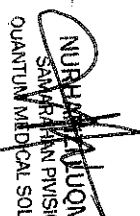




Quantum Medical Solutions sdn bhd
Extending knowledge, transforming life


PPM 2018

No.	Ref Number	BE Category	Manufacturer	Model	Client Code	Client Name	Client Category	Site	District	SA Type	Test Equipment	PPM	Inv. No.	PPM Completion Date	PPM Completion Time	Remarks	Assign to	
1	SYM0003515	Staffing Unit, Salem	ESCOPIAN	Ses 2000	SYM0004	Klinik Puspa Sari Sdn Bhd, Kompleks Dato' Tuan D.	PEROGAN	SERAWAK	SARAWAK	ENCO	Pre-SC	Team	2	X	23/11/18	0920	PPM DONE	BERNABEZ NUR HUDA


NUR HAFIZ MAN
SARAWAK PIVISION
QUANTUM MEDICAL SOLUTIONS

23 NOV 2018

*Please make a copy after acknowledgement.

Acknowledge By: 
Designation: FARIDAH RADUAN
Signature: Juruterapi Pergigian US27BK (S)
Date: 23/10/2018

Form B04

Scheduled Maintenance Notification Form



Quantum Medical Solutions
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To:
PKB/PPB:
District: | samarahan
State: SARAWAK

From: Quantum Medical Solutions
State: SARAWAK
Zone:

Format Ref.-QMS/TSD-004 Rev.00

Schedule Maintenance

Dear Sir/ Madam,

Attached list of equipment scheduled for : PPM

Clinic Name:

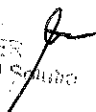

Month: Nov-18

Klinik Pergigian Sekolah Rendah
Kebangsaan Dato' Traoh Di Pejabat
Pergigian Daerah Samarahan

Clinic Code: SWK424

NO	BE Number	BE Category	Schedule Maintenance Type
1	SWK003615	Sterilizing Units, Steam	PPM
2			PPM
3			PPM
4			PPM
5			PPM
6			PPM
7			PPM
8			PPM
9			PPM
10			PPM
11			PPM
12			PPM
13			PPM
14			PPM
15			PPM
16			PPM
17			PPM
18			PPM
19			PPM

Thank You,

QMS State In-charge Signature:  Name: JOINTUS N. LATE MANAGER Date: 01 NOV 2018	Acknowledged by - PKB/PPB Signature:  Name: FARIDAH RADUAN Date: 12/11/2018
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Legend

PM - Preventive Maintenance; RI - Routine Inspection; TPC - Third Party Calibration; SC - Statutory Certification; BE - Biomedical Equipment.

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.	PWO377862	Schedule Month	November 2018
Work Order Date	01/11/2018	Completed Date	23 NOV 2018
Clinic Name	Klinik Pergigian Sekolah Rendah Keba	Clinic Code	SWK424
BE No.	SWK003615	Distict	SAMARAHAN
BE Category	Sterilizing Units, Steam	WO Assigned to	Nurhafizi Luqman
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	
-----------------	--

BE Third Party Calibration / Statutory Certification Details			
Company Name		Cal / Cert Date	
Contact Number		Cal / Cert Expiry Date	
Action Taken			
<p>Perform PPM task</p> <p>ppm done</p>			

Schedule Maintenance Execution Details				
SI No	QMS Engineer / Technician Name	Date	Start Time	End Time
QB50200	NURHAFIZI LUQMAN SAMARAHAN DIVISION QUANTUM MEDICAL SOLUTIONS	23 NOV 2018	0830	0930

Customer Remarks

Engineer / Technician Signature Name NURHAFIZI LUQMAN Date 23 NOV 2018 SAMARAHAN DIVISION QUANTUM MEDICAL SOLUTIONS	Customer Signature Name FARIDAH RADUAN Designation Juruterapi Pergigian U32(TBK13) Date 23/10/2018 Seal
--	---

For Internal Use

First Verification
QMS Circle Incharge

Final Verification
QMS State Incharge



KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist
Sterilizing units, Steam
BE CODE : 13-746

