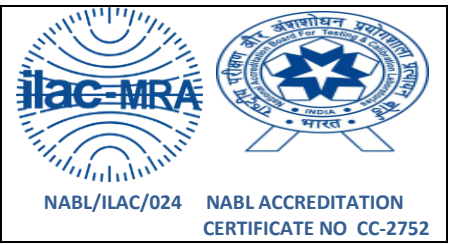




ROOTS INDUSTRIES INDIA LIMITED
ROOTS METROLOGY & TESTING LABORATORY
 R.K.G Industrial Estate, Ganapathy, Coimbatore-641 006,India
 Phone :9003432356



CALIBRATION CERTIFICATE

ULR Number: CC275219000083790F

| | |
|--|---|
| Name and address of the customer The Medical Officer Government Primary Health Centre Kollapuram –Thiruvarur(dist) | Certificate no : Rmtl/01/319107850/69 |
| | Date of calibration :27/09/2023 |
| | Suggested calibration due : 26/09/2024 |
| | Customer po .reference.& date: |

1.DESRIPTION OF DUC

| | |
|---|--|
| Name Of The Duc: pipette Make : thermo fisher scientific Model : finnpipette f3 Sl.No : Rw099984 Range/Size : 10-100 micro litter | Receiving Condition Of Duc :Good Ref. Document :As Per Manufactures Specification Environmental Condition :25.3 Deg & 54.3% Rh Uncertainty Of Measurement :As Per Report Location :lab |
|---|--|

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

2.DETAILS 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 | 10-100 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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NABL/ILAC/024



NABL ACCREDITATION
 CERTIFICATE NO CC-2752

CALIBRATION CERTIFICATE

ULR Number: CC275219000083790F

| | |
|--|---|
| Name and address of the customer The Medical Officer Government Primary Health Centre kollapuram –Thiruvarur(dist) | Certificate no : Rmtl/01/319107850/70 Date of calibration : 27/09/2023 Suggested calibration due : 26/09/2024 Customer po .reference.& date: |
|--|---|

1.DESRIPTION OF DUC

| | |
|---|---|
| Name Of The Duc: pipette Make : thermo fisher scientific Model : finnpipette f3 Sl.No : na Range/Size : 100-1000 micro litter | Receiving Condition Of Duc : Good Ref. Document : As Per Manufactures Specification Environmental Condition : 25.3 Deg & 54.3% Rh Uncertainty Of Measurement : As Per Report 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 | 100-1000 micro litter | 100 | 99.9 | 0.1 | 0.055 |
| 2 | 100-1000 micro litter | 500 | 499.9 | 0.1 | 0.055 |
| 3 | 100-1000 micro litter | 800 | 799.9 | 0.1 | 0.055 |
| 4 | 100-1000 micro litter | 900 | 899.9 | 0.1 | 0.055 |
| 5 | 100-1000 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 :9003432356



NABL/ILAC/024

NABL ACCREDITATION
 CERTIFICATE NO CC-2752

CALIBRATION CERTIFICATE

ULR Number: CC275219000083790F

| | |
|--|---|
| Name and address of the customer The Medical Officer Government Primary Health Centre Kollapuram –Thiruvapur(dist) | Certificate no : Rmtl/01/319107850/71 Date of calibration : 27/09/2023 Suggested calibration due : 26/09/2024 Customer po .reference.& date: |
|--|---|

1.DESRIPTION OF DUC

| | |
|--|--|
| Name Of The Duc: CENTRIFUGE Make : bd instrument Model : bdi 152 Sl.No : na Range/Size : 1-4000RPM/230v | Receiving Condition Of Duc : Good Ref. Document : As Per Manufactures Specification Environmental Condition : 25.3 Deg & 54.3% Rh Uncertainty Of Measurement : As Per Report Location : 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 |
| 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

4.2 the 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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