

Form B03

Scheduled Maintenance Work Order



Quantum Medical Solutions sdn bhd
transcending boundaries, transforming life

Format Ref: - QMS/TSD-022 Rev.01

Work Order No.	PWO365325	Schedule Month	June 2018
Work Order Date	01/06/2018	Completed Date	28/6/18
Clinic Name	Klinik Kesihatan Pesta / Kampung Ken.	Clinic Code	JHR015
BE No.	JHR002004	Distict	BATU PAHAT
BE Category	Bilirubinometers, Laboratory	WO Assigned to	Farhan
Ownership	<input checked="" type="checkbox"/> Existing Equipment	<input type="checkbox"/> Purchase	<input type="checkbox"/> New
BE Condition	<input checked="" type="checkbox"/> Active	<input type="checkbox"/> BER Proposed	
Work Order Type	<input checked="" type="checkbox"/> Preventive Maintenance (PM)	<input type="checkbox"/> Third Party Calibration (TPC)	
	<input type="checkbox"/> Routine Inspection (RI)	<input type="checkbox"/> Statutory Certification (SC)	

Reschedule Date	
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3E Third Party Calibration / Statutory Certification Details

Company Name	MA	Cal / Cert Date	MA
Contact Number		Cal / Cert Expiry Date	

Action Taken

☒ PM / RI job done as per checklist. Unit tested functioning good & ready to use.

☐ Corrective Maintenance / ☐ Breakdown

BE Sticker Availability : ☐ Yes / ☐ NA

Remarks:

Manufacturer : APOL

Modal : BM-501

Serial No : 502189

Schedule Maintenance Execution Details

SI No	QMS Engineer / Technician Name	Date	Start Time	End Time
	Farhan	28/6/18	1430	1530

Customer Remarks

MA

<p>Engineer / Technician Signature</p> <p>Name <i>MA</i> MOHD NAJIB FARHAN B. ISMAIL</p> <p>Date 28/6/18 BIOMEDICAL ENGINEER (012-396 7048) QUANTUM MEDICAL SOLUTIONS SDN. BHD.</p>	<p>Customer Signature</p> <p>Name <i>Siti Nurazikin Marjuni</i> SITI NURAZIKIN MARJUNI</p> <p>Designation Junita Teknologi Makmal Pembatan U29</p> <p>Date Klinik Kesihatan Rengit</p> <p>Seal</p>
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For Internal Use

First Verification

QMS Circle Incharge

Razila
QUANTUM MEDICAL SOLUTIONS
RAZILA BINTI MISKAN
BIOMEDICAL ENGINEER

Final Verification

QMS State Incharge



KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist

Bilirubinometers, Laboratory

BE CODE : ME-012

CHECKLIST NO:CL-030-000
REV.000

PART 1 ASSET DETAILS

WORK ORDER NO ▶ No 365 325

BE NO ▶ JH002004

MANUFACTURER ▶ APEL

MODEL ▶ BR-501

FREQUENCY ▶ 6 MONTHLY (✓) 12 MONTHLY ()

PPM HOURS ▶ 1.00

PART 2 SPECIAL PRECAUTION

If there is evidence of body fluid contamination, submit the device for cleaning and decontamination before inspecting it.

Wear appropriate Personnel Protection Equipment (PPE) during work.

Wear grounded electrostatic wristband when handling PCB or electronic components.

Refer to the safety procedure for additional precautions and guidance as per manufacturer guidelines.

Make sure the test equipment used are duly calibrated.

