



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 • calibrationlab.ncqc@gmail.com

Visit our Web Site : www.calibrationlaboratory.in



CC-2128

TRUE COPY

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/O64/02 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/170224/001
	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. : CC21282400000825F	Discipline : Mechanical Calibration Mass and Volume
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Details of Observation of Unit Under Calibration	Identification No. : NCQC/M – 42
	Serial No. : 4600149
	Name of Instrument : Digital Weighing Balance

Range	0.01 to 225 g	Initial Error	Nil
Resolution	0.0001 g	Visual Inspection	Ok
Make / Model	Precisa/ES 225 SM – DR	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.	24.8 °C 49.4 %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/M/M/E1/04	CC-2346	MMD/15032/01	14/03/2024

Traceable To National / International Standards.

Calibrated By

Himanshu Parbadiya
Calibration Engineer

Reviewed & Approved By

Jigari Panchal
Calibration Incharge
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NCQC System Certificate No. 116



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Name of Customer

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Discipline : Mechanical Calibration
Mass and Volume

Details of Observation of Unit Under Calibration

Identification No. : NCQC/M - 42

Serial No. : 4600149

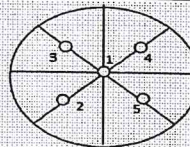
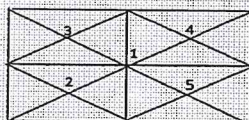
Name of Instrument : Digital Weighing Balance

Linearity Test

Standard Weights Put up in g.	Readings Observed By UUC in g.	Absolute Error in g.	Expanded Uncertainty in mg. (k=2) ±
0.0099997	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	0.20000	0.0000008	0.03000
0.5000023	0.50000	0.0000023	0.03000
1.0000029	1.00000	0.0000029	0.03000
1.9999926	1.99999	0.0000026	0.03000
5.000003	5.00001	0.000007	0.03000
9.999996	9.99998	0.000016	0.03000
19.999991	19.99999	0.000001	0.03000
50.000019	50.00001	0.000009	0.03000
100.000026	100.00002	0.000006	0.03000
199.99995	200.0000	0.00005	0.0882

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	100.00002	100.00002	100.00002	100.00003	100.00001	100.00002	0.000010



Traceable To National / International Standards.

Calibrated By

Himanshu Parbadiya
Calibration Engineer

Reviewed & Approved By



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Details of Observation of Unit Under Calibration	Identification No. : NCQC/M – 42
	Serial No. : 4600149
	Name of Instrument : Digital Weighing Balance

Repeatability Test @ 100.000026 g @ Half Load

1	2	3	4	5	6	7	8	9	10	Repeatability
100.00002	100.00001	100.00002	100.00003	100.00002	100.00003	100.00002	100.00000	100.00002	100.00001	0.000092

Repeatability Test @ 199.99995 g @ Full Load

1	2	3	4	5	6	7	8	9	10	Repeatability
200.0000	200.0001	200.0000	199.9999	199.9999	200.0000	200.0001	200.0001	200.0000	200.0001	0.000079

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 0.016 mg. + Max. Uncertainty is 0.03 mg, Total (Error + Uncertainty) is 0.046 mg., which is within ± 0.5 mg), for above 50 g to 200 g (Max. Linearity is 0.05 mg. + Max. Uncertainty is 0.0882 mg, Total (Error + Uncertainty) is 0.1382 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.
- 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

Ujjwal Panchal
Calibration Incharge
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