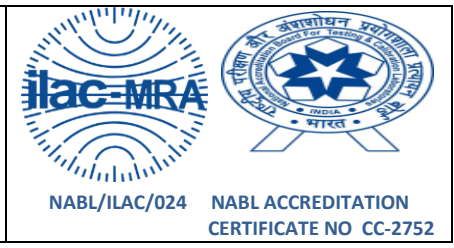




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**ROOTS METROLOGY & TESTING LABORATORY**  
 R.K.G Industrial Estate, Ganapathy, Coimbatore-641 006,India  
 Phone :9688762679



**CALIBRATION CERTIFICATE**

ULR Number: CC275219000083790F

|  |   |
|--|---|
| <b>Name and address of the customer</b><br>The Medical Officer<br>Government Primary Health Centre<br>Haridwaramangalam–Thiruvarur(dist) | <b>Certificate no</b> : Rmtl/01/319107850/26  |
|  | <b>Date of calibration</b> :27/09/2023        |
|  | <b>Suggested calibration due</b> : 26/09/2024 |
|  | <b>Customer po .reference.&amp; date:</b>     |

**1.DESRIPTION OF DUC**

|   |  |
|---|--|
| Name Of The Duc: pipette<br>Make : thermo fisher scientific<br>Model : finnpipette f3<br>Sl.No : PW01871<br>Range/Size : 10-50 micro litter | Receiving Condition Of Duc :Good<br>Ref. Document :As Per Manufactures Specification<br>Environmental Condition :25.3 Deg & 54.3% Rh<br>Uncertainty Of Measurement :As Per Report<br>Location :lab |
|---|--|

**THE MASTERS ARE TRACEABLE TO NATIONAL/INTERNATIONAL STANDARDS AS PER ISO/IEC 17025.**

**2.DETAILES OF MASTER USED**

| Standard Instrument Used   | Make/ Model           | Id No   | Traceable To/Certificate No | Validity |
|--|-----------------------|---------|-----------------------------|----------|
| Multi Product Calibrator   | Fluke                 | Rml-262 | Wavecal,Blr/Cs-18/01-01     | 1-6-2024 |
| Micro balance  | mettler toledo/XP26PC | QP-01   | B115129039/CC-2523          | 1-6-2024 |
| Universal Measuring Instrument With Sensor For Environmental Parameter | ALMEMO/2590-4AS       | QP-10   | H19070544/CC-2052           | 1-6-2024 |

**CALIBRATION FIELD: WEIGHT Calibration**

| Sl.no | Range              | Master readings micro litter | Calibrated values micro litter | Error observed micro litter | Uncertainty |
|-------|--------------------|------------------------------|--------------------------------|-----------------------------|-------------|
| 1     | 10-50 micro litter | 10                           | 9.9                            | 0.1                         | 0.055       |
| 2     | 10-50 micro litter | 50                           | 49.9                           | 0.1                         | 0.055       |

**4.remarks**

- 4.1 uncertainty estimated for a confidence level of 95% at the k factor=2
- 4.2the reported results are valid only for the condition of the inst./gauge received at the time of and under the condition of the calibration
- 4.3 DUC –device under calibration
- Calibration label /status : Calibration result pass & fail are indicated

|                          |                      |                     |   |
|--------------------------|----------------------|---------------------|---|
| <br>CALIBRATION ENGINEER | <br>CALIBRATION SEAL | <br>AUTHORIZED SIGN | This Report Refers Only To The Sample Submitted And May Not Be Reproduces In Full Or In Part, Without Written Permission From Roots Metrology & Testing Laboratory, Coimbatore, |
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 Phone :9688762679



NABL/ILAC/024

NABL ACCREDITATION  
 CERTIFICATE NO CC-2752

### CALIBRATION CERTIFICATE

ULR Number: CC275219000083790F

|  |   |
|--|---|
| <b>Name and address of the customer</b><br>The Medical Officer<br>Government Primery Health Centre<br>Haridwaramangalam–Thiruvarur(dist) | <b>Certificate no</b> : Rmtl/01/319107850/27  |
|  | <b>Date of calibration</b> :27/09/2023        |
|  | <b>Suggested calibration due</b> : 26/09/2024 |
|  | <b>Customer po .reference.&amp; date:</b>     |

