

MEASURE TECHNO LAB

2, B.T. ROAD (JAYANTI CINEMA COMPLEX), BARRACKPORE, KOLKATA - 700120, W.B.

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CALIBRATION CERTIFICATE OF CENTRIFUGE

CALIBRATION CERTIFICATE NO.:MTL / HE / R01 / 09 - 24

ULR - CC254524000044906F

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1.0 Service Request No.: MTL / 13A / 09 / 24 - 25

1.1 Issued to:

M/s. Halder Enterprise,

458 / 1A, Motilal Colony,

P.O. - Rajbari, P.S. - Airport, Pin - 700081.

1.2 Description &

a) Name:

Centrifuge

b) Code No.:

HE / CF - 01

Identification of item

c) Sl. No.:

202301253 - 12

d) Make:

Electra - BL

to be Calibrated:

e) Model / Type: 12T

f) Range: h) Resolution: 4000 rpm

g) Sensor:

N.A.

10 rpm

i) End User:

Laboratory

j) Accuracy:

N.S.

k) Calibration done at:

√ On Site / In House

OK

1.3 Date of receipt of item: 1.5 Date of calibration:

13-09-24

1.4 Physical Condition of DUC: 1.6 Recommended date of next calibration:

13-09-25

1.7 Date of Issue:

13-09-24

16-09-24

25 °C ± 2 °C

1.8 Environmental Conditions During Calibration: Temperature: **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. HT / CC / 240625 - 03 / 001

(HI TECH, Chennai)

(Cal. Date: 26/06/24, Due Date: 25/06/25)

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. 2. 3. 4.	Rotation 4000 rpm	1000 2000 3000 4000	1004.2 2002.3 3015.2 4024.6	-4.2 -2.3 -15.2 -24.6	5.99

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

Calibration Engineer Measalibrated his Lad Kolkata D.K.Singh **Calibration Engineer**

Technical Manager

Pandey

Rev. No.: 04 Rev. Date: 01.04.22

Form No. - MTL/22/2006

Issue No. : 2 Issue Date : 10.11.06