

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.	PWO366056	Schedule Month	July 2018
Work Order Date	01/07/2018	Completed Date	10/7/18
Clinic Name	Klinik Kesihatan Sungai Rengit	Clinic Code	JHR047
BE No.	JHR008636	Distict	KOTA TINGGI
BE Category	Rotators	WO Assigned to	KJGBME4
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	N/A
-----------------	-----

BE Third Party Calibration / Statutory Certification Details

Company Name	N/A	Cal / Cert Date	N/A
Contact Number	N/A	Cal / Cert Expiry Date	N/A

Action Taken

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

☐ Corrective Maintenance / ☐ Breakdown Model: VRN-210

BE Sticker Availability: ☒ Yes / ☐ NA Serial No: 22116

Remarks:

Schedule Maintenance Execution Details

Sl No	QMS Engineer / Technician Name	Date	Start Time	End Time
NA	ZULHELMI	10/7/18	9.00 AM	10.00 AM

Customer Remarks

N/A

Engineer / Technician Signature	Customer Signature
Name	Name
Date	Designation
10/7/18	Date
ZULHELMI BIN ALI Senior Biomedical Technician Quantum Medical Solution Sdn. Bhd.	ALBANS MASIK Juruteknologi Makmal Perubatan U29 Klinik Kesihatan Sungai Rengit Perubatan
	Seal

For Internal Use

MUHD RAMADHAN B. TAMAR JAYA
Biomedical Engineer
Technical Service Department
Quantum Medical Solutions Sdn. Bhd.
Tel: +60 12-396 1697

First Verification
QMS Circle Incharge

Final Verification
QMS State Incharge



KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist

Rotators

BE CODE 15-173

CHECKLIST NO: CL-125-000
REV.000

PART 1 ASSET DETAILS

WORK ORDER NO ▶ PW0366056 BE NO ▶ JHROG8636.
MANUFACTURER ▶ Geammy. MODEL ▶ VRN-210
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
1	TEESA 0010	ELECTRICAL SAFETY ANALYZER	3218071	24/8/18.

PART 4 QUALITATIVE TASKS

Tick (✓) where appropriate

	PASS	FAIL	NA		PASS	FAIL	NA
1 Chassis - verify physical integrity, cleanliness and condition	(✓)	()	()	8 Controls/Switches - verify proper operation of controls	(✓)	()	()
2 Casters/Brakes - if mounted, verify physical integrity	(✓)	()	()	9 Indicators/ Displays - verify proper illumination and operation	(✓)	()	()
3 AC Plug - verify integrity	(✓)	()	()	10 Alarms/ Interlocks - check all alarms available	(✓)	()	()
4 Power Cord - verify proper insulation and integrity	(✓)	()	()	11 Motor - verify proper operation	(✓)	()	()
5 Strain Relief - verify physical integrity at both ends of line cord	(✓)	()	()	12 Label - verify physical integrity	(✓)	()	()
6 Circuit Breaker/ Fuse - verify integrity of external circuit breaker and/or rating of external fuse	(✓)	()	()				
7 Fittings/ Connectors - check all fittings/connectors	(✓)	()	()				

PART 5 PREVENTIVE MAINTENANCE TASKS

Tick (✓) where appropriate

	DONE	NOT DONE **	NA
1 Clean/Inspect the Exterior & Interior	(✓)	()	()
2 Lubricate	(✓)	()	()

Notes: * 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 ▶ PWO 366056.

PART 6 QUANTITATIVE TASKS

Tack (✓) where appropriate

[illegible]

PART 7 ELECTRICAL SAFETY TEST

ELECTRICAL SAFETY TEST, (attach report)

Tick (✓) where appropriate

Standard use :

Result :

☒ IEC 60601

☐ IEC 61010

 IEC 62353

☒ PASS☐ FAIL☐ NA

PART 8 NOTES

9

CORRECTIVE MAINTENANCE REQUIRED

☒

FUNCTIONING

7

NOT FUNCTIONING

WORK ORDER NO

NA

NEXT PPM DATE

10/7/19.

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

COMPLETED BY:

ZULHELMI BIN ALI

Senior Biomedical Technician

Quantum Medical Solution Sdn. Bhd.

DATE: 10/7/18

Test Setup

Operator ID :
Calibration Tech : MOHANA
Calibration Date : 08/24/2018
Firmware Version : 2.08.01
Serial Number : 3218071
Date & Time : 07/10/2018&09.30AM
JOB Name :

DUT Information

Equipment Number : JHR008636
Serial Number :
Manufacturer :
Model :
Location : KK SUNGAI RENGIT
Other :

Template Information

Template Name :	ROTATORS	Standard :	IEC60601-1-3rd Ed
Pause after Power ON NO		Pause before Power O 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 \ 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	0.065 Ohn	0.2	-	P
Insulation Resistance				P
Mains to Protective Earth	999 MOhr	-	-	P
Mains to Non-Earth Accessible Conductive Pa	999 MOhr	-	-	P
Mains Voltage				P
Live to Neutral	228.4 V	-	-	P
Neutral to Earth	6.4 V	-	-	P
Live to Earth	233.6 V	-	-	P
Equipment Current	0.0 A	-	-	P
Earth Leakage Current				P
Normal Condition	16.2 uA-O	5000	-	P
Open Neutral	24.4 uA-O	10000	-	P
Open Neutral- Reversed Mains	33.9 uA-O	10000	-	P
Normal Condition- Reversed Mains	27.5 uA-O	5000	-	P
Enclosure Leakage Current				P
Normal Condition	0.7 uA-OP	100	-	P
Open Earth	0.8 uA-OP	500	-	P
Open Neutral	0.8 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	0.8 uA-OP	500	-	P


Signature