



CC-2743

## Calibration Certificate

Format No.: 7.8-QF-02

Issue Dated: 10-01-2022

Recommended Date for the Next Calibration Mentioned As Per Request of the Customer	Page	No. of Pages
Date: 07-01-2025	-1-	-2-

Certificate No.: WMCL/E/2022-01/1632  
 ULR - CC274322000001632F

Date of Calibration: 08-01-2022

Calibrated for	:	NATIONAL CENTRE FOR QUALITY CALIBRATION 4, Abhishree Corporate Park, Near Swagat Bunglow BRTS, Iskcon-Ambli Road, Ambli, Ahmedabad - 380 058, Gujarat, INDIA
Customer Reference	:	RGP No.: 21122021, Dated: 21/12/2021
Service Request No	:	7.1-QF-01-1632
Date of Receipt	:	23/12/2021
Condition of Receipt	:	Non Satisfactorily
Calibrated at	:	Laboratory
Description of Instrument 10 kg, 5 kg	:	Make - "WEIGHTRONICS" Stainless Steel Knob Type Cylindrical Weights
Manufacturer Serial No	:	---
Customer Identification No	:	---
Assumed Density (d)	:	(7 950 ± 140) kg/m <sup>3</sup> ; (k=2) for Stainless Steel
Environmental Conditions	:	Temperature : (23.0 ± 2.0) <sup>o</sup> C Relative Humidity : (50.0 ± 10.0) % [Change in Temperature and Relative Humidity during the calibration were less than ± 0.7 <sup>o</sup> C per hour and ± 10.0 % per 4 hours respectively]
Standard (s) used	:	WMCL working standard of mass with uncertainty Better than one-third of the reported uncertainty of measurement
Traceability Standard (s)	:	The Standard used for Calibration are Traceable from "NPL" New Delhi, INDIA vide Calibration Certificate No.: 19100740/D1.01/C-114, Dated: 03/12/2019 valid up to Dated: 03/12/2022
Balance used for Calibration	:	Precision Balances of Appropriate Accuracy Traceable to Mass Standards
Methodology of Calibration Adopted	:	The Method of comparison with standard (s) using Substitution Weighing Method and (ABBA or ABA) Weighing Cycle, The Reported Mass Value(s) is (are) the conventional mass value(s) (M <sub>C</sub> ) related to the true mass value(s) (M <sub>T</sub> ) by formula: M <sub>C</sub> =M <sub>T</sub> [1-1.2(1/d-1/8000)]. (Where, 'd' is in kg/m <sup>3</sup> ). (Cal. Procedure No.: WMCL-CP-01)

Calibrated by:

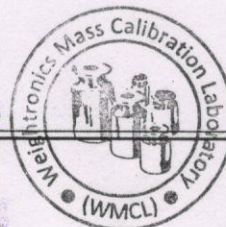
*Bharat*  
Bharat Bhushan

Issued by:

*Lalit Shukla*  
Lalit Shukla  
Authorized Signatory



NCQC  
Valid up to 07-01-2025  
Reviewed *[Signature]*



TRUE COPY

NCQC System Certificate No. 145





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**Results:**

ID. No.	Denomination	Mass Value (g)	Uncertainty ( $\pm$ g)
NCQC/M-52	10 kg	9 999.990	0.005
NCQC/M-53	5 kg	4 999.995	0.002 5

**Remarks:** Mass Values of all the weights are conventional mass values and within the maximum errors permissible in "E<sub>2</sub>" Accuracy Class of Weights as per OIML R 111-1:2004.

The Reported uncertainty is at coverage factor  $k=2$  which corresponds to a coverage probability of approximately 95% for a normal distribution. The contribution of uncertainty originating from the standard used, the weighing process, drift in standard and the air buoyancy correction are taken in to account.

**Notes:** This Calibration Certificate may not be reproduced except in full, unless written Permission for Publication of an approved extract has been obtained from the Laboratory (WMCL).

- The Calibration results reported in this Certificate are valid at the time of and under the stated conditions of measurement.
- The Calibration results refer only to the particular item submitted for calibration.
- The Calibration Certificate issued for Weights, Weighing Balance used for Scientific or Industrial purposes only and not used for Commercial.



Calibrated by:

*Bharat*  
Bharat Bhushan

Issued by:

*Lalit Shukla*  
Lalit Shukla  
Authorized Signatory

