Ace Medical Solutions (India) Pvt. Ltd.

An ISO 9001-2015 Certified Company
No : 3/751, 1st Cross Street, Surveyor Colony, K.Pudur, Madurai - 625 007.
Phone : 0452 - 2561691 Mobile : +91 94434 74610

GSTIN. 33AAHCA8053H1ZR • DL No. MDU/4205/20B,MDU/3971/21B • CIN : U33110TN2009PTC072140

CALIBRATION CERTIFICATE

Customer Name & Address:	M/S. Marson Clinical Lab, 25B, Muhammathiyar Street, Eral – 628 801.	Certificate No:	AMS/LAB/2888798
		Issuing Date:	15/12/2020
		Page No:	1 of 2

Details of Device under Calibration (DUC):

DUC:	Bio Chemistry Analyser	Id. No:	MAR/LAB /BCA/001
Make:	Euro Diagnostic Systems	Department:	Laboratory
Model:	Auto Lab - Versa	Calibrated On:	14/12/2020
Sl. No:	ES102186117	Calibration Due Suggested:	13/12/2021
Type:	Semi Auto		
Range & Least Count:	---	DUC Condition on Receipt:	OK

Traceability Details:

Sl.No.	Test Equipment	Make	Certificate Number	Valid Up to
1	Electrical Safety Analyser	RigelSafeTest60	PSG/CIRD/BMCC/4424/2020	19/01/2021
2	Thermo Hygrometer	HTC	QC/AMS-DTI-004	22/02/2021

Room Temperature: 25°C±2 Room Humidity: 30-60% (At the time of Calibration)

ESA Test Results:

SL.No	Parameter	ESA Reading	Unit	Normal Range	Condition
1	Current	520	mA	1	Normal
2	Frequency	50.0	Hz	49 -50	Normal
3	Mains Voltage Line - Neutral	220.7	Volts	220 - 240	Normal
4	Mains Voltage Line - Earth	222.4	Volts	220 - 240	Normal
5	Mains Voltage Neutral - Earth	5.7	Volts	< 7	Normal

*Electrical Safety: Please check the attached log sheet

SL.No	Parameter	Measured	Standard	Correction	Unit
1	Lamp Voltage	11.43	12.00	-0.57	Volts
2	Detector Sensitivity	-0.00	0.0	0.0	% Absorbance
3	Sipper Volume	345	350	-5.0	µl
4	Peristaltic Pump pressure	-14.79	-15.0	-0.21	cmH2O

Note:
1. Calibration Points were selected as per customer request.
2. Each reading were taken by Repeatability Test (i.e.) each reading in a row is a mean of 10 readings.
3. Results Reported are valid at the time of and under the stated conditions of measurements.

Calibrated By:
(Calibration Engineer)

Approved by:
(Technical Manager)

aceagm@gmail.com www.acemedical.in 93455 56140, 93455 56148

ESA Results:

Test Number	Test Standard	Test	Condition	Filter Selection	Reading Value	Reading Unit	Polarity	Neutral	Earth	Applied Parts
1	Earth Bonding	Earth Bond Voltage	Normal	AC+DC	0.20235	Ω	Normal	Closed	Closed	All
2	IEC60601	Leakage Earth	Normal	AC+DC	164.30	µA	Normal	Closed	Closed	All
3		Leakage Earth	Normal	AC+DC	154.04	µA	Reversed	Closed	Closed	All
4		Leakage Enclosure	Normal	AC+DC	0.00	µA	Normal	Closed	Open	All
5		Leakage Enclosure	Normal	AC+DC	0.00	µA	Reversed	Closed	Closed	All
6		Leakage Earth	SFC	AC+DC	318.49	µA	Normal	Open	Closed	All
7		Leakage Earth	SFC	AC+DC	304.68	µA	Reversed	Open	Closed	All
8		Leakage Enclosure	SFC	AC+DC	166.30	µA	Normal	Closed	Open	All
9		Leakage Enclosure	SFC	AC+DC	172.85	µA	Reversed	Closed	Open	All
10		Current	Normal	AC+DC	0.52	Amps	Normal	Closed	Closed	All
11		Frequency	Normal	AC+DC	50	Hz	Normal	Closed	Closed	All
12		Mains Voltage: Live to Neutral	Normal	AC+DC	220.7	V	Normal	Closed	Closed	All
13		Mains Voltage: Live to Earth	Normal	AC+DC	222.4	V	Normal	Closed	Closed	All
14		Mains Voltage: Neutral to Earth	Normal	AC+DC	5.7	V	Normal	Closed	Closed	All
15	IEC62353	Equipment Leakage	Direct Method	AC+DC	196.65	µA	Normal	Closed	Open	All
16		Equipment Leakage	Direct Method	AC+DC	196.22	µA	Reversed	Closed	Open	All
17	NFPA-99	Ground Leakage	Normal	AC+DC	167.15	µA	Normal	Closed	Closed	All
18		Ground Leakage	Normal	AC+DC	162.74	µA	Reversed	Closed	Closed	All
19		Ground Leakage	SFC	AC+DC	321.34	µA	Normal	Open	Closed	All
20		Ground Leakage	SFC	AC+DC	321.62	µA	Reversed	Open	Closed	All
21		Chassis Leakage	Normal	AC+DC	0.00	µA	Normal	Closed	Closed	All
22		Chassis Leakage	Normal	AC+DC	0.00	µA	Reversed	Closed	Closed	All
23		Chassis Leakage	SFC	AC+DC	170.00	µA	Normal	Closed	Open	All
24		Chassis Leakage	SFC	AC+DC	163.73	µA	Reversed	Closed	Open	All
25	IEC61010	Touch Leakage	Normal	AC+DC	0.00	µA	Normal	Closed	Closed	All
26		Touch Leakage	Normal	AC+DC	0.00	µA	Reversed	Closed	Closed	All
27		Touch Voltage	Normal	AC+DC	3.26	V	Normal	Closed	Closed	All
28		Touch Voltage	Normal	AC+DC	3.26	V	Reversed	Closed	Closed	All
29		Touch Leakage	SFC	AC+DC	158.26	µA	Normal	Closed	Open	All
30		Touch Leakage	SFC	AC+DC	157.18	µA	Reversed	Closed	Open	All
31		Touch Voltage	SFC	AC+DC	3.26	V	Normal	Closed	Open	All
32		Touch Voltage	SFC	AC+DC	3.26	V	Reversed	Closed	Open	All
33	Insulation Testing	Insulation Resistance	Normal	AC+DC	>20	MΩ	Normal	Closed	Closed	All
34	Point to Point Testing	Point to Point Earth Bond Test	Normal	AC+DC	>19.9	Ω	Normal	Closed	Closed	All
35		Point To Point Leakage Test	Normal	AC+DC	0	mA	Normal	Closed	Closed	All
36		Standard Insulation Test	Normal	AC+DC	>20	MΩ	Normal	Closed	Closed	All

Test Passed	Yes	Tested On	12.12.2020	Tested By	

Certificate of Registration

(Quality Management System)

QFS MANAGEMENT SYSTEMS LLP

This is to Certify that the Quality Management System of

ACE MEDICAL SOLUTIONS (INDIA) PRIVATE LIMITED

NO.-30, SAROJINI ST., CHINNA CHOKKIKULAM, MADURAI, TAMIL NADU-625002, INDIA

Has been found to be of the Quality Management System Standard

ISO 9001:2015

This certificate is valid for the following product or service range

PROVIDING CALIBRATION & SERVICES AND SALES OF MEDICAL EQUIPMENT

Certificate Number: **IS/1907AE/1218**

Initial Date of Certification: **11.07.2019**

Date of Certificate: **11.07.2019**

Date of Expiry: **10.07.2022**

1st Surv. Due on: **10.06.2020**

2nd Surv. Due on: **10.06.2021**

Director:

Date: **11.07.2019**

IAS ACCREDITED MSCB 118

The validity of certificate is subject to regular surveillance audit on or before above mentioned dates and its only valid after successful surveillance with continuation letter issued by QFS. It is issued subject to the continued availability of access at any time and without notice to the above named organization's premises for the purpose of assessment and surveillance regarding the standard named above and QFS terms and conditions.

QFS MANAGEMENT SYSTEMS LLP
A-27/8, Sector-16, Noida-201301, U.P., India
Reach us : 9205794699
www.qfscerts.com
email: admin@qfscerts.com
This Certificate remains the property of QFS

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Perfect Calibration Centre Pvt. Ltd.

No.40, 71st Cross, 5th Block, Rajaji Nagar, Bangalore - 560 010.
Ph : 080-2315 5522, 2315 5577, 2315 5588, 99726 97733
E-mail : infoblr@perfectcallab.in / perfectblr@yahoo.in
Website : www.perfectcallab.in

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CC - 2247

NABL LAB FOR : MECHANICAL • THERMAL • ET • AIR / FLUID FLOW • FORCE • MASS • OPTICAL

CERTIFICATE OF CALIBRATION

ULR-CC224721000001805F

ISSUE DATE : 25/01/2021

CERTIFICATE NO : PC-01-21/ATL/0194-02

CUSTOMER : **M/s. ACE MEDICAL SOLUTIONS INDIA PRIVATE LIMITED ;**
NO.3/751, 1st CROSS STREET, SURVEYOR COLONY ,
MADURAI - 625 007.

