

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.	PWO371962	Schedule Month	March 2018
Work Order Date	01/03/2018	Completed Date	27/3/2018
Clinic Name	Klinik Pergigian DI Klinik Kesihatan Lak	Clinic Code	WPL001
BE No.	WPL000594	Distict	LABUAN
BE Category	Dental Delivery Units	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
↳ Check chassis, fittings, handpiece, leaking, pack and fire handpiece ↳ Clean exterior and interior ↳ Perform test, unit perform well (functioning good)

Schedule Maintenance Execution Details				
SI No	QMS Engineer / Technician Name	Date	Start Time	End Time
	MOHD. ASHMAWI B MOHD NISHAM BIOMEDICAL TECHNICIAN, QMS 019-2334231	27/3/2018	1530	1630

Customer Remarks	
Engineer / Technician Signature Name: MOHD. ASHMAWI B MOHD NISHAM Date: 27/3/2018 BIOMEDICAL TECHNICIAN, QMS 019-2334231	Customer Signature Name: HERMAN NOWI Designation: Juruteknologi Pergigian Date: 20/4/18 Seal: Klinik Pergigian Labuan


For Internal Use


First Verification
QMS Circle Incharge

JULIUS LIANSUN
BIOMEDICAL ENGINEER, QMS
019-2334231

Final Verification
QMS State Incharge

[Signature]
QMS STATE INCHARGE

 Quantum Medical Solutions sdn bhd <small>transforming boundaries, redefining life</small>	Quantum Medical Solutions Sdn Bhd BEMS Planned Preventive Maintenance Checklist Dental Delivery Units BE CODE : 11-165	CHECKLIST NO: CL-052 REV.000					
PART 1 ASSET DETAILS							
WORK ORDER NO ▶ Pmo 3719 22		ASSET NO ▶ WPR000594					
MANUFACTURER ▶ RU		MODEL ▶ RU					
FREQUENCY ▶ 3 MONTHLY () 6 MONTHLY () 12 MONTHLY (/)		PPM HOURS ▶ 1-0					
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			
	PESA0085	ELECTRICAL SAFETY ANALYZER	3227039	10/1/2019			
	NA	PRESSURE GAUGE	NA	NA			
PART 4 QUALITATIVE TASKS							
Tick (/) where appropriate							
	PASS	FAIL	NA		PASS	FAIL	NA
1 Chassis - verify physical integrity, cleanliness and condition	(/)	()	()	8 Motor/Pump/Compressor - verify operation	(/)	()	()
2 Mount/ Fasteners - verify physical integrity	(/)	()	()	9 Solenoid valve - Inspect, verify operation	()	()	(/)
3 Cables - verify integrity	(/)	()	()	10 Foot switch - verify operation	(/)	()	()
4 Tubes/Hoses - check condition of all tubing, all hoses	(/)	()	()	11 Label - verify physical integrity	(/)	()	()
5 Power Cord - verify proper insulation and integrity	(/)	()	()				
6 Strain Relief - verify physical integrity at both ends of line cord	(/)	()	()				
7 Indicators/ Displays - verify proper illumination and operation	(/)	()	(/)				
PART 5 PREVENTIVE MAINTENANCE TASKS							
Tick (/) where appropriate							
	DONE	NOT DONE	NA	Notes:			
1 Clean exterior and interior of the equipment	(/)	()	()	* For all Parts, NA is defined as NOT APPLICABLE ** If you have ticked 'NOT DONE', then justify in Part 8 *** Choose Whichever Applicable			
2 Filters - Check/Clean / <u>Change</u> ***	(/)	()	()				
3 O-Rings/Diaphragms/Hoses /Filters - Check /Clean / <u>Change</u> ***	(/)	()	()				

 Quantum Medical Solutions sdn bhd <small>teknologi dalam kesihatan, transformasi kehidupan</small>	Quantum Medical Solutions Sdn Bhd BEMS Planned Preventive Maintenance Checklist Dental Delivery Units BE CODE : 11-165	CHECKLIST NO: CL-062 REV.000
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WORK ORDER NO ▶ PWO 371962

PART 6 QUANTITATIVE TASKS

Tick (✓) where appropriate

No	Description	Units / UOM	Set Values	Measured Values	Limit/Tolerance	PASS	FAIL	NA
	Incoming water pressure*					()	()	(✓)
	Incoming Air pressure*			NA		()	()	(✓)
	Vacuum*					()	()	(✓)
	*refer manufacturer's recommended min & max limits							

PART 7 ELECTRICAL SAFETY TEST

ELECTRICAL SAFETY TEST, (attach report)

(in accordance to IEC 60601)

☒ PASS
 ☐ FAIL
 ☐ NA

PART 8 NOTES

<input type="checkbox"/> CORRECTIVE MAINTENANCE REQUIRED	<input checked="" type="checkbox"/> FUNCTIONING	<input type="checkbox"/> NOT FUNCTIONING
WORK ORDER NO ▶ <u>NA</u>	NEXT PPM DATE ▶ <u>26/3/2019</u>	

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

COMPLETED BY:

MOHD. ASHMAWI & MOHD HISHAM
 BIOMEDICAL TECHNICIAN, QMS
 019-2330231

DATE: 27/3/2018

Fluke Biomedical

Date 27/03/2018

Test Setup

Operator ID LBNBME
Calibration Tech
Calibration Date 10/01/2019
Firmware Version 2.08.01
Serial Number
Date & Time 27/03/2018 & 15:33
JOB Name

DUT Information

Equipment Number WPL 000594
Serial Number
Manufacturer
Model
Location KLINIK PERGIGIAN
Other

Template Information

Template Name DENTAL DELIVERY UNITS
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	0.17 Ohm	0.3	-	P
Insulation Resistance				P
Mains to Protective Earth	999 MOhm	-	-	P
Mains Voltage				P
Live to Neutral	240.7 V	-	-	P
Live to Earth	11.8 V	-	-	P
Neutral to Earth	240.1 V	-	-	P
Equipment Current	10.5 A	-	-	P
Differential Leakage				P
Normal Condition	29 uA	500	-	P
Normal Condition-Reversed mains	52 uA	500	-	P

Signature

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