

## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/10837

Page No: 1 of 3

Customer Name &amp; Address

 GOVERNMENT PRIMARY HEALTH CENTRE,  
 A.MUKKULAM-630611,VIRUDHUNAGAR DISTRICT.

SRF No.	SRF/23/00349-0013
SRF Date	02-09-2023
Date of Receipt	02-09-2023
Date of Calibration	02-09-2023
Due Date for Calibration	01-09-2024
Issue Date	04-09-2023

Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	THERMO SCIENTIFIC
Range	100-1000 $\mu$ l	Model	FINNPIPETTE F3
Resolution	1 $\mu$ l	Material	PVC
Serial Number	QW13936	Operating Range	100-1000 $\mu$ l
ID Number	NA	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LABORATORY

Environmental Condition

Calibration Method Used

Temperature (°C)	23.6	Humidity (%RH)	55	National / International Standard	ISO 8655-6:2002
Atmospheric Pressure (mbar)	1006	Water Temperature (°C)	21.6	Cal Procedure No	SBS/CP/ML/08

Standard Used

Sl. No.	Description	ID.No. / Sl. No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Weighing Balance	15112918	TVCSP122/12/2115-01	A&D & GH-252	National Standards	09-12-2023

Z Factor: 1.00319


 Result of Calibration in  $\mu$ l

Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (z)
1	100	99.98	99.97	99.96	99.98	99.97	99.97	-0.03	0.01	0.47
		99.94	99.95	99.96	99.97	99.98				
2	500	499.97	499.98	499.95	499.96	499.95	499.95	-0.05	0.02	0.47
		499.92	499.94	499.93	499.94	499.95				
3	1000	999.95	999.97	999.95	999.96	999.97	999.96	-0.04	0.01	0.47
		999.95	999.97	999.96	999.97	999.98				

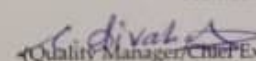
Remarks

- This Calibration certificate shall not be reproduced except in full, without written approval of the laboratory.
- The user should determine the suitability of the instrument for its intended use.
- The recalibration interval should be determined on the user requirement.
- The results stated in this certificate relate only to the item calibrated.
- Equipment used for Calibration were calibrated & traceable to National & International Standards
- The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a coverage factor k=2.00.
- Calibration Liquid Used: Distilled or Deionized water conforming Grade3 as specified in ISO 3696.

Calibrated By,

  
 (Calibration Engineer)  
 C.SIVABALAN


Authorised by:

  
 (Quality Manager, Chief Executive)  
 C.SIVABALAN

## CALIBRATION CERTIFICATE

CERTIFICATE NO: SBS/CL/23/10815	MEDICAL DEVICES	Page No:1 of 1
Issue Date	04-09-2023	
SRF No & Date	SRF/23/00349-0002 & 01-09-2023	
Receipt Date	01-09-2023	
Calibration Date	01-09-2023	
Calibration Due	31-08-2024	

**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE,  
A.MUKKULAM-630611,VIRUDHUNAGAR DISTRICT.

**Details of Device Under Calibration (DUC)**

Description : ELECTRICAL SAFETY (MICROSCOPE)	Make & Model : LAWRENCE&MAYO & XSZ-N107T
Range : MULTI	Sr. No : 009022
Resolution : MULTI	Identification No : NA
DUC Condition : SATISFACTORY	Location : LAB

**Environmental Conditions & Calibration Procedure Details**

Environmental Details	Temperature:25.6°C	Relative Humidity	52% RH
Calibration Procedure No	SBS/CP/MD/29	Calibration done at	ONSITE

**Reference Standards Details**

S.No	Description	Make/ SI No:	Certificate No	Validity
1	Electrical Safety Analyser	Rigel Medical & 44L-1059	M-230809-16-4	10-08-2024

**ELECTRICAL SAFETY**

**RESULTS**

S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)
1	Insulation Resistance >20MΩ	Measured values in MΩ 97	Uncertainty in % (±) 13.92
2	Earth Leakage <5000µAfor B,BF,CF	Measured values in µA 125	Uncertainty in % (±) 8.0
3	Enclosure Leakage <500µAfor B,BF,CF	Measured values in µA 225	Uncertainty in % (±) 7.2

**REMARKS**

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- 2 The user should determine the suitability of the instrument for its intended use.
- 3 The recalibration interval should be determined on the user requirement.
- 4 The results stated in this certificate relate only to the item calibrated.
- 5 The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a coverage factor k=2.00.
- 6 Equipment used for Calibration were calibrated & traceable to National & International Standards.

