



ISSUED BY ELECTRO METER CORPORATION

 CC - 2147		ELECTRO METER CORPORATION P- 5, C.I.T ROAD, KOLKATA - 700014	Form No: FM/22 Issue No, 10 and Issue Date: 31-12-2022 CALIBRATION CERTIFICATE OF: CENTRIFUGE MACHINE
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CALIBRATION CERTIFICATE NO.: EMC2023-KOL-00037798	ULR NO.: CC214723000029520F	Page: 1/1
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1.0 ISSUED TO:	SAMAL CARE PVT. LTD, AT/PO- BANARPAL, DIST:- ANGUL, ODISHA - 759128
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1.1 Service Request / Order No.:	SCPL/2023-24/029
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Description Identification of Item to be calibrated:			
i	Name:	CENTRIFUGE MACHINE	Code No.:
ii	SL No.:	202001530-1B	Make:
iii	Model / Type No.:	Electra BL	Range:
iv	Sensor:	--	Resolution:
v	Location:	Pathology	Cal performed:
			on site / at lab

1.3 Applicable specification of item to be calibrated: Accuracy / permissible limit:	Not Specified
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1.4 Date of receipt of item:	8-Jul-2023	1.5 Date of calibration:	8-Jul-2023
1.6 Recommended date for next calibration:	8-Jul-2024	1.7 Report Issue Date:	21-Jul-2023

1.8(a) Environmental condition during calibration	Temperature:	26.0 °C
	Humidity:	58.3 % RH

1.8(b) Recommended Environmental condition	Temperature:	25°C ± 10°C
	Humidity:	50% RH ± 20% RH

1.9 Basis of calibration:	S.O.P Number	S.O.P/DIME/04 & S.O.P/ELIC/04
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2.0 Standard Equipment Used for Calibration are Traceable to National/International Standards through ISO/IEC: 17025:2017 Accredited Laboratory.

Sl. No.	Name of the standard Instrument used (Sl. No./Code Nos.)	Range	Resolution	Recommended date for next calibration	Certificate Nos.
1	Digital Tachometer, Make: Metravi, Model No. NCTM-1000, SL No. 11109329, Code No. EMC/DT/597	5 rpm to 99999 rpm	0.1 rpm upto 999.9 rpm & 1 rpm above 999.9 rpm	01-10-2023	EMC2022-KOL-00044552
2	Digital Stop Watch, Make: Racer, Code No. EMC/DSW/966	1200 s	0.01 s	02-06-2024	EMC2023-KOL-00002129

Discipline: Mechanical Group: Acceleration and Speed
CALIBRATION RESULT

Parameter / Range	Nominal Value on DUC (rpm)	Standard Value (rpm)	Error (rpm)	Expanded Uncertainty (±) (rpm)	k factor
Rotation cal upto 4008 rpm (As per standard value)	1000	1002	-2	7.45	2.00
	2000	2003	-3	7.54	2.00
	2500	2504	-4	8.13	2.00
	3000	3006	-6	8.61	2.00
	4000	4008	-8	9.31	2.00

Disciplines: Electro - Technical Group: Time & Frequency

Parameter/Range	Nominal Value on DUC		Std Value (s)	Error (s)	Expanded Uncertainty (±) (s)	k factor
	(min)	Equivalent Value (s)				
Time Cal upto 5 min	1	60.00	60.19	-0.19	0.568	2.00
	2	120.00	120.23	-0.23	0.568	2.00
	3	180.00	180.28	-0.28	0.568	2.00
	4	240.00	240.27	-0.27	0.568	2.00
	5	300.00	300.29	-0.29	0.568	2.00

Note: i) Average of 5 readings had been taken in DUC/STD.
ii) The calibration certificate is issued by Electro Meter Corporation refers only for the particular item submitted to calibrate.

iii) Entire certificate should be produced for all purposes. Partial production of an extract of the certificate needs approval from the technical or the quality manager of the lab.
iv) The results in the calibration certificate are valid at the time and the stated conditions on measurement.


