



## CALIBRATION CERTIFICATE

<b>CERTIFICATE NO: SBS/CL/23/14838</b>		<b>MEDICAL DEVICES</b>		<b>Page No:1 of 1</b>
Issue Date	16-10-2023			
SRF No & Date	SRF/23/00897-0001 & 16-10-2023			
Receipt Date	16-10-2023			
Calibration Date	16-10-2023			
Calibration Due	15-10-2024			
<b>Customer Name &amp; Address</b>				
GOVERNMENT PRIMARY HEALTH CENTRE, NAVALPATTU-620016 ,TIRUCHIRAPALLI DISTRICT				
<b>Details of Device Under Calibration (DUC)</b>				
Description	: SEMI AUTO ANALYZER	Make & Model	: ROBONIK & PRIETEST TOUCH	
Range	: MULTI	Sr. No	: ATCD1141220RBK	
Resolution	: MULTI	Identification No	: NA	
DUC Condition	: SATISFACTORY	Location	: LABORATORY	
<b>Environmental Conditions &amp; Calibration Procedure Details</b>				
Environmental Details	Temperature:25.6°C	Relative Humidity	52% RH	
Calibration Procedure No	SBS/CP/MD/20	Calibration done at	ONSITE	
<b>Reference Standards Details</b>				
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 Resitance >20MΩ	Measured values in MΩ 87	Uncertainty in % (±) 13.92
2	Earth Leakage <5000µAfor B,BF,CF	Measured values in µA 195	Uncertainty in % (±) 9.3
3	Enclosure Leakage <500µAfor B,BF,CF	Measured values in µA 241	Uncertainty in % (±) 8.4

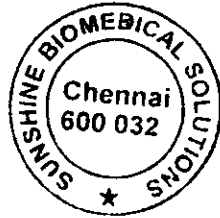
#### REMARKS

- 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.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

  
(Calibration Engineer)  
K. SATHYAMOORTHY



  
 Technical Manager  
(C.SHANMUGARAJ)

Chief Executive

## SUNSHINE BIOMEDICAL SOLUTIONS

No:68, First Floor, Poomagal Main Road, Ekkattuthangal, Chennai - 600 032, Tel: 044 - 2225 2087,  
E-Mail: calibration@sunshinebiomedical.com, Website: www.sunshinebiomedical.com.



## CALIBRATION CERTIFICATE

<b>CERTIFICATE NO:</b>	SBS/CL/23/14839	<b>MECHANICAL</b>	Page No:1 of 1
Issue Date	16-10-2023		
SRF No & Date	SRF/23/00897-0002 & 16-10-2023		
Receipt Date	16-10-2023		
Calibration Date	16-10-2023		
Calibration Due	15-10-2024		

**Customer Name & Address**  
 GOVERNMENT PRIMARY HEALTH CENTRE,  
 NAVALPATTU-620016 ,TIRUCHIRAPALLI DISTRICT

### Details of Device Under Calibration (DUC)

Description : CENTRIFUGE	Make & Model : MICROSIL & MK-10
Range : 3500 RPM	Sr. No : 78/735
Resolution : 1 RPM	Identification No : NA
DUC Condition : Satisfactory	Location : LABORATORY

### Environmental Conditions & Standard Operating Procedure Details

Environmental Details	Temperature: 25.5°C	Relative Humidity	52%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	998.9	1.1	4.2
2	1500	1499.5	0.5	4.2
3	3000	2999.5	0.5	4.2

### 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.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

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



Authorised Signatory

(Quality Manager)  
 (C.SIVABALAN)

(Chief Executive)

## SUNSHINE BIOMEDICAL SOLUTIONS

No:68, First Floor, Poomagal Main Road, Ekkattuthangal, Chennai - 600 032, Tel: 044 - 2225 2087,  
 E-Mail: calibration@sunshinebiomedical.com, Website: www.sunshinebiomedical.com.



