



**ROOTS INDUSTRIES INDIA LIMITED**  
**ROOTS METROLOGY & TESTING LABORATORY**  
 R.K.G Industrial Estate, Ganapathy, Coimbatore-641 006,India  
 Phone :9585840192/9003432356



**CALIBRATION CERTIFICATE**

ULR Number: CC275219000083790F

<b>Name and address of the customer</b> The Medical Officer Government Primery Health Centre Poovaimanagar – Pudukottai (dist)	<b>Certificate no</b> : Rmtl/01/319101315/017 <b>Date of calibration</b> :13/8/2023 <b>Suggested calibration due</b> : 12/8/2024 <b>Customer po .reference.&amp; date:</b>
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**1.DESCRPTION OF DUC**

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

- 4.1uncertainty 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 thecondition of the calibration
- 4.3DUC –device under calibration  
Calibration label /status : Calibration result pass & fail are indicated

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**CALIBRATION CERTIFICATE**

ULR Number: CC275219000083790F

<b>Name and address of the customer</b> The Medical Officer Government Primery Health Poovaimanagar-Pudukkottai(dist)	<b>Certificate no</b> :Rmtl/01/319101316/003 <b>Date of calibration</b> :13/8/2023 <b>Suggested calibration due</b> :12/8/2024 <b>Customer po.reference.&amp;date:</b>
<b>Name Of The Duc</b> : <b>CENTRIFUGE</b> <b>Make: LABOTECH</b> <b>Model: BDI-152</b> <b>Sl.No :NA</b> <b>Range/Size :1-4000RPM/230v</b>	<b>Receiving Condition Of Duc</b> :Good <b>Ref. Document:</b> As Per Manufactures Specification <b>Environmental Condition:</b> 25.3 Deg & 54.3% Rh <b>Uncertainty Of Measurement:</b> As Per Report <b>Location:</b> lab

**1.DESCRPTION OF DUC**

**THE MASTERS ARE TRACEABLE TO NATIONAL/INTERNATIONAL STANDARDS AS PER ISO/IEC17025.**

**2.DETAILS OF MASTER USED**

StandardInstrumentUsed	Make/Model	Id No	TraceableTo/CertificateNo	Validity
DecadeMegohm	Vaisashika	Rml-230	Vaiseshika,AmbalaCantt/Ved/Nabl/18-19(Et)/92	1-6-2024
Digital Tachometer	Mextec	Rml-251	Gsg/19/206/Tm/01	1-6-2024
MultiProduct Calibrator	Fluke	Rml-262	Wavecal,Blr/Cs-18/01-01	1-6-2024
MultiProduct Calibrator (Ac/DcCurrentCoil)	Transmille	Rml-252-1	Wavecal,Blr/Cs-18/69-01	1-6-2024
Leakage CurrentTester	Htc/CI-2054	Rml-254-1	Rmtl/01/319107848	1-6-2024

Sl.no	Range	Master reading sv	Calibrated value sv	Error observe dv	Uncertainty v
1	0vto400v	230	231	1	0.055

**CALIBRATION FIELD: Electr oTechnical (Voltage Calibration-Ac) 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

**Resistancecalibration**

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	UncertaintyRPM
1	1RPMto4000RPM	1600RPM	1599RPM	1RPM	0.055

**4.remarks**

- 4.1.uncertainty estimatedforaconfidence levelof95% atthek factor=2
- 4.2.the reported results are valid only for the condition of the inst./gauge received at the time of and under theconditionofthecalibration
- 4.3DUC–device undercalibration Calibrationlabel/status:Calibrationresultpass&failare indicated

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**CALIBRATION CERTIFICATE**

ULR Number: CC275219000083790F

<b>Name and address of the customer</b> The Medical Officer Government Primery Health Centre Silattur – Pudukottai (dist)	<b>Certificate no</b> : Rmtl/01/319101315/019 <b>Date of calibration</b> :26/8/2023 <b>Suggested calibration due</b> : 25/8/2024 <b>Customer po .reference.&amp; date:</b>
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**1.DESRIPTION OF DUC**

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

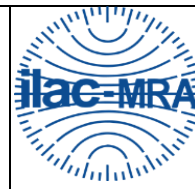
**4.remarks**

- 4.1uncertainty estimated for a confidence level of 95% at the k factor=2
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NABL ACCREDITATION  
 CERTIFICATE NO CC-2752