#### 1.DESRIPTION OF DUC

|  |  |
|--|--|
| Name Of The Duc: pipette<br>Make : thermo fisher scientific<br>Model : finnpipette f3<br>Sl.No : HWO3858<br>Range/Size : 10-100 micro litter | Receiving Condition Of Duc :Good<br>Ref. Document :As Per Manufactures Specification<br>Environmental Condition :25.3 Deg & 54.3% Rh<br>Uncertainty Of Measurement :As Per Report<br>Location :lab |
|--|--|

**THE MASTERS ARE TRACEABLE TO NATIONAL/INTERNATIONAL STANDARDS AS PER ISO/IEC 17025.**

#### 2.DETAILES OF MASTER USED

| Standard Instrument Used   | Make/ Model           | Id No   | Traceable To/Certificate No | Validity |
|--|-----------------------|---------|-----------------------------|----------|
| Multi Product Calibrator   | Fluke                 | Rml-262 | Wavecal,Blr/Cs-18/01-01     | 1-6-2024 |
| Micro balance  | mettler toledo/XP26PC | QP-01   | B115129039/CC-2523          | 1-6-2024 |
| Universal Measuring Instrument With Sensor For Envirmental Parameter | ALMEMO/2590-4AS       | QP-10   | H19070544/CC-2052           | 1-6-2024 |

#### CALIBRATION FIELD: WEIGHT Calibration

| Sl.no | Range               | Master readings micro litter | Calibrated values micro litter | Error observed micro litter | Uncertainty |
|-------|---------------------|------------------------------|--------------------------------|-----------------------------|-------------|
| 1     | 10-100 micro litter | 10                           | 9.9                            | 0.1                         | 0.055       |
| 2     | 10-100 micro litter | 50                           | 49.9                           | 0.1                         | 0.055       |
| 3     | 10-100 micro litter | 80                           | 79.9                           | 0.1                         | 0.055       |
| 4     | 10-100 micro litter | 90                           | 89.9                           | 0.1                         | 0.055       |
| 5     | 10-100 micro litter | 100                          | 99.9                           | 0.1                         | 0.055       |

#### 4.remarks

4.1 uncertainty estimated for a confidence level of 95% at the k factor=2

4.2the reported results are valid only for the condition of the inst./gauge received at the time of and under the condition of the calibration

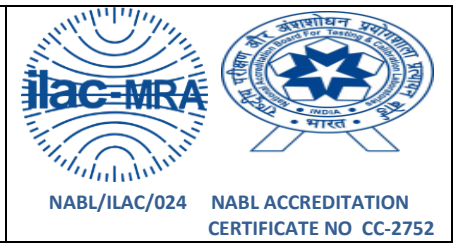
4.3 DUC –device under calibration

Calibration label /status : Calibration result pass & fail are indicated

|                          |                      |                     |   |
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 Phone :9688762679



**CALIBRATION CERTIFICATE**

ULR Number: CC275219000083790F

|  |   |
|--|---|
| <b>Name and address of the customer</b><br>The Medical Officer<br>Government Primery Health Centre<br>Haridwaramangalam–Thiruvarur(dist) | <b>Certificate no</b> : Rmtl/01/319107850/28  |
|  | <b>Date of calibration</b> :27/09/2023        |
|  | <b>Suggested calibration due</b> : 26/09/2024 |
|  | <b>Customer po .reference.&amp; date:</b>     |

**1.DESRIPTION OF DUC**

|  |  |
|--|--|
| Name Of The Duc: pipette<br>Make : thermo fisher scientific<br>Model : finnpipette f3<br>Sl.No : PWO1829<br>Range/Size : 100-1000 micro litter | Receiving Condition Of Duc :Good<br>Ref. Document :As Per Manufactures Specification<br>Environmental Condition :25.3 Deg & 54.3% Rh<br>Uncertainty Of Measurement :As Per Report<br>Location :lab |
|--|--|

**THE MASTERS ARE TRACEABLE TO NATIONAL/INTERNATIONAL STANDARDS AS PER ISO/IEC 17025.**

**2.DETAILES OF MASTER USED**

| Standard Instrument Used   | Make/ Model           | Id No   | Traceable To/Certificate No | Validity |
|--|-----------------------|---------|-----------------------------|----------|
| Multi Product Calibrator   | Fluke                 | Rml-262 | Wavecal,Blr/Cs-18/01-01     | 1-6-2024 |
| Micro balance  | mettler toledo/XP26PC | QP-01   | B115129039/CC-2523          | 1-6-2024 |
| Universal Measuring Instrument With Sensor For Envirmental Parameter | ALMEMO/2590-4AS       | QP-10   | H19070544/CC-2052           | 1-6-2024 |