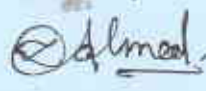


v) The calibration result is only to be used for scientific & industrial purpose and not for commercial purpose.
Measurement uncertainty at approx 95 % of confidence level & at a coverage factor: As Per Calibration Result

Remarks: NA	DUC- Device Under Calibration	F.S.-Full Scale
		Physical status of the DUC: OK

Calibrated By:  Zeeshan Ahmed Calibration Engineer		Approved By:  Saptarshi Das Technical Manager
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END OF CERTIFICATE

ISSUED BY ELECTRO METER CORPORATION

	ELECTRO METER CORPORATION PLOT NO - 1294 (P), 2ND FLOOR, CRP SQUARE, P.O / PS - NAYAPALLI, BHUBANESWAR - 751012	Form No.: FM/47A Issue No: 2 and Issue Date: 31.12.2022 CALIBRATION CERTIFICATE OF: BIO CHEMISTRY ANALYZER							
CALIBRATION CERTIFICATE NO: EMC2023-ODI-00006565		Page: 1/1							
1.0 ISSUED TO:	SAMAL CARE PVT. LTD. AT/PO- BANARPAL, DIST- ANGUL, ODISHA - 759128								
1.1 Service Request / Order No.:	SCPL/2023-24/029								
Description Identification of item to be calibrated:									
1.2	i Name: BIO CHEMISTRY ANALYZER iii Sl. No.: S200255 v Model / Type No.: -- vii Sensor: -- ix Location: LAB	ii Code No.: SCPL/PATH/BCA-01 iv Make: Erbe Mannheim vi Range: As per calibration result viii Resolution: As per calibration result x Cal performed: On Site / At Lab							
1.3	Applicable specification of item to be calibrated: Accuracy / permissible limit: Not Specified								
1.4	Date of receipt of item: 8-Jul-2023	1.5 Date of calibration: 8-Jul-2023							
1.6	Recommended date for next calibration: 8-Jul-2024	1.7 Report issue date: 21-Jul-2023							
1.8a)	Environmental condition during calibration	Temperature: 24.2 °C Humidity: 55.1 % RH							
1.8b)	Recommended Environmental condition	Temperature: 25°C ± 10°C Humidity: 50% RH ± 20% RH							
1.9	Basis of calibration: S.O.P Number	SOP/BIOM/07							
2.0 Standard Equipment Used for Calibration are Traceable to National/International Standards through ISO/IEC: 17025:2017 Accredited Laboratory.									
Sl. No.	Name of the standard Instrument used (Sl. No./Code Nos.)	Range	Resolution	Recommended date for next calibration	Certificate Nos.				
1	Electrical Safety Analyzer, Make: Fluke, Model No: 615, Sl. No: 4492016, Code No. EMC(OR) /ESA/060	As Per Calibration Result	As Per Calibration Result	23-09-2023	EMC2022-KOL-00044219				
CALIBRATION RESULT									
Parameter / Range	DUC value	DUC unit	STD value	STD unit	Error	Unit	Uncertainty at 95% CL & k factor =		
Supply voltage	-	-	232.3	V	-	-	2.00	is ± 2.50 %	
Earth resistance	-	-	0.14	ohm	-	-	2.00	is ± 3.20 %	
Equipment AC current	-	-	1.5	A	-	-	2.00	is ± 7.00 %	
Insulation resistance	-	-	Overload	-	-	-	2.00	is ± 9.00 %	
Leakage current - equipment	-	-	2.7	uA	-	-	2.00	is ± 2.80 %	
Note									
i) The calibration certificate is issued by Electro Meter Corporation refers only for the particular item submitted to calibrate.									
ii) Entire certificate should be produced for all purposes. Partial production of an extract of the certificate needs approval from the technical or the quality manager of the lab.									
iii) The results in the calibration certificate are valid at the time of and the stated conditions of measurement.									
iv) The calibration result is only to be used for scientific & industrial purpose and not for commercial purpose.									
v) Safety calibration has been performed.									
Remarks:	NA								
DUC: Device Under Calibration	F.S.: Full Scale			Physical status of the DUC: OK					
Calibrated By:  Zeeshan Ahmed Calibration Engineer						Approved By:  Subhojit Ghosh Calibration Engineer			
END OF CERTIFICATE									



