



Since 1998

# 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](mailto:ncqc@calibrationlaboratory.in), • [calibrationlab.ncqc@gmail.com](mailto:calibrationlab.ncqc@gmail.com)

Visit our Web Site : [www.calibrationlaboratory.in](http://www.calibrationlaboratory.in)



CC-2128

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

Name of Customer → <b>National Centre For Quality Calibration</b> 4, Abhishree Corporate Park, Near Swagat Bungalows BRTS, Iskcon – Ambli Road, Ambli, Ahmedabad – 380 058, Gujarat.		Certificate No.	NCQC-M/210222/01		
		Date of Issue	21-02-2022		
		Date of Calibration	21-02-2022		
		Suggested Due Date	20-02-2023		
Date Of Receipt / Ref. No. → 19-02-2022		F/CR/M/063/01, Issue No.02 Page 1 of 2			
<b>ULR – CC212822000000676F</b>		<b>Discipline → Mechanical Calibration,</b> Mass & Volume			
Details of Observation of Unit Under Calibration		Identification No. :	<b>NCQC/M – 48</b>		
		Serial No. :	<b>=====</b>		
		Name of Instrument :	<b>Weight Box</b>		
Weights	1,2,2,5,10,20,20,50,100,200,200,500 mg	1,2,2,5,10,20,20,50,100,200,200 g			
Type	Wire	Cylindrical Knob			
Material	Stainless steel	Stainless steel			
Assumed Density	7950 ± 140 kg/m <sup>3</sup>	7950 ± 140 kg/m <sup>3</sup>			
Make	Weigh India	Visual Inspection	OK		
		Barometric Pressure	1000 ± 15 hPa		
<b>Results of Calibration</b>					
Sr. No.	Denomination (Unit under calibration)	Mass value in g	Deviation in g	Expanded Uncertainty (±)	Class
1	0.001 g	0.000998	-0.000002	0.0014 mg	E2
2	0.002 g	0.002002	0.000002	0.0014 mg	E2
3	* 0.002 g	0.001996	-0.000004	0.0014 mg	E2
4	0.005 g	0.004999	-0.000001	0.0014 mg	E2
5	0.01 g	0.010003	0.000003	0.0014 mg	E2
6	0.02 g	0.020005	0.000005	0.0017 mg	E2
7	* 0.02 g	0.020001	0.000001	0.0017 mg	E2
8	0.05 g	0.050010	0.000010	0.002 mg	E2
9	0.1 g	0.099999	-0.000001	0.002 mg	E2
10	0.2 g	0.200014	0.000014	0.002 mg	E2
11	* 0.2 g	0.200008	0.000008	0.002 mg	E2
12	0.5 g	0.500010	0.000010	0.002 mg	E2
13	1 g	1.000003	0.000003	0.004 mg	E2
14	2 g	1.999981	-0.000019	0.0041 mg	E2
15	* 2 g	1.999989	-0.000011	0.0041 mg	E2
16	5 g	4.999964	-0.000036	0.006 mg	E2
17	10 g	9.999981	-0.000019	0.007 mg	E2
18	20 g	19.999973	-0.000027	0.009 mg	E2
19	* 20 g	19.999996	-0.000004	0.009 mg	E2
20	50 g	49.99992	-0.00008	0.02 mg	E2
21	100 g	100.00007	0.00007	0.02 mg	E2
22	200 g	199.99976	-0.00024	0.06 mg	E2
23	* 200 g	199.99980	-0.00020	0.06 mg	E2

Traceable To National / International Standards.

Calibrated By

*Kevin Vagharia*  
Kevin Vagharia

Reviewed and Approved By

*Jigar Panchal*  
Jigar Panchal

NCQC DEFINES CALIBRATION AS "PRECISION AND RELIABILITY OF INSTRUMENTS FOR YOUR BETTER TOMORROW"



Since 1998

# 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](mailto:ncqc@calibrationlaboratory.in), • [calibrationlab.ncqc@gmail.com](mailto:calibrationlab.ncqc@gmail.com)

Visit our Web Site : [www.calibrationlaboratory.in](http://www.calibrationlaboratory.in)



CC-2128

**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

Name of Customer → <b>National Centre For Quality Calibration</b> 4, Abhishree Corporate Park, Near Swagat Bungalows BRTS, Iskcon – Ambli Road, Ambli, Ahmedabad – 380 058, Gujarat.		Certificate No.	NCQC-M/210222/01
		Date of Issue	21-02-2022
		Date of Calibration	21-02-2022
		Suggested Due Date	20-02-2023
Date Of Receipt / Ref. No. → 19-02-2022		F/CR/M/063/01, Issue No.02 Page 2 of 2	
Details of Observation of Unit Under Calibration	Identification No.	:	<b>NCQC/M – 48</b>
	Serial No.	:	<b>=====</b>
	Name of Instrument	:	<b>Weight Box</b>
<b>Remarks:</b>			
<ul style="list-style-type: none"> <li>↳ Average of three cycles readings are reported.</li> <li>↳ 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.</li> <li>↳ Weights are calibrated for scientific or industrial purpose only.</li> <li>↳ These results are obtained at the time of calibration.</li> <li>↳ Suggested due date is given based on customer requirements.</li> <li>↳ Any hand written corrections (except @ marked) or photocopies of the report invalidates this certificate.</li> <li>↳ Environment condition during calibration: 23 ± 0.5 °C, 40 to 60% Rh. (Change in temperature and relative humidity during the calibration were less than ± 0.7 °C per hour and ± 10% Rh per 4 hours respectively)</li> <li>↳ The uncertainties are for a confidence probability of not less than 95% with coverage factor k = 2.</li> <li>↳ Condition of instrument found satisfactory during receipt.</li> <li>↳ Calibration is performed on the electronic weighing balance against standards mass by comparison method under controlled conditions (ABBA Method).</li> <li>↳ Location of performance of calibration → At Lab.</li> <li>↳ Reference standard no.: OIML R 111 – 1.</li> <li>↳ Reference Calibration method no.: NCQC/CM/M/063.</li> <li>↳ Corrected mass value is calculated based on ABBA method.</li> </ul>			
<b>Details of master Instrument Used for Calibration</b>			
<b>Nomenclature</b>	<b>Make / Model</b>	<b>Sr. No. / Id. No.</b>	<b>Calibration Due Date</b>
Reference Weight box (E <sub>1</sub> class)	Weightronics / =====	NCQC/M – 47 / NCQC/M/W/E1/04	14-03-2024
Mass Comparator	Mettler / XPE 26C	B535359835 / NCQC/M – 120	=====
Weighing Balance	Sartorius / MSU225S-100-DU	33404509 / NCQC/M – 119	=====
NCQC System Certificate No.	Certificate No. & Traceability of Master with National Standards		
262	↳ Our master Weight Box is calibrated and traceable to National Standard through NABL accredited Laboratory MMD Kantawala, Certificate no. MMD/150321/01, Date – 15-03-2021.		

Traceable To National / International Standards.

Calibrated By

*Kevin Vaghasia*  
Kevin Vaghasia

Reviewed and Approved By

*Jigar Panchal*  
Jigar Panchal

**NCQC DEFINES CALIBRATION AS "PRECISION AND RELIABILITY OF INSTRUMENTS FOR YOUR BETTER TOMORROW"**