CUST REF : Letter dated : 23/01/2021

DEPT. : AT OUR LAB

CAL DATE : : 23/01/2021

DUE DATE : 22/01/2022

PAGE NO. : 1/1

DATE OF RECEIPT : 23/01/2021

PHYSICAL CONDITION ON RECEIPT : SATISFACTORY

DETAILS OF DEVICE UNDER CALIBRATION

LUX METER

MAKE	HTC	**RANGE**	0 to 2000 Lux
MODEL	LX-103	**L.C**	0.1x, x1, x10, x100 Lux
SL. NO.	T119527	**TYPE**	DIGITAL

ENVIRONMENTAL CONDITIONS:

TEMPERATURE : 20.7° C
HUMIDITY : 53 % RH

NO.	STANDARD USED	SL. NO.	CERT. NO.	VALIDITY
1	LUX METER	070518	PC-03-20/ATL/0031A-01	10/03/2021

CALIBRATION PROCEDURE : PCCPL/CAL/OP/001

CALIBRATION RESULTS:

SL.NO.	STD METER READING		UUC METER READING		OBSERVED DEVIATION		UNCERTAINTY MEASUREMENT(%)
1	100.3	lux	99.3	lux	-1.0	lux	6.5
2	500.7		498.1		-2.6		6.5
3	1000.9		998.2		-2.7		6.6
4	1501		1497		-4		6.6
5	2005		1993		-12		4.8

THE REPORTED UNCERTAINTY IS AT COVERAGE FACTOR k = 2, WHICH CORRESPONDS TO A CONFIDENCE LEVEL AT 95 %.

*** End Of Certificate ***

PERFECT CALIBRATION CENTRE PVT. LTD. BANGALORE 23155577 23155588

N.PRABU
Calibration Engineer & Prepared by

G. KARTHICK
QUALITY MANAGER
AUTHORISED SIGNATORY

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Ph : (044) 28192530, 28192930, 28193130 www.perfectcallab.in
Email : perfectcallab.info@gmail.com / info@perfectcallab.in

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CC - 2207

NABL LAB FOR : MECHANICAL • THERMAL • ET • AIR / FLUID FLOW • FORCE • MASS • OPTICAL

CERTIFICATE OF CALIBRATION

ULR - CC220721000003303F
ISSUE DATE : 25/01/2021

CERTIFICATE NO:. PC-01-21/ATL/0339-04

CUS.NAME : **M/s. ACE MEDICAL SOLUTIONS INDIA PRIVATE LIMITED ;**
ADDRESS NO.3/751, 1st CROSS STREET, SURVEYOR COLONY , MADURAI - 625 007.
CUST REF : Letter dated : 23/01/2021
CALIBRATION : AT OUR LAB

CALIBRATION DATE. : 23/01/2021
RECOMMENDED DUE DATE. : 22/01/2022
PAGE NO. : 1/2

DIGITAL MANOMETER
DUC DETAILS

MAKE : LUTRON
MODEL : PM-9100
SL.NO. : 625447
ID.NO : -
TYPE : DIGITAL
RANGE : 0 to 1500.123 mmhg
L.C : 1 mmhg
ACCURACY (±) : 2 % FSD

DATE OF RECEIPT :23/01/2021
CONDITION ON RECEIPT : Visual Inspection Ok
TEMPERATURE : 22.3° C
HUMIDITY : 52%RH

STANDARDS USED FOR CALIBRATION

NOMENCLATURE	MAKE	ID.NO & SL.NO	RANGE & UNCERTAINTY	CERT. NO	VALIDITY
DIGITAL PRESSURE CALIBRATOR	DRUCK	61019062	-1 to 20 bar(g) & ± 0.0022 bar	CS/20/LB/MP/281-01	21/10/2021
All Master Equipments are Traceable to National / International standards					

CALIBRATION PROCEDURE :PCCPL/WI/M/22
REFERENCE STANDARD : DKD- R 6-1, IS 3624,EURAMET-cg-17.01
CALIBRATION SEQUENCE : C
MEDIUM OF CALIBRATION : AIR
METHOD OF CALIBRATION : COMPARISON & METHOD -I

CALIBRATION RESULTS: **MECHANICAL CALIBRATION**

Pressure Calibration input:P1

SL.NO.	DUC Reading (P_{ind})	STD Reading in (P_{std}) mmhg		Mean value $\bar{P}$	Hysteresis h	Observed Deviation ΔP	Error FSD	Expanded Uncertainty (±) U
	mmhg	M_1 ↑	M_2 ↓	mmhg	mmhg	mmhg	%	mmhg
1	75	74.9	74.9	74.90	0.00	0.10	0.007	-
2	150	149.9	149.8	149.85	-0.10	0.15	0.010	63.316
3	300	299.9	299.8	299.85	-0.10	0.15	0.010	63.316
4	600	599.8	599.7	599.75	-0.10	0.25	0.017	63.316
5	900	899.8	899.6	899.70	-0.20	0.30	0.020	63.316
6	1200	1199.7	1199.6	1199.65	-0.10	0.35	0.023	63.316
7	1500	1499.6	1499.5	1499.55	-0.10	0.45	0.030	63.316

V.Srinivasan
Calibration Engineer & Prepared by

PERFECT CALIBRATION CENTRE PVT. LTD. PHONE: 28192930 28193130 CHENNAI-8

CHANDRASEKAR.S
DEPUTY TECHNICAL MANAGER
Authorised Signatory

Calibrated / Checked by

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CERTIFICATE OF CALIBRATION

ULR - CC220721000003303F

CERTIFICATE NO:. PC-01-21/ATL/0339-04 PAGE NO. : 2/2

RANGE : 0 to 1500.123 mm hg

L.C : 1 mm hg

ACCURACY (±) : 2 % FSD

Pressure Calibration input:P2

SL.NO.	DUC Reading	STD Reading in	mm hg	Mean value	Hysteresis	Observed Deviation	Error	Expanded Uncertainty (±)
	(P_{ind})	(P_{std})		$\bar{P}$	h	ΔP	FSD	U
	mm hg	M_1 ↑	M_2 ↓	mm hg	mm hg	mm hg	%	mm hg
1	0	0.0	0.0	0.00	0.00	0.00	0.000	0.577
2	-75	-74.9	-74.9	-74.90	0.00	149.90	9.993	0.577
3	-150	-149.8	-149.9	-149.85	-0.10	299.85	19.988	0.597
4	-300	-299.7	-299.8	-299.75	-0.10	599.75	39.980	0.597
5	-600	-599.6	-599.7	-599.65	-0.10	1199.65	79.970	0.597
6	-900	-899.5	-899.5	-899.50	0.00	1799.50	119.957	0.577
7	-1200	-1199.4	-1199.4	-1199.40	0.00	2399.40	159.947	0.577
8	-1500	-1499.4	-1499.3	-1499.35	0.10	2999.35	199.940	0.597

Differential Pressure Calibration input:P1&P2

SL.NO.	STD applied pressure in	mm hg	Differential pressure to be	DUC Reading (Differential pressure)	Observed Deviation	Error	Expanded Uncertainty (±)
	(P_{std})		(Pind)	(Pind)	ΔP	FSD	U
	P1	P2	mmhg	mm hg	0	%	mm hg
1	75.1	0.0	75.1	75	-0.10	-0.007	0.577
2	150.2	0.0	150.2	150	-0.20	-0.013	0.577
3	600.2	600.0	600.1	600	-0.10	-0.007	0.597
4	1200.3	1200.0	1200.1	1200	-0.10	-0.007	0.597
5	1500.1	0.0	1500.2	1500	-0.20	-0.013	0.597
6	0.0	0.0	0.0	0	0.00	0.000	0.577

Conclusion/Remarks:

1.The Calibration Results are within the accuracy limit

2.The Expanded Uncertainty is at coverage factor k =2, which corresponds to a confidence level at 95 %

3.This Calibration certificate used for scientific and industrial purpose only.However, if used for commercial trading, additional recognition/ approval shall be complied as required by Dept. of Legal metrology, Regulatory bodies, etc.

4.Calibration status : Accepted

End of the certificate

V.Srinivasan
Calibration Engineer & Prepared by

Calibrated / Checked by

PERFECT CALIBRATION CENTRE PVT. LTD. PHONE: 28192930 28193130 CHENNAI-8

CHANDRASEKAR. S
DEPUTY TECHNICAL MANAGER
Authorised Signatory

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Ph : 080-2315 5522, 2315 5577, 2315 5588, 99726 97733
E-mail : infoblr@perfectcallab.in / perfectblr@yahoo.in
Website : www.perfectcallab.in

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CC - 2247

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ULR-CC224721000001804E

CERTIFICATE OF CALIBRATION

ISSUE DATE :25/01/2021

CERTIFICATE NO. : PC -01-21/ATL/0194-01
CAL DATE : 23/01/2021
DUE DATE : 22/01/2022
PAGE NO . : '1/1

CUSTOMER : M/s. ACE MEDICAL SOLUTIONS INDIA PRIVATE LIMITED ;
NO.3/751, 1st CROSS STREET, SURVEYOR COLONY ,
: MADURAI - 625 007.