Calibrated By

Authorised Signatory

*K.Sathy*  
(Calibration Engineer)  
K.SATHYAMOORTHY



Technical Manager  
C.SHANMUGARAJ

Chief Executive

## CALIBRATION CERTIFICATE

CERTIFICATE NO:	SBS/CL/23/10816	MECHANICAL	Page No:1 of 1
Issue Date	04-09-2023		
SRF No & Date	SRF/23/00349-0003 & 01-09-2023		
Receipt Date	01-09-2023		
Calibration Date	01-09-2023		
Calibration Due	31-08-2024		

**Customer Name & Address**  
 GOVERNMENT PRIMARY HEALTH CENTRE,  
 A.MUKKULAM-630611,VIRUDHUNAGAR DISTRICT.

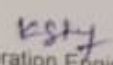
Details of Device Under Calibration (DUC)			
Description	CENTRIFUGE	Make & Model	REMI & NA
Range	0-3000 RPM	Sr. No	3487
Resolution	1 RPM	Identification No	NA
DUC Condition	Satisfactory	Location	LAB

Environmental Conditions & Standard Operating Procedure Details			
Environmental Details	Temperature: 24.3 °C	Relative Humidity	54 % Rh
Calibration Procedure No	SBS/CP/ML/04	Calibration done at	ONSITE

Reference Standards Details			
S.No	Description	Make/ SI No:	Certificate No
1	Digital Tachometer	LINE SEIKI / 175-0034V	JRPM-CCTR-A&S-2023-0013
			Validity
			09-06-2024

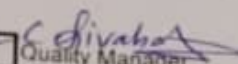
CALIBRATION RESULTS				
S.No	DEVICE UNDER CALIBRATION READINGS	STANDARD INSTRUMENTS	DEVIATION	EXPANDED UNCERTAINTY ( ± )
	RPM	RPM	RPM	%
1	1000	999.8	0.2	4.2
2	2000	1999.8	0.2	4.2
3	3000	2999.9	0.1	4.2

- REMARKS**
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  - The recalibration interval should be determined on the user requirement.
  - The results stated in this certificate relate only to the item calibrated.
  - The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a coverage factor k=2.00.
  - Equipment used for Calibration were calibrated & traceable to National & International Standards.

Calibrated By  
  
 (Calibration Engineer)  
 K.SATHYAMOORTHY



Authorised Signatory

 Quality Manager  
 (C.SIVABALAN)
  Chief Executive



## CALIBRATION CERTIFICATE

Page No:1 of 1

CERTIFICATE NO: SBS/CL/23/10817	MEDICAL DEVICES	
Issue Date	04-09-2023	
SRF No & Date	SRF/23/00349-0004 & 01-09-2023	
Receipt Date	01-09-2023	
Calibration Date	01-09-2023	
Calibration Due	31-08-2024	

**Customer Name & Address**  
 GOVERNMENT PRIMARY HEALTH CENTRE,  
 A, MUKKULAM-630611, VIRUDHUNAGAR DISTRICT.

### Details of Device Under Calibration (DUC)

Description : SEMI AUTO ANALYZER	Make & Model : ROBONIK & PRIETEST TOUCH	Range : MULTI	Sr. No : AT1091010RBK
Resolution : MULTI	Identification No : NA	DUC Condition : SATISFACTORY	Location : LAB

### Environmental Conditions & Calibration Procedure Details

Environmental Details	Temperature: 25.6 ° C	Relative Humidity	52% RH
Calibration Procedure No	SBS/CP/MD/20	Calibration done at	ONSITE

### Reference Standards Details

S.No	Description	Make/ SI No:	Certificate No	Validity
1	Electrical Safety Analyser	Rigel Medical & 44L-1059	M-230809-16-4	10-08-2024

### ELECTRICAL SAFETY

#### RESULTS

S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)
1	Insulation Resisitance >20MΩ	Measured values in MΩ 97	Uncertainty in % (±) 13.92
2	Earth Leakage <5000µAfor B,BF,CF	Measured values in µA 175	Uncertainty in % (±) 7.5
3	Enclosure Leakage <500µAfor B,BF,CF	Measured values in µA 235	Uncertainty in % (±) 7.2

#### REMARKS

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3. The recalibration interval should be determined on the user requirement.
4. The results stated in this certificate relate only to the item calibrated.
5. The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a coverage factor k=2.00.
6. Equipment used for Calibration were calibrated & traceable to National & International Standards.

