



# CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/14207

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,  
MUNAIVENDRI, SIVAGANGAI DISTRICT.

SRF No.	SRF/23/00868-0003
SRF Date	11-10-2023
Date of Receipt	10-10-2023
Date of Calibration	11-10-2023
Due Date for Calibration	10-10-2024
Issue Date	12-10-2023

**Details of Unit Under Calibration**

Description	MICRO PIPETTE	Make	THERMO SCIENTIFIC
Range	10-100µl	Model	FINNPIPETTE F3
Resolution	0.2µl	Material	PVC
Serial Number	NA	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)	54	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	99.78	99.79	99.78	99.78	99.77	99.78	-0.22	0.01	0.47	
		99.79	99.78	99.76	99.78	99.78					

**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 to the requirements specified in ISO 3696.

Calibrated By,

(Calibration Engineer)  
MRAGUL



Authorised by:

(Quality Manager/Chief Executive)  
C.SIVABALAN

## CALIBRATION CERTIFICATE


CERTIFICATE NO: SBS/CL/23/18025		MECHANICAL		Page No:1 of 1
Issue Date	23-11-2023			
SRF No & Date	SRF/23/01057-0001 & 22-11-2023			
Receipt Date	22-11-2023			
Calibration Date	22-11-2023			
Calibration Due	21-11-2024			
Customer Name & Address				
GOVERNMENT PRIMARY HEALTH CENTRE, MUNAIVENDRI-623701, SIVAGANGAI DISTRICT				
Details of Device Under Calibration (DUC)				
Description	CENTRIFUGE	Make & Model	BD INSTRUMENTS & BDI-152	
Range	3500 RPM	Sr. No	20111736	
Resolution	1 RPM	Identification No	NA	
DUC Condition	Satisfactory	Location	LABORATORY	
Environmental Conditions & Standard Operating Procedure Details				
Environmental Details	Temperature 26.4°C	Relative Humidity	53% Rh	
Calibration Procedure No	SBS/CP/ML/04	Calibration done at	ONSITE	
Reference Standards Details				
S.No	Description	Make/ SI No:	Certificate No	Validity
1	Digital Tachometer	LINE SEIKI / 175-0034V	JRPM-CCTR-A&S-2023-0013	09-06-2024

### CALIBRATION RESULTS

S.No	DEVICE UNDER CALIBRATION	STANDARD INSTRUMENTS	DEVIATION	EXPANDED UNCERTAINTY
	RPM	RPM	RPM	%
1	1000	998.5	1.5	7.0
2	2000	1999.2	0.8	7.0
3	3500	3499.5	0.5	7.0

### 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)  
 M DINESH



Authorised Signatory  
 Quality Manager  Chief Executive  
 (C SIVABALAN)



# CALIBRATION CERTIFICATE

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Certificate No: SBS/CL/23/14206

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,  
MUNAIVENDRI, SIVAGANGAI DISTRICT.

SRF No.	SRF/23/00868-0002
SRF Date	11-10-2023
Date of Receipt	10-10-2023
Date of Calibration	11-10-2023
Due Date for Calibration	10-10-2024
Issue Date	12-10-2023

**Details of Unit Under Calibration**

Description	MICRO PIPETTE	Make	THERMO SCIENTIFIC
Range	100-1000µl	Model	FINNPIPETTE F3
Resolution	1µl	Material	PVC
Serial Number	NA	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. / SI. No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Weighing Balance	15112918	TVCSP22/12/2115-01	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	2	3	4	5				
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				

**Remarks**

1. This Calibration certificate shall not be reproduced except in full, without written approval of the laboratory.
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. Equipment used for Calibration were calibrated & traceable to National & International Standards
6. The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a coverage factor k=2.00.
7. Calibration Liquid Used: Distilled or Deionized water of minimum Grade 3 as specified in ISO 3696.

Calibrated By,

(Calibration Engineer)  
M.RAGUL



Authorised by:

(Quality Manager/Cert Executive)  
C.SIVABALAN