

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.	PWO372248	Schedule Month	March 2018
Work Order Date	01/03/2018	Completed Date	21/3/18
Clinic Name	Klinik Pergigian Sekolah Rendah Jenis	Clinic Code	WPL004
BE No.	WPL000054	Distict	LABUAN
BE Category	Water Purification Systems	WO Assigned to	Ashmawi
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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BE Third Party Calibration / Statutory Certification Details			
Company Name	NA	Cal / Cert Date	NA
Contact Number		Cal / Cert Expiry Date	
Action Taken			
checked physical all ok. clean body interior and exterior. tested run ok and fix to use.ppm completed.			

Schedule Maintenance Execution Details				
SI No	QMS Engineer / Technician Name	Date	Start Time	End Time
	CHE MUND. AVILLAN BIOMEDICAL TECHNICIAN, QMS 019-2572540	21/3/18	1630	1700


Customer Remarks	
Engineer / Technician Signature Name Date CHE MUND. AVILLAN BIOMEDICAL TECHNICIAN, QMS 019-2572540 21/3/18	Customer Signature Name Designation Date Seal HERMAN NOWI Juruteknologi Pergigian Klinik Pergigian Labuan 20/3/18



For Internal Use

First Verification
QMS Circle Incharge
JULIUS LIANSON
BIOMEDICAL ENGINEER, QMS
019-3620179

Final Verification
QMS State Incharge
DICKY LEE
SABAH STATE MANAGER
QUANTUM MEDICAL SOLUTIONS SDN BHD

 Quantum Medical Solutions sdn bhd transcending boundaries, transforming life	Quantum Medical Solutions Sdn Bhd BEMS Planned Preventive Maintenance Checklist Water Purification Systems BE CODE :15-812	CHECKLIST NO: CL-170 REV.000					
PART 1 ASSET DETAILS							
WORK ORDER NO ▶ P20372248		ASSET NO ▶ WPL000054					
MANUFACTURER ▶ N/A		MODEL ▶ N/A					
FREQUENCY ▶ 3 MONTHLY () 6 MONTHLY () 12 MONTHLY (/)		PPM HOURS ▶ 0.50					
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	TEF 820085	ELECTRICAL SAFETY ANALYZER	3227039	10/1/2019			
PART 4 QUALITATIVE TASKS							
Tick (/) where appropriate							
	PASS	FAIL	NA		PASS	FAIL	NA
1 Chassis - verify physical integrity, cleanliness and condition	(/)	()	()	9 Indicators/ Displays - verify proper illumination and operation	()	()	(/)
2 Mount/ Fasteners - verify physical integrity	(/)	()	()	10 AC Plug - verify integrity	(/)	()	()
3 Power Cord - verify physical integrity	(/)	()	()	11 Label - verify physical integrity	(/)	()	()
4 Alarms/ Interlocks - check all alarms available	()	()	(/)	12 Accessories - Examine for accessories and general physical condition	(/)	()	()
5 Circuit Breaker/ Fuse - verify integrity of external circuit breaker and/or rating of external fuse	(/)	()	()	13 Fittings/ Connectors - check all fittings/connectors	(/)	()	()
6 Strain Relief - verify physical integrity at both ends of line cord	(/)	()	()	14 Tube/Hose - verify physical condition	(/)	()	()
7 Controls/Switches/Keypad/Dial - verify proper operation of controls	(/)	()	()	15 Motor/ Pump - Verify physical integrity	()	()	(/)
8 Cables - verify integrity	(/)	()	()				
PART 5 PREVENTIVE MAINTENANCE TASKS							
Tick (/) where appropriate							
	DONE	NOT DONE	NA				
1 Inspect, Clean Interior and Exterior	(/)	()	()	Notes: * For all parts, NA is defined as NOT APPLICABLE ** If you have ticked 'NOT DONE', then justify in Part 8 *** Choose whichever applicable			
2 Filter - Check/Clean/Replace***	(/)	()	()				
3 Tube /Hose - Check/Replace***	(/)	()	()				



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BEMS Planned Preventive Maintenance Checklist

Water Purification Systems

BE CODE :15-512

CHECKLIST NO: CL-170
REV.000

WORK ORDER NO ▶ PNO 372248

PART 6 QUANTITATIVE TASKS

Tick (✓) where appropriate

No	Description	Units / UOM	Set Values	Measured Values	Limit/Tolerance	PASS	FAIL	NA

PART 7 ELECTRICAL SAFETY TEST

ELECTRICAL SAFETY TEST, (attach report)

☒ PASS

☐ FAIL

☐ NA

PART 8 NOTES

Part 5 - Item 2

Please indicate the part number, description of PPM Kit and any repair work to be carried out (if any) :

☐ CORRECTIVE MAINTENANCE REQUIRED

☒ FUNCTIONING

☐ NOT FUNCTIONING

WORK ORDER NO ▶ NA

NEXT PPM DATE ▶ 20/3/19

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

COMPLETED BY:

CHE MURD. ATILLAH
BIOMEDICAL TECHNICIAN, QMS
(019-2572640)

DATE: 21/3/18

Fluke Biomedical

Date 21/03/2018

Test Setup

Operator ID LBNBME
Calibration Tech
Calibration Date 10/01/2019
Firmware Version 2.08.01
Serial Number 3227038
Date & Time 21/03/2018 & 16:35
JOB Name

DUT Information

Equipment Number WPL 000054
Serial Number
Manufacturer
Model
Location KLINIK PERGIGIAN
Other

Template Information

Template Name WATER PURIFICATION
Pause after Power ON NO
Power ON delay 2
Test Speed RAPID
Halt on Test Failure YES
Include Time YES
Insulation Resistance Voltage 250V
Multi Enclosure Test NO

Standard IEC62353-Differential
Pause before Power OFF 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	0.18 Ohm	0.3	-	P
Insulation Resistance				P
Mains to Protective Earth	999 MOhm	-	-	P
Mains Voltage				P
Live to Neutral	241.4 V	-	-	P
Live to Earth	12.1 V	-	-	P
Neutral to Earth	240.6 V	-	-	P
Equipment Current	12.4 A	-	-	P
Differential Leakage				P
Normal Condition	41 uA	500	-	P
Normal Condition-Reversed mains	59 uA	500	-	P


Signature

Fluke Biomedical
WPL 000054
KLINIK PERGIGIAN