Form B03 Scheduled Maintenance Work Order





Work Order No.	PWO365680	Schedu	ule Month	June 2018							
Work Order Date	01/06/2018	Comple	eted Date	25/6/18							
Clinic Name	Klinik Pergigian Selkolah Menengah Le	Clinic (Code	JHR556							
BE No.	JHR023433	Distict		LEDANG							
BE Category	STERILIZING UNITS, STEAM	WO As	signed to	LOVAN							
Ownership	Existing Equipment		Purchase	New							
BE Condition	✓ Active	BER Proposed									
Work Order Type	Preventive Maintenance (PM)	ntenance (PM) Third Party Calibration (TPC)									
Work Order Type	Routine Inspection (RI)		Statutory Certificat	ion (SC)							
Reschedule Date											
3E Third Party Calibration	on / Statutory Certification Details										
Company Name	6	Cal / C	ert Date	•							
Contact Number	-	Cal / C	ert Expiry Date								
Action Taken	•										
Corrective Mai BE Sticker Ava Remarks:	/	Manufacturer: Total and Modal: 1730 MEV Serial No: 158649									
Schedule Maintenance E	Execution Details										
SI No	QMS Engineer / Technician Name		Date	Start Time	End Time						
C	12VAN		25/6/18	3.10	446 416						
Customer Remarks											
Engineer / Technician Sign Name Date	ature 10 LZ ANARIA 10 LZ ANA	Custom Name Designa Date Seal	ation OR SITI S PEGAWAI	SARINA ALI PERGIGIAN C 3928							

For Internal Use

First Verification

QMS Circle Incharge

Biomedical Engineering
Leanum Medical Solutions
HvP: 012-3967638

Final Verification

QMS State Incharge



KEMENTERIAN KESIHATAN MALAYSIA

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

CHECKLIST NO:CL-148-000 REV.001

PART 1	ASSET DETAI	LS															
WORK C	ORDER NO	PW03	65680									ASSET NO	· 0	HROZ	34.	33	
MANUFA	CTURER •	GENER	AL CTU	uttnav	(79							MODEL	• (SENERA	L ()	730	MEN
FREQUE	NCY •	► 3 MONT	HLY () 61	MONT	HLY	(/)		12 MONTHLY	()	PPM HOURS	> 1	HOUR			
PART 2	SPECIAL PRE	CAUTION															
If there is	evidence of boo	dy fluid contai	mination, s	submit the	device	e for o	cleanir	ng and	decontamination	n bef	fore insp	ecting it.					
Wear app	ropriate Person	nel Protection	n Equipme	ent (PPE)	during	work											
Wear gro	unded electrosta	atic wristband	when har	ndling PCE	3 or ele	ectror	nic cor	npone	nts.								
Refer to the	he safety proced	dure for additi	onal preca	autions an	d guida	ance	as per	manu	facturer guidelii	nes.							
Make sur	e the test equipr	ment used are	e duly calil	brated.													
PART 3	TEST APPARA	ATUS															
$Tick(\sqrt{)}$	where appropriat	e															
NO		NO oo \$			DES	SCRI	PTION				SI	ERIAL NO		CALIBI	RATIO	ON D	UE ON
1	TEESAA	1058	DIGITAL	TEMPER	ATURI	E ME	TER				22	46911		26/	12	119	3
			DIGITAL	PRESSU	DE ME	TER	6					75202011			0.00		-
2	ALBET	0335	DIGITAL	PRESSU	KE IVIE	ILK					n	315545	-	01	11/	18	
		The state of the s															
PART 4	QUALITATIVE	TASKS															
$Tick(\sqrt{1})$	where appropriat	e															
The state of the s	enet gutu	1)	PASS	FAII	Ŀ	NA							PASS	FAI	L	NA
1 Cha	ssis - verify phys	sical integrity,		(MA)	(/	() 10	Over pressure integrity	cut o	of valve	- Verify physical			() (()
	er Cord - verify integrity	proper insula	tion	(/)	() () 11	Door lock - Ve	rify pl	hysical i	ntegrity	1		() (()
	in Relief - verify oth ends of line		grity	(/)	() (r.) 12	Door gasket V	erify (physical	integrity		(/)	() (()
	ngs/ Connectors gs/connectors	- check all		(/)	() () 13	Check water to	ank le	eak				() (()
	trols/Switches - ation of controls			(/)	() () 14	Check drain va	alve -	Physica	l integrity		(/)	() (()
	cators/ Displays ination and ope		ır	Y)	() () 15	Check label					(/)	() (()
7 Che	ck fuse, circuit b	oreaker		(/)	() () 16	Check demine available)	eralisa	ation and	d sensor (if		(/)	()	()
8 Hea	ter - verify physi	cal Integrity		(/)	() () 17	Check automa	atic wa	ater fillir	ng (if available)		(/)	()	()
	mber - verify phy lling, rusting, pit			(/)	() () 18	Replace Bacte	eria/A	ir Sterili	zation Filter	ŝ	()	()	(/)
PART 5	PREVENTIVE	MAINTENAN	NCE TASH	KS													
Tick (√)	where appropriat	e															
				DONE	NOT DON		NA							DONE	NO DON		NA
	n exterior and in pment	nterior of the		(/)	() () 4	Lubricate all m	noving	g parts		(()	() (/)
2 Che	ck / replace gas	ket ***		8 8	() () Not	es:								
3 Che	ck/ clean solenc	oids		(/)	() ()	** If you	have	e ticked	defined as NOT NOT DONE, the Applicable					



