

|  |                   |  |
|--|-------------------|--|
| Certificate No.                                | MACL/22/II/121-01 | <b>Calibration Certificate of</b><br><br><b>CENTRIFUGE MACHINE</b> |
| Issue Date                                     | 17-06-2022        |  |
| Service Request No.                            | MACL/22/II/121    |  |
| Service Request Date                           | 13-06-2022        |  |
| Calibration Date                               | 15-06-2022        |  |
| Calibration Due Date (As per Customer request) | 14-06-2023        |  |

| Name & Address of Customer   | Identification on UUC (Unit Under Calibration) |                 |
|--|--|-----------------|
| ESIC MEDICAL COLLEGE AND HOSPITAL, FARIDABAD<br>NH-3,NIT, FARIDABAD,HARYANA,INDIA-121001 | Range/ Size                                    | 0-4500 rpm      |
|  | Make / Model NO.                               | REMI/ R-8M PLUS |
|  | Instrument I.D. No.                            | ZFBN-06439      |
|  | Instrument Sr. No.                             | ---             |
|  | Least Count                                    | 10 rpm          |
|  | Location/Dept.                                 | Lab             |
|  | Visual Inspection                              | O.K.            |

|                         |                    |                          |                                 |
|-------------------------|--------------------|--------------------------|---------------------------------|
| Calibration Procedure   | MACL/H/CP-01 to 25 | Condition of Instrument  | O.K.                            |
| Reference Standard      | -----              | Calibration performed at | Site                            |
| Environmental Condition | Temperature        | 30 ± 5 °C                | Relative Humidity 30 to 80 % RH |

| Standard Equipment Used for Calibration |            |                |                                 |                  |            |
|---|------------|----------------|---------------------------------|------------------|------------|
| Instrument Name                         | Make       | I.D No./Sr.No. | Calibrated By                   | Certificate No.  | Due Date   |
| Digital Tachometer                      | Kusum-Meco | MACL/TM-01     | ACE CALIBRATION AND TESTING LAB | ACTL/A/023/22-01 | 21-01-2023 |

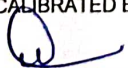
## Calibration Results

| Parameter             | Set Value (UUC) rpm | Standard Value (Ref.) in rpm | Error rpm | Uncertainty of Measurement |
|-----------------------|---------------------|------------------------------|-----------|----------------------------|
| RPM<br>Range 4000 rpm | 2000                | 1991                         | -9        | 1.0%                       |
|                       | 2500                | 2493                         | -7        |                            |
|                       | 3500                | 3489                         | -11       |                            |
|                       | 4500                | 4465                         | -35       |                            |

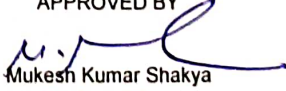
|               |   |
|---------------|---|
| <b>Note:-</b> | The reported uncertainty stated is the expanded uncertainty of measurement obtained by multiplying the standard uncertainty by the coverage factor k=2 correspond to confidence level of 95 % |
|---------------|---|

|                |   |
|----------------|---|
| <b>Note :-</b> | <ol style="list-style-type: none"> <li>This Certificate refers only to the particular items submitted for calibration.</li> <li>This Certificate shall not be reproduced,except in full,without the written permission of C.E.O. Micro Advance Calibration Lab Ghaziabad.</li> <li>Result Reported are Valid at the of and under the stated conditions of measurement.</li> <li>Laboratory Standards are traceable to National Standards.</li> <li>Calibration Certificate issue for weight &amp; Measure parameters i.e. Mass, Balance,Volumetric equipment, Measuring Scale/Tapes etc for scientific purpose only and should not be used for Trade / Commerical use.</li> </ol> |
|----------------|---|

CALIBRATED BY

  
Uma Shanker Sharma  
Calibration Engineer

APPROVED BY

  
Mukesh Kumar Shakya  
Authorized Signatory



|  |                   |  |
|--|-------------------|--|
| Certificate No.                                | MACL/22/11/121-02 | <b>Calibration Certificate of<br/>CENTRIFUGE MACHINE</b> |
| Issue Date                                     | 17-06-2022        |  |
| Service Request No.                            | MACL/22/11/121    |  |
| Service Request Date                           | 13-06-2022        |  |
| Calibration Date                               | 15-06-2022        |  |
| Calibration Due Date (As per Customer request) | 14-06-2023        |  |

| Name & Address of Customer   | Identification on UUC (Unit Under Calibration) |                 |
|--|--|-----------------|
| ESIC MEDICAL COLLEGE AND HOSPITAL, FARIDABAD<br>NH-3,NIT, FARIDABAD,HARYANA,INDIA-121001 | Range/ Size                                    | 0-4500 rpm      |
|  | Make / Model NO.                               | REMI/ R-8M PLUS |
|  | Instrument I.D. No.                            | ZFBN-06438      |
|  | Instrument Sr. No.                             | —               |
|  | Least Count                                    | 10 rpm          |
|  | Location/Dept.                                 | Lab             |
|  | Visual Inspection                              | O.K.            |

