

## 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.	PWO365999	Schedule Month	July 2018
Work Order Date	01/07/2018	Completed Date	10/7/2018
Clinic Name	Klinik Kesihatan Sungai Rengit	Clinic Code	JHR047
BE No.	JHR008627	Distict	KOTA TINGGI
BE Category	Light, Examination	WO Assigned to	Ktg bme3
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 type="checkbox"/> Preventive Maintenance (PM)	<input type="checkbox"/> Third Party Calibration (TPC)	
	<input checked="" type="checkbox"/> Routine Inspection (RI)	<input type="checkbox"/> Statutory Certification (SC)	

Reschedule Date	NA
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<b>BE Third Party Calibration / Statutory Certification Details</b>			
Company Name	N/A	Cal / Cert Date	N/A
Contact Number	N/A	Cal / Cert Expiry Date	N/A
<b>Action Taken</b>			
<input checked="" type="checkbox"/> PM / RI job done as per checklist. Unit tested functioning good & ready to use.		Manufacturer: HEINE	
<input type="checkbox"/> Corrective Maintenance / <input type="checkbox"/> Breakdown		Model: HL 1200	
BE Sticker Availability: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> NA		Serial No: 1187816	
Remarks:			

<b>Schedule Maintenance Execution Details</b>				
SI No	QMS Engineer / Technician Name	Date	Start Time	End Time
NA	SAFWAN	10/7/2018	1400	1430

Customer Remarks	NA
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Engineer / Technician Signature	Customer Signature
Name	Name
Date	Designation
MOHAMAD SAFWAN BIN ROSLAN	NORHASMABINTI BAHRUN
Biomedical Technician	Jururatan Kesihatan U29
Quantum Medical Solution Sdn. Bhd	Klinik Kesihatan U29
10/7/18	Seal
	10/7/18

For Internal Use	
MUHD RAMADHAN S. TAMAR JAYA	
Biomedical Engineer	
First Verification	Final Verification
Technical Service Department	QMS State Incharge
Quantum Medical Solutions Sdn. Bhd.	
QMS Circle Incharge	
Tel: +60 12-396 1697	



# KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist

Light, Examination

BE CODE : 12-276

CHECKLIST NO: CL-091-000  
REV.000

## PART 1 ASSET DETAILS

WORK ORDER NO ▶ PW0365999 BE NO ▶ JHR008627  
MANUFACTURER ▶ HEINE MODEL ▶ HL 1200  
FREQUENCY ▶ 12 MONTHLY (✓) PPM HOURS ▶ 0.50

## 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
1	TESSA-0010	ELECTRICAL SAFETY ANALYZER	3218071	24/8/18

## PART 4 QUALITATIVE TASKS

Tick (✓) where appropriate

- Chassis - Verify physical integrity, cleanliness and condition. (✓) ( ) ( )
- Fittings/Connectors - Verify integrity. (✓) ( ) ( )
- Controls/Switches - Verify proper operation of controls. (✓) ( ) ( )
- Easy handling of all the articulation - Verify performance. (✓) ( ) ( )
- Brightness - Verify operation. (✓) ( ) ( )

## PART 5 PREVENTIVE MAINTENANCE TASKS

Tick (✓) where appropriate

	DONE	NOT DONE **	NA	Notes:
1 Lense - Check and clean	(✓) ( ) ( )			4 Bulb holder - Check/replace*** (✓) ( ) ( )
2 Cleanliness - Clean the exterior/interior of the equipment	(✓) ( ) ( )			Notes:
3 Bulb - Check/replace***	( ) ( ) ( )			* For all Parts, NA is defined as NOT APPLICABLE **If you have ticked 'NOT DONE', then justify in Part 8 *** Choose Whichever Applicable

WORK ORDER NO

PW0365999

## PART 6 QUANTITATIVE TASKS

Tick (✓) where appropriate

[illegible]

## PART 7 ELECTRICAL SAFETY TEST

ELECTRICAL SAFETY TEST, (attach report)

Tick (✓) where appropriate

Standard use :

### Result

☒ MEC 60601☐ IEC 61010

☐ IEC 62353

☒ PASS☐ FAIL☐ NA

## PART 8 | NOTES

CORRECTIVE MAINTENANCE REQUIRED



## FUNCTIONING

9

NOT FUNCTIONING

July 2019

WORK ORDER NO. ▶

μVD

NEXT PPM DATE

► July

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

COMPLETED BY:

MOHAMAD SAFWAN BIN ROSLAN  
Biomedical Technician

DATE:

Quantum Medical Solution Sdn. Bhd

5/16/18



## Test Setup

Operator ID :  
 Calibration Tech : MOHANA  
 Calibration Date : 24/08/2018  
 Firmware Version : 2.08.01  
 Serial Number : 3218071  
 Date & Time : 10/07/2018 @ 02:20pm  
 JOB Name :

## DUT Information

Equipment Number : JHR008627  
 Serial Number :  
 Manufacturer :  
 Model :  
 Location : KK SUNGAI RENGIT  
 Other :

## Template Information

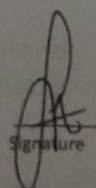
Template Name :	LIGHT	Standard :	IEC60601-1-2nd Ed
Pause after Power ON:	NO	Pause before Power OFF:	NO
Power ON delay:	2	Power OFF delay:	0
Test Speed:	NORMAL	Test Mode:	AUTO
Halt on Test Failure:	YES	Multi PE Test:	NO
Include Time:	YES	Multi Resstore:	WORST/LAST
Insulation Resistance Voltage 500V		Reverse Polarity:	YES
Multi Enclosure Test :	NO	Classification:	I

## PLC Configuration-Applied part setup

AP Name    AP Type    AP Num

## ESA615 Test Results

Test Name	Value	High Limits	Low Limits	Status
Protective Earth Resistance	0.361 Ohm	0.2 -		F
Insulation Resistance				P
Mains to Protective Earth	49.0 MOhm	-		P
Mains to Non-Earth Accessible Conductive Part	999 MOhm	-		P
Mains Voltage				P
Live to Neutral	259.5 V	-		P
Neutral to Earth	5.4 V	-		P
Live to Earth	254.0 V	-		P
Equipment Current	0.0 A	-		P
Earth Leakage Current				P
Normal Condition	50.6 uA-OP	500 -		P
Open Neutral	58.9 uA-OP	1000 -		P
Open Neutral- Reversed Mains	27.4 uA-OP	1000 -		P
Normal Condition- Reversed Mains	15.4 uA-OP	500 -		P
Enclosure Leakage Current				P
Normal Condition	0.6 uA-OP	100 -		P
Open Earth	1.1 uA-OP	500 -		P
Open Neutral	0.7 uA-OP	500 -		P
Open Neutral- Reversed Mains	0.7 uA-OP	500 -		P
Normal Condition- Reversed Mains	0.6 uA-OP	100 -		P
Open Earth- Reversed Mains	0.7 uA-OP	500 -		P

  
 Signature