

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.	PWO370822	Schedule Month	June 2018
Work Order Date	01/06/2018	Completed Date	26-06-2018
Clinic Name	Klinik Kesihatan Pesta / Kampung Ken	Clinic Code	JHR015
BE No.	JHNSPA016	Distict	BATU PAHAT
BE Category	SPHYGMOMANOMETERS, ELEC	WO Assigned to	MUHD SHAZRUL .
Ownership	<input type="checkbox"/> Existing Equipment	<input type="checkbox"/> Purchase	<input checked="" 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	
-----------------	--

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

Schedule Maintenance Execution Details				
SI No	QMS Engineer / Technician Name	Date	Start Time	End Time
	MUHD SHAZRUL .	26-06-2018	14:40	15:40

Customer Remarks	
Engineer / Technician Signature Name Date QUANTUM MEDICAL SOLUTION MUHAMMAD SHAZRUL BIN MOHD SAMSURI BIOMEDICAL TECHNICIAN	Customer Signature Name Designation Date Seal Nur Hazirah Nacey Abdullah (No. Pendaftaran Penuh: 54451) Jururawat U29 KK Kg. Kenangan Dato Onn

For Internal Use

First Verification
QMS Circle Incharge

RAZILA MISKAN
 Biomedical Engineer (Circle In-Charge)
 Quantum Medical Solutions Sdn. Bhd.

Final Verification
QMS State Incharge

26/6/18



KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist
Sphygmomanometers, Electronic, Automatic
BE CODE : 16-173

CHECKLIST NO: CL-141-000
REV.000

PART 1 ASSET DETAILS

WORK ORDER NO ▶ PWO 370822 BE NO ▶ JHNSPA 016
MANUFACTURER ▶ Mindray MODEL ▶ VS-900
FREQUENCY ▶ 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 0074	ELECTRICAL SAFETY ANALYZER	3226906	9/10/2018
2	TEESA 0186	PATIENT SIMULATOR	3233028	10/12/2018

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 illumination and operation.	(✓)	()	()
2 Mount/Fasteners - Verify physical integrity.	(✓)	()	()	9 Hose & Cuff - Verify physical integrity and cleanliness.	(✓)	()	()
3 Power Cord - Verify proper insulation and integrity.	(✓)	()	()				
4 Strain Relief - Verify physical integrity at both ends of line cord.	(✓)	()	()				
5 Circuit Breaker/Fuse - Verify integrity of external circuit breaker and/or rating of external fuse.	(✓)	()	()				
6 Fittings/Connectors - Check all fittings/connectors.	(✓)	()	()				
7 Controls/Switches/Keypad - Verify proper operation of controls.	(✓)	()	()				

PART 5 PREVENTIVE MAINTENANCE TASKS

Tick (✓) where appropriate

	DONE	NOT DONE **	NA	Notes:
1 Clean exterior/interior of the equipment.	(✓)	()	()	* For all Parts, NA is defined as NOT APPLICABLE If you have ticked 'NOT DONE', then justify in Part 8 Choose Whichever Applicable
2 Battery - Check/Replace if necessary.***	(✓)	()	()	** ***



KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist
Sphygmomanometers, Electronic, Automatic
BE CODE : 16-173

CHECKLIST NO: CL-141-000
REV.000

WORK ORDER NO ▶

PART 6 QUANTITATIVE TASKS

Tick (✓) where appropriate

No	Description	Units / UOM	Set Values	Measured Values	Limit/Tolerance	PASS	FAIL	NA
1	Blood pressure accuracy	mmHg	200	200	197 - 203	(✓)	()	()
		mmHg	150	150	147 - 153	(✓)	()	()
		mmHg	100	100	97 - 103	(✓)	()	()
2	Pulse rate accuracy	bpm	60	60	58 - 62	(✓)	()	()
		bpm	80	80	78 - 82	(✓)	()	()
		bpm	120	120	118 - 122	(✓)	()	()

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

NA

☐ CORRECTIVE MAINTENANCE REQUIRED

☒ FUNCTIONING

☐ NOT FUNCTIONING

WORK ORDER NO ▶ NA

NEXT PPM DATE ▶ JUN 19

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

COMPLETED BY: MUHD SHAZRUL

DATE: 26/06/2018

Test Setup

Operator ID :
Calibration Tech : DINA
Calibration Date : 9/10/2017
Firmware Version : 2.08.01
Serial Number : 3226906
Date & Time : 06/26/2018 & 15:15
JOB Name :

DUT Information

Equipment Number : JHNSPA016
Serial Number :
Manufacturer : MINDRAY
Model : VS-900
Location : KK PESTA
Other :

Template Information

Template Name : JHNSPA016
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	237.0 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	0.6A-OPEN	500 -		P
Normal Condition- Reversed Mains	0.5 uA-OPI	100 -		P
Earth Leakage Current				P
Open Neutral	27.0 uA-OI	1000 -		P


Signature

