Form B03





Format Ref: - QMS/TSD-022 Rev.01

Work Order No.	PWO371597	Schedul	le Month	June 2018					
Work Order Date	01/06/2018		ted Date	13-01-7018					
Clinic Name	Klinik Kesihatan Pesta / Kampung Ken.	Clinic C		JHR015					
BE No.	JHNMOP050	Distict	000	BATU PAHAT					
20000000000000000000000000000000000000	Monitoring Systems, Physiologic	WO Ass	igned to	MUHD SHADRUL.					
BE Category		WO A55	Purchase	√ New	3200				
Ownership	Existing Equipment			V New					
BE Condition	Active (PM)	BER Proposed Third Party Calibration (TBC)							
Work Order Type Preventive Maintenance (PM)			Third Party Calibration (TPC)						
	Routine Inspection (RI)		Statutory Certificat	ion (SC)					
Reschedule Date									
BE Third Party Calibra	tion / Statutory Certification Details								
Company Name	NA	Cal / Ce	ert Date						
Contact Number		Cal / Ce	ert Expiry Date	/					
Action Taken	•								
PM / RI job	done as per checklist. Unit tested functioning go	od & ready	y to use.	Manufacturer:					
	Maintenance / Breakdown			Modal :					
BE Sticker Availability : Yes / NA			Serial No :						
Remarks:									
Remarks.									
Schedule Maintenanc	e Execution Details								
SI No	QMS Engineer / Technician Name		Date	Start Time	End Time				
	MUHD SHADRUL .		13-00-7018	14:05	15:05				
	~ <u>*</u>		¥1						
	P		¥/						
Customer Remarks			8						
A/A				1					
Engineer / Technician Si	natura	Custome	er Signature	(All					
Name		Name		Hazirah Necey Abd Pendaftaran Penuh:	ullah 54451)				
Date	13 06 2018	Designa	IION	/ Infiltawal UZS					
Date	// //								
	March	Date	J. S.	Kg. Kenangan Dato	Onn				
QUANTUM M MUHAMMAD SHAZ	March	Date Seal	للحل المحالي	(Kg. Kenangan Dato	Onn				

For Internal Use

First Verification QMS Circle Incharge Biomedical Engineer (Circle In-Charge) Quantum Medical Solutions Sdn. Bhd.

Final Verification QMS State Incharge

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KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist Monitoring Systems, Physiologic

BE CODE : 12-636

CHECKLIST NO: CL-101-000 REV.000

PAR	T1 ASSET DETAILS													
WOR	K ORDER NO PWO	385 E	37159	7						ASSET NO	PM .	WOD	050	5
MANU	JFACTURER - Minc	Iray.								MODEL	+imp	٥		
FREC	QUENCY ► 3 MON	ITHLY () 6	MON	ITHLY	()		12 MONTHLY	(√)	PPM HOURS	▶ 1.00			
PAR	T 2 SPECIAL PRECAUTION				300	1								
If ther	e is evidence of body fluid cont	amination,	submit the	device	e for c	leaning	and	decontaminatio	n before insp	ecting it.				
Wear	appropriate Personnel Protect	ion Equipm	ent (PPE)	during	work	8								
Wear	grounded electrostatic wristba	nd when ha	ndling PCE	3 or el	ectror	nic com	oone	nts.						
Refer	to the safety procedure for add	litional prec	autions an	d guid	lance	as per i	nanı	ıfacturer guidelir	nes.					
Make	sure the test equipment used	are duly cal	ibrated.											
PAR	T 3 TEST APPARATUS													
Tick (√) where appropriate									Handroom School		200220120202020	*****************	
NC	ASSET NO			DES	SCRI	PTION			SE	ERIAL NO	CALIE	RATIO	ON DUE	ON
1	TEESA 0074	ELECT	RICAL SAF	ETY A	ANAL	YZER			322	6906	10	/n/	2018	3
2	TEESA OUTA	PATIEN	T SIMULAT	ГOR					32	33078 SEdoe	10	10/12/2018		
3	TEESAO 186	OXYGE	N SATURA	TION	/PULS	SE RAT	ESIN	MULATOR	32	1330>8	1	0/1	2/1	8
4	TEESA 0186	NIBP AN	NALYZER						373:	3028	lo	112	2018	3
PAR	T 4 QUALITATIVE TASKS							elegrates bu						
Tick (√) where appropriate													V.0.116
			PASS	FAI	IL	NA					PASS	FAII	L N	A
	Chassis - verify physical integri cleanliness and condition	ty,	(/)	() ()	8	Fittings/ Connectittings/connecti		k all	()	() (
	Mount/ Fasteners - verify physi integrity	cal	(/)	() (()	9	Controls/Switco		roper	()	() (2
	Cables - verify integrity		(/)	() (()	10		splays - verify	illumination and	(() (.57 18
								operation		-Vd	, ,	,	\	
4 /	AC Plug - verify integrity		(//)	() (,)	11	Alarms - verify automatic acti		ation and	()	() (
	Power Cord - verify proper insuintegrity	lation and	(/)	() (()	12	Cuff & hose -		tivity and	()	() (
	Strain Relief - verify physical in both ends of line cord	ntegrity at	(/)	() (()	13	ECG cable - v			(() (
	Circuit Breaker/ Fuse - verify in external circuit breaker and/or external fuse		(/)	() (()	14	SPO² probe - and condition	verify proper	operation	(() (6
PAR	T 5 PREVENTIVE MAINTEN	ANCE TAS	KS											
Tick ($(\sqrt{\ })$ where appropriate													
			DONE	00 100	NE	NA								
	Clean the exterior and interior equipment	of the	(//)) (
2	Battery - check/ replace***		(/)	() (No	**If you h		defined as NOT and a second se				



KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist Monitoring Systems, Physiologic BE CODE: 12-636

CHECKLIST NO: CL-101-000 REV.000

WORK ORDER NO >

No	where appropriate Description	Units / UOM	Set Values	Measured Values	Limit/Tolerance	PASS FAIL NA
1	NIBP Pressure (Systolic/Diastolic)		80	₹ 80	75-85	(/) () (
		mmHg	50	50	45 - 55	(/) () (
			120	120	115 - 125	(/) () (
		mmHg	70	70	65 - 75	(/) () (
			200	200	195 - 205	(/) () (
		mmHg	150	150	145 - 155	(/) () (
2	Heart Rate Accuracy	bpm	30	30	29 - 31	(/) () (
C-00 -8100		bpm	60	60	59 - 61	(/) () (
		bpm	120	120	118 - 122	(/) () (
				80	70.00	
3	SpO2 Accuracy	%	80	90	78 - 82	(/) () (
		%	90	98	88 - 92	(/) () (
		%	98	10	96 - 100	(/) () (
ECTI k (√, Stai	ELECTRICAL SAFETY TEST RICAL SAFETY TEST, (attach report) where appropriate and use: IEC 60601	☑ IEC 62353		۵	Result: PASS	FAIL NA
ECTI ck (√, Stai	RICAL SAFETY TEST, (attach report)) where appropriate ndard use: □ IEC 60601 □ IEC 61010	IEC 62353			PASS - F	FAIL NA
ECTI ck (√, Stai	RICAL SAFETY TEST, (attach report)) where appropriate ndard use: □ IEC 60601 □ IEC 61010	IEC 62353			PASS - F	FAIL NA
LECTI ck (√ Stai	RICAL SAFETY TEST, (attach report)) where appropriate ndard use: □ IEC 60601 □ IEC 61010		A		PASS - F	FAIL NA
LECTI ck (√ Stai	RICAL SAFETY TEST, (attach report)) where appropriate ndard use: □ IEC 60601 □ IEC 61010	IEC 62353	A		PASS - F	FAIL NA
LECTI ck (√ Stai	RICAL SAFETY TEST, (attach report)) where appropriate ndard use: □ IEC 60601 □ IEC 61010		A		PASS - F	FAIL NA
LECTI ck (√ Stai	RICAL SAFETY TEST, (attach report)) where appropriate ndard use: □ IEC 60601 □ IEC 61010		A		PASS - F	FAIL NA
.ECTI ck (√, Stai	RICAL SAFETY TEST, (attach report)) where appropriate ndard use: □ IEC 60601 □ IEC 61010		A		PASS - F	FAIL NA
.ECTI ck (√, Stai	RICAL SAFETY TEST, (attach report)) where appropriate ndard use: □ IEC 60601 □ IEC 61010	N	A		PASS F	FAIL NA
ECTI ck (V) Star	RICAL SAFETY TEST, (attach report) where appropriate adard use: IEC 60601	N	A		PASS F	NOT FUNCTIONING
ECTI Star Star	RICAL SAFETY TEST, (attach report) where appropriate adard use: IEC 60601	N	A		PASS F	
ECT! Star	RICAL SAFETY TEST, (attach report) where appropriate adard use: IEC 60601	QUIRED	Z	FUNCTIONII	PASS F	NOT FUNCTIONING
ECT! k (V) Star	RICAL SAFETY TEST, (attach report) where appropriate adard use: IEC 60601	QUIRED	Z	FUNCTIONII	PASS F	NOT FUNCTIONING

Test Setup

DUT Information

Operator ID:

Equipment Number: JHNMOP050

Calibration Tech:

DINA

Serial Number:

Calibration Date:

9/10/2017

Manufacturer:

MINDRAY

Firmware Version:

2.08.01

Model:

iPM10

Serial Number:

3226906

Location:

Date & Time:

06/13/2018 & 14:17

Other:

KK PESTA

JOB Name:

Template Information

Template Name:

JHNMOP050

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:

Halt on Test Failure: YES

Multi PE Test:

NO

AUTO

1

Include Time:

YES

Multi Resstore:

WORST/LAST

Insulation Resistance \ 500V

Reverse Polarity:

YES

Multi Enclosure Test: NO

Classification:

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	0.593 Ohm	0.2 -	F
Insulation Resistance			Р
Mains to Protective Earth	999 MOhn		Р
Mains to Non-Earth Accessible Conductive Par	999 MOhn		P
Mains Voltage			Р
Live to Neutral	248.1 V		Р
Neutral to Earth	1.8 V	.aa.	Р
Live to Earth	247.6 V		Р
Equipment Current	0.0 A		Р
Earth Leakage Current			Р
Normal Condition	15.0 uA-OI	500 -	Р
Open Neutral	29.5 uA-OI	1000 -	Р
Open Neutral- Reversed Mains	29.7 uA-OI	1000 -	Р
Normal Condition- Reversed Mains	15.1 uA-OI	500 -	Р
Enclosure Leakage Current			Р



Normal Condition	0.1 uA-OPI	100 -	Р
Open Earth	15.0 uA-Ol	500 -	Р
Open Neutral	0.1 uA-OPI	500 -	Р
Open Neutral- Reversed Mains	0.2 uA-OPI	500 -	Р
Normal Condition- Reversed Mains	0.1 uA-OPI	100 -	Р
Open Earth- Reversed Mains	15.1 uA-OI	500 -	Р

Signature