|                         |                    |                          |                                 |
|-------------------------|--------------------|--------------------------|---------------------------------|
| Calibration Procedure   | MACL/H/CP-01 to 25 | Condition of Instrument  | O.K.                            |
| Reference Standard      | —                  | Calibration performed at | Site                            |
| Environmental Condition | Temperature        | 30 ± 5 °C                | Relative Humidity 30 to 80 % RH |

| Standard Equipment Used for Calibration |            |                |                                 |                  |            |
|---|------------|----------------|---------------------------------|------------------|------------|
| Instrument Name                         | Make       | I.D No./Sr.No. | Calibrated By                   | Certificate No.  | Due Date   |
| Digital Tachometer                      | Kusum-Meco | MACL/TM-01     | ACE CALIBRATION AND TESTING LAB | ACTL/A/023/22-01 | 21-01-2023 |

### Calibration Results

| Parameter             | Set Value (UUC) rpm | Standard Value (Ref.) in rpm) | Error rpm | Uncertainty of Measurement |
|-----------------------|---------------------|-------------------------------|-----------|----------------------------|
| RPM<br>Range 4000 rpm | 2000                | 1992                          | -8        | 1.0%                       |
|                       | 2500                | 2496                          | -4        |                            |
|                       | 3500                | 3487                          | -13       |                            |
|                       | 4500                | 4463                          | -37       |                            |
|                       |                     |                               |           |                            |

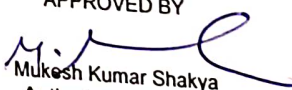
Note:- The reported uncertainty stated is the expanded uncertainty of measurement obtained by multiplying the standard uncertainty by the coverage factor k=2 correspond to confidence level of 95 %

- Note :-
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  2. This Certificate shall not be reproduced,except in full,without the written permission of C.E.O. Micro Advance Calibration Lab Ghaziabad.
  3. Result Reported are Valid at the of and under the stated conditions of measurement.
  4. Laboratory Standards are traceable to National Standards.
  5. Calibration Certificate issue for weight & Measure parameters i.e. Mass, Balance,Volumetric equipment, Measuring Scale/Tapes etc.for scientific purpose only and should not be used for Trade / Commerical use.

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Uma Shanker Sharma  
Calibration Engineer

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Mukesh Kumar Shakya  
Authorized Signatory



## Calibration Certificate

|  |                  |   |
|--|------------------|---|
| Certificate No.                                | MACL/22/H/121-03 | <b>Calibration Certificate of</b><br><br><b>MICRO PIPETTE</b> |
| Issue Date                                     | 17-06-2022       |   |
| Service Request No.                            | MACL/22/H/121    |   |
| Service Request Date                           | 13-06-2022       |   |
| Calibration Date                               | 15-06-2022       |   |
| Calibration Due Date (As per Customer request) | 14-06-2023       |   |

| Name & Address of Customer   | Identification on UUC (Unit Under Calibration) |               |
|--|--|---------------|
| ESIC MEDICAL COLLEGE AND HOSPITAL, FARIDABAD<br>NH-3,NIT, FARIDABAD,HARYANA,INDIA-121001 | Range/ Size                                    | 100 - 1000 µl |
|  | Make / Model No.                               | GEM           |
|  | Inst. I.D. No./Asset Code.                     | -             |
|  | Instrument Sr. No.                             | 223025277     |
|  | Least Count                                    | 1 µl          |
|  | Location                                       | Lab           |
|  | Visual Inspection                              | O.K.          |

|                         |                    |                          |                                |
|-------------------------|--------------------|--------------------------|--------------------------------|
| Calibration Procedure   | MACL/H/CP-01 to 25 | Condition of Instrument  | O.K.                           |
| Reference Standard      | ---                | Calibration performed at | LAB                            |
| Environmental Condition | Temperature        | 25 ± 2°C                 | Relative Humidity 50 ± 20 % RH |

| Standard Equipment Used for Calibration |         |                |   |                     |            |
|---|---------|----------------|---|---------------------|------------|
| Instrument Name                         | Make    | I.D No./Sr.No. | Calibrated By                               | Certificate No.     | Due Date   |
| Weight Box                              | --      | MACL/M/WTS-01  | ACE CALIBRATION AND TESTING LAB             | ACTL/A/024/22-01    | 21-01-2023 |
| Weighing Balance                        | Amco    | MACL/M/WM-02   | Pinpoint Precision Calibration Lab Pvt. Ltd | PPCL/A/2022/007-002 | 21-01-2023 |
| Weighing Balance                        | Citizen | MACL/M/WM-01   | ACE CALIBRATION AND TESTING LAB             | ACTL/A/025/22-01    | 21-01-2023 |