**CALIBRATION CERTIFICATE**

ULR Number: CC275219000083790F

<b>Name and address of the customer</b> The Medical Officer Government Primery Health Centre Aranthangi– Pudukottai (dist)	<b>Certificate no</b> : Rmtl/01/319101315/002 <b>Date of calibration</b> :12/8/2023 <b>Suggested calibration due</b> : 11/8/2024 <b>Customer po .reference.&amp; date:</b>
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**1.DESCRPTION OF DUC**

<b>Name Of The Duc:</b> MICROSCOPE <b>Make</b> : NA <b>Model</b> : LX 200 <b>Sl.No</b> : 181209473 <b>Range/Size</b> : 230v	<b>Receiving Condition Of Duc</b> :Good <b>Ref. Document</b> :As Per Manufactures Specification <b>Environmental Condition</b> :25.3 Deg & 54.3% Rh <b>Uncertainty Of Measurement</b> :As Per Report <b>Location</b> :lab
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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
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/Cl-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**

- 4.1uncertainty 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 thecondition of the calibration
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Calibration label /status : Calibration result pass & fail are indicated

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**CALIBRATION CERTIFICATE**

ULR Number: CC275219000083790F

<b>Name and address of the customer</b> The Medical Officer Government Primery Health Centre Nagudi– Pudukottai (dist)	<b>Certificate no</b> : Rmtl/01/319101315/012 <b>Date of calibration</b> :23/8/2023 <b>Suggested calibration due</b> : 22/8/2024 <b>Customer po .reference.&amp; date:</b>
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**1.DESCRPTION OF DUC**

<b>Name Of The Duc:</b> MICROSCOPE <b>Make</b> : LABOMED <b>Model</b> : LX200 <b>Sl.No</b> : 1583369 <b>Range/Size</b> : 230v	<b>Receiving Condition Of Duc</b> :Good <b>Ref. Document</b> :As Per Manufactures Specification <b>Environmental Condition</b> :25.3 Deg & 54.3% Rh <b>Uncertainty Of Measurement</b> :As Per Report <b>Location</b> :lab
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**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
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**

- 4.1uncertainty estimated for a confidence level of 95% at the k factor=2
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<b>Name and address of the customer</b> The Medical Officer Government Primery Health Centre Silattur–Pudukkottai(dist)	<b>Certificate no</b> :Rmtl/01/319101316/017 <b>Date of calibration</b> :26/8/2023 <b>Suggested calibration due</b> :25/8/2024 <b>Customer po.reference.&amp;date:</b>
<b>Name Of The Duc</b> : <b>CENTRIFUGE</b> <b>Make:</b> NA <b>Model:</b> NA <b>Sl.No</b> :NA <b>Range/Size</b> :1-4000RPM/230v	<b>Receiving Condition Of Duc</b> :Good <b>Ref. Document:</b> As Per Manufactures Specification <b>Environmental Condition:</b> 25.3 Deg & 54.3% Rh <b>Uncertainty Of Measurement:</b> As Per Report <b>Location:</b> lab

**1.DESCRPTION OF DUC**

THE MASTERS ARE TRACEABLE TO NATIONAL/INTERNATIONAL STANDARDS AS PER ISO/IEC17025.

**2.DETAILS OF MASTER USED**

StandardInstrumentUsed	Make/Model	Id No	TraceableTo/CertificateNo	Validity
DecadeMegohm	Vaisashika	Rml-230	Vaiseshika,AmbalaCantt/Ved/Nabl/18-19(Et)/92	1-6-2024
Digital Tachometer	Mextec	Rml-251	Gsg/19/206/Tm/01	1-6-2024
MultiProduct Calibrator	Fluke	Rml-262	Wavecal,Blr/Cs-18/01-01	1-6-2024
MultiProduct Calibrator (Ac/DcCurrentCoil)	Transmille	Rml-252-1	Wavecal,Blr/Cs-18/69-01	1-6-2024
Leakage CurrentTester	Htc/CI-2054	Rml-254-1	Rmtl/01/319107848	1-6-2024

Sl.no	Range	Master reading sv	Calibrated value sv	Error observe dv	Uncertainty v
1	0vto400v	230	231	1	0.055

