

Form B03

Scheduled Maintenance Work Order

CLOSE

Quantum Medical Solutions sdn bhd
transcending boundaries, transforming life

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

Work Order No.	PWO365245	Schedule Month	June 2018
Work Order Date	01/06/2018	Completed Date	24/6/18
Clinic Name	Klinik Pergigian Di Klinik Kesihatan Bul	Clinic Code	JHR553
BE No.	JHR003381	Distict	LEDANG
BE Category	Sterilizing Units, Portable	WO Assigned to	Rabeah
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	
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3E Third Party Calibration / Statutory Certification Details

Company Name	N/A	Cal / Cert Date	N/A
Contact Number	N/A	Cal / Cert Expiry Date	N/A

Action Taken



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

Manufacturer: Seicqu

Corrective Maintenance / ☐ Breakdown

Modal: Station 2000

BE Sticker Availability: ☒ Yes / ☐ NA

Serial No: 116309200018

Remarks: pm done as per checklist

Schedule Maintenance Execution Details

SI No	QMS Engineer / Technician Name	Date	Start Time	End Time
	Rabeah	24/6/18	11:00	12:00

Customer Remarks

Engineer / Technician Signature	Customer Signature
Name	Name
Date	Date
	Designation
	Date
	Seal

NUR RABEAH BINTI AZMAN
Quantum Medical Solution Sdn. Bhd.
Technical Service Department
Tel: 012-3968095

24 JUN 2018
DR. ADIBAH IZZATY AZIT
MDC: 7836
PEGAWAI PERGIGIAN UG44

For Internal Use

First Verification
QMS Circle Incharge

slr
NUR RABEAH BINTI AZMAN
Biomedical Engineering
Quantum Medical Solutions
Tel: 012-3967638

Final Verification
QMS State Incharge



KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist
Sterilizing units, Portable
BE CODE : DE-031

CHECKLIST NO: CL-147-000
REV.001

PART 1 ASSET DETAILS

WORK ORDER NO ▶ *PPM* ASSET NO ▶ *JHR 0038*
MANUFACTURER ▶ *Gigan* MODEL ▶ *Station 200E*
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
1)	<i>TEESA 0025</i>	DIGITAL TEMPERATURE PROBE	<i>29520201WS</i>	<i>26/12/2018</i>
2)	<i>TEESA 0333</i>	DIGITAL PRESSURE METER	<i>H.3/5545</i>	<i>8/11/18</i>

PART 4 QUALITATIVE TASKS

Tick (✓) where appropriate

	PASS	FAIL	NA		PASS	FAIL	NA
1 Chassis - verify physical integrity, cleanliness and condition	(✓)	()	()	9 Over pressure cut of valve - Verify physical integrity	(✓)	()	()
2 Power Cord - verify proper insulation and integrity	(✓)	()	()	10 Door lock - <i>Cassette</i> Verify physical integrity	(✓)	()	()
3 Strain Relief - verify physical integrity at both ends of line cord	(✓)	()	()	11 Door gasket Verify physical integrity	(✓)	()	()
4 Fittings/ Connectors - check all fittings/connectors	(✓)	()	()	12 Check water tank leak	(✓)	()	()
5 Controls/Switches - verify proper operation of controls	(✓)	()	()	13 Check drain valve -Physical integrity	(✓)	()	()
6 Indicators/ Displays - verify proper illumination and operation	(✓)	()	()	14 Check label	(✓)	()	()
7 Check fuse, circuit breaker	(✓)	()	()	15 Waste Water Reservoir/Bottle - clean & verify integrity	(✓)	()	()
8 Heater - verify physical Integrity	(✓)	()	()				
9 Chamber/Cassette - verify physical integrity (scalling, rusting, pitting or	(✓)	()	()				

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 ***	(✓)	()	()	Notes:			
3 Check/ clean solenoids	()	()	(✓)	* 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

pw 0365245

PART 6 SERVICE CHECKLIST

No	Description	Checked	Service/ Clean	Replaced	Not Applicable	No	Description	Checked	Service/Ci ean	Replaced	Not Applicable
1	Fuses	(/)	()	()	()	16	Chamber Guard Seal (if applicable)	(/)	()	()	()
2	Main Control Board	(/)	()	()	()	17	Solid State Relay (if applicable)	(/)	()	()	()
3	Fan Running Rear & Side applicable) (if	()	()	()	(/)	18	Thermostat Assembly	(/)	()	()	()
4	Clean Water Reservoir	(/)	()	()	()	19	Thermal Printer (if applicable)	()	()	()	(/)
5	Electric Door Lock	(/)	()	()	(/)	20	Vacuum Pump (if applicable)	()	()	()	(/)
6	Pressure Door Lock	()	()	()	(/)	21	Temperature Sensor	(/)	()	()	()
7	Discharge Door Lock	()	()	()	(/)	22	Filters (water tank)	(/)	()	()	()
8	Pressure Transducer	(/)	()	()	()						
9	Pressure Gauge	(/)	()	()	()						
10	Safety Valve	()	()	()	(/)						
11	Air Valve/Steam Solenoid Valve (if applicable)	(/)	()	()	()						
12	Discharge Valve	(/)	()	()	()						
13	Feed Water Valve (if applicable)	()	()	()	(/)						
14	Heating Element	()	()	()	(/)						
15	Door Gasket/Cessette Seal	(/)	()	()	()						

PART 7 Technician Remarks

NA



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PART 8 QUANTITATIVE TASKS

Tick (✓) where appropriate

No	Description	Units / UOM	Set Values	Measured Values	Limit/Tolerance	PASS	FAIL	NA
1	Temperature reading	°C	134 ^{°C}	135 ^{°C}	134-137 121-124	(✓)	()	()
2	Pressure reading - non absolute pressure reading	bar	2.15	2.31	2.03-2.32 1.04-1.24	(✓)	()	()
3	Electrical Supply Voltage	V	240V	refer to EST	Refer to Nameplate	(✓)	()	()
4	Electrical Power/Consumption	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

NA

☐

CORRECTIVE MAINTENANCE REQUIRED

☒

FUNCTIONING

☐

NOT FUNCTIONING

WORK ORDER NO ▶

215

NEXT PPM DATE ▶

2019

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

COMPLETED BY:

W

WITNESSED BY:

DATE :

DATE :

DR ADIBAN IZZATY AZIT
MDC: 7836
PEGAWAI PERGIGIAN UG44

24 JUN 2018

Date :24/6/2018

Test Setup

Operator ID :
Calibration Tech : Nadia
Calibration Date : 25/8/2018
Firmware Version : 2.08.01
Serial Number : 3246911
Date & Time : 24/06/2018 & 11:00am
JOB Name :

DUT Information

Equipment Number : JHR003381
Serial Number : 110309K00018
Manufacturer : SCICAN
Model : STATIM 2000E
Location : KP BKT SERAMPANG
Other :

Template Information

Template Name : 62353-Alt.STRERILIZING UNITS
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 : IEC62353-Direct
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
STRERILIZING	B	

ESA615 Test Results

Test Name	Value	High Limits	Low Limits	Status
Protective Earth Resistance	0.266 Ohm	0.3	-	P
Insulation Resistance				P
Mains to Protective Earth	79.7 MOhm	-	-	P
Mains Voltage				P
Live to Neutral	239.7 V	-	-	P
Neutral to Earth	7.0 V	-	-	P
Live to Earth	240.3 V	-	-	P
Equipment Current	0.3 A	-	-	P
Direct Equipment Leakage				P
Open Earth	39.6 uA	500	-	P
Open Earth- Reversed Mains	57.1 uA	500	-	P