**CALIBRATION FIELD: WEIGHT Calibration**

| Sl.no | Range               | Master readings micro litter | Calibrated values micro litter | Error observed micro litter | Uncertainty |
|-------|---------------------|------------------------------|--------------------------------|-----------------------------|-------------|
| 1     | 10-100 micro litter | 100                          | 99.9                           | 0.1                         | 0.055       |
| 2     | 10-100 micro litter | 500                          | 499.9                          | 0.1                         | 0.055       |
| 3     | 10-100 micro litter | 800                          | 799.9                          | 0.1                         | 0.055       |
| 4     | 10-100 micro litter | 900                          | 899.9                          | 0.1                         | 0.055       |
| 5     | 10-100 micro litter | 1000                         | 999.9                          | 0.1                         | 0.055       |

**4.remarks**

- 4.1 uncertainty estimated for a confidence level of 95% at the k factor=2
  - 4.2the reported results are valid only for the condition of the inst./gauge received at the time of and under the condition of the calibration
  - 4.3 DUC –device under calibration
- Calibration label /status : Calibration result pass & fail are indicated

|                          |                      |                     |   |
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 Phone :9688762679



NABL/ILAC/024

NABL ACCREDITATION  
 CERTIFICATE NO CC-2752

### CALIBRATION CERTIFICATE

ULR Number: CC275219000083790F

|  |   |
|--|---|
| <b>Name and address of the customer</b><br>The Medical Officer<br>Government Primery Health Centre<br>Haridwaramangalam–Thiruvarur(dist) | <b>Certificate no</b> : Rmtl/01/319107850/29  |
|  | <b>Date of calibration</b> : 27/09/2023       |
|  | <b>Suggested calibration due</b> : 26/09/2024 |
|  | <b>Customer po .reference.&amp; date:</b>     |

#### 1.DESRIPTION OF DUC

|                                     |   |
|-------------------------------------|---|
| <b>Name Of The Duc</b> : CENTRIFUGE | <b>Receiving Condition Of Duc</b> : Good                |
| <b>Make</b> : basic model           | <b>Ref. Document</b> :As Per Manufactures Specification |
| <b>Model</b> : Na                   | <b>Environmental Condition</b> :25.3 Deg & 54.3% Rh     |
| <b>Sl.No</b> : JELC-11675           | <b>Uncertainty Of Measurement</b> :As Per Report        |
| <b>Range/Size</b> : 1-4000RPM/230v  | <b>Location</b> :lab                                    |

THE MASTERS ARE TRACEABLE TO NATIONAL/INTERNATIONAL STANDARDS AS PER ISO/IEC 17025.

#### 2.DETAILES OF MASTER USED

| Standard Instrument Used                      | Make/ Model | Id No     | Traceable To/Certificate No                   | Validity |
|---|-------------|-----------|---|----------|
| Decade Megohm                                 | Vaisashika  | Rml-230   | Vaiseshika,Ambala Cantt/Ved/Nabl/18-19(Et)/92 | 1-6-2024 |
| Digital Tachometer                            | Mextec      | Rml-251   | Gsg/19/206/Tm/01                              | 1-6-2024 |
| Multi Product Calibrator                      | Fluke       | Rml-262   | Wavecal,Blr/Cs-18/01-01                       | 1-6-2024 |
| Multi Product Calibrator (Ac/Dc Current Coil) | Transmille  | Rml-252-1 | Wavecal,Blr/Cs-18/69-01                       | 1-6-2024 |
| Leakage Current Tester                        | Htc/CI-2054 | Rml-254-1 | Rmtl/01/319107848                             | 1-6-2024 |

**CALIBRATION FIELD:** Electro Technical (Voltage Calibration -Ac)

| Sl.no | Range       | Master readings v | Calibrated values v | Error observed v | Uncertainty v |
|-------|-------------|-------------------|---------------------|------------------|---------------|
| 1     | 0 v to 400v | 230               | 231                 | 1                | 0.055         |

**CURRENT CALIBRATION**Ac Current @50Hz

| Sl.no | Range     | Master readings mA | Calibrated values mA | Error observed mA | Uncertainty mA |
|-------|-----------|--------------------|----------------------|-------------------|----------------|
| 1     | 40Ma-100A | 2                  | 2.002                | -0.002            | 0.045          |