CUSTOMER REFERENCE : Letter dated : 23/01/2021

Calibrated At : AT OUR LAB

DATE OF RECEIPT : 23/01/2021

PHYSICAL CONDITION ON RECEIPT :SATISFACTORY

DETAILS OF DEVICE UNDER CALIBRATION

DIGITAL THERMO HYGROMETER

MAKE	BEETECH	MODEL	088 CTH-2
SL.NO	-	CAL.RANGE	10 to 45°C / 15 to 95 %RH
ID NO.	ACE/TH-01	L. C.	0.1°C /1% RH

ENVIRONMENTAL CONDITIONS: TEMPERATURE : 25.8°C HUMIDITY : 56%RH

NO.	STANDARD USED	ID.NO./SL.NO.	CERT.NO	VALIDITY
1	TEMP.& HUMIDITY METER WITH SENSOR	2115 / 20126852	30030089	29/09/2021
2	SSPRT WITH INDICATOR	17C121046	PC-09-20/ATL/026-02	01/09/2021

The standards used are traceable to National / International Standards.

THERMAL CALIBRATION

Cal Procedure No: PCCPL/CAL/TH/001,009 **COMPARISON METHOD**

CALIBRATION RESULTS FOR TEMPERATURE @ 50% RH

Sl No.	STD Reading(°C)	DUC Reading(°C)	Observed Deviation(°C)	Measurement Uncertainty (±) °C
1	9.91	10.1	0.19	0.14
2	19.70	19.9	0.20	0.14
3	29.78	30.1	0.32	0.14
4	39.78	40.2	0.42	0.14
5	44.80	45.3	0.50	0.14

CALIBRATION RESULTS FOR HUMIDITY @ 25°C

Sl No.	STD Reading(%RH)	DUC Reading(%RH)	Observed Deviation %RH	Measurement Uncertainty (±)%RH
1	15.41	15	-0.41	0.75
2	34.71	34	-0.71	0.75
3	44.98	44	-0.98	0.75
4	65.13	64	-1.13	0.75
5	86.43	85	-1.43	0.75
6	96.71	95	-1.71	0.75

Conclusion Remarks :

1. The Reported Uncertainty is at coverage factor k=2, which corresponds to a confidence level at 95%.
2. Standard & DUC readings is an average of Five repeated readings.

*** End Of Certificate ***

PERFECT CALIBRATION CENTRE PVT. LTD. BANGALORE 23155577 23155588

G. KARTHICK
QUALITY MANAGER
AUTHORISED SIGNATORY

N.PRABU
Calibration Engineer & Reported by

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NABL LAB FOR : MECHANICAL • THERMAL • ET • AIR / FLUID FLOW • FORCE • MASS • OPTICAL

CERTIFICATE OF CALIBRATION

ULR - CC220721000003300F

CERTIFICATE NO:. PC-01-21/ATL/0339-01

ISSUE DATE : 25/01/2021

CUSTOMER : **M/s. ACE MEDICAL SOLUTIONS INDIA PRIVATE LIMITED ;**
NO.3/751, 1st CROSS STREET, SURVEYOR COLONY ,
MADURAI - 625 007.

CAL DATE : 23/01/2021
DUE DATE : 22/01/2022
PAGE NO . : 1/3

CUST REF : Letter dated : 23/01/2021

CALIBRATION : AT LAB

ELECTRONIC BALANCE

DETAILS

MAKE : DIGITAL SCALE
MODEL : SF 400C
SL.NO : -
ID.NO : ACE/WB-01
RANGE : 0 to 600 g (min : 10 mg ; max : 600 g)
L.C. : 0.01 g

ENVIRONMENTAL CONDITION

Temperature : 22.1°C
Humidity : 52% RH
Condition during calibration : Satisfactory

STANDARD USED	ID.NO	CERT. NO.	VALIDITY
MASTER WEIGHTS	PCCPL/WB-E1-02	WI/FEB/19/006	08/02/2022
MASTER WEIGHTS	PCCPL/SW/001 to 007	SICC/CC/2214/01/2018-2019	22/01/2022

REFERENCE STANDARD : O.I.M.L. RECOMMENDATION

CALIBRATION PROCEDURE : WI - M - 23

CALIBRATION RESULTS

I.MECHANICAL CALIBRATION

SL. NO.	ACTUAL VALUE		STD. WEIGHT READING in g	TEST BALANCE READING in g	OBSERVED DEVIATION in g	UNCERTAINTY (±) g
1	10	mg	0.0100017	0.01	0.00	0.006
2	20		0.0200008	0.02	0.00	0.006
3	50		0.0500009	0.05	0.00	0.006
4	100		0.0999991	0.10	0.00	0.006
5	200		0.2000024	0.20	0.00	0.006
6	500		0.5000049	0.50	0.00	0.006
7	1	g	1.0000054	1.00	0.00	0.006
8	2		2.0000054	2.00	0.00	0.006
9	5		5.000005	5.00	0.00	0.006
10	10		10.000010	10.00	0.00	0.006
11	20		20.00002	19.98	-0.02	0.006
12	50		50.00005	49.96	-0.04	0.006
13	100		100.00010	99.89	-0.11	0.006
14	200		200.00020	199.83	-0.17	0.006
15	300		300.00030	299.77	-0.23	0.006
16	400		400.00040	399.62	-0.38	0.006
17	500		500.00050	499.57	-0.43	0.006
18	600		600.00060	599.53	-0.47	0.006

V.Srinivasan
Calibration Engineer & Prepared by

PERFECT CALIBRATION CENTRE PVT. LTD. PHONE: 28192930 28193130 CHENNAI-8

CHANDRASEKAR. S
DEPUTY TECHNICAL MANAGER
Authorised Signatory

Calibrated / Checked by

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Determine Perfection

Perfect Calibration Centre Pvt. Ltd.

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Ph : (044) 28192530, 28192930, 28193130 www.perfectcallab.in
Email : perfectcallab.info@gmail.com / info@perfectcallab.in

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CC - 2207

NABL LAB FOR : MECHANICAL • THERMAL • ET • AIR / FLUID FLOW • FORCE • MASS • OPTICAL

CERTIFICATE OF CALIBRATION

ULR - CC220721000003300F

CERTIFICATE NO:. PC-01-21/ATL/0339-01

CUSTOMER : M/s. ACE MEDICAL SOLUTIONS INDIA PRIVATE LIMITED ;
NO.3/751, 1st CROSS STREET, SURVEYOR COLONY ,
MADURAI - 625 007.

CAL DATE : 23/01/2021
DUE DATE : 22/01/2022
PAGE NO . : 2/3

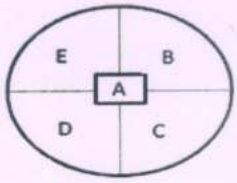
CUST REF : Letter dated : 23/01/2021

CALIBRATION : AT LAB

ELECTRONIC BALANCE

ECCENTRICITY TEST : CLOCK WISE DIRECTION

POSITION	APPLIED LOAD in g	STD. WEIGHT READING in g	TEST METER READING in g	CENTER TO CORNER DEVIATION in g
A	200	200.00020	199.83	0.00
B	200	200.00020	199.83	0.00
C	200	200.00020	199.83	0.00
D	200	200.00020	199.83	0.00
E	200	200.00020	199.83	0.00
A	200	200.00020	199.83	0.00



ECCENTRICITY TEST : ANTI CLOCK WISE DIRECTION

POSITION	APPLIED LOAD in g	STD. WEIGHT READING in g	TEST METER READING in g	CENTER TO CORNER DEVIATION in g
A	200	200.00020	199.83	0.00
E	200	200.00020	199.83	0.00
D	200	200.00020	199.83	0.00
C	200	200.00020	199.83	0.00
B	200	200.00020	199.83	0.00
A	200	200.00020	199.83	0.00

MAXIMUM ERROR BETWEEN CENTRE (A) AND OTHER POINTS = 0.00 g

REPEATABILITY TEST : HALF LOAD (50 %)

SL.NO.	APPLIED LOAD in g	STD. WEIGHT READING in g	TEST METER READING in g	DEVIATION in g
1	300	300.00030	299.77	-0.23
2	300	300.00030	299.77	-0.23
3	300	300.00030	299.77	-0.23
4	300	300.00030	299.77	-0.23
5	300	300.00030	299.77	-0.23
6	300	300.00030	299.77	-0.23
7	300	300.00030	299.77	-0.23
8	300	300.00030	299.77	-0.23
9	300	300.00030	299.77	-0.23
10	300	300.00030	299.77	-0.23

V.Srinivasan
Calibration Engineer & Prepared by

Calibrated / Checked by

PERFECT CALIBRATION CENTRE PVT. LTD. PHONE: 28192930 28193130 CHENNAI-8

CHANDRASEKAR. S
DEPUTY TECHNICAL MANAGER
Authorised Signatory

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NABL LAB FOR : MECHANICAL • THERMAL • ET • AIR / FLUID FLOW • FORCE • MASS • OPTICAL

CERTIFICATE OF CALIBRATION

ULR - CC220721000003300F

CERTIFICATE NO:. PC-01-21/ATL/0339-01

CUSTOMER : **M/s. ACE MEDICAL SOLUTIONS INDIA PRIVATE LIMITED ;**
NO.3/751, 1st CROSS STREET, SURVEYOR COLONY ,
MADURAI - 625 007.

