



# RELIABLE TECHNICAL SERVICES

(Division of Reliable Technocare Pvt. Ltd.)

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## CALIBRATION CERTIFICATE

|   |                  |                         |                      |
|---|------------------|-------------------------|----------------------|
| <b>1. CUSTOMER</b>                          |                  | Page No.                | - 1 of 1             |
| M/S. LTMCC & GH, Department of Microbiology |                  | NABL Accreditation No.  | - CC-2927            |
| Sion, Mumbai-400 022.                       |                  | Certificate No.         | - 21.09.15.013       |
| Temperature(°C)                             | - 22.5           | Date of Received        | - 15.09.2021         |
| Relative Humidity (%RH)                     | - 54             | Date of Calibration     | - 15.09.2021         |
| Location of calibration                     | - In lab/On Site | Next Calibration Due On | - 14.09.2022         |
| Condition of Item                           | - OK             | Calibration method No.  | - RTS-WI-06          |
|   |                  | Date of issue           | - 17.09.2021         |
|   |                  | ULR No.                 | - CC292721000043682F |

|                               |                            |             |                    |
|-------------------------------|----------------------------|-------------|--------------------|
| <b>2. Description of Item</b> |                            |             |                    |
| Name                          | - Tachometer               | Range       | - 2.5 to 99999 RPM |
| Id No                         | - LTMGHMensHv/DRLUT ACH/01 | Least Count | - 0.1/1 RPM        |
| Make                          | - Mextech/DT-2234C         |             |                    |
| Type                          | - Digital                  |             |                    |

|   |                     |
|---|---------------------|
| <b>3. Details of Equipment used for calibration</b> |                     |
| Name  | - DIG. TACHOMETER   |
| Certificate No.                                     | - CC/ECL/0568/20-21 |
| Certified By  | - IDEM              |
| ID/Sr. No.  | - RTS-RPM-03        |
| Range   | - 1 to 99999 RPM    |
| Uncertainty   | - ± 5 RPM           |
| Calibration Validity                                | - 26/09/2021        |

Discipline - Mechanical Calibration      Group - Acceleration, Speed & Acoustics-Speed

|                               |                  |             |          |                         |
|-------------------------------|------------------|-------------|----------|-------------------------|
| <b>4. Calibration Results</b> |                  |             |          |                         |
| Calibration Points            | Standard Reading | UUC Reading | Error in | Expanded Uncertainty in |
| RPM                           | RPM              | RPM         | RPM      | RPM                     |
| 1500                          | 1501             | 1502        | 1        | 5.3                     |
| 2000                          | 2001             | 2004        | 3        | 5.3                     |
| 2500                          | 2502             | 2506        | 4        | 5.3                     |
| 3000                          | 3003             | 3008        | 5        | 5.3                     |

- Note:**
- 1) 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% for normal distribution.
  - 2) This certificate refers only to the particular item submitted for calibration. UUC stands for Unit Under Calibration.
  - 3) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
  - 4) Calibration point were selected as per customer specifications.
  - 5) This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstract has been obtained from the Technical Manager of "Reliable Technical Services, Pune".
  - 6) The Standard used are traceable to National / International Standard.
  - 7) Conformity with requirements :-

Calibrated By  
*Dmorey*  
Calibration Engineer  
Dushant Morey



Approved By  
*SJ*  
Technical Manager  
SACHIN A. MHASAWADE

RF-21\_R0



**State Reference Laboratory  
I. C. T. C.  
Department of Microbiology  
L. T. M. Medical College and General Hospital Mumbai-22**

Certificate of calibration

**Name of the ICTC: Savitribai Phule Maternity Home**

Name of the Equipment: Centrifuge

Date of calibration: 12.10.2021

Serial. No. / Model No.: AOLO-565 Remi

Next Calibration due on: 11.10.2022

Identification No.: MDACS/SPMH/ICTC/Cen/02

Acceptable range: 2000 rpm to 3000 rpm

Point of Calibration: 2500 rpm & 3000 rpm

Tolerance (If Applicable):  $\pm 5\%$

Location of Calibration: At Site

Condition of Receipt Item: Good

Method of calibration: In- house calibration done using Calibrated Tachometer 2021-22

Traceability Certificate no: IDEMI/CC/ECL/0568/2020-21

Calibration Result:

| Calibration Points (rpm) | UUC Reading (rpm) |           |           | Standard Reading (rpm) | Mean |
|--------------------------|-------------------|-----------|-----------|------------------------|------|
|                          | Reading 1         | Reading 2 | Reading 3 |                        |      |
| 2500                     | 2510              | 2480      | 2510      | 2500                   | 2500 |
| 3000                     | 2960              | 3010      | 3030      | 3000                   | 3000 |

Acceptable Variation  $\pm 5\%$  of the Mean Value

UUC: Unit Under Calibration

Remarks: Instrument has  passed /  failed the Acceptance Criteria

Checked & Approved by:



**Ms. Anita A. Bharadwaj**  
Technical Officer, MDACS  
SRL-LTMMC & GH. ICTC,  
Sion, Mumbai - 400 022.