Form B03 **Scheduled Maintenance Work Order**





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

Work Order No.	PWO365255	Schedu								
Work Order Date	01/06/2018	Comple	ted Date	20.6.18						
Clinic Name	Klinik Pergigian Di Klinik Kesihatan Su	Clinic C	ode	JHR549						
BE No.	JHR003136	Distict		LEDANG						
BE Category	Sterilizing Units, Steam	WO Ass	igned to	IZUAN						
Ownership	✓ Existing Equipment		Purchase							
BE Condition	✓ Active	BER Proposed								
	Preventive Maintenance (PM)	Third Party Calibration (TPC)								
Work Order Type	Routine Inspection (RI) Statutory Certific									
Reschedule Date										
∃E Third Party Calibra	ation / Statutory Certification Details									
Company Name	2	Cal / Ce	ert Date	~						
Contact Number	<u>.</u>	Cal / Ce	al / Cert Expiry Date —							
	done as per checklist. Unit tested functioning go Maintenance / Breakdown Availability: Yes / NA	ood & read	y to use.	Manufacturer: SAD Modal: SAD Serial No: MA	60ma 080229004.					
Schedule Maintenanc	e Execution Details									
SI No	QMS Engineer / Technician Name		Date	Start Time	End Time					
)	124AN		30.6.18	(0.00	11.00					
Customer Remarks										
Engineer / Technician Si Name / Jun N Date	gnature Tachnical Serivce Department antum Medical Solution Sdn. Bhd.	Custome Name Designat Date Seal	er Signature tion AZLE JURUTE KLINIK	EYNOLOGI ERGIGIAN PERGIGIAN : PGA	U29					
For Internal Lise										

First Verification QMS Circle Incharge

Final Verification QMS State Incharge

MOED SHAIFUDIN BIN SINII. Biomedical Engineering Quantum Medical Solutions HrP: 012-3967638



KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist

Sterlizing units, Steam

BE CODE: 13-746

laintenance Checklist CHECKLIST NO:CL-148-000 REV.001

PART 1	ASSET DETAILS															
WORK	ORDER NO ▶ P	W03	365 25	55							ASSET NO	▶ €	JHRC	003	130	3
MANUF	ACTURER ►	GENERA	AL								MODEL	•	GENER	AL		
FREQUI	ENCY ►	3 MONT	HLY () 6	MONTH	HLY	(/))	12 MONTHLY	()	PPM HOURS	•	1 HOUR	į.		
	SPECIAL PRECAU															
	s evidence of body flu							ng and	decontaminatio	n before ins	pecting it.	-				1000000
	opropriate Personnel F			2												
200 EI W	ounded electrostatic v							76								
	the safety procedure ire the test equipment		e vi ra		ia guiuu	ince	as her	Manu	Ifacturer guideni	ies.						
187 5 97 1 27	TEST APPARATUS			714.5												
Fick (√)	where appropriate															
NO	ASSET NO)			DES	CRI	IPTION			S	ERIAL NO		CALIE	3RATI	ON D	UE ON
1)	765AC029	5	DIGITAL	TEMPER	(ATURE	Ξ ME	ETER			2953	2020145	2	20	3/1	2/5	2018
2)	TELSA 0331	ව	DIGITAL	PRESSU	JRE ME	TEF	3			H 31	5545		છ	/ ii	15	2018
											Manufacture and the second sec			(,	
PART 4	QUALITATIVE TAS	SKS														
- Maridi	where appropriate							T								
	2000 mm	on 152		PASS	FAIL		NA		W. 2				PASS	FA		NA
	assis - verify physical anliness and condition			()	() (.)) 10	Over pressure of integrity	cut of valve	· Verify physical		(/)	()	()
	ver Cord - verify prope I integrity	er insulati	on	(/)	() (()) 11	Door lock - Veri	ify physical i	ntegrity		(/)	()	()
	ain Relief - verify phys ooth ends of line cord		rity	(/)	() (()) 12	Door gasket Ve	erify physical	integrity		(/)	() (()
	ngs/ Connectors - che	eck all		(/)	() (()) 13	Check water tar	nk leak			(/)	() (()
	ntrols/Switches - verify ration of controls	y proper		(/)	() (.)) 14	Check drain val	lve -Physica	I integrity		(/)	() (()
6 India	cators/ Displays - veri		18 m	(/)	() (()	15	Check label				(/)	() (()
	eck fuse, circuit breake			(/)	() ()	16	Check deminera	alisation and	d sensor (if		(/)	() (()
8 Hea	ater - verify physical In	ntegrity		(/)	() (.)	17	Check automati	ic water fillin	g (if available)		(/)	() (()
	amber - verify physical alling, rusting, pitting o		es)	(/)	() (.)	18	Replace Bacter	ia/Air Steriliz	zation Filter		()	() ((/)
	PREVENTIVE MAIN		-	.s												
ick ($$)	where appropriate															
				DONE	NOT DONE		NA						DONE	NO.		NA
	an exterior and interior	or of the		(/)	**) () 4	Lubricate all mo	oving parts			()	**) (/)
	ck / replace gasket **	**		(/)	() ()	Note	·S.							
3 Chec	ck clean solenoids			(/)	() ()	l l	* For all I ** If you h		defined as NOT					