## CALIBRATION CERTIFICATE

<b>CERTIFICATE NO:</b> SBS/CL/23/14840	<b>MEDICAL DEVICES</b>	Page No: 1 of 1
Issue Date	16-10-2023	
SRF No & Date	SRF/23/00897-0003 & 16-10-2023	
Receipt Date	16-10-2023	
Calibration Date	16-10-2023	
Calibration Due	15-10-2024	

**Customer Name & Address:**  
 GOVERNMENT URBAN PRIMARY HEALTH CENTRE,  
 NAVALPATTU-620016, TIRUCHIRAPALLI DISTRICT.

Details of Device Under Calibration (DUC)			
Description	MICROSCOPE	Make & Model	XSZ:N107B & NA
Range	MULTI	Sr. No	009162
Resolution	MULTI	Identification No	NA
DUC Condition	SATISFACTORY	Location	LABORATORY

Environmental Conditions & Calibration Procedure Details			
Environmental Details	Temperature: 25.4°C	Relative Humidity	52% RH
Calibration Procedure No	SBS/CP/MD/14	Calibration done at	ONSITE

Reference Standards Details			
S.No	Description	Make/ SI No:	Certificate No
1	Electrical Safety Analyser	Rigel Medical & 44L-1059	TSC/22-23/7400-3
			Validity 10-08-2023

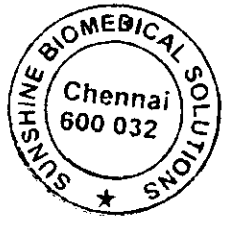
### ELECTRICAL SAFETY

RESULTS			
S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)
1	<b>Insulation Resistance</b>	<b>Measured values in MΩ</b>	<b>Uncertainty in % ( ± )</b>
	>20MΩ	85	13.92
2	<b>Earth Leakage</b>	<b>Measured values in μA</b>	<b>Uncertainty in % ( ± )</b>
	<5000μAfor B,BF,CF	121	7.7
3	<b>Patient Leakage</b>	<b>Measured values in μA</b>	<b>Uncertainty in % ( ± )</b>
	<100μAfor B,BF,<10μAfor CF	40	11.6
4	<b>Enclosure Leakage</b>	<b>Measured values in μA</b>	<b>Uncertainty in % ( ± )</b>
	<500μAfor B,BF,CF	191	7.0

**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.
- 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



Technical Manager  
 (C.SHANMUGARAJ)

Chief Executive



## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/14841

Page No: 1 of 1

**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE, NAVALPATTU-620016, TIRUCHIRAPALLI DISTRICT.	SRF No.	SRF/23/00897-0004
	SRF Date	14-10-2023
	Date of Receipt	13-10-2023
	Date of Calibration	14-10-2023
	Due Date for Calibration	13-10-2024
	Issue Date	16-10-2023

**Details of Unit Under Calibration**

Description	Micro Pipette	Make	THERMO SCIENTIFIC
Range	10-100µl	Model	FINNPIPEPTE 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)	23.9	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**

SI. No.	Description	ID.No. / SI. 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

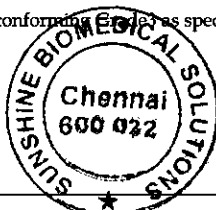
Z Factor: 1.00319

Result of Calibration in µl										
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10.0	9.47	9.46	9.48	9.47	9.46	9.45	-0.55	0.02	0.47
		9.42	9.43	9.43	9.44	9.45				
2	50.0	49.57	49.56	49.58	49.56	49.56	49.56	-0.44	0.01	0.47
		49.54	49.56	49.57	49.56	49.54				
3	100.0	98.92	98.94	98.93	98.94	98.93	98.91	-1.09	0.02	0.47
		98.91	98.92	98.89	98.88	98.88				

**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 conforming to USP as specified in ISO 3696.

Calibrated By,  
  
 (Calibration Engineer)  
 MADHIBAN



Authorised by:  
  
 Quality Manager/Chief Executive)  
 C.SIVABALAN

### SUNSHINE BIOMEDICAL SOLUTIONS

No:68, First Floor, Poomagal Main Road, Ekkattuthangal, Chennai - 600 032, Tel: 044 - 2225 2087,  
 E-Mail: calibration@sunshinebiomedical.com, Website: www.sunshinebiomedical.com.



## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/14842

Page: No:1 of 1

**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE, NAVALPATTU-620016, TIRUCHIRAPALLI DISTRICT.	SRF No.	SRF/23/00897-0005
	SRF Date	14-10-2023
	Date of Receipt	13-10-2023
	Date of Calibration	14-10-2023
	Due Date for Calibration	13-10-2024
	Issue Date	16-10-2023

**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)	23.9	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

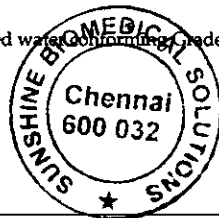
Result of Calibration in µl											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	100	100.51	100.52	100.53	100.52	100.51	100.50	0.50	0.02	0.47	
		100.49	100.48	100.49	100.49	100.48					
2	500	500.40	500.42	500.43	500.44	500.46	500.43	0.43	0.02	0.47	
		500.45	500.44	500.43	500.42	500.41					
3	1000	1001.24	1001.26	1001.23	1001.22	1001.22	1001.22	1.22	0.03	0.47	
		1001.18	1001.17	1001.20	1001.24	1001.26					

**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 conforming to grade3 as specified in ISO 3696.

Calibrated By,

*M. Adhiban*  
(Calibration Engineer)  
M.ADHIBAN



Authorised by:

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

## SUNSHINE BIOMEDICAL SOLUTIONS

No:68, First Floor, Poomagal Main Road, Ekkattuthangal, Chennai - 600 032, Tel: 044 - 2225 2087,  
E-Mail: calibration@sunshinebiomedical.com, Website: www.sunshinebiomedical.com.



## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/14843

Page No: 1 of 1

**Customer Name & Address**

GOVERNMENT PRIMARY HEALTH CENTRE, NAVALPATTU-620016, TIRUCHIRAPALLI DISTRICT.	SRF No.	SRF/23/00897-0006
	SRF Date	14-10-2023
	Date of Receipt	13-10-2023
	Date of Calibration	14-10-2023
	Due Date for Calibration	13-10-2024
	Issue Date	16-10-2023

**Details of Unit Under Calibration**

Description	Micro Pipette	Make	MICROLUX
Range	100-1000µl	Model	NA
Resolution	10µl	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)	23.9	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	TVCSPL22/12/2115-01	A&D & GH-252	National Standards	09-12-2023

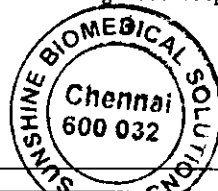
Z Factor: 1.00319

Result of Calibration in µl											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	100	99.92	99.94	99.91	99.90	99.92	99.92	-0.08	0.01	0.47	
		99.94	99.93	99.92	99.91	99.92					
2	500	499.04	498.99	499.05	499.02	499.04	499.01	-0.99	0.03	0.47	
		498.96	498.99	499.02	499.03	498.99					
3	1000	998.99	998.89	998.90	998.91	998.91	998.93	-1.07	0.03	0.47	
		998.96	998.95	998.92	998.94	998.93					

**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 conforming Grade3 as specified in ISO 3696.

Calibrated By,  
  
 (Calibration Engineer)  
 M.ADHIBAN



Authorised by:  
  
 (Quality Manager/Chief Executive)  
 C.SIVABALAN

### SUNSHINE BIOMEDICAL SOLUTIONS

No:68, First Floor, Poomagal Main Road, Ekkattuthangal, Chennai - 600 032, Tel: 044 - 2225 2087,  
 E-Mail: calibration@sunshinebiomedical.com, Website: www.sunshinebiomedical.com.



## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/14844

Page No: 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE, NAVALPATTU-620016, TIRUCHIRAPALLI DISTRICT.	SRF No.	SRF/23/00897-0007
	SRF Date	14-10-2023
	Date of Receipt	13-10-2023
	Date of Calibration	14-10-2023
	Due Date for Calibration	13-10-2024
	Issue Date	16-10-2023

Details of Unit Under Calibration

Description	Micro Pipette	Make	MICROLUX
Range	5-50µl	Model	NA
Resolution	1µl	Material	PVC
Serial Number	NA	Operating Range	5-50µl
ID Number	NA	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LABORATORY

Environmental Condition				Calibration Method Used	
Temperature (°C)	23.9	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	TVCSPL22/12/2115-01	A&D & GH-252	National Standards	09-12-2023