PART 3 TEST APPARATUS

Tick (✓) where appropriate

NO	ASSET NO	DESCRIPTION	SERIAL NO	CALIBRATION DUE ON
	TEESMOOTV	ELECTRICAL SAFETY ANALYZER	3226906	9/10/18

PART 4 QUALITATIVE TASKS

Tick (✓) where appropriate

	PASS	FAIL	NA		PASS	FAIL	NA
1 Chassis - verify physical integrity, cleanliness and condition	(✓)	()	()	8 Indicators / Displays -Verify Proper Operation	(✓)	()	()
2 Mount/ Fasteners - verify physical integrity	(✓)	()	()	9 Audible / Visual Alarms - Verify proper Operation, Automatic and Activation	()	()	(✓)
3 Power Cord - verify proper insulation and integrity	(✓)	()	()	10 System Printer - Verify Integrity	()	()	(✓)
4 Strain Relief - verify physical integrity at both ends of line cord	(✓)	()	()	11 Lamp - Verify Integrity	(✓)	()	()
5 Circuit Breaker / Fuses-Verify Integrity of External Circuit Breaker or rating of Fuses	(✓)	()	()	12 Capillary Holder-Verify Physical integrity	(✓)	()	()
6 Fittings/ Connectors - Check all Fittings/ Connectors	(✓)	()	()	13 Interference filter - Check Adjustment	(✓)	()	()
7 Controls /Switches -Verify proper operation of controls	(✓)	()	()	14 Accessories - Verify Physical Integrity and Operation	(✓)	()	()

PART 5 PREVENTIVE MAINTENANCE TASKS

Tick (✓) where appropriate

	DONE	NOT DONE **	NA	Notes:
1 Clean the Exterior	(✓)	()	()	* For all Parts, NA is defined as NOT APPLICABLE ** If you have ticked 'NOT DONE', then justify in Part 8 *** Choose Whichever Applicable
2 Inspect / Clean Interior of unit	(✓)	()	()	
3 Battery - Check /Replace ***	(✓)	()	()	



KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist
Bilirubinometers, Laboratory
BE CODE : ME-012

CHECKLIST NO:CL-030-000 REV.000

WORK ORDER NO ▶ PWD 365 325

PART 6 QUANTITATIVE TASKS

Tick (✓) where appropriate

No	Description	Units / UOM	Set Values	Measured Values	Limit/Tolerance	PASS	FAIL	NA
	Blank Check	mg/dl	0	0	± 0.2	✓	()	()
	QC Result (Attach Result)					()	()	()
	Calibrator	mg/dl	185	185	± 0.2	✓		

PART 7 ELECTRICAL SAFETY TEST

ELECTRICAL SAFETY TEST, (attach report)

Tick (✓) where appropriate

Standard use :



IEC 60601



IEC 61010



IEC 62353

Result :



PASS



FAIL



NA

PART 8 NOTES



CORRECTIVE MAINTENANCE REQUIRED



FUNCTIONING



NOT FUNCTIONING

WORK ORDER NO ▶ 57A

NEXT PPM DATE ▶ Dec 18

PPM has been performed in accordance to the checklist and the equipment is functioning to the intended purpose.

COMPLETED BY:

Faham

DATE :

28/1/18

Test Setup

Operator ID :
 Calibration Tech : DINA
 Calibration Date : 9/10/2017
 Firmware Version : 2.08.01
 Serial Number : 3226906
 Date & Time : 06/28/2018 & 15:45
 JOB Name :

DUT Information

Equipment Number : JHR002004
 Serial Number :
 Manufacturer : APEL
 Model : BR501
 Location : KK PESTA
 Other :

Template Information

Template Name : JHR002004
 Pause after Power ON: NO
 Power ON delay: 2
 Test Speed: NORMAL
 Halt on Test Failure: YES
 Include Time: YES
 Insulation Resistance \ 500V
 Multi Enclosure Test : NO

Standard : IEC60601-1-2nd Ed
 Pause before Power O NO
 Power OFF delay: 0
 Test Mode: AUTO
 Multi PE Test: NO
 Multi Resstore: WORST/LAST
 Reverse Polarity: YES
 Classification: II

PLC Configuration-Applied part setup

AP Name AP Type AP Num

ESA615 Test Results

Test Name	Value	High Limits	Low Limits	Status
Insulation Resistance				P
Mains to Non-Earth Accessible Conductive Par	999 MOhn -	-		P
Mains Voltage				P
Live to Neutral	235.0 V -	-		P
Equipment Current	0.0 A -	-		P
Enclosure Leakage Current				P
Normal Condition	0.5 uA-OPI	100 -		P
Open Neutral	0.7 uA-OPI	500 -		P
Open Neutral- Reversed Mains	0.7 uA-OPI	500 -		P
Normal Condition- Reversed Mains	0.5 uA-OPI	100 -		P
Earth Leakage Current				P
Open Neutral	327 uA-OF	1000 -		P

 Signature