KEMENTERIAN KESIHATAN MALAYSIA

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

CHECKLIST NO:CL-148-000 REV.001

WORK Order No

Fus Mai Cor Far Wa Swi Wa Ele Pre Dis Pre Pre	sescription ses ain Control Board ontrol Board on Running Rear & Side aiter Resevoir Float oritch/Water Level Sensor aiter Resevoir eactric Door Lock essure Door Lock essure Transducer essure Gauge	Checked (/) (/) (/) (/) (/) (/)	Service		((((((((((((((((((())))))		ot icable)))	No 16 17 18 19 20	Description Discharge Valve Infill Valve Heating Element Heat Exchanger/Cooling system (if applicable)	(X (/) (/) (/))))))	((())))	Appli ((((((((((((((((((()))
Mai Cor Far Wassw Was Ele Pre Dis Pre Saf	ain Control Board ontrol Board on Running Rear & Side ater Resevoir Float oitch/Water Level Sensor ater Resevoir ectric Door Lock essure Door Lock essure Door Lock)	())	17 18 19	Infill Valve Heating Element Heat Exchanger/Cooling system		((()	()	()
Cor Far Wa Swi Wa Ele Pre Dis Pre	n Running Rear & Side ater Resevoir Float witch/Water Level Sensor ater Resevoir ectric Door Lock essure Door Lock scharge Door Lock)))))	(((((((((((((((((((()	()	18 19	Heating Element Heat Exchanger/Cooling system		(())	()
Farr Waswi Was Ele Pre Dis Pre Pre	n Running Rear & Side ater Resevoir Float vitch/Water Level Sensor ater Resevoir ectric Door Lock essure Door Lock scharge Door Lock		(((((((((((((((((((()))	((()	()	19	Heat Exchanger/Cooling system		()	()	(
Waswi Was Electric Pre	ater Resevoir Float vitch/Water Level Sensor ater Resevoir ectric Door Lock essure Door Lock scharge Door Lock		(((((((((((((((((((()))	(68						()	()		
Swi Wa Ele Pre Dis Pre Pre	witch/Water Level Sensor ater Resevoir ectric Door Lock essure Door Lock scharge Door Lock essure Transducer		()	(68	()	20			()	()	1	
Ele Pre Dis Pre	ectric Door Lock essure Door Lock scharge Door Lock essure Transducer	(/) (/) (/)	()	()			20	Vacuum Pump	(/)					,	
Pre Dis Pre Pre	essure Door Lock scharge Door Lock essure Transducer	(/) (/)	()	(()	21	Door Gasket	(/)	()	()	(
Dis Pre Pre Saf	scharge Door Lock essure Transducer	(<u>/</u>)	()	()	22	Chamber Guard Seal (if applicable)	(/)	()	()	(
Pre Pre Saf	essure Transducer	(/))	()	()	23	Solid State Relay	()	()	()	(
Pre Saf			()	()	()	24	Thermostat Assembly	()	()	()	(
Saf	essure Gauge	(/)	()	()	()	25	Temperature Sensor	(_)	()	()	(
		(/)	()	()	()	26	Thermal Printer (if applicable)	()	()	()	5	_
Air	fety Valve	(/)	()	()	()	27	Vacuum Pump (if applicable)		()	()	(
, ui	Valve/Steam Solenoid Valve	(/)	()	()	()	28	Filters / strainer	()	()	()	(
Air	Valve/Steam Solenoid Valve	(/)	()	()	()									
Air	Valve/Steam Solenoid Valve	(/)	()	()	()									
					S. 200 Section 879												
₹T 7	7 Technician Remarks																
								NP	1								
								N	•								



KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist Sterlizing units, Steam BE CODE: 13-746 CHECKLIST NO:CL-148-000 REV.001

WORK ORDER NO >

PARIS	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	2.21	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	(/	()	()	
and the same of th	ELECTRICAL SAFETY TEST								
ELECTRI	CAL SAFETY TEST, (attach report) (In accordance to IEC 60601)								
	PASS FAIL	N	IA						
	€ = 8								
PART 10	NOTES								
					92				
		NA							
		NA							
	CORRECTIVE MAINTENANCE REQUIRED			FUNCTIONIN	NG	NOT FUNCTION			
WOF	RK ORDER NO >					NEXT PPM DATE	· 1.	2/1	ප
	PPM has been performed in accordance to the checklist and the equipment is functioning to the intended purpose.								
COMPLE	MOHD IZUAN Propagament				WITNESSED BY U	AZIEE	A		
	Technical Solution Sdn. Bhd. Quantum Medical Solution Sdn. Bhd.					JURUTEKNOLO	OGI VER	GIGIAN I	U29
DATE:	Quaritie /				DATE:	KLINIK PERGI	GIND:	2/18	ns IJ

Date: 20/6/2018

Test Setup

DUT Information

Operator ID:

Calibration Tech:

NADIA

Calibration Date:

25/8/2018

Firmware Version:

2.08.01

Serial Number:

3246911

Date & Time:

20/06/2018 & 10:00 A.M

JOB Name:

Equipment Number: JHR 003136

Serial Number:

080229004-015

Manufacturer:

STURDY

Model:

SA-260 ma

Location:

KP SUNGAL MATI

Other:

Template Information

Template Name:

62353-Alt.STERILIZING

IEC62353-Direct

Pause after Power ON: NO

Power ON delay:

2

NORMAL

Halt on Test Failure:

Test Speed:

YES

Include Time:

YES

Insulation Resistance \ 500V

Multi Enclosure Test: NO

Standard:

0

Pause before Power O NO Power OFF delay:

Test Mode:

AUTO

Multi PE Test:

NO

Multi Resstore:

WORST/LAST

Reverse Polarity:

YES

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	0.26 Ohm	n 0.3 - P
Insulation Resistance		Р
Mains to Protective Earth	78.2 MOh	ם - P
Mains Voltage		Р
Live to Neutral	241.3 V	P
Neutral to Earth	1.9V	P
Live to Earth	240.5V	P
Equipment Current	0.3 A	- P
Direct Equipment Leakage		Р
Open Earth	37.3 uA	500 - P
Open Earth- Reversed Mains	57.8 uA	500 - P