

CALIBRATION CERTIFICATE

SUBJECT: CALIBRATION OF CENTRIFUGE	CERTIFICATE NO.: ML/MCH/0777/01/2022-23	
	Certificate Issue Date 04/03/2023	Page 1 of 1

1. **Scope**
- 1.1 **Service Request Details**
- 1.1.1 **Service Request No.**
- 1.1.2 **Service Request Finalized On**
- 1.1.3 **Unique Lab Report Number (ULR No.)**
- 1.1.4 **Discipline / Group**
- 1.1.5 **Name & Address of Organization**

Calibration
ML/0777/22-23
01/03/2023
CC266423000005350F
Mechanical / Acceleration and Speed
HEER LAB



116-120, National Plaza, Opp. Ayurvedic College, Above Kabir Restaurant, Station Road, Surat, Gujarat, India, 395003.

1.2 **Item Details**

1.2.1 **Condition of the Item**

Working

1.2.2

Nomenclature	Centrifuge		
Manufacturer	---	Model No.	---
ID No.	CF-01	Sr.No.	---
Range	0 to 5000 RPM	Type	Analog
Least Count	1 RPM	Accuracy	---
Department	BIOCHEMISTRY DEPARTMENT	Location	BIOCHEMISTRY DEPARTMENT

1.3 **Item Received On**

Dt. 02/03/2023 Onsite

1.4 **Details of Test Equipments Used**

Instrument Name	UID No.	Certificate No.	Make	Due Date
Digital Tachometer	ML/DTM/001	CC/ECL/1134/22-23	Beha	31/10/2023

1.4.1 **Operating Procedures Used:**

ML/SOP/M/A&S/001

1.5 **Date of Calibration:**

02-March-2023

1.6 **Recommended Due Date of Calibration:**

01-March-2024

1.7 **OBSERVATIONS:**

1.7.1 **Site Ambient:**

Temperature: 25.4 °C (25±10)

Humidity: 51 %RH (50±20)

1.7.2 **Parameter:**

Acceleration (RPM)

1.7.3

CALIBRATION RESULTS

Sr. No.	Calibration Point	Set Value on IUC (A)	Measured Value on Master (B)	Error (A - B)	(±) Expanded Uncertainty
1	250.00	250	250.5	-0.50	0.360 %
2	1000.00	1000	1001	-1.00	0.360 %
3	2500.00	2500	2503	-3.00	0.360 %
4	4000.00	4000	4004	-4.00	0.360 %
5	4500.00	4500	4504	-4.00	0.360 %

Note: The value mentioned above is the mean of 3 readings.

1.8 **General Remarks:**

- The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor k=2, which corresponds to a coverage probability of approximately 95.45% for a normal distribution.
- Uncertainty to be calculated at Max Error / Full Range of IUC
- Any anomalies/Discrepancies in the certificate should be brought to our notice within 30 days from the date of issue Certificate.
- IUC* (Instrument Under Calibration)
- The Measurements are metrologically traceable to applicable national /International Standards.
- Any hand written corrections (except @) or photocopies of the report invalidates this certificate.
- The results related to the item calibrated.

Calibrated By: Ashvin Patel, Calibration Engineer

Ranjit Rohit / Hitesh Patel
Technical Director / Quality Manager

AUTHORISED SIGNATORY

*** End of Certificate ***