ELECTRO METER CORPORATION
P- 5, C.I.T ROAD,
KOLKATA - 700014

Form No: FM/22
Issue No. 10 and Issue Date: 31-12-2022

**CALIBRATION CERTIFICATE OF:
MICRO PIPETTE**

CALIBRATION CERTIFICATE NO.: EMC2023-KOL-00037807		ULR NO.: CC214723000029527F		Page: 1/1			
1.0 ISSUED TO:		SAMAL CARE PVT. LTD. AT/PO- BANARPAL, DIST.- ANGUL, ODISHA - 759128					
1.1 Service Request / Order No.: --							
1.2 Description identification of item to be calibrated:							
i	Name:	MICRO PIPETTE	ii	Code No.:	--		
iii	Sl. No.:	YE186AL0015527	iv	Make:	Dragon Lab		
v	Model / Type No.:	--	vi	Range:	10µl to 100µl		
vii	Sensor:	--	viii	Resolution:	1 µl		
ix	Location:	Pathology	x	Cal. performed:	On Site/At Lab		
1.3 Applicable specification of item to be calibrated: Accuracy / permissible limit: Not Specified							
1.4 Date of receipt of item:		8-Jul-2023	1.5 Date of calibration:		8-Jul-2023		
1.6 Recommended date for next calibration		8-Jul-2024	1.7 Report Issue Date:		21-Jul-2023		
1.8a Environmental condition during calibration		Temperature:	21.6 °C				
		Humidity:	55.9 % RH				
		Atmospheric pressure:	1005.6 mbar				
		Water Temperature:	20.4 °C				
1.8b Recommended environmental condition		Temperature:	20°C ± 2°C				
		Humidity:	50% RH ± 10% RH				
1.9 Basis of calibration:		S.O.P Number	S.O.P/MASS/08				
2.0 Standard Equipment Used for Calibration are Traceable to National/International Standards through ISO/IEC: 17025:2017 Accredited Laboratory.							
Sl. No.	Name of the standard Instrument used (Sl. No./Code Nos.)	Range	Resolution	Recommended date for next calibration	Certificate Nos.		
1	Weight Box, Make: Mettler Toledo, Grade: E1, Sl. No: B309075500, Code No. EMC/WB-E1/629	1 mg to 200 g		20-04-2025	WMCL/E/2022-04/1794		
2	Micro Balance, Make: Mettler Toledo, Model No: XP6, Sl. No. B713878915, Code No. EMC/MB/766	6.1 g	0.000001 g	13-08-2023	EMC2022-KOL-00042925		
3	Digital Temperature & Humidity Meter, Make: Metravi, Model No. HT-3005, Sl. No. 141017143, Code No. EMC/DTHM/769	19°C to 25°C (for Temperature) & 15% RH to 80% RH (for Humidity)	0.1°C (for Temperature) & 0.1% RH (for Humidity)	18-03-2024	EMC2023-KOL-00000623		
4	Digital Temperature Indicator, Make: Metravi, Model No. DTI-111, Sl. No. 503, Code No. EMC/DTI/267	(-)50°C to 199.9°C	0.1°C	28-10-2023	EMC2022-KOL-00044640		
5	Digital Pressure Gauge (Absolute Pressure) Sl. No. D12B151 Model. YDPIR0101, Code No. EMC/APG/574	0 bar to 1.5 bar (Abs)	0.0001 bar	03-09-2023	WCP/021-407		
Discipline: Mechanical Group: Volume							
CALIBRATION RESULT							
Nominal Range	Resolution	Nominal Value	Value determined by Electronic Balance In	Actual value determined after temp correction in	Error In	Expanded Uncertainty (±)	k factor
10 µl to 100 µl	1 µl	10	10.031	10.060	0.060	0.004	2.00
		50	49.539	49.684	-0.316	0.006	2.00
		100	99.301	99.591	-0.409	0.012	2.00
Note: i) Average of 10 readings had been taken in DUC/STD.							
ii) The calibration certificate is issued by Electro Meter Corporation refers only for the particular item submitted to calibrate.							
iii) Entire certificate should be produced for all purposes. Partial production of an extract of the certificate needs approval from the technical or the quality manager of the lab.							
iv) The results in the calibration certificate are valid at the time and the stated conditions on measurement.							
v) The calibration result is only to be used for scientific & industrial purpose and not for commercial purpose.							
Measurement uncertainty at approx 95 % of confidence level & at a coverage factor : As Per Calibration Result							
Remarks: NA							
DUC- Device Under Calibration		F.S.-Full Scale		Physical status of the DUC: OK			
Calibrated By:				Approved By:			
Zeeshan Ahmed Calibration Engineer				Saptarshi Das Technical Manager			
END OF CERTIFICATE							