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

-pw0365680

РΔ	RT 6 SERVICE CHECKLIST																	
	Description	Checked	Serv		Repla	aced	No Appli	ot cable	No	Description	Chec	ked	Serv		Repla	aced	N Appli	ot cable
1	Fuses		()	()	()	16	Discharge Valve	()	()	()	()
2	Main Control Board		()	()	()	17	Infill Valve	()	()	()	()
3	Control Board		()	()	()	18	Heating Element	5	()	()	()	()
4	Fan Running Rear & Side	1	()	()	()	19	Heat Exchanger/Cooling system (if applicable)	V	()	()	()	()
5	Water Resevoir Float Switch/Water Level Sensor	1	()	()	()	20	Vacuum Pump	4	1)	()	()	()
6	Water Resevoir	(/)	()	()	()	21	Door Gasket	4	1	()	()	()
7	Electric Door Lock	(/)	() -	()	()	22	Chamber Guard Seal (if applicable)	4	1	()	()	()
8	Pressure Door Lock	(/)	()	()	()	23	Solid State Relay	()	()	()	()
9	Discharge Door Lock	(1	()	()	()	24	Thermostat Assembly	()	()	()	()
10	Pressure Transducer	()	()	()	(/	1)	25	Temperature Sensor	()	1	()	()	()
11	Pressure Gauge	1	()	()	()	26	Thermal Printer (if applicable)	()	()	()	(1
12	Safety Valve	1	()	()	()	27	Vacuum Pump (if applicable)	(/	1	()	()	. ()
13	Air Valve/Steam Solenoid Valve	1	()	()	()	28	Filters / strainer	())	()	()	()
14	Air Valve/Steam Solenoid Valve	1	()	()	()										
15	Air Valve/Steam Solenoid Valve	(/)	()	()	()										
									\$17									
PA	RT 7 Technician Remarks																	
								M	A	•								
								N	(T)									
				,	/													
			1															



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 > PWO 365 630

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	134.1	134-137 121-124		()	()			
2	Pressure reading	bar		2.23	2.03-2.32 1.03-1.23	1	()	()			
3	Electrical Supply Voltage	V		refer to EST	Refer to nameplate		()	()			
4	Electrical Power	kW		refer to EST	Refer to nameplate		()	()	<u> </u>		
-											
PART 9	ELECTRICAL SAFETY TEST										
ELECTRICAL SAFETY TEST, (attach report) (In accordance to EC 60991) PART 10 NOTES PART 10 NOTES											
MO	CORRECTIVE MAINTENAN		7	FUNCTIONIN		NOT FUNCTION		12/1	8		
"	RK ORDER NO ►					NEAT PRIVIDATI	_		_		
	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:						

Date: 25/6/2018

Test Setup

DUT Information

Operator ID:

Calibration Tech:

NADIA

Calibration Date:

25/8/2018

Firmware Version:

2.08.01

Serial Number:

3246911

Date & Time: JOB Name:

Equipment Number: JHR 023433

Serial Number:

158649

Manufacturer:

TUTTNAUER

Model:

Other:

1730MKV

Location:

KP SEKOLAH MENEGAF

Template Information

Template Name:

62353-Alt.STERILIZING

25/06/2018 & 3:10 P.M

Standard:

IEC62353-Direct

Pause after Power ON: NO

Power ON delay:

2

Power OFF delay:

Pause before Power O NO 0

Test Speed:

NORMAL

Test Mode:

AUTO

Halt on Test Failure:

YES

Multi PE Test:

NO

Include Time:

YES

Multi Resstore:

WORST/LAST

Insulation Resistance \ 500V

Reverse Polarity: Classification:

YES

Multi Enclosure Test: NO

PLC Configuration-Applied part setup

AP Name AP Type

AP Num

ESA615 Test Results

Test Name	Value	High Lin	nits Low Limits	Status
Protective Earth Resistance	0.25 Ohm	i į	0.3 -	P
Insulation Resistance				Р
Mains to Protective Earth	78.4MOh	n -	-	Р
Mains Voltage				Р
Live to Neutral	240.9 V	-	_	Р
Neutral to Earth	3.6 V	·-	-	Р
Live to Earth	239.3 V	-	E	Р
Equipment Current	0.4 A		-	Р
Direct Equipment Leakage				Р
Open Earth	33.34uA	5	500 -	Р
Open Earth- Reversed Mains	52.3 uA	5	500 -	Р