CAL DATE : 23/01/2021
DUE DATE : 22/01/2022
PAGE NO . : 3/3

CUST REF : Letter dated : 23/01/2021
CALIBRATION : AT LAB

ELECTRONIC BALANCE

REPEATABILITY TEST : FULL LOAD (100 %)

SL.NO.	APPLIED LOAD in g	STD. WEIGHT READING in g	TEST METER READING in g	DEVIATION in g
1	600	600.00060	599.53	-0.47
2	600	600.00060	599.53	-0.47
3	600	600.00060	599.53	-0.47
4	600	600.00060	599.53	-0.47
5	600	600.00060	599.53	-0.47
6	600	600.00060	599.53	-0.47
7	600	600.00060	599.53	-0.47
8	600	600.00060	599.53	-0.47
9	600	600.00060	599.53	-0.47
10	600	600.00060	599.53	-0.47

CONCLUSION/ REMARKS :

1.THE REPORTED UNCERTAINTY AT COVERAGE FACTOR k = 2 , WHICH CORRESPONDS TO A CONFIDENCE LEVEL AT 95%.

NOTE : THIS CALIBRATION CERTIFICATE IS VALID FOR SCIENTIFIC & INDUSTRIAL PURPOSE ONLY.
HOWEVER , IF USED FOR COMMERCIAL TRADING , ADDITIONAL RECOGNITION / APPROVAL SHALL BE COMPLIED AS REQUIRED BY DEPT. OF LEGAL METROLOGY , REGULATORY BODIES, ETC.

End Of Certificate

V.Srinivasan
Calibration Engineer & Prepared by

Calibrated / Checked by

PERFECT CALIBRATION CENTRE PVT LTD
PHONE: 28192930 28193130
CHENNAI-8

CHANDRASEKAR. S
DEPUTY TECHNICAL MANAGER
Authorised Signatory

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Email : perfectcallab.info@gmail.com / info@perfectcallab.in

CC - 2207

NABL LAB FOR : MECHANICAL • THERMAL • ET • AIR / FLUID FLOW • FORCE • MASS • OPTICAL

CERTIFICATE OF CALIBRATION

ULR - CC220721000003302F **CERTIFICATE NO:. PC-01-21/ATL/0339-03**
ISSUE DATE : 25/01/2021

CUSTOMER : **M/s. ACE MEDICAL SOLUTIONS INDIA PRIVATE LIMITED ;**
NO.3/751, 1st CROSS STREET, SURVEYOR COLONY ,
MADURAI - 625 007.

CAL DATE : 23/01/2021
DUE DATE : 22/01/2022
PAGE NO. : 1/1

CUST REF : Letter dated : 23/01/2021
CALIBRATION : AT LAB

LIQUID IN GLASS THERMOMETER

DATE OF RECEIPT : 23/01/2021
CONDITION ON RECEIPT : SATISFACTORY

ENVIRONMENTAL CONDITION
Temperature : 22.1°C
Humidity : 51%

DETAILS

MAKE : DELUX
ID.NO : ACE/GT-01
LIQUID FILLED : MERCURY
IMMERSION LENGTH : 76 mm

RANGE : 0 to 220 °C
CAL.RANGE : 0 to 120 °C
LC : 2 ml

Description	Sl.No / Id No	Certificate No	Validity
SPRT with indicator	3420002	PC-12-20/ATL/1801-01	25/12/2021
All Master Equipments are Traceable to National / International standards			

Reference Standard : IS 2480:1983(PART II) & IS 6274-1971 & OIML R 133
Method Used for Calibration : WI-TH-GTM-02(L) Calibration Method : Comparison

CALIBRATION RESULTS : I.THERMAL CALIBRATION

SL.NO	TEST METER READING in °C	STANDARD METER READING in °C	OBSERVED DEVIATION in °C	EXPANDED UNCERTAINTY in (±)°C
1	0	0.09	-0.09	0.63
2	20	19.98	0.02	0.63
3	40	39.95	0.05	0.63
4	60	59.94	0.06	0.63
5	80	79.90	0.10	0.63
6	100	99.87	0.13	0.63
7	120	119.84	0.16	0.63

Conclusion/Remarks:

1.The Expanded Uncertainty is at coverage factor k=2, which corresponds to a confidence level at 95 %
2.This Calibration certificate used for scientific and industrial purpose only.However, if used for commercial trading, additional recognition/ approval shall be complied as required by Dept. of Legal metrology, Regulatory bodies, etc.

End Of Certificate

V.SRINIVASAN
CALIBRATION ENGINEER & PREPARED BY

PERFECT CALIBRATION CENTRE PVT. LTD. PHONE: 28192930 28193130 CHENNAI-8

CHANDRASEKAR. S
DEPUTY TECHNICAL MANAGER
Authorised Signatory

Calibrated / Checked by

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No. 117, 5th Street, Casa Grande Futura, Sriperumbudur,
Kancheepuram District - 602 105. Ph : (044) 6712 3632
E-mail : infosri@perfectcallab.in Web : www.perfectcallab.in

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CC - 2414

NABL LAB FOR : MECHANICAL • THERMAL • ET • AIR / FLUID FLOW • FORCE • MASS • OPTICAL

CERTIFICATE OF CALIBRATION

ULR - CC241421000000704F

ISSUE DATE : 23/01/2021

Customer Name & Address :		**M/s. ACE MEDICAL SOLUTIONS INDIA PRIVATE LIMITED ;** NO.3/751, 1st CROSS STREET, SURVEYOR COLONY , MADURAI - 625 007.
CUSTOMER REF.	:	Letter dated : 23/01/2021
SRF NO / DATE	:	0089 DATE:23/01/2021
CERT. NO.	:	PC-01-21/ATL/0089-01
CAL AT	:	AT LAB

Details of device under calibration (DUC):

Nomenclature : STOP WATCH	**Cal Procedure No:** PCCPL/CAL/ET/029
Make : NIVIA	**No.of Pages:** 1 OF 2
Range : 0 to 1 hr	**Cal Date :**23/01/2021
L.C : 1 sec, 1/100 sec	**Due Date :**22/01/2022
ID No. : TMR-01	**Condition On Receipt :** SATISFACTORY
LOC : -	**MODEL :** JS-307

Environmental Conditions:-

Temperature : 21.9° C

Humidity : 51 % RH

Standards used for calibration

Sl. No	NOMENCLATURE	MAKE / MODEL	SL. NO.	CERT. NO.	TRACEABILITY	VALIDITY
1	TIME TOTALIZER	BELTRONICS/501	296	20/112-01	WAVECAL TECHNOLOGIES	23/10/2021

K.N.Balakrishanan
Calibration Engineer & Prepared by

Calibrated / Checked by

PERFECT CALIBRATION CENTRE PVT. LTD. Sriperumbudur Phone 67123632

V.KULASEKAR
TECHNICAL MANAGER
Authorised Signatory

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ULR - CC2414210000000704F

CERT. NO. PC-01-21/ATL/0089-01 Page No: 2 of 2

Calibration result

Sl No	Standard Instrument Reading				Device Under Calibration				Observed Deviation		Measurement Uncertainty (±)
	hr	min	sec	1/100 sec	hr	min	sec	1/100 sec	sec	msec	%
1	00	00	01	05	00	00	01	-	01	05	0.22
2	00	00	05	06	00	00	05	-	05	06	0.10
3	00	00	10	09	00	00	10	-	10	09	0.10
4	00	00	30	12	00	00	30	-	30	12	0.10
5	00	01	00	10	00	01	00	-	00	10	0.10
6	00	05	00	17	00	05	00	-	00	17	0.10
7	00	10	00	24	00	10	00	-	00	24	0.10
8	00	15	00	36	00	15	00	-	00	36	0.10
9	00	30	00	39	00	30	00	-	00	39	0.10
10	00	45	00	51	00	45	00	-	00	51	0.10
11	01	00	00	66	01	00	00	-	00	66	0.10

Conclusion Remarks :

1 Measurement Uncertainty reported is at 95% confidence level with $k = 2$

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CC - 2207

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CERTIFICATE OF CALIBRATION

ULR - CC220721000003301F **CERTIFICATE NO:. PC-01-21/ATL/0339-02**

ISSUE DATE : 25/01/2021

CUSTOMER : **M/s. ACE MEDICAL SOLUTIONS INDIA PRIVATE LIMITED ;**
NO.3/751, 1st CROSS STREET, SURVEYOR COLONY ,
MADURAI - 625 007.