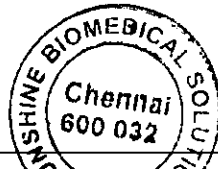
Z Factor: 1.00319

Result of Calibration in µl											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	10	9.87	9.86	9.87	9.87	9.88	9.87	-0.13	0.01	0.47	
		9.88	9.86	9.87	9.88	9.89					
2	30	29.76	29.77	29.78	29.79	29.76	29.78	-0.22	0.01	0.47	
		29.77	29.78	29.79	29.78	29.78					
3	50	49.88	49.87	49.88	49.87	49.88	49.87	-0.13	0.01	0.47	
		49.87	49.86	49.86	49.87	49.88					

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 conforming Grade3 as specified in ISO 3696.

Calibrated By,  
  
 (Calibration Engineer)  
 M.ADHIBAN



Authorised by:  
  
 (Quality Manager/Chief Executive)  
 C.SIVABALAN

### SUNSHINE BIOMEDICAL SOLUTIONS

No:68, First Floor, Poomagal Main Road, Ekkattuthangal, Chennai - 600 032, Tel: 044 - 2225 2087,  
 E-Mail: calibration@sunshinebiomedical.com, Website: www.sunshinebiomedical.com.



## CALIBRATION CERTIFICATE

<b>CERTIFICATE NO: SBS/CL/23/14845</b>		<b>MEDICAL DEVICES</b>		Page No:1 of 1
Issue Date	16-10-2023			
SRF No & Date	SRF/23/00897-0008 & 16-10-2023			
Receipt Date	16-10-2023			
Calibration Date	16-10-2023			
Calibration Due	15-10-2024			
<b>Customer Name &amp; Address</b>				
GOVERNMENT URBAN PRIMARY HEALTH CENTRE, NAVALPATTU-620016 ,TIRUCHIRAPALLI DISTRICT.				
<b>Details of Device Under Calibration (DUC)</b>				
Description	ELECTRICAL SAFETY ANALYZER(CELL COUNTER)	Make & Model	SYSMEX & B5505	
Range	MULTI	Sr. No	C1705	
Resolution	MULTI	Identification No	NA	
DUC Condition	SATISFACTORY	Location	LABORATORY	
<b>Environmental Conditions &amp; Calibration Procedure Details</b>				
Environmental Details	Temperature: 25.6°C	Relative Humidity	57% RH	
Calibration Procedure No	SBS/CP/MD/14	Calibration done at	ONSITE	
<b>Reference Standards Details</b>				
<b>S.No</b>	<b>Description</b>	<b>Make/ SI No:</b>	<b>Certificate No</b>	<b>Validity</b>
1	Electrical Safety Analyser	Rigel Medical & 44L-1059	TSC/22-23/7400-3	10-08-2023

### ELECTRICAL SAFETY

#### RESULTS

S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)
1	<b>Insulation Resistance</b>	<b>Measured values in MΩ</b>	<b>Uncertainty in % ( ± )</b>
	>20MΩ	85	13.92
2	<b>Earth Leakage</b>	<b>Measured values in μA</b>	<b>Uncertainty in % ( ± )</b>
	<5000μAfor B,BF,CF	126	7.7
3	<b>Patient Leakage</b>	<b>Measured values in μA</b>	<b>Uncertainty in % ( ± )</b>
	<100μAfor B,BF,<10μAfor CF	40	11.6
4	<b>Enclosure Leakage</b>	<b>Measured values in μA</b>	<b>Uncertainty in % ( ± )</b>
	<500μAfor B,BF,CF	226	6.8

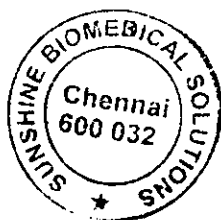
#### REMARKS

- 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.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

(Calibration Engineer)  
K.SATHYAMOORTHY



Technical Manager  
(C.SHANMUGARAJ)

Chief Executive

## SUNSHINE BIOMEDICAL SOLUTIONS

No:68, First Floor, Poomagal Main Road, Ekkattuthangal, Chennai - 600 032, Tel: 044 - 2225 2087,  
E-Mail: calibration@sunshinebiomedical.com, Website: www.sunshinebiomedical.com.