

**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  
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CC-2128



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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 a II ranges.

## Calibration Certificate

FICR/M/064/02 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.	NCQC-M/210223/003
	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. : CC212823000000786F	Discipline : Mechanical Calibration Mass and Volume
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<b>Details of Observation of Unit Under Calibration</b>	Identification No. : NCQC/M - 45
	Serial No. : 201230K1002
	Name of Instrument : Digital Weighing Balance

Range	5 to 30000 g	Initial Error	Nil
Resolution	0.1 g	Visual Inspection	Ok
Make / Model	Scale-Tec/SAB30K1	Accuracy	Class III
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/MW/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
359	Weight (E1 Class)	Weightronics / =====	NCQC/M - 170 / ===	CC-2346	MMD/200822/O3	19/08/2025
145	Weights (E2 Class)	Weightronics / =====	NCQC/M - 52 & 53 / =====	CC-2743	WMCL/E/2022-0-1/16 32	07/01/2025
360	Weights (E2 Class)	Weightronics / =====	NCQC/M - 168	CC-2346	MMD/200822/O4	19/08/2024

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

NCQC System Certificate No. 290



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## Calibration Certificate

F/CR/M/ O64/02 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/210223/003	<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
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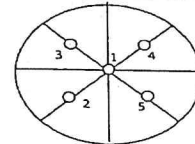
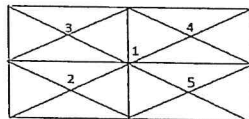
<b>Details of Observation of Unit Under Calibration</b>	<b>Identification No. :</b> NCQC/M – 45 <b>Serial No. :</b> 201230K1002 <b>Name of Instrument :</b> Digital Weighing Balance
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### Linearity Test

Standard Weights Put up in g.	Readings Observed By UUC in g.	Absolute Error in g.	Expanded Uncertainty in mg. (k =2) ±
5.000003	5.0	0.000003	135.1
9.999996	10.0	0.000004	135.1
19.999991	20.0	0.000009	135.1
50.000019	50.0	0.000019	135.1
100.000026	100.0	0.000026	135.1
199.99995	200.0	0.00005	135.1
500.00012	500.0	0.00012	135.1
1000.0003	1000.0	0.0003	135.1
2000.0001	1999.9	0.1001	180.1
4999.995	4999.9	0.095	176.4
9999.99	9999.9	0.09	194.7
20000.005	20000.0	0.005	195.9
29999.995	30000.2	0.205	274.2

### 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
9999.99	9999.9	9999.9	10000.0	9999.9	9999.9	9999.9	-0.10



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



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Discipline : Mechanical Calibration  
 Mass and Volume

<b>Details of Observation of Unit Under Calibration</b>	<b>Identification No.</b> : NCQC/M – 45
	<b>Serial No.</b> : 201230K1002
	<b>Name of Instrument</b> : Digital Weighing Balance

### Repeatability Test @ 14999.985 g @ Half Load

1	2	3	4	5	6	7	8	9	10	Repeatability
14999.9	14999.8	14999.9	14999.9	14999.8	14999.9	15000.0	14999.9	15000.1	14999.9	0.088

### Repeatability Test @ 29999.995 g @ Full Load

1	2	3	4	5	6	7	8	9	10	Repeatability
30000.2	30000.1	30000.2	30000.3	30000.2	30000.2	30000.1	30000.2	30000.3	30000.2	0.067

### Remarks :

- All the errors are found within accuracy (i.e. Linearity – ± 500 mg Up to 500 g, ± 1000 mg for above 500 g to 2000 g and ± 1500 mg for above 2000 g to 30000 g) of instrument specified as per OIML R 76 1.
- Instrument found 'Accepted' after calibration after applying decision rule [for up to 500 g (Max. Linearity is 0.12 mg + Max. Uncertainty is 135.1 mg, Total (Error + Uncertainty) is 135.22 mg, which is within ± 500 mg), for above 500 g to 2000 g (Max. Linearity is 100.1 mg + Max. Uncertainty is 180.1 mg, Total (Error + Uncertainty) is 280.2 mg, which is within ± 1000 mg), for above 2000 g to 30000 g (Max. Linearity is 205 mg + Max. Uncertainty is 274.2 mg, Total (Error + Uncertainty) is 479.2 mg, which is within ± 1500 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 &amp; Approved By

Jigar Panchal  
 Calibration Incharge

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