ELECTRO METER CORPORATION
P- 5, C.I.T ROAD,
KOLKATA - 700014

Form No: FM/22
Issue No. 10 and Issue Date: 31-12-2022

CALIBRATION CERTIFICATE OF:
INCUBATOR

CALIBRATION CERTIFICATE NO.: EMC2023-KOL-00037801 ULR NO.: CC214723000029523F Page: 1/2

1.0 ISSUED TO: SAMAL CARE PVT. LTD.
AT/PO- BANARPAL,
DIST.- ANGUL, ODISHA - 759128

1.1 Service Request / Order No.: SCPL/2023-24/029

Description Identification of Item to be calibrated:

i Name:	INCUBATOR	ii Code No.:	SCPL/PATH/INC-01
iii Sl. No.:	--	iv Make:	Unilab
v Model / Type No.:	--	vi Range:	As Per Calibration Result
vii Sensor:	--	viii Resolution:	1 °C
ix Location:	Pathology	x Cal. performed :	on site / at lab

1.3 Applicable specification of Item to be calibrated: Accuracy / permissible limit Not Specified

1.4 Date of receipt of Item: 8-Jul-2023 1.5 Date of calibration: 8-Jul-2023

1.6 Recommended date for next calibration: 8-Jul-2024 1.7 Report Issue Date: 21-Jul-2023

1.8(a) Environmental condition during calibration
Temperature: 25.4°C
Humidity: 58.7% RH

1.8(b) Recommended Environmental condition
Temperature: 25°C ± 10°C
Humidity: 50% RH ± 20% RH

1.9 Basis of calibration: S.O.P Number S.O.P/THER/08

2.0 Standard Equipment Used for Calibration are Traceable to National/International Standards through ISO/IEC: 17025:2017 Accredited Laboratory.

Sl. No.	Name of the standard Instrument used (Sl. No./Code Nos.)	Range	Resolution	Recommended date for next calibration	Certificate Nos.
1	Data Acquisition Switch, Make: Agilent, Model No: 34970A, Sl. No.: MY44022114, Code No: EMC/DAS/291	As Per Calibration Result	As Per Calibration Result	11-08-2023	EMC2022-KOL-00043518
2	PT-100 Sensor, Code: EMC/PT-100/645	(-)80°C to 250°C	.	25-01-2024	EMC2023-KOL-00000091
3	PT-100 Sensor, Code: EMC/PT-100/646	(-)80°C to 250°C	.	25-01-2024	EMC2023-KOL-00000092
4	PT-100 Sensor, Code: EMC/PT-100/647	(-)80°C to 250°C	.	25-01-2024	EMC2023-KOL-00000093
5	PT-100 Sensor, Code: EMC/PT-100/648	(-)80°C to 250°C	.	25-01-2024	EMC2023-KOL-00000094
6	PT-100 Sensor, Code: EMC/PT-100/649	(-)80°C to 250°C	.	25-01-2024	EMC2023-KOL-00000095
7	PT-100 Sensor, Code: EMC/PT-100/650	(-)80°C to 250°C	.	25-01-2024	EMC2023-KOL-00000096
8	PT-100 Sensor, Code: EMC/PT-100/651	(-)80°C to 250°C	.	25-01-2024	EMC2023-KOL-00000097
9	PT-100 Sensor, Code: EMC/PT-100/652	(-)80°C to 250°C	.	25-01-2024	EMC2023-KOL-00000098
10	PT-100 Sensor, Code: EMC/PT-100/653	(-)80°C to 250°C	.	25-01-2024	EMC2023-KOL-00000099



CC - 2147



ELECTRO METER CORPORATION
P- 5, C.I.T ROAD,
KOLKATA - 700014

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CALIBRATION CERTIFICATE OF:
INCUBATOR

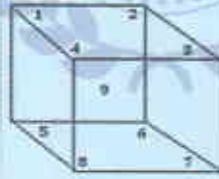
CALIBRATION CERTIFICATE NO.:

EMC2023-KOL-00037801

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Position of Sensor

Disciplines: Thermal

Group: Temperature

CALIBRATION RESULT

Temp. Set at	Nominal Value on DUC			Corrected Value			Error (°C)	Zone	Expanded Uncertainty (±) (°C)	k factor
	Max (°C)	Min (°C)	Avg (°C)	Max (°C)	Min (°C)	Avg (°C)				
37	38	37	37.2	36.71	36.55	36.637	0.563	1	0.81	2.00
				36.89	36.73	36.805	0.395	2		
				36.88	36.67	36.751	0.449	3		
				37.00	36.79	36.912	0.288	4		
				37.09	36.90	36.986	0.214	5		
				36.81	36.64	36.714	0.486	6		
				37.04	36.85	36.982	0.218	7		
				37.05	36.87	36.948	0.252	8		
				36.94	36.73	36.836	0.364	9		