CHECKLIST NO: CL-148-000
REV.001

PART 1 ASSET DETAILS

WORK ORDER NO ▶ PWO377862 ASSET NO ▶ SWR003615
MANUFACTURER ▶ GENERAL (Eschmann) MODEL ▶ GENERAL (ser 2000)
FREQUENCY ▶ 3 MONTHLY () 6 MONTHLY (/) 12 MONTHLY () PPM HOURS ▶ 1 HOUR

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
		DIGITAL TEMPERATURE METER		
		DIGITAL PRESSURE METER		
	TRFPA0170	ELECTRICAL SAFETY TEST	3246033	11-10-19

PART 4 QUALITATIVE TASKS

Tick (✓) where appropriate

	PASS	FAIL	NA		PASS	FAIL	NA
1 Chassis - verify physical integrity, cleanliness and condition	(/)	()	()	10 Over pressure cut of valve - Verify physical integrity	(/)	()	()
2 Power Cord - verify proper insulation and integrity	(/)	()	()	11 Door lock - Verify physical integrity	(/)	()	()
3 Strain Relief - verify physical integrity at both ends of line cord	(/)	()	()	12 Door gasket Verify physical integrity	(/)	()	()
4 Fittings/ Connectors - check all fittings/connectors	(/)	()	()	13 Check water tank leak	(/)	()	()
5 Controls/Switches - verify proper operation of controls	(/)	()	()	14 Check drain valve -Physical integrity	(/)	()	()
6 Indicators/ Displays - verify proper illumination and operation	(/)	()	()	15 Check label	(/)	()	()
7 Check fuse, circuit breaker	(/)	()	()	16 Check demineralisation and sensor (if available)	(/)	()	()
8 Heater - verify physical integrity	(/)	()	()	17 Check automatic water filling (if available)	(/)	()	()
9 Chamber - verify physical integrity (scaling, rusting, pitting or impurities)	(/)	()	()	18 Replace Bacteria/Air Sterilization Filter	()	()	(/)

PART 5 PREVENTIVE MAINTENANCE TASKS

Tick (✓) where appropriate

	DONE	NOT DONE **	NA		DONE	NOT DONE **	NA
1 Clean exterior and interior of the equipment	(/)	()	()	4 Lubricate all moving parts	()	()	(/)
2 Check / replace gasket ***	(/)	()	()				
3 Check/ clean solenoids	(/)	()	()				

Notes:

* For all Parts, NA is defined as NOT APPLICABLE

** If you have ticked 'NOT DONE', then justify in Part 8

*** Choose Whichever Applicable

**KEMENTERIAN KESIHATAN MALAYSIA**

MEET Planned Preventive Maintenance Checklist
Sterilizing units, Steam
BE CODE : 13-746

CHECKLIST NO:CL-146-000 REV.001

WORK Order No

► PW0377862

PART 6: SERVICE CHECKLIST

No	Description	Checked	Service/ Clean	Replaced	Not Applicable	No	Description	Checked	Service/ Clean	Replaced	Not Applicable
1	Fuses	(/)	()	()	()	16	Discharge Valve	(/)	()	()	()
2	Main Control Board	(/)	()	()	()	17	Infill Valve	(/)	()	()	()
3	Control Board	(/)	()	()	()	18	Heating Element	(/)	()	()	()
4	Fan Running Rear & Side	()	()	()	(/)	19	Heat Exchanger/Cooling system (if applicable)	(/)	()	()	()
5	Water Reservoir Float Switch/Water Level Sensor	(/)	()	()	()	20	Vacuum Pump	()	()	()	(/)
6	Water Reservoir	(/)	()	()	()	21	Door Gasket	(/)	()	()	()
7	Electric Door Lock	(/)	()	()	()	22	Chamber Guard Seal (if applicable)	(/)	()	()	()
8	Pressure Door Lock	(/)	()	()	()	23	Solid State Relay	(/)	()	()	()
9	Discharge Door Lock	(/)	()	()	()	24	Thermostat Assembly	(/)	()	()	()
10	Pressure Transducer	(/)	()	()	()	25	Temperature Sensor	(/)	()	()	()
11	Pressure Gauge	(/)	()	()	()	26	Thermal Printer (if applicable)	()	()	()	(/)
12	Safety Valve	(/)	()	()	()	27	Vacuum Pump (if applicable)	()	()	()	(/)
13	Air Valve/Steam Solenoid Valve	(/)	()	()	()	28	Filters / strainer	(/)	()	()	()
14	Air Valve/Steam Solenoid Valve	(/)	()	()	()						
15	Air Valve/Steam Solenoid Valve	(/)	()	()	()						

