

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.	PWO366662	Schedule Month	July 2018
Work Order Date	01/07/2018	Completed Date	9/7/18
Clinic Name	Klinik Pergigian Di Klinik Kesihatan Bul	Clinic Code	JHR551
BE No.	JHR003139	Distict	LEDANG
BE Category	Chairs, Examination/Treatment, De	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 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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3E Third Party Calibration / Statutory Certification Details			
Company Name	n/a	Cal / Cert Date	n/a
Contact Number	n/a	Cal / Cert Expiry Date	n/a
Action Taken		Manufacturer: TACAPA Belmont	
<input checked="" type="checkbox"/> PM / RI job done as per checklist. Unit tested functioning good & ready to use.		Model: comeT-D	
<input checked="" type="checkbox"/> Corrective Maintenance / <input type="checkbox"/> Breakdown		Serial No: EOL 090375	
BE Sticker Availability: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> NA			
Remarks: Chair only can move up/down using system hydraulic.			

Schedule Maintenance Execution Details				
SI No	QMS Engineer / Technician Name	Date	Start Time	End Time
1	Rabeah	9/7/18	2.35	3.45

Customer Remarks	
Engineer / Technician Signature Name Date	Customer Signature Name Designation Date Seal
 MUR RABEAH QMS Circle Incharge 18/07/2018	 AZLEE YASHI JURUTEKNOLOGI PERGIGIAN U29 KLINIK PERGIGIAN 9/7/2018

For Internal Use

First Verification

QMS Circle Incharge

Final Verification

QMS State Incharge

MURD SHAIFUDDIN BIN SHU
Biomedical Engineering
Quantum Medical Solutions
Hp: 012-3967638



KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist
Chairs, Examination/Treatment, Dentistry

BE CODE : 10-792

CHECKLIST NO: CL-040-000
REV.000

PART 1 ASSET DETAILS

WORK ORDER NO ▶ *ppm* BE NO ▶ *JKR 003139*
MANUFACTURER ▶ *TAKARA BELMONT* MODEL ▶ *COMET-D*
FREQUENCY ▶ 6 MONTHLY () 12 MONTHLY (✓) PPM HOURS ▶ 2.00

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 0158	ELECTRICAL SAFETY ANALYZER	3246911	25/8/18
2	TEESA 0025	PRESSURE GAUGE	29520201WS	26/12/18
3	TEESA 0106	TACHOMETER	H. 310425	26/12/18

PART 4 QUALITATIVE TASKS

Tick (✓) where appropriate

	PASS	FAIL	NA		PASS	FAIL	NA
1 Chassis - verify physical integrity, cleanliness and condition	(✓)	()	()	11 Valves/Solenoids - Inspect, verify operation	()	()	(✓)
2 Mount/ Fasteners - verify physical integrity	(✓)	()	()	12 Tubes/ Hoses - Check condition of all tubing, all hoses	()	()	(✓)
3 Line cord - verify proper insulation & integrity	()	()	(✓)	13 Incoming Air pressure - verify operation	()	()	(✓)
4 Strain Relief - verify physical integrity at both ends of line cord	()	()	(✓)	14 Oil/Water/ Air/ Vacuum lines - check for any leak	()	()	(✓)
5 Circuit Breaker/ Fuse - verify integrity of external circuit breaker or rating of fuse	()	()	(✓)	15 Incoming Water pressure - verify operation	()	()	(✓)
6 AC Plug/ Receptacle - verify integrity	(✓)	()	()	16 Hydraulic System - verify operation	(✓)	()	()
7 Fittings/ Connectors - verify physical condition & integrity	(✓)	()	()	17 Lights - verify operation	()	()	(✓)
8 Cables - verify physical integrity	(✓)	()	()	18 Labelling - verify caution and warning labels	()	()	(✓)
9 Controls/Switches - verify proper operation of controls	(✓)	()	()	19 System Safety Features - verify operation	()	()	(✓)
10 Indicators/ Displays - verify proper illumination and operation	()	()	(✓)	20 Motor/Pump - verify operation	(✓)	()	()

PART 5 PREVENTIVE MAINTENANCE TASKS

Tick (✓) where appropriate

	DONE	NOT DONE**	NA		DONE	NOT DONE**	NA
1 Cleanliness - clean exterior and interior of the equipment	()	()	(✓)	5 O-rings/diaphragms - Check/Replace***	()	()	(✓)
2 Lubricate recommended parts	()	()	(✓)				
3 Align/ Adjust Mechanical components	()	()	(✓)				
4 Filters - check/clean/replace***	()	()	(✓)				

Notes:

* For all Parts, NA is defined as NOT APPLICABLE
** If you have ticked 'NOT DONE', then justify in Part 8
*** Choose Whichever Applicable



KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist
Chairs, Examination/Treatment, Dentistry
BE CODE : 10-792

CHECKLIST NO: CL-040-000 REV.000

WORK ORDER NO ▶ PW 036662

PART 6 QUANTITATIVE TASKS

Tick (✓) where appropriate

No	Description	Units / UOM	Set Values	Measured Values	Limit/Tolerance	PASS	FAIL	NA
1	Pressure Inlet							
	i. Compressed Air	Bar			5.5-7.5	()	()	()
	ii. Water	Bar			1.5-5.0	()	()	()
2	Handpiece							
	i. High speed handpiece	RPM			>250,000	()	()	()
3	Micromotor/Contra angle/Staright handpiece							
	a. Slow speed, 1:1 and above	RPM			> 35,000	()	()	()
	b. Slow speed, 10:1 ≤ x < 1:1	RPM			10 - 4,000	()	()	()
4	Scaler	kHz			> 20	()	()	()
5	Light curing	mW/cm²			> 300	()	()	()

PART 7 ELECTRICAL SAFETY TEST

ELECTRICAL SAFETY TEST, (attach report)

Tick (✓) where appropriate

Standard use :

☐ IEC 60601

☒ IEC 62353

Result :

☒ PASS

☐ FAIL

☐ NA

PART 8 NOTES

☐ CORRECTIVE MAINTENANCE REQUIRED

☒ FUNCTIONING

☐ NOT FUNCTIONING

WORK ORDER NO ▶ 2018

NEXT PPM DATE ▶ 2018

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

COMPLETED BY:

[Signature]

[Signature]
AZLEE YASIN
JURUTEKNOLOGI PERGIGIAN U29
KLINIK PERGIGIAN : 2018

DATE :

9/7/2018

Date :09/07/2018

Test Setup

Operator ID :
Calibration Tech : NADIA
Calibration Date : 25/8/2018
Firmware Version : 2.08.01
Serial Number : 3246911
Date & Time : 09/07/2018 & 02:35 P.M
JOB Name :

DUT Information

Equipment Number : JHR 003139
Serial Number : EDL090375
Manufacturer : TACAPA BELMONT
Model : COMET-D
Location : KP BUKIT GAMBIR
Other :

Template Information

Template Name : 62353-Alt.CHAIRS,EXAMINATION/TR Standard : IEC62353-Direct
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
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	0.23 Ohm	0.3	-	P
Insulation Resistance				P
Mains to Protective Earth	0.008MOhm	-	-	P
Mains Voltage				P
Live to Neutral	233.5 V	-	-	P
Neutral to Earth	3.6 V	-	-	P
Live to Earth	230.6 V	-	-	P
Equipment Current	0.2 A	-	-	P
Direct Equipment Leakage				P
Open Earth	39.3 uA	500	-	P
Open Earth- Reversed Mains	24.4 uA	500	-	P