**CALIBRATION FIELD: Electr oTechnical (Voltage Calibration-Ac) 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

**Resistancecalibration**

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	UncertaintyRPM
1	1RPMto4000RPM	1600RPM	1599RPM	1RPM	0.055

**4.remarks**

- 4.1.uncertainty estimatedforaconfidence levelof95% atthek factor=2
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<b>Name and address of the customer</b> The Medical Officer Government Primery Health Centre Aranthangi-Pudukkottai(dist)	<b>Certificate no</b> :Rmtl/01/319101316/002 <b>Date of calibration</b> :12/8/2023 <b>Suggested calibration due:</b> 1/8/2024 <b>Customerpo.reference.&amp;date:</b>
<b>Name Of The Duc</b> : <b>CENTRIFUGE</b> <b>Make:</b> LABOTECH <b>Model:</b> BDI-152 <b>Sl.No</b> :76519 <b>Range/Size</b> :1-4000RPM/230v	<b>Receiving Condition Of Duc</b> :Good <b>Ref. Document:</b> As Per Manufactures Specification <b>Environmental Condition:</b> 25.3 Deg & 54.3% Rh <b>Uncertainty Of Measurement:</b> As Per Report <b>Location:</b> lab

**1.DESCRPTION OF DUC**

**THE MASTERS ARE TRACEABLE TO NATIONAL/INTERNATIONAL STANDARDS AS PER ISO/IEC17025.**

**2.DETAILS OF MASTER USED**

StandardInstrumentUsed	Make/Model	Id No	TraceableTo/CertificateNo	Validity
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Digital Tachometer	Mextec	Rml-251	Gsg/19/206/Tm/01	1-6-2024
MultiProduct Calibrator	Fluke	Rml-262	Wavecal,Blr/Cs-18/01-01	1-6-2024
MultiProduct Calibrator (Ac/DcCurrentCoil)	Transmille	Rml-252-1	Wavecal,Blr/Cs-18/69-01	1-6-2024
Leakage CurrentTester	Htc/CI-2054	Rml-254-1	Rmtl/01/319107848	1-6-2024

Sl.no	Range	Master reading sv	Calibrated value sv	Error observe dv	Uncertainty v
1	0vto400v	230	231	1	0.055

**CALIBRATION FIELD: Electr oTechnical (Voltage Calibration-Ac) 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

**Resistancetalibration**

Sl.no	Range	Master readings Ohms	Calibrated values ohms	Error observed ohms	Uncertainty Ohms
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Sl.no	Range	Master readings RPM	Calibrated values RPM	Error observed RPM	UncertaintyRPM
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<b>Name and address of the customer</b> The Medical Officer Government Primery Health Centre Nagudi-Pudukkottai(dist)	<b>Certificate no</b> :Rmtl/01/319101316/013 <b>Date of calibration</b> :23/8/2023 <b>Suggested calibration due</b> :22/8/2024 <b>Customer po.reference.&amp;date:</b>
<b>Name Of The Duc</b> : <b>CENTRIFUGE</b> <b>Make:</b> NA <b>Model:</b> NA <b>Sl.No</b> : NA <b>Range/Size</b> :1-4000RPM/230v	<b>Receiving Condition Of Duc</b> :Good <b>Ref. Document:</b> As Per Manufactures Specification <b>Environmental Condition:</b> 25.3 Deg & 54.3% Rh <b>Uncertainty Of Measurement:</b> As Per Report <b>Location:</b> lab

**1.DESCRPTION OF DUC**

**THE MASTERS ARE TRACEABLE TO NATIONAL/INTERNATIONAL STANDARDS AS PER ISO/IEC17025.**

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Leakage CurrentTester	Htc/CI-2054	Rml-254-1	Rmtl/01/319107848	1-6-2024

Sl.no	Range	Master reading sv	Calibrated value sv	Error observe dv	Uncertainty v
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**CALIBRATION FIELD: Electr oTechnical (Voltage Calibration-Ac) CURRENT CALIBRATION Ac Current @ 50Hz**

Sl.no	Range	Master readings mA	Calibrated values mA	Error observed mA	Uncertainty mA
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**Resistancetalibration**

Sl.no	Range	Master readings Ohms	Calibrated values ohms	Error observed ohms	Uncertainty Ohms
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