CAL DATE : 23/01/2021
DUE DATE : 22/01/2022
PAGE NO . : 1/1

CUST REF : Letter dated : 23/01/2021
CALIBRATION : AT LAB

TACHOMETER (NON CONTACT TYPE)

DATE OF RECEIPT : 23/01/2021 **TEMPERATURE :** 20.2°C
PHYSICAL CONDITION : SATISFACTORY **HUMIDITY :** 59% RH

INSTRUMENT DETAILS

MAKE : MEXTECH **MODEL** : DT-2234C
CAL.RANGE : 0 - 2000 rpm **SL.NO** : L161377
L.C. : 0.1 rpm **ID.NO** : -

STANDARD USED	SL.NO.	CERT. NO.	VALIDITY
TACHOMETER CALIBRATOR	185-0024V	PC-12-20/ATL/1802-08	25/12/2021

CALIBRATION PROCEDURE : WI - M - 39

MECHANICAL CALIBRATION

CALIBRATION RESULTS : (ALL VALUES IN rpm)

SL.NO	ACTUAL VALUE	MEASURED VALUE	OBSERVED ERROR
1	100.1	99.7	-0.4
2	500.5	499.9	-0.6
3	1000.2	999.6	-0.6
4	3000.4	2999.2	-1.2
5	5000.8	4999.8	-1.0
6	8001.6	7998.9	-2.7
7	12001.5	11998.7	-2.8
8	15002.4	14998.8	-3.6
9	20003.2	19999	-4.3

UNCERTAINTY OF MEASUREMENT ± 1.4 rpm

THE EXPANDED UNCERTAINTY AT A COVERAGE FACTOR k = 2, WHICH CORRESPONDS TO A CONFIDENCE LEVEL AT 95%

*** End of the certificate ***

V.Srinivasan
Calibration Engineer & Prepared by

PERFECT CALIBRATION CENTRE PVT. LTD. PHONE: 28192930 28193130 CHENNAI-8

CHANDRASEKAR. S
DEPUTY TECHNICAL MANAGER
Authorised Signatory

Calibrated / Checked by

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E-mail : infokovai@perfectcallab.in / perfectkovai@gmail.com
Web : www.perfectcallab.in

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CC - 2447

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CERTIFICATE OF CALIBRATION

ULR -CC244721000000634F

ISSUE DATE : 25/01/2021 **Certificate No. : PC-01-21/ATL/0107-01**

Customer Name : **M/s. ACE MEDICAL SOLUTIONS INDIA PRIVATE LIMITED ;**
NO.3/751, 1st CROSS STREET, SURVEYOR COLONY,
MADURAI - 625 007.

Date of Calibration : 23/01/2021
Recommended due date : 22/01/2022

Customer Reference : Letter dated : 23/01/2021

Page No : 1 of 1

Calibrated At : At Lab

Device Under Calibration of Item (DUC) : Thermometer With Sensor

Date of Receipt : 23/01/2021

Condition of Receipt : Good Condition

Environmental Condition

Temperature : 24.5°C

Humidity : 52 % RH

Description of Item :

Make : CENTRE

Model : 375

Sl.No : **140811115**

Cal.Range : 0 to 250 °C

Least count : 0.01 °C

Details of Traceability - Master Equipments /Standard Used for Calibration :

Description	Sl.No	Id.No	Certificate No.	Validity
RTD with Indicator	WEM - 41002 - 000 & 000142	PCCPL/ET/PC.03 & PCCPL/TH/RTD-02	PC - 01 - 21 - ATL - 0035 - 01	08/01/2022
All Master Equipments are Traceable to National / International standards				

Method Used for Calibration : Comparison Method as per WI - TH - TM - 01-, Reference Standard - DKD - R5 - 7 & ITS - 90 & NABL 129

Calibration Results : **Thermal Calibration**

Sl.No	DUC reading (°C)	Standard Sensor reading (°C)	Observed deviation (°C)	Uncertainty (±) °C
1	0.13	0.09	0.04	0.12
2	50.15	49.96	0.19	0.12
3	99.96	99.92	0.04	0.12
4	149.93	149.85	0.08	0.12
5	199.91	199.83	0.08	0.13
6	249.89	249.82	0.07	0.13

Reporting Statements of Conformity :

1.The Reported Uncertainty is at coverage factor k =2, which corresponds to a confidence level at 95 %

V.Ashokkumar
Calibration Engineer & Prepared by

*** End Of Certificate ***

PERFECT CALIBRATION CENTRE PVT. LTD. PHONE 0422 - 2522440 COIMBATORE

D.Aravinthan
Technical Manager

Calibrated / Checked by

Authorised Signatory

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PUC NO : 1173020
27/3/19.

L.M.S.

குழந்தை தொழிலாளர்களை பணியில் அமர்த்துவது சட்டப்படி குற்றமாகும்

TR 100.

GOVERNMENT OF TAMIL NADU

CERTIFICATE OF VERIFICATION

SCHEDULE-VIII [See Rule 15 (3)]

Legal Metrology Act 2009

Stamping at Office / ~~Site~~

Date: 8.8.19.

Office of the Inspector of Legal Metrology / Assistant Controller of Legal Metrology

Name of the Legal Metrology Officer திருமதி. மு. கலைவாணி, M.Sc., B.Ed., சட்டமுறை எடையளவு ஆய்வாளர் முதல் சரகம், மதுரை

TN 557
PLIER No. 9A

No. ORIGINAL 2008863

I hereby certify that I have this day verified and stamped / rejected the under mentioned Weights, Measures etc., belonging to K. முகைன், ACE மெடிக்கல் கான்பிகன், 30/751, மாலகுகுகதிரை,

Locality சர்வேயர்காலனி, K. புதூர், மதுரை-7

Quantity	DENOMINATION		WEIGHING INSTRUMENT				Measuring Instruments.	Verification Fee Rs.	Carriage Conveyance Adjusting Charges, etc.
	Weights	Measures	Capacity	Class	Manufacturer	Type			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
9	500g, 200g, 100g, 50g, 20g, 10g, 5g, 2g, 1g						OD	270	
9								270	
								540	—

Total Rs. 540/— deposited *Vide* CASH Receipt No. 2703964 Dated 8.8.19

Repaired / Used by.....

Signature : .....

Legal Metrology Officer

Next verification due on 8.8.2021

Note:—In the case of rejected weights, measures, etc., the Legal Metrology Officer shall give separate Certificate of rejection mentioning the reason of rejection against each item.

சட்டமுறை எடையளவு ஆய்வாளர்
முதல் சரகம், மதுரை

GCP— 305-1-W & M-15-20,000 Bks-13-2-2018-HCL8]

Cert. No : CC-2788

MSIR INDIA
Calibration

#40, 2nd Floor, 2nd Street,
Padmavathi Nagar, Chromepet,
Chennai, Tamil Nadu - 600 044.

CALIBRATION CERTIFICATE

MCAL/FOR/TR-12

PRF #	:	MCAL/PRF/072007	Date of Calibration	:	06-Jul-20
Certificate #	:	MSIR/410720/07-008	Recom. Due Date	:	05-Jul-21

DETAILS OF USER CUSTOMER		ULR #	:	ULR-CC278820000005392F
M/S. PSG College of Technology.,		Calibrated at	:	On-site
Peelamedu,		Date of Receipt	:	06-Jul-20
Coimbatore-6.		Cond. On Receipt	:	Satisfactory
		Date of Issue	:	08-Jul-20

DETAILS OF TEST / UNIT UNDER CALIBRATION

Description	:	**Documenting Process Calibrator**	Identification #	:	--
			Serial #	:	3989014
Range	:	As Per Report	Make	:	Fluke
Cal./Working Range	:	As Per Report	Model / Type	:	754
Least Count	:	As Per Report	Accuracy	:	As Per Manual
Location	:	--			

DETAILS OF MASTER INSTRUMENT USED

Description	Identification #	Valid upto	Certificate #
Multi product Calibrator	MCAL/INS/ET-01-01	04-May-21	Wavecal
AC/DC Clamp Coil Adaptor	MCAL/INS/ET-01-02	04-May-21	Wavecal
Digital multimeter	MCAL/INS/ET-02	01-Jun-21	MSIR India

MFC #	:	MCAL/MFC/ET-03, 06 & 07
Details of Env.	:	Temperature: 25±10°C Relative Humidity: 40-70 % RH

Remarks :

1. The reported Expanded Uncertainty is calculated at 95.45 % C.L with coverage factor k=2
2. The reported readings are average of three readings

Issued by :		Authorised by :	
MCAL - Engineer	**Sangeetha.B**	QM / TM	**Kamalanathan. V**

Cert. No : CC-2788

MSIR INDIA Calibration

#40, 2nd Floor, 2nd Street,
Padmavathi Nagar, Chromepet,
Chennai, Tamil Nadu - 600 044.

