

# Form B03

## Scheduled Maintenance Work Order

kp b.s / gersi



Quantum Medical Solutions sdn bhd  
transcending boundaries, transforming life

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

Work Order No.	PWO365115	Schedule Month	June 2018
Work Order Date	01/06/2018	Completed Date	24/6/18
Clinic Name	Klinik Pergigian Di Klinik Kesihatan Sur	Clinic Code	JHR549
BE No.	JHR023417	Distict	LEDANG
BE Category	STERILIZING UNITS, STEAM	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 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>3E 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: Eschmann	
<input checked="" type="checkbox"/> Corrective Maintenance / <input type="checkbox"/> Breakdown		Modal: SES 2000	
BE Sticker Availability: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> NA		Serial No: 14/0210	
Remarks:			

<b>Schedule Maintenance Execution Details</b>				
SI No	QMS Engineer / Technician Name	Date	Start Time	End Time
1	Rabeah	24/6/18	11.30	12.30

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

For Internal Use

First Verification

QMS Circle Incharge

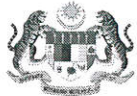
Final Verification

QMS State Incharge

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

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





# 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 ▶ PW0865115 ASSET NO ▶ JHR 025417  
MANUFACTURER ▶ GENERAL (EJHMANV) MODEL ▶ GENERAL (JHR 025417)  
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 METER	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	(✓)	( )	( )	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 (scalling, 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 ***	(✓)	( )	( )	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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CHECKLIST NO:CL-148-000 REV.001

WORK Order No

► PWO 365/15

## 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

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WORK ORDER NO ▶

## 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	bar	2.10	2.11	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

-- Asset Berada di KP Bukit Serampang.

☐ CORRECTIVE MAINTENANCE REQUIRED

☒ FUNCTIONING

☐ NOT FUNCTIONING

WORK ORDER NO ▶

NEXT PPM DATE ▶ 12/2018

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

COMPLETED BY:

WITNESSED BY USER:

DATE :

DATE :

24 JUN 2018  
DR. ADIBAH IZZATY AZIZ  
MDC : 7836  
PEGAWAI PERGIGIAN UG1



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 & 11:30 A.M  
JOB Name :

### DUT Information

Equipment Number : JHR 023417  
Serial Number : 1410210  
Manufacturer : ESCHMANN  
Model : SES 2000  
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	0.278 Ohm	0.3	-	P
Insulation Resistance				P
Mains to Protective Earth	72.1 MOhm	-	-	P
Mains Voltage				P
Live to Neutral	241.0 V	-	-	P
Neutral to Earth	2.3 V	-	-	P
Live to Earth	240.3 V	-	-	P
Equipment Current	0.3 A	-	-	P
Direct Equipment Leakage				P
Open Earth	29.3 uA	500	-	P
Open Earth- Reversed Mains	42.9 uA	500	-	P

