

## CERTIFICATE OF CALIBRATION

**HOSPITAL NAME** : M/S. ALPHA LIFECARE, CUDDALORE  
**Equipment** : HEMATOLOGY ANALYSER  
**Certificate No** : AL/2021-22/HA/23      **Location / Dept** : BIOCHEMISTRY  
**Make** : Mindray      **Serial No** : TK-69001460  
**Model No** : BC-20S

**Calibration standards used :**

Test Equipment	Manufacturer	Model	Serial No.	Cal Date	Due Date
Digital Thermometer	HTC Instruments	DT 305	160909727	30/01/2021	30/01/2022
Electrical Safety Analyzer	FLUKE BIOMEDICAL	ESA 615	3982556	21/02/2021	21/02/2022

**Electrical Safety Test**

Power Supply	Ac input – 100 – 230 V Ac; ± 15% ; 50/60 Hz	PASSED
Power consumption	< 100 Va	PASSED
Environment	Operating temperature 0°C to 40°C ; Relative Humidity : 15 to 85% RH	PASSED

**HEMATOLOGY ANALYSER**

<b>Parameter Tested</b>	<b>Measured in Test Gadget</b>	<b>Limits</b>
Voltage N-E	1.2	<3V
Maximum current taken by the DUT	0.12A	As per manufacture specification
Protective earth resistance test	0.145	<0.200 ohm
Earth leakage current NC	67.5	<500A for B,BF,CF
Earth leakage current SFC	136.8	<1000A for B,BF,CF
Enclosure leakage current NC	0.6	<100A for B,BF,CF
Enclosure leakage current SFC	0.8	<500A for B,BF,CF
Patient leakage current NC	1.4	<100 A for B,BF,<10 A for CF
Patient leakage current SFC	1.6	<500 A for B,BF,<50 A for CF
Insulation resistance M-P-E	>100Mohm	More than 100 A ohm
Insulation resistance M-A-P	>100Mohm	More than 100 A ohm
Insulation resistance A-P-P.E	>100Mohm	More than 100 A ohm

Equipment performance found to be within range

Calibration Date : 10.6.2021

Recommended Cal Due Date : 09.06.2022

The above mentioned instrument has been calibrated using standards manufacturer recommended protocols, using equipments having traceability to National/International Standards . Devices for which there are no National / International Standards calibration standards are measured against in-house performance standard using accepted test procedures.

Partial reproduction of the certificate is not permitted.

Results reported are valid at the time of measurement.

### SAFETY TEST

Note: Electrical safety Test is done as per IEC standard 60601.

Unit Passed

Unit Failed

Remark (If any)



Checked By  
Engineer Signature

Authorized Signature