



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



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 Rayapuram-Thiruvarur (dist)	Certificate no : Rmtl/01/319107850/4 Date of calibration : 27/09/2023 Suggested calibration due : 26/09/2024 Customer po .reference.& date:
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1.DESCRPTION OF DUC

Name Of The Duc: pipette Make : thermo fisher scientific Model : finnpipette f3 Sl.No : 285.a 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
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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	10-100 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

4.2 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

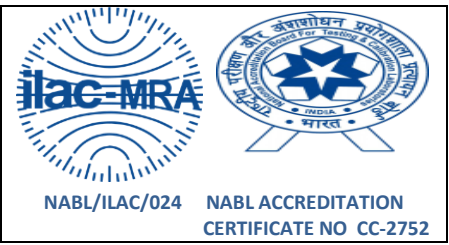
4.3 DUC –device under calibration

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

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	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 : rw13106 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
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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	10-100 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
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1.DESCRPTION 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
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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
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

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1.DESCRPTION OF DUC

Name Of The Duc: MICROSCOPE Make: BINOCULAR Model : NA Sl.No : 3836 Range/Size : 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
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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

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