PART 7: Technician Remarks



KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist
Sterilizing units, Steam
BE CODE : 13-748

CHECKLIST NO: CL-148-000
REV.001

WORK ORDER NO ▶ PWD377862

PART 8 QUANTITATIVE TASKS

Tick (✓) where appropriate

No	Description	Units / UOM	Set Values	Measured Values	Limit/Tolerance	PASS	FAIL	NA
1	Temperature reading	°C		135.5	134-137 121-124	(/)	()	()
2	Pressure reading	bar		2.3	2.03-2.32 1.03-1.23	(/)	()	()
3	Electrical Supply Voltage	V		refer to EST	Refer to nameplate	(/)	()	()
4	Electrical Power	kW		refer to EST	Refer to nameplate	(/)	()	()

PART 9 ELECTRICAL SAFETY TEST

ELECTRICAL SAFETY TEST, (attach report)

(In accordance to IEC 60601)

☒ PASS

☐ FAIL

☐ NA

PART 10 NOTES

☐ CORRECTIVE MAINTENANCE REQUIRED

☒ FUNCTIONING

☐ NOT FUNCTIONING

WORK ORDER NO ▶

NEXT PPM DATE ▶ 22/5/19

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

COMPLETED BY
NUR RAFIZI LUQMAN
SAMARAHAN DIVISION
QUANTUM MEDICAL SOLUTIONS

DATE: 23/11/18

Date :23/11/2018

Test Setup

Operator ID : smnbme2
Calibration Tech : NAILAH
Calibration Date : 10-11-18
Firmware Version : 2.08.01
Serial Number : 3246053
Date & Time : 23/11/2018 & 08:36
JOB Name :

DUT Information

Equipment Number : SWK003615
Serial Number :
Manufacturer : Eschmann
Model : SES 2000
Location : SRK DATO TRAOH
Other :

Template Information

Template Name : Test Sequence-SUS
Pause after Power ON: NO
Power ON delay: 2
Test Speed: NORMAL
Halt on Test Failure: YES
Include Time: YES
Insulation Resistance $\geq 500V$
Multi Enclosure Test : NO

Standard : IEC60601-1-3rd 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: 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	0.178 Ohm	0.2	-	P
Insulation Resistance				P
Mains to Protective Earth	17.4 MOhm	-	-	P
Mains to Non-Earth Accessible Conductive Part	999 MOhm	-	-	P
Mains Voltage				P
Live to Neutral	240.1 V	-	-	P
Neutral to Earth	0.6 V	-	-	P
Live to Earth	239.7 V	-	-	P
Equipment Current	0.1 A	-	-	P
Earth Leakage Current				P
Normal Condition	39.4 uA-OI	5000	-	P
Open Neutral	113.9 uA-C	10000	-	P
Open Neutral- Reversed Mains	113.7 uA-C	10000	-	P
Normal Condition- Reversed Mains	75.2 uA-OI	5000	-	P
Enclosure Leakage Current				P
Normal Condition	0.6 uA-OPI	100	-	P
Open Earth	0.7 uA-OPI	500	-	P
Open Neutral	1.2 uA-OPI	500	-	P
Open Neutral- Reversed Mains	1.3 uA-OPI	500	-	P
Normal Condition- Reversed Mains	0.8 uA-OPI	100	-	P
Open Earth- Reversed Mains	1.4 uA-OPI	500	-	P

NURHAZZI LUOMAN
SARAWAK DIVISION
QUANTUM MEDICAL SOLUTIONS
Signature