### Calibration Results

| Reading (UUC) in µl | Reading (Reference) in µl | Observed Error in µl |
|---------------------|---------------------------|----------------------|
| 100                 | 99.7                      | 0.3                  |
| 500                 | 499.5                     | 0.5                  |
| 1000                | 998.9                     | 1.1                  |

|                                 |   |
|---------------------------------|---|
| Uncertainty of Measurement ± 1% | The reported uncertainty stated is the expanded uncertainty of measurement obtained by multiplying the standard uncertainty by the coverage factor k=2 correspond to confidence level of 95 % |
|---------------------------------|---|

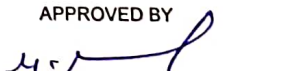
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### Calibration Certificate

|  |                   |  |
|--|-------------------|--|
| Certificate No.                                | MACL/22/11/121-04 | <h2>Calibration Certificate of</h2> <h3>MICRO PIPETTE</h3> |
| Issue Date                                     | 17-06-2022        |  |
| Service Request No.                            | MACL/22/11/121    |  |
| Service Request Date                           | 13-06-2022        |  |
| Calibration Date                               | 15-06-2022        |  |
| Calibration Due Date (As per Customer request) | 14-06-2023        |  |

| Name & Address of Customer   | Identification on UUC (Unit Under Calibration) |               |
|--|--|---------------|
| ESIC MEDICAL COLLEGE AND HOSPITAL, FARIDABAD<br>NH-3,NIT, FARIDABAD,HARYANA,INDIA-121001 | Range/ Size                                    | 100 - 1000 µl |
|  | Make / Model No.                               | GEM           |
|  | Inst. I.D. No./Asset Code.                     | --            |
|  | Instrument Sr. No.                             | 41801834      |
|  | Least Count                                    | 1 µl          |
|  | Location                                       | Lab           |
|  | Visual Inspection                              | O.K.          |

|                         |                    |                          |                   |
|-------------------------|--------------------|--------------------------|-------------------|
| Calibration Procedure   | MACL/H/CP-01 to 25 | Condition of Instrument  | O.K.              |
| Reference Standard      | -----              | Calibration performed at | LAB               |
| Environmental Condition | Temperature        | 25 ± 2°C                 | Relative Humidity |
|                         |                    |                          | 50 ± 20 % RH      |

| Standard Equipment Used for Calibration |         |                |   |                      |            |
|---|---------|----------------|---|----------------------|------------|
| Instrument Name                         | Make    | I.D No./Sr.No. | Calibrated By                               | Certificate No.      | Due Date   |
| Weight Box                              | --      | MACL/M/WTS-01  | ACE CALIBRATION AND TESTING LAB             | ACTL/A/024/22-01     | 21-01-2023 |
| Weighing Balance                        | Amco    | MACL/M/WM-02   | Pinpoint Precision Calibration Lab Pvt. Ltd | PPCLA/A/2022/007-002 | 21-01-2023 |
| Weiging Balance                         | Citizen | MACL/M/WM-01   | ACE CALIBRATION AND TESTING LAB             | ACTL/A/025/22-01     | 21-01-2023 |


### Calibration Results

| Reading (UUC) in µl | Reading (Reference ) in µl | Observed Error In µl |
|---------------------|----------------------------|----------------------|
| 100                 | 99.8                       | 0.2                  |
| 500                 | 499.6                      | 0.4                  |
| 1000                | 998.7                      | 1.3                  |

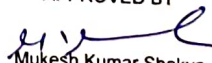
|                                  |   |
|----------------------------------|---|
| Uncertainty of Measurement ± 1%. | The reported uncertainty stated is the expanded uncertainty of measurement obtained by multiplying the standard uncertainty by the coverage factor k=2 correspond to confidence level of 95 % |
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| Note :- | <ol style="list-style-type: none"> <li>1. This Certificate refers only to the particular items submitted for calibration.</li> <li>2. This Certificate shall not be reproduced, except in full, without the written permission of C.E.O. Micro Advance Calibration Lab Ghaziabad</li> <li>3. Result Reported are Valid at the of end under the stated conditions of measurement.</li> <li>4. Laboratory Standards are traceable to National Standards.</li> <li>5. Calibration Certificate issue for weight &amp; Measure parameters i.e. Mass, Balance, Volumetric equipment, Measuring Scale/Tapes etc. for scientific purpose only and should not be used for Trade / Commercial use.</li> </ol> |
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