



NABL/ILAC/0357 NABL CERTIFICATE  
No. CC - 2346

### Calibration Certificate

**TRUE COPY**

|   |                     |               |
|---|---------------------|---------------|
| Name of Customer → <b>National Centre For Quality Calibration</b><br>4, Abhishree Corporate park, Iskcon-Ambli Road,<br>Nr.Swagat Bunglows, Ambli,<br>Ahmedabad – 380058, Gujarat, India. | Certificate No.     | MMD/200819/03 |
|   | Date of Issue       | 21-08-2019    |
|   | Date of Calibration | 20-08-2019    |
|   | Suggested Due Date  | 19-08-2022    |

Date Of Receipt / Ref. No. → 17-08-2019

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|   |                              |                            |               |
|---|------------------------------|----------------------------|---------------|
| <b>Discipline</b>                                       | Mechanical – Mass            |                            |               |
| <b>Details of Observation of Unit Under Calibration</b> | Identification No.           | : <b>NCQC/M-170</b>        |               |
|   | Name of Instrument           | : <b>Weight</b>            |               |
| <b>Weights</b>  | 2000g/1                      | Total= 01 pcs              |               |
| <b>Type</b>   | Cylindrical Knob Type        |                            |               |
| <b>Material</b>   | Stainless Steel              |                            |               |
| <b>Assumed Density</b>                                  | 7950 ± 140 kg/m <sup>3</sup> |                            |               |
| <b>Make</b>   | Weightronics                 | <b>Visual Inspection</b>   | OK            |
| <b>Location</b>   | ====                         | <b>Barometric Pressure</b> | 1005 ± 15 hPa |

### Results of Calibration

| <b>Id. No.</b> | <b>Denomination (Unit under calibration)</b> | <b>Mass value in g.</b> | <b>Deviation in g.</b> | <b>Uncertainty (±) in mg.</b> | <b>Class</b> |
|----------------|--|-------------------------|------------------------|-------------------------------|--------------|
| NCQC/M-170     | 2000 g.                                      | 2000.0000               | 0.0000                 | 0.31                          | E1           |

### Remarks:

- Mass values of all the weights are conventional mass values and within the maximum errors permissible in "E1" Accuracy Class of weights as per OIML R 111-1.
- Thermal stabilization time 48 hours.
- These results are obtained at the time of calibration.
- Suggested due date is given based on customer requirements.
- Any hand written corrections (except @ marked) or photocopies of the report invalidates this certificate.
- Environment condition during calibration: Temperature – 23 ± 0.5°C, Relative Humidity – 40 to 60 %Rh. (Change in temperature was controlled and maintained less than ± 0.3 °C per hour with a maximum of ± 0.5 °C per 12 hours, and relative humidity was controlled and maintained with a maximum of ± 5% Rh per 4 hours)
- Average temperature → 23.2°C, Average pressure 1004 hPa and average humidity 48.2% Rh was maintained during calibration.
- The uncertainty of measurement has been evaluated in compliance with documented quality procedure. The expanded uncertainty assigned corresponds to a coverage probability of 95.45% for normal distribution and the coverage factor k=2. The uncertainty does not include the possible effect of magnetism. The contribution of uncertainty originating from the standards and the balances used, the weighing process, and air buoyancy corrections are taken in to account.
- 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).
- 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.
- Shape of reference standard weights : Cylindrical knob
- ULR – CC234619000000612F

### Details of Master Instrument Used for Calibration

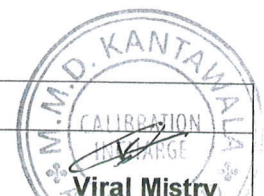
| <b>Nomenclature</b>  | <b>Make / Model</b>        | <b>Serial No. / ID No.</b> | <b>Class</b> | <b>Calibration Due Date</b> |
|----------------------|----------------------------|----------------------------|--------------|-----------------------------|
| Reference weight box | MMD / =====                | MMD/CAL/05                 | E1           | 19-03-2022                  |
| Mass Comparator      | Mettler Toledo / XPE2004SC | 541536030                  | ===          | =====                       |

NCQC System Certificate No. 359

NCQC  
Valid up to 19-08-2022  
Reviewed

Traceable To National / International Standards.

|                      |                 |                                 |              |
|----------------------|-----------------|---------------------------------|--------------|
| <b>Calibrated By</b> | Vilas Prajapati | <b>Reviewed and Approved By</b> | Viral Mistry |
|----------------------|-----------------|---------------------------------|--------------|



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