



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

Since 1998

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 all ranges.

Calibration Certificate

F/CR/M/063/03 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/260423/034
	Date of Issue	01/05/2023
	Date of Calibration	26/04/2023
	Suggested Due Date	25/04/2025
Date of Receipt / Ref.No.: 25/04/2023		

ULR No. : CC212823000002583F	Discipline : Mechanical Calibration Mass and Volume
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Details of Observation of Unit Under Calibration	Identification No. : NCQC/M-63 to NCQC/M-70
	Serial No. : ===
	Name of Instrument : Weights

Range	===	Visual Inspection Accuracy	OK M1 Class
Make / Model Location	===/=== Laboratory		
Loc. of Calibration Environment Cond.	At Laboratory 25 ± 1 °C, 40 to 60% Rh, 1000 ± 15 hPa	Std. Ref. Used	OIML R 111 – 1
Actual Env. Cond.	24.8 °C 49.1 %Rh 1006.3 hPa	Cali.Method No.	NCQC/CM/M/063

Master Instruments Detail

NCQC SYS.NO.	Nomenclature	Make/ Model	Id / Serial No.	Traceable To	Certificate No.	Valid Upto
360	Weights (E2 Class)	Weightronics / =====	NCQC/M – 168	CC-2346	MMD/200822/04	19/08/2024
360/1	Weights (E2 Class)	Weightronics / =====	NCQC/M-169	CC-2346	MMD/200822/05	19/08/2024

Weights (Denomination)	Type	Material	Assume density	Make
20000 g - 4 nos., 50000 g - 4 Nos.	Hexagonal	Cast iron	7100 ± 600 kg/m³	===

Results of calibration

Sr. No. / Id. No.	Denomination (UUC) in g.	Mass Value in g.	Deviation in g.	Expanded Uncertainty in mg. (k =2)	Status
NCQC/M-63	20000	19999.840	-0.160	15.3000	M1
NCQC/M-64	20000	19999.770	-0.230	15.3000	M1
NCQC/M-65	20000	20000.135	0.135	15.3000	M1
NCQC/M-66	20000	20000.185	0.185	15.3000	M1
NCQC/M-67	50000	49998.780	-1.220	27.0000	M1
NCQC/M-68	50000	49999.270	-0.730	27.0000	M1
NCQC/M-69	50000	49998.545	-1.455	27.0000	M1
NCQC/M-70	50000	49999.125	-0.875	27.0000	M1

NCQC System Certificate No. 220

Traceable To National / International Standards.

Calibrated By	 Keyur Panchal Calibration Engineer	Reviewed & Approved By	 Keyur Panchal Calibration Incharge
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ULR No. : CC21282300002583F		Discipline : Mechanical Calibration Mass and Volume		
Details of Observation of Unit Under Calibration		Identification No. : NCQC/M-63 to NCQC/M-70 Serial No. : === Name of Instrument : Weights		

Remarks:

- Mass values of all the weights are conventional mass values and within the maximum errors permissible in "M1" Accuracy Class of weights as per OIML R 111-1.
- Weights are calibrated for scientific or industrial purpose only.
- These results are obtained at the time of calibration.
- Suggested due date is given based on customer requirements.
- 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.
- Change in temperature and relative humidity during the calibration were less than ± 0.7 °C per hour and $\pm 10\%$ Rh per 4 hours respectively).
- Calibration is performed on the mass comparator against standards mass by comparison method under controlled conditions (ABBA Method).
- Corrected mass value is calculated based on ABBA method.
- Condition of instrument found satisfactory during receipt.
- Any hand written corrections (except @) or photocopies of the report invalidates this certificate.
- The uncertainties are for a confidence probability of not less than 95% with coverage factor $k = 2$.
- Our masters are directly calibrated through NABL accredited calibration laboratory having direct traceability with National / international standard.

Traceable To National / International Standards.

Calibrated By

Keyur Panchal
Calibration Engineer

Reviewed & Approved By