Certificate # : MSIR/410720/07-008

Calibration Results

S.No.	Parameter	Range	Standard Reading	Test Reading	Error	Uncertainty ±
		mV	mV	mV	mV	mV
1	DC Voltage	100	10.000	9.999	-0.001	--
2			50.000	49.998	-0.002	0.020
3			90.000	89.995	-0.005	0.036
		V	V	V	V	V
4	DC Voltage	3	0.300	0.30000	0.00000	--
5			1.500	1.50000	0.00000	0.001
6			2.700	2.70008	0.00008	0.001
		V	V	V	V	V
7	DC Voltage	30	3.000	3.0000	0.0000	--
8			15.000	15.0005	0.0005	0.006
9			27.000	27.0013	0.0013	0.011
		V	V	V	V	V
10	DC Voltage	300	30.000	30.01	0.01	--
11			150.000	150.07	0.07	0.060
12			270.000	270.13	0.13	0.108
		mA	mA	mA	mA	mA
13	DC Current	30	3.000	2.999	-0.001	0.00120
14			15.000	14.999	-0.001	0.006
15			27.000	27.002	0.002	0.014
		mA	mA	mA	mA	mA
16	DC Current	100	10.000	10.00	0.00	0.00400
17			50.000	50.02	0.02	0.020
18			90.000	90.05	0.05	0.045
		Ω	Ω	Ω	Ω	Ω
19	DC Resistance	10	1.000	1.01	0.01	0.000
20			5.000	5.03	0.03	0.002
21			9.000	9.05	0.05	0.004
		Ω	Ω	Ω	Ω	Ω
22	DC Resistance	100	10.000	10.1	0.1	0.004
23			50.000	50.4	0.4	0.020
24			90.000	90.8	0.8	0.036
		KΩ	KΩ	KΩ	KΩ	KΩ
25	DC Resistance	1	0.100	0.1	0.0	0.000
26			0.500	0.5	0.0	0.000
27			0.900	0.8	-0.1	0.000
		KΩ	KΩ	KΩ	KΩ	KΩ
28	DC Resistance	10	1.000	1.1	0.1	0.000
29			5.000	5.1	0.1	0.002
30			9.000	9.3	0.3	0.004
		Hz	Hz	Hz	Hz	Hz
31	Frequency	10 to 10kHz	50.000	50.0	0.0	0.003
32			100.000	100.0	0.0	0.006
33			1000.000	999.9	-0.1	0.060
		kHz	kHz	kHz	kHz	kHz
34			5.00	5.01	0.01	0.000
35			10.00	10.00	0.00	0.001

Issued by : MCAL - Engineer **Sangeetha.B**

Authorised by QM / TM **Kamalanathan. V**

MSIR INDIA PRIVATE LIMITED

Cert. No : CC-2788

MSIR INDIA
Calibration

#40, 2nd Floor, 2nd Street,
Padmavathi Nagar, Chromepet,
Chennai, Tamil Nadu - 600 044.

Certificate # : MSIR/410720/07-008

S.No.	Parameter	Range	Standard Reading	Test Reading	Error	Uncertainty ±
		V	V	V	V	V
6	AC Voltage	3	0.300	0.30000	0.00000	--
7			1.500	1.50000	0.00000	0.001
10			2.700	2.70000	0.00000	0.001
		V	V	V	V	V
6	AC Voltage	30	3.000	3.0000	0.0000	--
7			15.000	15.0002	0.0002	0.006
10			27.000	27.0008	0.0008	0.011
		V	V	V	V	V
6	AC Voltage	300	30.000	30.01	0.01	--
7			150.000	150.04	0.04	0.060
10			270.000	270.06	0.06	0.108

Source Mode

S.No.	Parameter	Range	Test Reading	Standard Reading	Error	Uncertainty ±
		Ω	Ω	Ω	Ω	Ω
61	DC Resistance	10	1.000	1.05	0.05	0.000
62			5.000	5.08	0.08	0.002
64			9.000	9.11	0.11	0.004
		Ω	Ω	Ω	Ω	Ω
65	DC Resistance	100	10.000	10.1	0.1	0.004
66			50.000	50.6	0.6	0.020
68			90.000	90.8	0.8	0.036
		KΩ	KΩ	KΩ	KΩ	KΩ
69	DC Resistance	1	0.100	0.1	0.0	0.000
71			0.500	0.5	0.0	0.000
72			0.900	1.0	0.1	0.000
		KΩ	KΩ	KΩ	KΩ	KΩ
73	DC Resistance	10	1.000	1.1	0.1	0.000
74			5.000	5.5	0.5	0.002
75			9.000	9.2	0.2	0.004

Issued by :		Authorised by	
MCAL - Engineer	**Sangeetha.B**	QM / TM	**Kamalanathan. V**

MSIR INDIA PVT LTD

Cert. No : CC-2788

MSIR INDIA Calibration

#40, 2nd Floor, 2nd Street,
Padmavathi Nagar, Chromepet,
Chennai, Tamil Nadu - 600 044.

Certificate # : MSIR/410720/07-008

S.No.	Parameter	Range	Test Reading	Standard Reading	Error	Uncertainty ±
		Hz	Hz	Hz	Hz	Hz
82	Frequency	10Hz to	10.00	10.000	0.000	0.047
83		10kHz	100.00	100.000	0.000	0.470
84			500.00	500.000	0.000	2.350
		kHz	kHz	kHz	kHz	kHz
85			1	1.000	0.000	0.005
86			10	10.000	0.000	0.047
		°C	°C	°C	°C	°C
87	Thermocouple	TC 'J'	-200.00	-200.77	0.77	0.350
88	-200 to 1200°C		0.00	-0.32	0.32	0.350
89			600.00	599.86	0.14	0.350
90			1200	1200.02	-0.02	0.350
		°C	°C	°C	°C	°C
91	Thermocouple	TC 'k'	-190.00	-190.86	0.86	0.410
92	-200 to 1370°C		0.00	-0.35	0.35	0.410
93			600.00	599.79	0.21	0.320
94			1370	1369.97	0.03	0.320
		°C	°C	°C	°C	°C
95	Thermocouple	TC 'T'	-200.00	-200.75	0.75	0.800
96	-200 to 400°C		0.00	-0.30	0.30	0.800
97			200.00	199.86	0.14	0.170
98			400	399.88	0.12	0.170
		°C	°C	°C	°C	°C
99	Thermocouple	TC 'E'	-200.00	-200.75	0.75	0.670
100	-200 to 950°C		0.00	-0.24	0.24	0.670
101			500.00	499.95	0.05	0.670
102			950	950.03	-0.03	0.670
		°C	°C	°C	°C	°C
103	Thermocouple	TC 'R'	0.00	-0.44	0.44	1.090
104	-20 to 1750°C		500.00	499.92	0.08	0.990
105			1000.00	999.90	0.10	0.990
106			1750	1749.70	0.30	0.990
		°C	°C	°C	°C	°C
107	Thermocouple	TC 'S'	0.00	-0.56	0.56	1.090
108	-20 to 1750°C		500.00	499.57	0.43	1.090
109			1200.00	1199.77	0.23	1.090
110			1700	1699.81	0.19	1.090
		°C	°C	°C	°C	°C
111	Thermocouple	TC 'B'	600.00	599.87	0.13	0.960
112	600 to 1800		1200.00	1199.88	0.12	0.810
113			1500.00	1500.06	-0.06	0.810
114			1800	1800.07	-0.07	0.810

Issued by : MCAL - Engineer **Sangeetha.B**

Authorised by QM / TM **Kamalanathan. V**

MSIR INDIA PVT LTD

PSG COLLEGE OF TECHNOLOGY

PSG Center for Industrial Research & Development
Calibration and Testing Center

New Admin Block, PSGCT Campus, Peelamedu, Coimbatore-641004
Email: ask.ird@psgtech.ac.in Ph : 422 4344762, 4344223

Certificate No.	PSG	CIRD	BMCC	5507	/2021	19-01-2021

CALIBRATION/TESTING CERTIFICATE FOR		ELECTRICAL SAFETY ANALYSER	
Client name and address	ACE Medical Solutions(INDIA) Pvt Ltd		MADURAI
Calibration Date	19-01-2021	Calibration due_on	18-01-2022
Procedure Number	PSGCIRDDPC	Location	PSGCIRD
Department		LABORATORY	

DESCRIPTION OF UNIT UNDER TEST

UUC	Make	Model
Electrical Saftey analyser	Rigel	SafeTest 60

Sl No	41 H 0958	ID	ACEEST

STANDARDS/CALIBRATION/TESTING EQUIPMENTS USED

Nomenclature	Make	Model
Doccumenting Process Calibrator	Fluke	754
SL NO	**Tracebility Certificate No**	
3989014	MSIR/410720/07-008 valid till 05-JUL-2021	
Nomenclature	**Make**	**Model**
DIGITAL MULTIMETER	Fluke	DMM 289
SL NO	**Tracebility Certificate No**	
37660134	MSIR/410720/07-007 Valid till 05-JUL-2021	

ENVIRONMENTAL CONDITION AT THE TIME OF CALIBRATION/TESTING

Temperature(°C)	Relative Humidity(%)	Calibrating/testing Technician
22	55	AKSAYA LAKSHMI N

Note

* The measurements made in support of this certificate are traceable to national or international standards.
* This certificate should not be reproduced expect in full without our prior permission in writing.
* Results reported are valid at the time of and under the stated conditions of measurement.
* UUC-Unit Under Calibration.
* The Calibration certificate relates only to the above mentioned calibrated item and annexed test results.

