



NATIONAL CENTRE FOR QUALITY CALIBRATION

4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS, Iskcon-Ambli Road, Ambli, Ahmedabad-380 058

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Visit our Web Site : www.calibrationlaboratory.in



CC-2128

Since 1998

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

F/CR/M/O 63/01 Issue No.03

Name of Customer National Centre for Quality Calibration 4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS, Iskcon – Ambli Road, Ambli, Ahmedabad – 380 058, Gujarat	Certificate No. NCQC-M/190224/001	Date of Issue 22/02/2024	Date of Calibration 19/02/2024	Suggested Due Date 18/02/2025
Date of Receipt / Ref.No.: 17/02/2024				

ULR No. : CC212824000000839F	Discipline : Mechanical Calibration Mass and Volume
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Details of Observation of Unit Under Calibration	Identification No. : NCQC/M – 48
	Serial No. : =====
	Name of Instrument : Weight Box

Range	0.001 to 200 g	Visual Inspection Accuracy	OK E2 Class
Make / Model Location	Weigh India/==== =====		

Loc. of Calibration Environment Cond.	At Laboratory 25 ± 1 °C, 40 to 60% Rh, 1000 ± 15 hPa	Std. Ref. Used	OIML R 111 – 1
Actual Env. Cond.	25.2 °C 51.0 %Rh 1000.7 hPa	Cali.Method No.	NCQC/CM/M/063

Master Instruments Detail

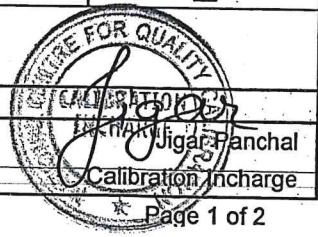
NCQC SYS.NO.	Nomenclature	Make/ Model	Id / Serial No.	Traceable To	Certificate No.	Valid Upto
262	Reference Weight box (E1 class)	Weightronics / =====	NCQC/M – 47 / NCQC/M/W/E1/04	CC-2346	MMD/15032/01	14/03/2024

Weights (Denomination)	Type	Material	Assume density
1,2,2,5,10,20,20,50,100,200,200,500 mg	Wire	Stainless steel	7950 ± 140 kg/m ³
1,2,2,5,10,20,20,50,100,200,200 g	Cylindrical Inob	Stainless steel	7950 ± 140 kg/m ³

Results of calibration

Serial No.	Denomination (UUC) In g.	Mass Value in g.	Deviation in g.	Expanded Uncertainty in mg. (k =2)	Status
1	0.001	0.001000	0.000000	0.0018	E2
2	0.002	0.001998	-0.000002	0.0014	E2
3	* 0.002	0.001997	-0.000003	0.0015	E2
4	0.005	0.004999	-0.000001	0.0018	E2
5	0.01	0.010001	0.000001	0.0016	E2
6	0.02	0.020003	0.000003	0.0017	E2
7	* 0.02	0.020002	0.000002	0.0028	E2
8	0.05	0.050007	0.000007	0.0020	E2
9	0.1	0.099999	-0.000001	0.0021	E2
10	0.2	0.200010	0.000010	0.0029	E2
11	* 0.2	0.200008	0.000008	0.0032	E2
12	0.5	0.500007	0.000007	0.0030	E2

Calibrated By	 Himanshu Parbadiya Calibration Engineer	Traceable To National / International Standards.	Reviewed & Approved By	 Jigar Panchal Calibration Incharge
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Details of Observation of Unit Under Calibration	Identification No. : NCQC/M – 48
	Serial No. : =====
	Name of Instrument : Weight Box

Results of calibration

Sr. No.	Denomination (UUC) in g.	Mass Value in g.	Deviation in g.	Expanded Uncertainty in mg. (k=2)	Status
13	1	1.000003	0.000003	0.0040	E2
14	2	1.999981	-0.000019	0.0042	E2
15	* 2	1.999987	-0.000013	0.0043	E2
16	5	4.999962	-0.000038	0.0060	E2
17	10	9.999976	-0.000024	0.0070	E2
18	20	19.999969	-0.000031	0.0096	E2
19	* 20	19.999994	-0.000006	0.0096	E2
20	50	49.99993	-0.00007	0.0200	E2
21	100	100.00005	0.00005	0.0252	E2
22	200	199.99976	-0.00024	0.0600	E2
23	* 200	199.99983	-0.00017	0.0600	E2

Remarks:

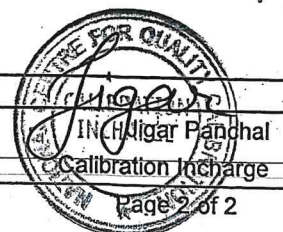
- Mass values of all the weights are conventional mass values and within the maximum errors permissible in "E2" Accuracy Class of weights as per OIML R 111-1.
- Average of three cycles readings are reported.
- Weights are calibrated for scientific or industrial purpose only.
- These results are obtained at the time of calibration.
- Suggested due date is given based on customer requirements.
- Result relates to the item calibrated only.
- No external provider was used for calibration and hence it is not applicable.
- Calibration certificate shall not be reproduced except in full without written approval of Director, NCQC.
- Change in temperature and relative humidity during the calibration were less than ± 0.7 °C per hour and $\pm 10\%$ Rh per 4 hours respectively.
- Calibration is performed on the mass comparator against standards mass by comparison method under controlled conditions (ABBA Method).
- Corrected mass value is calculated based on ABBA method.
- Condition of instrument found satisfactory during receipt.
- Any hand written corrections (except @) or photocopies of the report invalidates this certificate.
- The uncertainties are for a confidence probability of not less than 95% with coverage factor k = 2.
- Our masters are directly calibrated through NABL accredited calibration laboratory having direct traceability with National / international standard.

Traceable To National / International Standards.

Calibrated By

Himanshu Parbadiya
 Calibration Engineer

Reviewed & Approved By



NCQC System Certificate No. 36

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