Form B03 Scheduled Maintenance Work Order

Biomedical Engineer

First Verification Technical Service Department

QMS Circle Incharge Tel: +60 12-396 1697



PWO366443 Work Order No. Schedule Month July 2018 Work Order Date 01/07/2018 101 Completed Date Clinic Name Klinik Kesihatan Sungai Rengit Clinic Code **JHR047** BE No. JHNMOP072 KOTA TINGGI Distict **BE** Category ktgbme3 Monitoring Systems, Physiologic WO Assigned to Ownership **Existing Equipment** Purchase New BE Condition V Active BER Proposed V Preventive Maintenance (PM) Third Party Calibration (TPC) Work Order Type Routine Inspection (RI) Statutory Certification (SC) Reschedule Date My BE Third Party Calibration / Statutory Certification Details Company Name NA Cal / Cert Date NA Contact Number Cal / Cert Expiry Date **Action Taken** PM / Rf job done as per checklist. Unit tested functioning good & ready to use. Manufacturer: MINDRAY Corrective Maintenance / Breakdown Model: 1PM 10 Serial No: FG-71033875 BE Sticker Availability Remarks Schedule Maintenance Execution Details QMS Engineer / Technician Name **End Time** Date Start Time SAFWAN MD Customer Remarks MA Engineer / Technician S Customer Signature Name Name Date Designation AD SAFWAN BIN ROSLAN Date Biomedical Technician edical Solution Sdn. Bhd Seal For Internal Use MUHD RAMADHAN B

Final Verification

QMS State Incharge

Scanned by CamScanner



2 Battery - check/ regisce***

KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist Monitoring Systems, Physiologic

CHECKLIST NO: CL-101-000 **REV.000**

BE CODE 12-636 PART 1 ASSET DETAILS ASSET NO - JIH JHN MOPO72 - PW0366443 WORK ORDER NO MODEL - IPM 10 - MINORAY MANUFACTURER PPM HOURS > 100 FREQUENCY ► 3 MONTHLY () 12 MONTHLY (√) 6 MONTHLY () 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 CALIBRATION DUE ON SERIAL NO ASSET NO DESCRIPTION NO 3218071 SSA 00/0 ELECTRICAL SAFETY ANALYZER PATIENT SIMULATOR /N/BP ANALYZER 3233028 2 TEESA 0186 MA MO OXYGEN SATURATION/PULSE RATESIMULATOR 3 MD 2/10/18 10 TEESA 0186 3231028 Mg NIBPANALYZER / NIBP ANALYZER PART 4 QUALITATIVE TASKS Tick (V) where appropriate NA FAIL PASS NA PASS FAIL () () () 8 Fittings/ Connectors - check all (/)()() 1 Chassis - verify physical integrity, fittings/connectors cleanliness and condition) 9 Controls/Switches - verify proper -)()(2 Mount/ Fasteners - verify physical operation of controls integrity) 10 Indicators/ Displays - verify illumination and) (3 Cables - verify integrity) () (operation) () 11 Alarms - verify proper operation and) () (4 AC Plug - verify integrity) (automatic activation) 12 Cuff & hose - verify connectivity and) (5 Power Cord - verify proper insulation and V) () (physical integrity integrity) () 13 ECG cable - verify physical integrity,) () (6 Strain Relief - verify physical integrity at) (connection and proper operation both ends of line cord) () 14 SPO² probe - verify proper operation ()()(Circuit Breaker/ Fuse - verify integrity of -) (and condition external circuit breaker and/or rating of PART 5 PREVENTIVE MAINTENANCE TASKS Tick (V) where appropriate NOT DONE DONE 1 Clean the exterior and interior of the) (equipment

) (

) 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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MEET Planned Preventive Maintenance Checklist

CHECKLIST NO: CL-101-0 REV.000

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WORK	ORDER NO >	PWD 36644	3					
PART 6	QUANTITATIVE TAS		THE PARTY		THE RE			
Tick (V)	where appropriate		ALAIN CONTRACTOR INCOME.					The state of
No		Description	Units /	Set Values	Measured Values	Limit/Tolerance	PASS	FAIL NA
1	NIBP Pressure (Syst	olic/Diastolic)	mmHg	80	80	75-85	5	() ()
				50	50	45 - 55	(/)	() ()
12			mmHg	120	120	115 - 125	4)	() ()
				70	70	65 - 75	1	() ()
			mmHg	200	200	195 - 205	()	() ()
				150	158	145 - 155	4)	() ()
								1-11-11
2	Heart Rate Accuracy		bpm	30	30	29 - 31	1	() ()
			bpm	60	40	59 - 61	()	() ()
			bpm	120	126	118 - 122		() ()
	331 37	Land State of the						I Fills
3	SpO2 Accuracy	E Più	%	80	80	78 - 82	(1)	() ()
		1 1 1 1 1 1 1	%	90	90	88 - 92	()	() ()
	Constitution of		%	98	98	96 - 100	(/)	() ()
		N	A					
wo	CO	PRECTIVE MAINTENANCE RE	QUIRED	Z	FUNCTIONIN		NOT FUNCTIONIN	
	MOHAMAC	SAFWAN BIN ROS medical Technician Medical Solution Sdn.	LAN	ning to the	e intended pur	rpose		

Test Setup

DUT Information

Operator ID :

 Calibration Tech :
 MOHANA

 Calibration Date :
 24/08/2018

 Firmware Version :
 2.08.01

 Serial Number :
 3218071

Date & Time : JOB Name : 10/07/2018 & 02:15pm

Equipment Number : JHNMOP072

Serial Number : Manufacturer : Model :

Location :KK SUNGAI RENGIT

Other:

Template Information

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

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

PLC Configuration-Applied part setup

AP Name AP Type AP Num

ESA615 Test Results

Value High Limits	Low Limit	s Status
0.361 Ohn	0.2 -	F
		Р
49.0 MOhi -		Р
999 MOhn -		P
		Р
259.5 V -		P
5,4 V -		P
254.0 V -		P
0.0 A		P
		Р
50.6 uA-O	500 -	P
58.9 uA-O	1000 -	Р
27.4 uA-O	1000 -	Р
15.4 uA-O	500 -	P
		P
0.6 uA-OPI	100 -	P
1.1 uA-OP	500 -	P
0.7 uA-OPI	500 -	P
	500 -	Р
	100 -	P
0.7 uA-OPI	500 -	Р
	0.361 Ohn 49.0 MOhi - 999 MOhn - 259.5 V - 5.4 V - 254.0 V - 0.0 A - 50.6 uA-Ol 58.9 uA-Ol 27.4 uA-Ol 15.4 uA-Ol 0.6 uA-OPl 0.7 uA-OPl 0.7 uA-OPl 0.7 uA-OPl 0.6 uA-OPl	0.361 Ohn