Note: i) Corrected Value = Std Value + Correction, ii) Error = Avg DUC Reading - Avg Corrected Reading.

iii) Average reading obtained from scan time of 5 min, iv) Average of 5 readings had been taken in DUC/Corrected Value.

v) The calibration certificate is issued by Electro Meter Corporation refers only for the particular item submitted to calibrate.

vi) Entire certificate should be produced for all purposes. Partial production of an extract of the certificate needs approval from the technical or the quality manager of the lab.

vii) The results in the calibration certificate are valid at the time and the stated conditions on measurement.

viii) The calibration result is only to be used for scientific & industrial purpose and not for commercial purpose.

Stability: 0.21 °C Non Uniformity: 0.349 °C

Measurement uncertainty at approx 95 % of confidence level & at a coverage factor : As Per Calibration Result

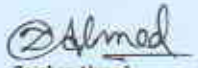
Remarks: NA

DUC- Device Under Calibration

FS- Full Scale

Physical status of the DUC: OK

Calibrated By:


Zeeshan Ahmed
Calibration Engineer



Approved By:


Saptarshi Das
Technical Manager

END OF CERTIFICATE

	 <p>ELECTRO METER CORPORATION P- 5, C.I.T ROAD, KOLKATA - 700014</p>	<p>Form No.: FM/22A</p> <p>CALIBRATION CERTIFICATE OF: TDS METER</p>
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CALIBRATION CERTIFICATE NO.: EMC2023-KOL-00037003 Page: 1/1

1.0 ISSUED TO:	SAMAL CARE PVT. LTD. AT/PO- BANARPAL, DIST- ANGUL, ODISHA - 759128
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1.1 Service Request / Order No.:	SCPL/2023-24/029
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1.2 Description/identification of item to be calibrated:					
i	Name:	TDS METER	ii	Code No.:	SCPL/INTH/TDS-01
iii	Sl. No.:	--	iv	Make:	--
v	Model / Type No.:	TDS-3	vi	Range:	As Per Calibration Result
vi	Sensor:	--	vii	Resolution:	1 ppm
ix	Location:	Pathalga	viii	Cal. performance:	On site / At site

1.3 Applicable specification of item to be calibrated: Accuracy / permissible limit:	Not Specified
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1.4 Date of receipt of item:	8-Jul-2023	1.5 Date of calibration:	8-Jul-2023
1.6 Recommended date for next calibration:	8-Jul-2024	1.7 Report issue date:	21-Jul-2023

1.8a Environmental condition during calibration:	Temperature:	25.3°C
	Humidity:	55.2% RH
1.8b Recommended environmental condition:	Temperature:	25°C ± 10°C
	Humidity:	50% RH ± 20% RH

1.9 Basis of calibration:	S.O.P Number
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2.0 Standard Equipment Used for Calibration are Traceable to National/International Standards through ISO/IEC: 17025:2017 Accredited Laboratory.

Sl. No.	Name of the standard Instrument used (Sl. No./Code No.)	Range	Resolution
1	Eutech Instruments make Standard Conductivity Solution	100 µS	-
2	Eutech Instruments make Standard Conductivity Solution	500 µS	-
3	Eutech Instruments make Standard Conductivity Solution	1413 µS	-

Parameter/Range	Nominal Value on DUC (ppm)	Standard Value		Error (ppm)	Expanded Uncertainty (±) (ppm)	k factor
		(µS)	(ppm)			
Conductivity	63	100	64.10	-1.10	0.59	2.00
	319	500	320.51	-1.51	0.59	2.00
	903	1413	905.77	-2.77	0.59	2.00

- Note:** i) Average of 5 readings had been taken in DUC/STD.
 ii) The calibration certificate is issued by Electro Meter Corporation refers only for the particular item submitted to calibrate.
 iii) Entire certificate should be produced for all purposes. Partial production of an extract of the certificate needs approval from the technical or the quality manager of the lab.
 iv) The results in the calibration certificate are valid at the time and the stated conditions on measurement.
 v) The calibration result is only to be used for scientific & industrial purpose and not for commercial purpose.

Measurement uncertainty at approx 95% of confidence level & at a coverage factor : As Per Calibration Result

Remarks: NA

DUC- Device Under Calibration	R.S.- Full Scale	Physical status of the DUC: OK
Calibrated By:  Zeeshan Ahmed Calibration Engineer		Approved By:  Saptarshi Das Technical Manager

END OF CERTIFICATE