



CC - 2346

**M.M.D. Kantawala**
CALIBRATION LABORATORY**Calibration Certificate**

Name of Customer → National Centre For Quality Calibration 4, Abhishree Corporate park, Nr. Swagat Bunglows BRTS, Iskcon-Ambli Road, Ambli, Ahmedabad – 380058, Gujarat, India.		Certificate No. Date of Issue Date of Calibration # Due Date	MMD/200822/04 22-08-2022 20-08-2022 19-08-2024
Date Of Receipt / Ref. No. → 18-08-2022		F/GAL/02/CR, Issue No.04 Page 1 of 1	
Discipline	Mechanical – Mass	ULR No.	CC234622000000313F
Details of Observation of Unit Under Calibration (UUC)		Identification No.	: NCQC/M-168
		Name of Instrument	: Weight
Weights	20000g/1 Total = 01 pcs		
Type	Cylindrical Knob Type		
Material	Stainless Steel		
Assumed Density	7950 ± 140 kg/m ³		
Make	Weightronics	Visual Inspection	* OK
Location	====	Barometric Pressure	1005 ± 15 hPa

Results of Calibration

Id. No.	Denomination (Unit under calibration)	Mass value in g.	Deviation in g.	Uncertainty (±) in mg.	Class
NCQC/M-168	20000 g.	20000.005	0.005	8.6	E2

Remarks:

- Mass values of all the weights are conventional mass values and within the maximum errors permissible in "E₂" Accuracy Class of weights as per OIML R 111-1.
- Thermal stabilization time 48 hours.
- These results are obtained at the time of calibration.
- Weights are calibrated for scientific or industrial purpose only.
- # Due date is given as suggested by customer.
- Any hand written corrections (except @ marked) or photocopies of the report invalidates this certificate.
- Environment condition during calibration: 24 ± 0.5°C, 40 to 60% Rh. (Change in temperature and relative humidity during the calibration were less than ± 0.3 °C per hour with a maximum of ± 0.5 °C per 12 hours, and ± 5% Rh per 4 hours respectively)
- Average temperature → 24.2°C, average pressure 998 hPa and average humidity 46.0% Rh during calibration of instruments.
- The uncertainties are for a confidence probability of not less than 95.45% with coverage factor k = 2.
- Condition of instrument found satisfactory during receipt.
- Calibration is performed on the electronic weighing balance against standards mass by comparison method under controlled conditions (ABBA Method).
- All calibration performed by MMD Kantawala Calibration Laboratory. None of the results reported in this certificate are from external provider.
- Calibration results reported in this certificate relates only to the item calibrated.
- Data provided by customer: Identification No. and accuracy of UUC.
- Reference standard no.: OIML R 111 – 1 for calibration and classification of weights.
- Reference Calibration method no.: MMD/CM/02.
- Master equipment / reference standards are traceable to NABL accredited calibration laboratory.
- Corrected mass value is calculated based on ABBA method.

Details of Master Instrument Used for Calibration

Nomenclature	Make / Model	Sr. No. / Id. No.	Class	Calibrated by	Calibration certificate no.	Calibration Due Date
Reference Weight Box	MMD / =====	MMD/CAL/02	E1	CC-2854	TC/6944/2020	15-12-2023
Mass Comparator	Mettler Toledo / XPE64003LC	B541536029	II	Not applicable	Not applicable	=====

TRUE COPY

NCQC System Certificate No. 360

NCQC
Valid up to 19-08-2024
Reviewed *[Signature]*

Traceable To National / International Standards.

Calibrated By <i>Vilas</i> Vilas Prajapati Calibration Engineer	Reviewed and Approved By Vira Mistry Technical Manager
---	---

17/A, Mohan Estate, Opp. Anupam Cinema, Khokhara, Ahmedabad-380 008 (Gujarat) INDIA.

web : www.mmdkantawala.com e-mail : sales@mmdkantawala.com - calibrationlab@mmdkantawala.com Mo. 093742 42142 / 098795 65805