

## CALIBRATION REPORT

**Details of the Unit Under Calibration:**

**Calibration Certificate No: SBS/CL/20-21/00897**

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Customer Name:	JOTHI X-RAY ECG & LABORATORY	Customer Address:	1, SIVAN KOVIL STREET, THOOTHUKUDI-628002.
Location:	MICROBIOLOGY	Serial No:	7964
Description:	INCUBATOR	Tag/Asset No:	NA
Make:	KEMI	Date of Calibration:	20.09.2020
Model:	KIA 2	Date of Due:	19.09.2021

**Traceability Details:**

S.No	Standard Used	Make	Model	Serial No	Validity
1	Electrical Safety Analyzer	Fluke	ESA615	2244202	26-Jun-2021
2	Digital Thermo Meter	Metravi	305 XL	08000904	02-Jan-2021

**Environmental Conditions and Standard Operating Procedure Details:**

Temperature	24°C	Calibration Done At	ONSITE
Humidity (40-70% RH)	55%	Calibration Procedure No	CP-BM001-2019/ES
			CP-BM007-2019/DTM

**REMARKS:**

Performance Test Report : Attached

Electrical Safety Test Report : Attached

Electrical Safety Test Passed as Per IEC Standard 60601/62353

The above mentioned instruments has been calibrated using standard manufacturer recommended protocols, using equipments having traceability to National/International Standards. Partial reproduction of the certificates is not permitted.

Calibrated by:

  
BALAJIM

(Calibration Engineer)

Authorized Signatory:

  
C.SHANMUGARAJ  
(Technical Manager)

Quantitative Tasks				
Description	Set Value (°C)	Measured Value (°C)	Limit/ Tolerance	Result
Temperature	30°C	30.1	±0.6	PASS
Temperature	50°C	50.1	±0.6	PASS
Temperature	110°C	110.3	±0.6	PASS

Electrical Safety Test Passed :  Yes /  No

Electrical Safety Test		
Parameters Used	Measured in Test Gadget	Limits
Voltage N-E	2.7	< 3V
Voltage P-N	228.4	< 230V
Voltage P-E	229.2	< 230V
Maximum Current Taken by the DUT	0.1	As per Manufacture specification
Earth Leakage Current NC	122	<500µA for B,BF,CF
Earth Leakage Current SFC	230	<1000µA for B,BF,CF
Enclosure Leakage Current NC	5.0	<100µA for B,BF,CF
Enclosure Leakage Current SFC	5.3	<500µA for B,BF,CF
Patient Leakage Current NC	5.6	<100µA for B,BF, <10µA for CF
Patient Leakage Current SFC	5.9	<500µA for B,BF, <50µA for CF
Insulation Resistance M-P.E	Good	More than 100Mohm
Insulation Resistance M-A.P	Good	More than 100Mohm
Insulation Resistance A.P-P.E	Good	More than 100Mohm

**Observation:** The unit was found to delivery energy within allowed deviation limits.

**CALIBRATION RESULT:**

- Corrective maintenance required
- Removed from use
- Acceptable for use

Calibration Engineer Sign: 

Date: 20.09.2020