



MEASURE TECHNO LAB

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CALIBRATION CERTIFICATE OF CENTRIFUGE

LIBRATION CERTIFICATE NO.: MTL / NRSMCH-ICTC(M) / R01 / 01 - 24

ULR - CC254524000004676F

CC - 2545

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1.0 Service Request No.: MTL / 22 / 01 / 23 - 24

1.1 Issued to: M/s. NRS MCH - ICTC,
Department of Microbiology,
Kolkata - 700014.

1.2 Description & Identification of item to be Calibrated:	a) Name:	Centrifuge	b) Code No.:	NRS - ICTC - M - CEN - 01
	c) Sl. No.:	CGLC - 3911	d) Make:	Remi
	e) Model / Type:	R - 8C	f) Range:	5250 rpm
	g) Sensor:	N.A.	h) Resolution:	10 rpm
	i) End User:	Microbiology (ICTC)	j) Accuracy:	N.S.
	k) Calibration done at:	√ On Site / In House		

1.3 Date of receipt of item : 22-01-24

1.4 Physical Condition of DUC : OK

1.5 Date of calibration : 22-01-24

1.6 Recommended date of next calibration : 22-01-25

1.7 Date of Issue : 24-01-24

1.8 Environmental Conditions During Calibration: Temperature: 25 °C ± 2 °C
Humidity: 55 % RH ± 10 % RH

1.9 Method of Calibration: SOP / RPM / CF / 01

2.0 Traceability :

- a) Standards used for calibration are traceable to National standards through NABL Accredited Laboratory.
- b) The following standards / Equipment have been used.

i) Digital Tachometer Cal. Certificate No. JRPM - CF - 2023 - A&S - CSRF - 815 - C - 0016 (JRPM, Chennai) (Cal. Date: 08/07/23, Due Date: 07/07/24)

2.1 Result :

Mechanical Calibration: (Acceleration and Speed)

Sl. No.	Parameter/ Range	Nominal Value on DUC rpm	Std. Value Average of Five Readings rpm	Error rpm	Measurement Expanded Uncertainty ± rpm
1.		1020	1018.8	1.2	5.99
2.	Rotation	2100	2098.2	1.8	
3.	5250 rpm	3300	3297.8	2.2	
4.		4320	4317.1	2.9	
5.		5230	5226.6	3.4	

- Remarks: i) This result has an expanded uncertainty with a coverage factor k=2 at approximately 95% confidence level.
 ii) The calibration certificate issued for this instrument is to be used for scientific or industrial purposes only.
 iii) Error = DUC Reading - Standard Reading.
 iv) Calibrations are carried out without any adjustment or repair.

DUC - Device Under Calibration

N.S. - Not Specified

N.A. - Not Applicable

Std. - Standard

rpm - Rotation Per Minute

Opinions and Interpretations

Calibrated	√	Accepted / Valid for use
Limited Use		Rejected / Out of use

Calibration Engineer
 Measure Techno Lab
 Kolkata
 D.K. Singh
 Calibration Engineer

Checked / Approved by

 Quality / Technical Manager

Form No. - MTL/22/2006

Issue No. : 2 Issue Date : 10.11.06

Rev. No. : 04 Rev. Date : 01.04.22