Measurement uncertanly reported is at approximately 95% confidence level with k=2.

TESTED BY
N. Aksaya

PSG COLLEGE OF TECHNOLOGY CIRD CBE-04

APPROVED BY
A SAMPATH KUMAR
Energy Auditor & Consultant
Centre for Industrial Research and Development
PSG College of Technology
Coimbatore - 641004.

FLUKE Biomedical

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Calibration and Test Centre
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TEST RESULTS

CLIENT NAME M/S ACE MEDICAL SYSTEMS
EQUIPMENT NAME ELECTRICAL SAFETY ANALYZER
MODEL SAFETEST 60
SERIAL NUMBER 41 H 0958
CERTIFICATE NO PSG/CIRD/5507/2021

LAB TEST RESULTS 19-01-2021 12:45 HRS

	STD READING	UUC READING	ERROR	OBSERVED-STATUS
AC VOLTAGE / 0-300 V at 50 Hz				
A	30.000	29.9	-0.1	PASS
B	150.000	149.9	-0.1	PASS
C	270.000	269.9	-0.1	PASS
RESISTANCE/0 to 2 ohms				
D	0.2000	0.200	0.000	PASS
E	1.0000	1.002	0.002	PASS
F	1.8000	1.803	0.003	PASS
AC CURRENT/ 200 to 1999 microA at 50Hz				
G	500	499	-1	PASS
H	1000	999	-1	PASS
I	1800	1798	-2	PASS
AC CURRENT/ 2 to 10 mA at 50Hz				
J	2.0000	2.00	0.00	PASS
K	5.0000	4.99	-0.01	PASS
L	7.0000	6.99	-0.01	PASS
DC CURRENT/ 200 to 1999 microA				
M	500.00	500	0	PASS
N	1000.0	999	-1	PASS
O	1800.0	1798	-2	PASS

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DC CURRENT/ 2 to 10 mA

P	2.0000	2.01	0.01	PASS
Q	5.0000	5.01	0.01	PASS
R	7.0000	7.01	0.01	PASS

EQUIPMENT CURRENT		AC CURRENT/ A at 50Hz		
S	1.9978	1.9	-0.1	PASS
T	2.9965	2.9	-0.1	PASS
U	3.9925	3.9	-0.1	PASS

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New Admin Block, PSGCT Campus, Peelamedu, Coimbatore-641004
Email: ask.ird@psgtech.ac.in Ph : 422 4344762, 4344223

Certificate No.	PSG	CIRD	BMCC	5508	/2021	19-01-2021

CALIBRATION/TESTING CERTIFICATE FOR		SPOT LIGHT	
Client name and address	ACE Medical Solutions(INDIA) Pvt Ltd		MADURAI
Calibration Date	19-01-2021	Calibration due_on	18-01-2022
Procedure Number	PSGCIRDSIM4	Location	PSGCIRD
Department		LABORATORY	

DESCRIPTION OF UNIT UNDER TEST

UUC	Make	Model
SPO2 Simulator	CONTEC	MS100

SI No	18010200008	ID	-

STANDARDS/CALIBRATION/TESTING EQUIPMENTS USED

Nomenclature	Make	Model
PULSE OXIMETER ANALYZER	FLUKE	PROSIM SPOTLIGHT
SL NO	**Tracebility Certificate No**	
3597030	FLUKE CALIBRATION VALID TILL 30-JUN-2021	
Nomenclature	**Make**	**Model**
Doccumenting Process Calibrator	Fluke	754
SL NO	**Tracebility Certificate No**	
3989014	MSIR/410720/07-008 valid till 05-JUL-2021	

ENVIRONMENTAL CONDITION AT THE TIME OF CALIBRATION/TESTING

Temperature(°C)	Relative Humidity(%)	Calibrating/testing Technician
22	55	AKSAYA LAKSHMI N

Note

* The measurements made in support of this certificate are traceable to national or international standards.
* This certificate should not be reproduced expect in full without our prior permission in writing.
* Results reported are valid at the time of and under the stated conditions of measurement.
* UUC-Unit Under Calibration.
* The Calibration certificate relates only to the above mentioned calibrated item and annexed test results.

Measurement uncertanly reported is at approximately 95% confidence level with k=2.

TESTED BY
N. Aksaya Lakshmi

PSG COLLEGE OF TECHNOLOGY CIRD CBE-04

APPROVED BY
A. SAMPATH KUMAR
Energy Auditor & Consultant
Centre for Industrial Research and Development
PSG College of Technology
Coimbatore - 641004.

FLUKE Biomedical

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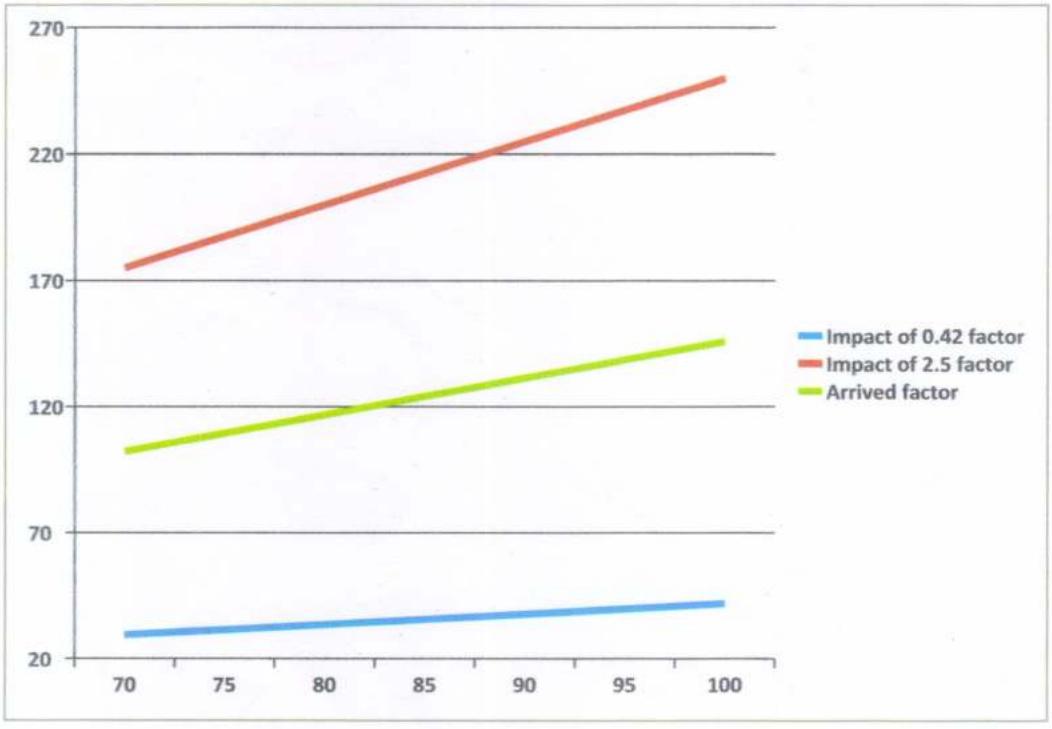
TEST RESULTS

CLIENT NAME	M/S ACE Medical Solutions (INDIA) Pvt.Ltd
EQUIPMENT NAME	SPO_2 SIMULATOR
MODEL	MS100
SERIAL NO	18010200008
ANNEXURE to CERTIFICATE NO	5508