Calibrated By

Authorised Signatory

*KST*  
 (Calibration Engineer)  
 K.SATHYAMOORTHY



*C.S*  
 Technical Manager  
 C. SHANMUGARAJ

Chief Executive

## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/10838

Page No: 1 of 1

Customer Name &amp; Address

 GOVERNMENT PRIMARY HEALTH CENTRE,  
 A.MUKKULAM-630611,VIRUDHUNAGAR DISTRICT.

SRF No.	SRF/23/00349-0014
SRF Date	02-09-2023
Date of Receipt	02-09-2023
Date of Calibration	02-09-2023
Due Date for Calibration	01-09-2024
Issue Date	04-09-2023

Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	THERMO SCIENTIFIC
Range	10-100µl	Model	FINNPIPETTE F3
Resolution	0.2µl	Material	PVC
Serial Number	QW11129	Operating Range	10-100µl
ID Number	NA	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LABORATORY

Environmental Condition				Calibration Method Used	
Temperature (°C)	23.6	Humidity (%RH)	55	National / International Standard	ISO 8655-6:2002
Atmospheric Pressure (mbar)	1006	Water Temperature (°C)	21.6	Cal Procedure No	SBS/CP/ML/08

Standard Used

Sl. No.	Description	ID.No. / Sl. No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Weighing Balance	15112918	TVCSPL22/12/2115-01	A&D & GH-252	National Standards	09-12-2023

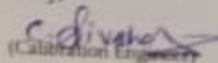
Z Factor: 1.00319

Result of Calibration in µl										
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10.0	9.96	9.95	9.98	9.96	9.97	9.97	-0.03	0.01	0.47
		9.98	9.96	9.97	9.98	9.95				
2	50.0	49.86	49.85	49.87	49.86	49.85	49.91	-0.09	0.05	0.47
		49.95	49.96	49.97	49.95	49.95				
3	100.0	99.98	99.97	99.98	99.96	99.98	99.96	-0.04	0.01	0.47
		99.95	99.96	99.94	99.95	99.96				

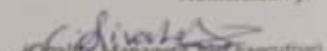
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- Calibration Liquid Used: Distilled or Deionized water conforming Grade3 as specified in ISO 3696.

Calibrated By:

  
 (Calibration Engineer)  
 C.SIVABALAN

Authorised by:

  
 (Quality Manager/Chief Executive)  
 C.SIVABALAN


# CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/10839

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,  
A.MUKKULAM-630611,VIRUDHUNAGAR DISTRICT.

SRF No.	SRF/23/00349-0015
SRF Date	02-09-2023
Date of Receipt	02-09-2023
Date of Calibration	02-09-2023
Due Date for Calibration	01-09-2024
Issue Date	04-09-2023

**Details of Unit Under Calibration**

Description	MICRO PIPETTE	Make	NA
Range	100-1000µl	Model	NA
Resolution	10µl	Material	PVC
Serial Number	121500721	Operating Range	100-1000µl
ID Number	NA	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LABORATORY

Environmental Condition				Calibration Method Used	
Temperature (°C)	23.6	Humidity (%RH)	55	National / International Standard	ISO 8655-6:2002
Atmospheric Pressure (mbar)	1006	Water Temperature (°C)	21.6	Cal Procedure No	SBS/CP/ML/08

**Standard Used**

Sl. No.	Description	ID.No. / Sl. No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Weighing Balance	15112918	TVCSPL22/12/2115-01	A&D & GH-252	National Standards	09-12-2023

Z Factor: 1.00319

**Result of Calibration in µl**

Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	100	99.95	99.89	99.87	99.86	99.85	99.87	-0.13	0.03	0.47
		99.86	99.87	99.86	99.87	99.85				
2	500	499.97	499.98	499.95	499.96	499.95	499.95	-0.05	0.02	0.47
		499.92	499.94	499.93	499.94	499.95				
3	1000	999.95	999.97	999.95	999.96	999.97	999.96	-0.04	0.01	0.47
		999.95	999.97	999.96	999.97	999.98				

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7. Calibration Liquid Used: Distilled or Deionized water conforming Grade3 as specified in ISO 3696.

Calibrated By,

*(Signature)*  
Calibration Engineer  
C.SIVABALAN



Authorised by:

*(Signature)*  
Quality Manager/Chief Executive  
C.SIVABALAN