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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, • calibrationlab.ncqc@gmail.com



CC-2128

Visit our Web Site : www.calibrationlaboratory.in

Precision Calibration with National / International Traceability for Temperature, Dimensional, Pressure, Vacuum, Time, Mass, Electrical, Noise, Airflow, Lux & all Special Purpose Instruments in a wide ranges.

Calibration Certificate

F/CR/M/064/02 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/210223/001
	Date of Issue	22/02/2023
	Date of Calibration	21/02/2023
	Suggested Due Date	20/02/2024
	Date of Receipt / Ref.No.: 21/02/2023	

ULR No. : CC212823000000784F Discipline : Mechanical Calibration
Mass and Volume

Details of Observation of Unit Under Calibration
Identification No. : NCQC/M – 42
Serial No. : 4600149
Name of Instrument : Digital Weighing Balance

Range	0.01 to 225 g	Initial Error	Nil
Resolution	0.00001 g upto 102 g & Above 0.0001 g	Visual Inspection	Ok
Make / Model	Precisa/ES 225 SM – DR	Accuracy	Class I
Location	Mass Laboratory		

Loc. of Calibration	At Laboratory	Std. Ref. Used	OIML R 76
Environment Cond.	25 ± 1°C, 40 to 60 % Rh	Cali.Method No.	NCQC/CM/M/064

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/150321/01	14/03/2024

NCQC
Valid up to 20-02-2024
Reviewed *[Signature]*

Traceable To National / International Standards.

Calibrated By	<i>[Signature]</i> Himanshu Parbadiya Calibration Engineer	Reviewed & Approved By	<i>[Signature]</i> Jigar Panchal Calibration Incharge
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NCQC System Certificate No. 110

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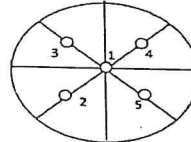
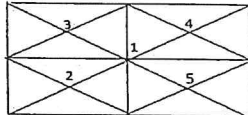
Details of Observation of Unit Under Calibration
 Identification No. : NCQC/M – 42
 Serial No. : 4600149
 Name of Instrument : Digital Weighing Balance

Linearity Test


Standard Weights Put up in g.	Readings Observed By UUC in g.	Absolute Error in g.	Expanded Uncertainty in mg. (k =2) ±
0.0099997	0.01000	0.000003	0.03000
0.0200019	0.02000	0.000019	0.03000
0.0500003	0.05000	0.000003	0.03000
0.1000029	0.10001	0.000071	0.03000
0.1999992	0.20000	0.000008	0.03000
0.5000023	0.50000	0.000023	0.03000
1.0000029	1.00000	0.000029	0.03000
1.9999926	1.99998	0.000126	0.03000
5.000003	5.00001	0.000007	0.03000
9.999996	9.99998	0.000016	0.03000
19.999991	20.00000	0.000009	0.03000
50.000019	50.00001	0.000009	0.03000
100.000026	100.00002	0.000006	0.03000
199.99995	200.0000	0.00005	0.1260

Eccentricity Test

Standard Weights Put up in g.	Centre	Front Left	Back Left	Back Right	Front Right	Centre	Average of Center – Max Deviation of Corner
100.000026	100.00002	100.00001	100.00003	100.00002	100.00002	100.00002	0.000010



Traceable To National / International Standards.

Calibrated By  Himanshu Parbadiya
 Calibration Engineer

Reviewed & Approved By  Jigar Panchal
 Calibration Incharge



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Details of Observation of Unit Under Calibration	Identification No. : NCQC/M – 42
	Serial No. : 4600149
	Name of Instrument : Digital Weighing Balance

Repeatability Test @ 100.000026 g @ Half Load

1	2	3	4	5	6	7	8	9	10	Repeatability
100.00001	100.00002	100.00003	100.00000	100.00003	100.00002	100.00003	100.00002	100.00003	100.00003	0.0000103

Repeatability Test @ 199.99995 g @ Full Load

1	2	3	4	5	6	7	8	9	10	Repeatability
199.9999	200.0001	200.0000	199.9999	200.0000	200.0001	200.0001	200.0001	200.0000	200.0001	0.000082

Remarks :

- All the errors are found within accuracy (i.e. Linearity – ± 0.5 mg Up to 50 g, ± 1 mg for above 50 g to 200 g and ± 1.5 mg. for above 200 g to 225 g.) of instrument specified as per OIML R 76 1.
- Instrument found 'Accepted' after calibration after applying decision rule [for up to 50 g (Max. Linearity is 0.016 mg. + Max. Uncertainty is 0.03 mg, Total (Error + Uncertainty) is 0.046 mg., which is within ± 0.5 mg), for above 50 g to 200 g (Max. Linearity is 0.05 mg. + Max. Uncertainty is 0.1260 mg, Total (Error + Uncertainty) is 0.1760 mg, which is within ± 1 mg)]
- Averages of Minimum five Readings are reported.
- Suggested date is given based on customer requirements.
- These results are obtained at the time of calibration.
- Any hand written corrections (except @ marked) 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.
- Weighing balance is calibrated for scientific or industrial purpose only.
- Our masters are directly calibrated through NABL accredited calibration lab having direct traceability with National / International standard.

Traceable To National / International Standards.

Calibrated By	 Himanshu Parbadiya Calibration Engineer	Reviewed & Approved By	 Jigar Panchal Calibration Incharge
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