



Since 1998

# 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](mailto:ncqc@calibrationlaboratory.in), • [calibrationlab.ncqc@gmail.com](mailto:calibrationlab.ncqc@gmail.com)

Visit our Web Site : [www.calibrationlaboratory.in](http://www.calibrationlaboratory.in)



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

F/CR/M/064/02 Issue No.03

<b>Name of Customer</b> <b>National Centre for Quality Calibration</b> 4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS, Iskcon - Ambli Road, Ambli, Ahmedabad - 380 058, Gujarat	<b>Certificate No.</b> NCQC-M/210223/006	<b>Date of Issue</b> 22/02/2023 <b>Date of Calibration</b> 21/02/2023 <b>Suggested Due Date</b> 20/02/2024 <b>Date of Receipt / Ref.No.:</b> 21/02/2023
	<b>ULR No. :</b> CC212823000000789F	

<b>Discipline :</b> Mechanical Calibration Mass and Volume
---

<b>Details of Observation of Unit Under Calibration</b>	<b>Identification No. :</b> NCQC/M - 119 <b>Serial No. :</b> 33404509 <b>Name of Instrument :</b> Digital Weighing Balance
---	--


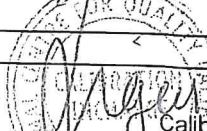
<b>Range</b> 0 to 220 g <b>Resolution</b> 0.00001 g <b>Make / Model</b> Sartorius/MSU225S-100-DU <b>Location</b> Mass Laboratory	<b>Initial Error</b> Nil <b>Visual Inspection</b> Ok <b>Accuracy</b> Class I
---	---

<b>Loc. of Calibration</b> At Laboratory <b>Environment Cond.</b> 25 ± 1°C, 40 to 60 % Rh	<b>Std. Ref. Used</b> OIML R 76 <b>Cali.Method No.</b> 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/15032101	14/03/2024

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

<b>Calibrated By</b>  Himanshu Parbadiya Calibration Engineer	<b>Traceable To National / International Standards.</b> <b>Reviewed &amp; Approved By</b>  Jigar Panchal Calibration Incharge
---	--

NCQC System Certificate No. 272

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](mailto:ncqc@calibrationlaboratory.in), • [calibrationlab.ncqc@gmail.com](mailto:calibrationlab.ncqc@gmail.com)

Visit our Web Site : [www.calibrationlaboratory.in](http://www.calibrationlaboratory.in)



**Precision Calibration with National / International Traceability for Temperature, Dimension, Pressure, Vacuum, Time, Mass, Electrical, Noise, Airflow, Lux & all Special Purpose Instruments in all ranges.**

### Calibration Certificate

F/CR/M/64/02 Issue No.03

<b>Name of Customer</b> National Centre for Quality Calibration 4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS, Iskcon – Ambli Road, Ambli, Ahmedabad – 380 058, Gujarat	Certificate No. Date of Issue Date of Calibration Suggested Due Date Date of Receipt / Ref.No.:	NCQC-M/210223/006 22/02/2023 21/02/2023 20/02/2024 21/02/2023
--	---	---

ULR No. : CC212823000000789F	Discipline : Mechanical Calibration Mass and Volume
------------------------------	--

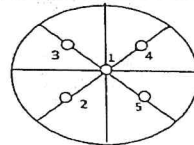
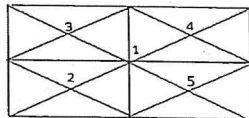
<b>Details of Observation of Unit Under Calibration</b>	Identification No. : NCQC/M – 119 Serial No. : 33404509 Name of Instrument : Digital Weighing Balance
---	---

#### Linearity Test

Standard Weights Put up in g.	Readings Observed By UUC in g.	Absolute Error in g.	Expanded Uncertainty in mg. (k =2) ±
0.0010004	0.00100	0.0000004	0.03000
0.0019997	0.00200	0.0000003	0.03000
0.0049985	0.00500	0.0000015	0.03000
0.0099997	0.01000	0.0000003	0.03000
0.0200019	0.02000	0.0000019	0.03000
0.0500003	0.05000	0.0000003	0.03000
0.1000029	0.10000	0.0000029	0.03000
0.1999992	0.19999	0.0000092	0.03000
0.5000023	0.49999	0.0000123	0.03000
1.0000029	1.00000	0.0000029	0.03000
1.9999926	1.99999	0.0000026	0.03000
5.000003	4.99999	0.000013	0.03000
9.999996	10.00000	0.000004	0.03000
19.999991	19.99998	0.000011	0.03000
50.000019	50.00000	0.000019	0.03000
100.000026	99.99998	0.000046	0.05820
199.99995	199.99993	0.00002	0.03960

#### 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
100.000026	99.99998	99.99999	99.99999	99.99998	99.99999	99.99999	-0.000005



Traceable To National / International Standards.

Calibrated By	 Himanshu Parbadiya Calibration Engineer	Reviewed & Approved By	 Jigar Panchal Calibration Incharge
---------------	--	------------------------	---



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](mailto:ncqc@calibrationlaboratory.in), [calibrationlab.ncqc@gmail.com](mailto:calibrationlab.ncqc@gmail.com)

Visit our Web Site : [www.calibrationlaboratory.in](http://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 all ranges.

## Calibration Certificate

F/CR/M/64/02 Issue No.03

<b>Name of Customer</b> National Centre for Quality Calibration 4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS, Iskcon – Ambli Road, Ambli, Ahmedabad – 380 058, Gujarat	<b>Certificate No.</b> NCQC-M/210223/006	<b>Date of Issue</b> 22/02/2023 <b>Date of Calibration</b> 21/02/2023 <b>Suggested Due Date</b> 20/02/2024
	<b>Date of Receipt / Ref.No.:</b> 21/02/2023	

ULR No. : CC212823000000789F      Discipline : Mechanical Calibration  
Mass and Volume

**Details of Observation of Unit Under Calibration**  
 Identification No. : NCQC/M – 119  
 Serial No. : 33404509  
 Name of Instrument : Digital Weighing Balance

Repeatability Test @ 100.000026 g @ Half Load

1	2	3	4	5	6	7	8	9	10	Repeatability
99.99998	99.99997	99.99999	99.99998	99.99997	99.99998	99.99996	99.99998	99.99999	99.99998	0.0000092

Repeatability Test @ 199.99995 g @ Full Load

1	2	3	4	5	6	7	8	9	10	Repeatability
199.99993	199.99991	199.99994	199.99995	199.99993	199.99993	199.99991	199.99992	199.99994	199.99995	0.0000145

**Remarks :**

- All the errors are found within accuracy (i.e. Linearity – ± 0.5 mg Up to 50 g, ± 1 mg for above 50 g to 200 g and ± 1.5 mg. for above 200 g to 225 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 0.019 mg + Max. Uncertainty is 0.030 mg, Total (Error + Uncertainty) is 0.0490 mg, which is within ± 0.5 mg.), for above 50 g to 200 g (Max. Linearity is 0.046 mg + Max. Uncertainty is 0.0592 mg, Total (Error + Uncertainty) is 0.1052 mg, which is within ± 1 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