**Resistance calibration**

| Sl.no | Range | Master readings ohms | Calibrated values ohms | Error observed ohms | Uncertainty Ohms |
|-------|-------|----------------------|------------------------|---------------------|------------------|
| 1     | 40    | 39                   | 39.01                  | 0.001               | 0.007            |

**CALIBRATION FIELD:** RPM Calibration

| Sl.no | Range           | Master readings RPM | Calibrated values RPM | Error observed RPM | Uncertainty RPM |
|-------|-----------------|---------------------|-----------------------|--------------------|-----------------|
| 1     | 1RPM to 4000RPM | 1600RPM             | 1599RPM               | 1RPM               | 0.055           |

#### 4.remarks

4.1 uncertainty estimated for a confidence level of 95% at the k factor=2

4.2the reported results are valid only for the condition of the inst./gauge received at the time of and under the condition of the calibration

4.3 DUC –device under calibration

Calibration label /status : Calibration result pass & fail are indicated

CALIBRATION ENGINEER



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 Phone :9688762679



NABL/ILAC/024

NABL ACCREDITATION  
 CERTIFICATE NO CC-2752

### CALIBRATION CERTIFICATE

ULR Number: CC275219000083790F

|  |   |
|--|---|
| <b>Name and address of the customer</b><br>The Medical Officer<br>Government Primary Health Centre<br>Haridwaramangalam–Thiruvarur(dist) | <b>Certificate no</b> : Rmtl/01/319107850/30  |
|  | <b>Date of calibration</b> : 27/09/2023       |
|  | <b>Suggested calibration due</b> : 26/09/2024 |
|  | <b>Customer po .reference.&amp; date:</b>     |

#### 1.DESCRPTION OF DUC

|                                    |   |
|------------------------------------|---|
| <b>Name Of The Duc:</b> MICROSCOPE | <b>Receiving Condition Of Duc</b> :Good                 |
| <b>Make:</b> BINOCULAR             | <b>Ref. Document</b> :As Per Manufactures Specification |
| <b>Model</b> : NA                  | <b>Environmental Condition</b> :25.3 Deg & 54.3% Rh     |
| <b>Sl.No</b> : XSZ-N107T           | <b>Uncertainty Of Measurement</b> :As Per Report        |
| <b>Range/Size</b> : 230v           | <b>Location</b> :lab                                    |

**THE MASTERS ARE TRACEABLE TO NATIONAL/INTERNATIONAL STANDARDS AS PER ISO/IEC 17025.**

#### 2.DETAILED OF MASTER USED

| Standard Instrument Used                      | Make/ Model | Id No     | Traceable To/Certificate No                   | Validity |
|---|-------------|-----------|---|----------|
| Decade Megohm                                 | Vaisashika  | Rml-230   | Vaiseshika,Ambala Cantt/Ved/Nabl/18-19(Et)/92 | 1-6-2024 |
| Multi Product Calibrator                      | Fluke       | Rml-262   | Wavecal,Blr/Cs-18/01-01                       | 1-6-2024 |
| Multi Product Calibrator (Ac/Dc Current Coil) | Transmille  | Rml-252-1 | Wavecal,Blr/Cs-18/69-01                       | 1-6-2024 |
| Leakage Current Tester                        | Htc/CI-2054 | Rml-254-1 | Rmtl/01/319107848                             | 1-6-2024 |

**CALIBRATION FIELD:** Electro Technical (Voltage Calibration -Ac)

| Sl.no | Range       | Master readings v | Calibrated values v | Error observed v | Uncertainty v |
|-------|-------------|-------------------|---------------------|------------------|---------------|
| 1     | 0 v to 400v | 230               | 231                 | 1                | 0.055         |

**CURRENT CALIBRATION**Ac Current @50Hz

| Sl.no | Range     | Master readings mA | Calibrated values mA | Error observed mA | Uncertainty mA |
|-------|-----------|--------------------|----------------------|-------------------|----------------|
| 1     | 40Ma-100A | 2                  | 2.002                | -0.002            | 0.045          |

**Resistance calibration**

| Sl.no | Range | Master readings ohms | Calibrated values ohms | Error observed ohms | Uncertainty Ohms |
|-------|-------|----------------------|------------------------|---------------------|------------------|
| 1     | 40    | 39                   | 39.01                  | 0.001               | 0.007            |

#### 4.remarks

4.1 uncertainty estimated for a confidence level of 95% at the k factor=2

4.2the reported results are valid only for the condition of the inst./gauge received at the time of and under the condition of the calibration

4.3 DUC –device under calibration

Calibration label /status : Calibration result pass & fail are indicated

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