CC - 2346

TRUE COPY

M.M.D. Kantawa
CALIBRATION LABORAT

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/200822/05 22–08–2022 20–08–2022 19–08–2024
Date Of Receipt / Ref. No.→ 18–08–2022			F/CAL/02/CR, Issue No.04 Page 1 of 1
Discipline	Mechanical – Mass	**ULR No.**	CC234622000000031 4F
Details of Observation of Unit Under Calibration (UUC)	Identification No. Name of Instrument	: **NCQC/M-169** : **Weight**	
Weights	50000g/1 Total = 01 pcs		
Type	Cylindrical Handle Type		
Material	Stainless Steel		
Assumed Density	7950 ± 140 kg/m^3		
Make Location	Weightronics ====	Visual Inspection Barometric Pressure	OK 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-169	50000 g.	50000.025	0.025	13	E2

Remarks:

- Mass values of all the weights are conventional mass values and within the maximum errors permissible in "E_2" 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 → 24.1°C, average pressure 997 hPa and average humidity 47.2% 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 form 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.
- Calibration was performed using sub-division / sub-multiplication method to calibrate unit under calibration.

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	======

NCQC
Valid up to 19-08-2024
Reviewed

NCQC System Certificate No. 360

Traceable To National / International Standards.

Calibrated By	Vilas **Vilas Prajapati** **Calibration Engineer**	**Reviewed and Approved By**	**Viral Mistry** **Technical Manager**