

## 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.	PWO365291	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.	JHR005223	Distict	LEDANG
BE Category	STERILIZING UNITS, PORTABLE	WO Assigned to	ZAIDIE
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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<b>BE Third Party Calibration / Statutory Certification Details</b>			
Company Name	-	Cal / Cert Date	-
Contact Number	-	Cal / Cert Expiry Date	-
<b>Action Taken</b>			
<input checked="" type="checkbox"/> PM / RI job done as per checklist. Unit tested functioning good & ready to use.		Manufacturer: Scican	
<input checked="" type="checkbox"/> Corrective Maintenance / <input type="checkbox"/> Breakdown		Modal: Statim 2000R	
BE Sticker Availability: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> NA		Serial No: 1103/3D 00006	
Remarks:			

<b>Schedule Maintenance Execution Details</b>				
SI No	QMS Engineer / Technician Name	Date	Start Time	End Time
1)	ZAIDIE	24.6.18	12.00	13.00

Customer Remarks	
Engineer / Technician Signature Name Date  MUHD ZAIDIE BIN HALIL Technical Service Department Quantum Medical Solution Sdn. Bhd	Customer Signature Name Designation Date Seal  DR. ADIBAH IZZATY AZIT MDC : 7836 PEGAWAI PERGIGIAN UG44 24 JUN 2018

For Internal Use

First Verification

QMS Circle Incharge

MUHD ZAIDIE BIN HALIL  
 Biomedical Engineering  
 Quantum Medical Solutions  
 HP: 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 ▶ PWO 365291 ASSET NO ▶ JHR005223  
MANUFACTURER ▶ Saican MODEL ▶ Steam 2000E  
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.	TEESA 0025	DIGITAL TEMPERATURE PROBE	29520201WS	26/12/2018
2.	TEESA 0338	DIGITAL PRESSURE METER	H-315545	8/11/2018

## 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 - 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

► PWO 365291

## 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	( / )	( )	( )	( )
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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CHECKLIST NO: CL-147-000  
REV.001

WORK ORDER NO ▶ PW0365291

## 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	136.4	134-137 121-124	(✓)	( )	( )
2	Pressure reading - non absolute pressure reading	bar	2.17	2.17	2.03-2.32 1.04-1.24	(✓)	( )	( )
3	Electrical Supply Voltage	V		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 ▶ \_\_\_\_\_

NEXT PPM DATE ▶ 12/18

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

COMPLETED BY:

WITNESSED BY:

MUHD ZAIDIE BIN HALIL  
Technical Service Department  
Quantum Medical Solution Sdn. Bhd.

DATE :

DATE :



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 & 12:00 P.M  
JOB Name :

## DUT Information

Equipment Number : JHR 005223  
Serial Number : 110313D00006  
Manufacturer : SCICAN  
Model : STATIM 2000E  
Location : KP BUKIT SERAMPANG  
Other :

## Template Information

Template Name : 62353-Alt.STERILIZING  
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

## ESA615 Test Results

Test Name	Value	High Limits	Low Limits	Status
Protective Earth Resistance	0.218 Ohm	0.3	-	P
Insulation Resistance				P
Mains to Protective Earth	38.9 MOhm	-	-	P
Mains Voltage				P
Live to Neutral	240.9 V	-	-	P
Neutral to Earth	3.6 V	-	-	P
Live to Earth	239.8 V	-	-	P
Equipment Current	0.4 A	-	-	P
Direct Equipment Leakage				P
Open Earth	33.3 uA	500	-	P
Open Earth- Reversed Mains	56.8 uA	500	-	P