Factor measurement



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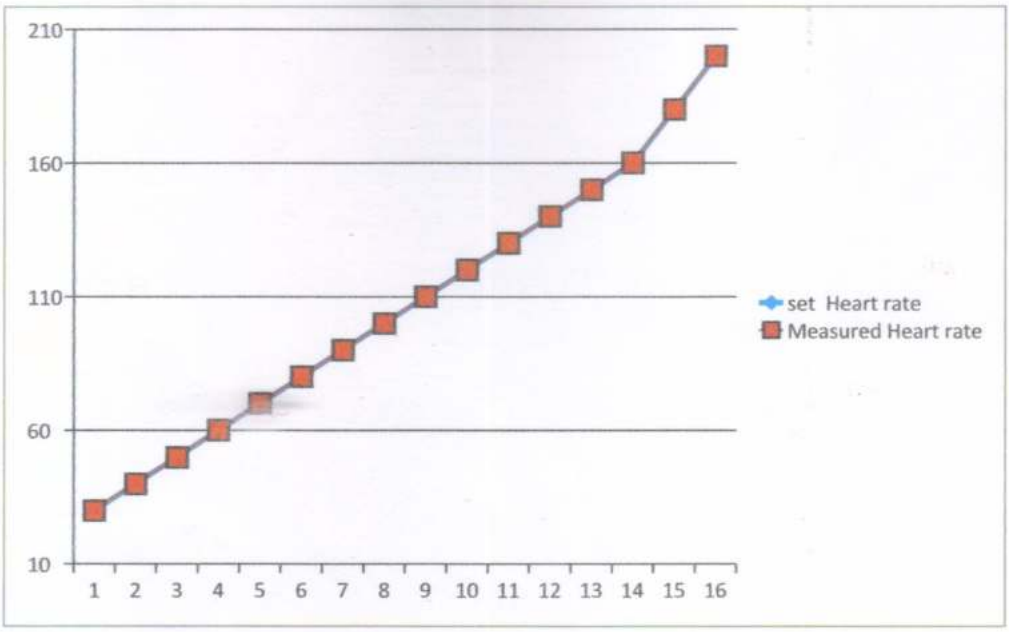
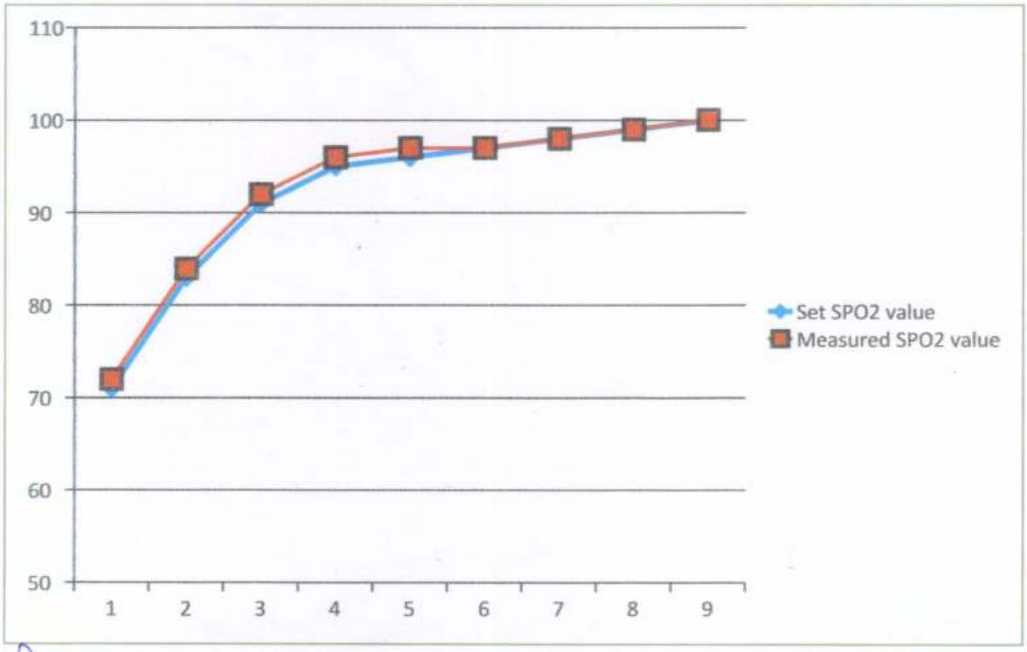
Certificate No: PSG/CIRD/BMCC/5508/2021 SL. No: 18010200008

HEART RATE MEASUREMENT



SPO_2 MEASUREMENT



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Certificate No: PSG/CIRD/BMCC/5508/2021 SL. No: 18010200008

Set Value in % Blood O_2 Level	Angle shift in stepper motor (in °)	Physical Measurement at standard Monitor
71	+5.5	71
72	+5.5	72
73	+5.5	73
74	+5.5	74
75	+5.49	76
76	+5.5	76
78	+5.5	78
79	+5.5	79
80	+5.51	80
81	+5.5	81
82	+5.5	81
83	+5.5	83
84	+5.49	84
85	+5.5	85
86	+5.5	86
87	+5.5	88
88	+5.48	88
89	+5.5	89
90	+5.5	90
91	+5.5	91
92	+5.51	92
93	+5.5	92
94	+5.5	94
95	+5.5	95
96	+5.49	96
97	+5.5	97
98	+5.5	98
99	+5.5	99
100	+5.49	100

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Certificate No: PSG/CIRD/BMCC/5508/2021 SL. No: 18010200008

Set SPO2 value (in %)	Measured SPO2 value (in %)
71	70
83	82
91	90
95	94
96	95
97	97
98	98
99	99
100	100

Set Heart Rate (in bpm)	Measured Heart Rate (in bpm)
30	30
40	40
50	50
60	60
70	70
80	80
90	90
100	100
110	110
120	120
130	130
140	140
150	150
160	160
180	180
200	200

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ATML Test Result report

Test Station	PSG BME Setup
UUT Serial Number	18010200008
UUT Type	SPOT Light
Start Date and Time	19/1/2021 11.15.12 AM
End Date and Time	19/1/2021 11.45.48 AM
Operator	CIRDC6246
Sequence File Path	E:\simulator\SPOTLIGHT\report
Outcome	PASS

Begin Sequence: Main Sequence

Step	Status	Measurement	Limits		
			Low Limit	High Limit	Comparison Type
SkyNet_Stop On Failure	False				
SkyNet_Test PC Name	PSG BME Setup				
SkyNet_Client File Version	2.0.1.0				
SkyNet_Process Model Version	5.0.10.77				
SkyNet_Manufacturer	Biomedical				
SkyNet_Test Type	Final				
Load Test Limits	Done				
Test Results/Data					
Num Properties Read:	12				
Num Properties Applied:	12				
Define Manufacturer in Report	Done				
Define Test Type in Report	Done				
Test Details	Done				
Test Results/Data					
Report Text:	Test Name: SPOT Light Operator ID: CIRDC6246 Test Software Version: 2.0.1.0				
Call Power Up Test	**Passed**				

PSG COLLEGE OF TECHNOLOGY CIRD CBE-04

ATML Test Result report

Test Station PSG BME Setup
UUT Serial Number 18010200008
UUT Type SPOT Light
Start Date and Time 19/1/2021 11.15.12 AM
End Date and Time 19/1/2021 11.45.48 AM
Operator CIRDC6246
Sequence File Path F:\Simulator\SPOTLIGHT\report
Outcome PASS

Begin Sequence: Main Sequence

Step	Status	Measurement	Limits		
			Low Limit	High Limit	Comparison Type
SkyNet_Stop On Failure		False			
SkyNet_Test PC Name		PSG BME Setup			
SkyNet_Client File Version		2.0.1.0			
SkyNet_Process Model Version		5.0.10.77			
SkyNet_Manufacturer		Biomedical			
SkyNet_Test Type		Final			
Load Test Limits		Done			
Test Results/Data					
Num Properties Read:		12			
Num Properties Applied:	12				
Define Manufacturer in Report		Done			
Define Test Type in Report		Done			
Test Details	Done				
Test Results/Data					
Report Text:	Test Name: SPOT Light Operator ID: CIRDC6246 Test Software Version: 2.0.1.0				
Call Power Up Test		Passed			

PSG COLLEGE OF TECHNOLOGY CIRD CBE-04

FLUKE.
Biomedical

CERTIFICATE OF CALIBRATION AND PERFORMANCE

Fluke Biomedical certifies that the below listed instrument meets or exceeds all current manufacturer's specifications. It has been calibrated using standards with accuracy guidelines traceable to the international System of units (SI) through a National Measurement Institute (NMI) such as the U.S. National Institute of Standards & Technology (NIST). Devices for which there are no SI traceable calibration standards are measured against in-house performance standards using accepted test procedures.

Model number:	ProSim 4	Serial Number:	4117003
Temperature:	23 deg C	Relative Humidity:	40 % RH
Technician Number:	30230	Date of Test:	June 31, 2020
Procedure Name:	PS4_Final_Tests.seq		

TEST EQUIPMENT USED

MANUF	MODEL	SERIAL	PREVCAL	NEXTCAL
Fluke	8846A	1449001	01/03/20	01/03/21
Fluke	5520A	6990002	01/06/20	10/06/21
Heise	DXD	6466	08/28/20	08/28/21
Heise	DXD	6358	03/21/20	03/21/21

This is to certify that Hardware equipment is used for Calibration of master equipments for ACE medical system

COLLEGE OF TECHNOLOGY CIRD CBE-04

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Fluke Biomedical
A Division of Fluke Electronics Corporation
6920 Seaway Blvd.
Everett, WA 98203
Phone: 888-993-5853

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