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.	PWO371566	Schedule Month	June 2018
Work Order Date	01/06/2018	Completed Date	25-06-2018
Clinic Name	Klinik Kesihatan Pesta / Kampung Ken	Clinic Code	JHR015
BE No.	JHNSPA015	Distict	BATU PAHAT
BE Category	SPHYGMOMANOMETERS, ELEC	WO Assigned to	MUHD SHAZRUL.
Ownership	☐ Existing Equipment	☐ Purchase	☑ New
BE Condition	☑ Active	☐ BER Proposed	
Work Order Type	☑ Preventive Maintenance (PM)	☐ Third Party Calibration (TPC)	
	☐ Routine Inspection (RI)	☐ 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

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

☐ Corrective Maintenance / ☐ Breakdown

BE Sticker Availability : ☐ Yes / ☒ NA

Remarks:

Manufacturer :

Modal :

Serial No :

Schedule Maintenance Execution Details

Sl No	QMS Engineer / Technician Name	Date	Start Time	End Time
	MUHD SHAZRUL.	25-06-2018	09:50	18:50

Customer Remarks

NA.

Engineer / Technician Signature

Name

Date

25/06/2018

QUANTUM MEDICAL SOLUTION
MUHAMMAD SHAZRUL BIN MOHD SAMSURI
BIOMEDICAL TECHNICIAN

Customer Signature

Name

Designation

Date

Seal

Nur Hazirah Necey Abdullah
(No. Pendaftaran Penuh: 54451)
Jururawat U29
KK Kg. Kenangan Dato Onn
25/6/18

For Internal Use

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

First Verification
QMS Circle Incharge

Final Verification
QMS State Incharge

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 371566	BE NO ►	JHNSPA 015
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
1	Chassis - Verify physical integrity, cleanliness and condition.	(√)	( )	( )
2	Mount/Fasteners - Verify physical integrity.	(√)	( )	( )
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.	(√)	( )	( )
8	Indicators/Displays - Verify proper illumination and operation.	(√)	( )	( )
9	Hose & Cuff - Verify physical integrity and cleanliness.	(√)	( )	( )

PART 5 PREVENTIVE MAINTENANCE TASKS

Tick (√) where appropriate

		DONE	NOT DONE **	NA
1	Clean exterior/interior of the equipment.	(√)	( )	( )
2	Battery - Check/Replace if necessary.***	(√)	( )	( )

Notes:

* For all Parts, NA is defined as NOT APPLICABLE
** If you have ticked 'NOT DONE', then justify in Part 8
*** Choose Whichever Applicable

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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	199	197 - 203	(✓) ( ) ( )
		mmHg	150	149	147 - 153	(✓) ( ) ( )
		mmHg	100	101	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 :

☑ IEC 60601 ☐ IEC 61010 ☐ IEC 62353

Result :

☑ 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 : 25 - 06 - 2018

Test Setup

DUT Information

Operator ID :		Equipment Number :	JHNSPA015
Calibration Tech :	DINA	Serial Number :	
Calibration Date :	9/10/2017	Manufacturer :	MINDRAY
Firmware Version :	2.08.01	Model :	VS-900
Serial Number :	3226906	Location :	KK PESTA
Date & Time :	06/25/2018 & 10:27	Other :	
JOB Name :			

Template Information

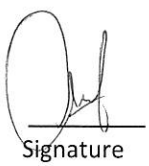
Template Name :	JHNSPA015	Standard :	IEC60601-1-2nd Ed
Pause after Power ON	NO	Pause before Power O	NO
Power ON delay:	2	Power OFF delay:	0
Test Speed:	NORMAL	Test Mode:	AUTO
Halt on Test Failure:	YES	Multi PE Test:	NO
Include Time:	YES	Multi Resstore:	WORST/LAST
Insulation Resistance \	500V	Reverse Polarity:	YES
Multi Enclosure Test :	NO	Classification:	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	237.1 V	-	-	P
Equipment Current	0.0 A	-	-	P
Enclosure Leakage Current				P
Normal Condition	0.6 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	0.6 uA-OPI	100	-	P
Earth Leakage Current				P
Open Neutral	27.1 uA-OI	1000	-	P



Signature