



NATIONAL CENTRE FOR QUALITY CALIBRATION

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

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Visit our Web Site : www.calibrationlaboratory.in



CC-2128

Since 1998

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/170224/006
	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. : CC21282400000830F	Discipline : Mechanical Calibration Mass and Volume
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Details of Observation of Unit Under Calibration	Identification No. : NCQC/M – 119
	Serial No. : 33404509
	Name of Instrument : Digital Weighing Balance

Range	0 to 220 g	Initial Error	Nil
Resolution	0.0001 g	Visual Inspection	Ok
Make / Model	Sartorius/MSU225S-100-DU	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.	25.1 °C 50.3 %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/W/E1/04	CC-2346	MMD/150321/01	14/03/2024

Traceable To National / International Standards.

Calibrated By		Himanshu Parbadiya Calibration Engineer	Reviewed & Approved By		Chagar Ranchal Calibration Incharge
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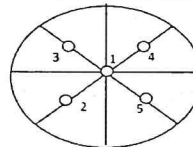
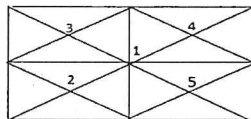
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	Name of Instrument : Digital Weighing Balance

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	0.50000	0.0000023	0.03000
1.0000029	1.00001	0.0000071	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	19.99999	0.000001	0.03000
50.000019	49.99999	0.000029	0.03800
100.000026	99.99999	0.000036	0.04840
199.99995	199.99993	0.00002	0.04080

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	99.99999	99.99998	99.99999	100.00000	99.99999	99.99999	-0.000010



Traceable To National / International Standards.

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





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

Repeatability Test @ 100.000026 g @ Half Load										
1	2	3	4	5	6	7	8	9	10	Repeatability
99.99999	99.99998	99.99997	99.99998	100.00000	99.99999	99.99999	99.99998	99.99997	99.99999	0.0000097

Repeatability Test @ 199.99995 g @ Full Load										
1	2	3	4	5	6	7	8	9	10	Repeatability
199.99993	199.99992	199.99991	199.99994	199.99995	199.99994	199.99993	199.99992	199.99992	199.99993	0.0000120

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 0.029 mg + Max. Uncertainty is 0.038 mg, Total (Error + Uncertainty) is 0.0670 mg, which is within ± 0.5 mg.), for above 50 g to 200 g (Max. Linearity is 0.036 mg + Max. Uncertainty is 0.0484 mg, Total (Error + Uncertainty) is 0.0844 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 Jigar Panchal Calibration Incharge

