision rule [for up to 50 g (Max. Linearity is 0.996 mg + Max. Uncertainty is 1.782 mg, Total (Error + Uncertainty) is 2.7780 mg, which is within ± 5 mg), for above 50 g to 200 g (Max. Linearity is 0.95 mg + Max. Uncertainty is 1.752 mg, Total (Error + Uncertainty) is 2.702 mg, which is within ± 10 mg), for above 200 g to 1220 g (Max. Linearity is 2.25 mg + Max. Uncertainty is 2.905 mg, Total (Error + Uncertainty) is 5.155 mg, which is within ± 15 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.
- 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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