



MECOM SERVICES

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An ISO 9001:2015
 Company

REPORT ON

ELECTRICAL SAFETY TESTING/ PERFORMANCE ANALYSIS/ CALIBRATION

Report No : MS/TR/21/H03	Calibration Date : 18.01.2022
Page 1 of 2	Calibration Due : 18.01.2024
1.1 CUSTOMER DETAILS	
Name and address of the organisation	UPHC MADATHUR THOOTHUKUDI
Reference and Date	18-01-2021
Test Performed by	MECOM Team 1

1.2 DESCRIPTION OF DEVICE UNDER TEST (DUT)

A. Nomenclature	MICROSCOPE
B. Manufactured by	LABOMED
C. Model	NA
D. Serial No.	NA
E. Biomedical Product ID
F. Location	LAB

1.3 CONDITION OF THE ITEM WHEN RECEIVED

No visible damages and in working order

1.4 ENVIRONMENTAL CONDITION OF MEASUREMENTS

A. Temperature	24.7°C
B. Relative Humidity	65.3%
C. Ambient Barometric Pressure	757mmHg

1.5 Applicable Specification

IEC Specification IEC 60601-1

1.6 Test Done

Electrical Safety / Performance Testing

1.7 STATUS

Manufactures Specification	Users Specification	Within Specification	Out of Specification	Calibration	Electrical Safety Test	Performance Analysis
✓	-	✓	-	-	✓	-

Team 1



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TRACEABILITY DETAILS OF INSTRUMENTS USED FOR TESTING

SI No	Name of the Instrument	Make	Model	Serial No	Cal Due
1.	Electrical Safety Analyzer	Fluke	ESA612	3005050	FEB 2020

2.0 ELECTRICAL SAFETY TEST

S.no	Parameter	Observed value	Acceptable limits as per the Std.	Remarks
1.	Protective earth resistance	0.288 Ω	< 0.3 Ω	Ok
2.	Earth leakage	155.32 Ma	< 210 μ A NC	Ok
3.	Patient leakage current	NA	< 100 μ A BF	Ok
4.	Equipment current	0.3 A	As per manufacture spec	Ok
5.	Mains voltage(P-E)	230.6 V	--	Ok
6.	Mains voltage(P-N)	231.2V	--	Ok
7.	Mains voltage(N-E)	1.0V	<5V	Ok
8.	Enclosure Leakage Current	50 μ A	<100 μ A(Normal)	Ok
9.	Insulation Resistance	OL	>100 M Ω	Ok

3.0 REMARKS

3.1	<i>This report is applicable to the sample tested only.</i>
3.2	<i>The instruments used for testing are under valid calibration and are traceable to National Standards.</i>
3.3	<i>Parameter of the DUT were verified and found to be within the specified limits.</i>
3.4	<i>refer NABL Doc No. 121 Clause 7.0 Accommodation and environmental Conditions sub Clause see 7.2.11 below in line with ISO/IEC 17025:2005 Clause 5.3</i>

Verified By :

Team 1

