Form B03

Scheduled Maintenance Work Order



Work Order No.	PWOS	PWO365802		Schedule Month		July 2018		
Work Order Date	01/07/	01/07/2018		Completed Date		18/7/18.		
Clinic Name	Klinik	Klinik Kesihatan Pengerang		Clinic Code		JHR045		
BE No.	JHR00	JHR008105		Distict		KOTA TINGGI		
BE Category	Centr	ifuges, Tabletop, High-Speed,	WO Assigned to			KFG8ME4		
Ownership	V	Existing Equipment		Purchase		New		
BE Condition	V	Active		BER Proposed				
Work Order Type	V	Preventive Maintenance (PM)	Third Party Calibration (TPC)					
work order Type		Routine Inspection (RI)		Statutory Certification (SC)				
Reschedule Date		NA						
BE Third Party Ca	libration / Statu	utory Certification Details						
Company Name		NA	Cal / Cert Date			NA		
Contact Number		NA	Cal / Cert Expiry Date			NA		
Schedule Mainten	ance Execution							
Schedule Mainten								
SI No		S Engineer / Technician Name		Date		Start Time	End Time	
	ZULHE!	- (T 1)		18/7/18		(5-30	16-30	
Customer Remarks		A						
Engineer / Technician Signature Name ZULHELMI BIN ALI Senior Biomedical Technician 18/7//8 · Quantum Medical Solution Sdn. Bhd.			Customer Signature Name Designation Date Seal MOHD IZHAN SIN WAGIMAN Penolong Pegaral Perubatan U29 Klinik Kesihatan Pengerang R1600 Pengerang, Johor.					
First Verification QMS Circle Incharge	Technical Ser	vice Department		Verification State Incharge				



KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist Centrifuge Tabletop, High Speed, Hematocritirators CHECKLIST NO:CL-039-000 REV.000

	BE CODE :10-	-119			
PART 1 ASSET DETAILS					
	0365802	BE NO	► JHR008107		
MANUFACTURER > Het	th ch	MODEL + HAEMATOKET 21			
FREQUENCY ► 6 MON	THLY () 12 MONTHLY (/)	PPM HOURS	▶ 1.00		
PART 2 SPECIAL PRECAUTION					
f there is evidence of body fluid conta	amination, submit the device for cleaning and dec	contamination before inspecting it.			
Wear appropriate Personnel Protection	on Equipment (PPE) during work.				
Wear grounded electrostatic wristban	d when handling PCB or electronic components.				
	tional precautions and guidance as per manufact	turer guidelines.			
Make sure the test equipment used a PART 3 TEST APPARATUS	re duly calibrated.				
Tick ($\sqrt{\ }$) where appropriate					
NO ASSET NO	DESCRIPTION	SERIAL NO	CALIBRATION DUE ON		
1 TEELDAMA		3218171	24/8/2017		
1. TEESA 0010	ELECTRICAL SAFETY ANALYZER		11/1/12/2		
2. TEESADO99	TACHOMETER	H.310425	10/11/2018		
N/A	STOP WATCH	NA	W/A		
PART 4 QUALITATIVE TASKS					
2 Mount/ Fasteners - verify physic 3 Circuit Breaker/ Fuse - verify int external circuit breaker and/or re external fuse 4 Power Cord / cables - verify propinsulation and integrity 5 Strain Relief - verify physical into both ends of line cord 6 Controls/ Switches - verify proper operation of controls 7 Indicators/ Displays - verify propillumination and operation	egrity of (/) () () 10 Coating of (/) () () () egrity at (/) () ()	Chamber - Verify physical integrity Carbon Brush - Verify Integrity			
PART 5 PREVENTIVE MAINTENA Tick (\forall) where appropriate	NGE (ASNS				
Clean exterior and interior of the	DONE NOT NA Notes:	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 CHECKLIST NO:CL-039-000, REV.000 MEET Planned Preventive Maintenance Checklist Centrifuges, Tabletop, High-Speed, Microhematocrit PW0365802 WORK ORDER NO PART 6 QUANTITATIVE TASKS Tick (√) where appropriate No Units / Set PAS FAIL NA Description Measured Limit/Tolerance UOM Values Values Rotating speed 5900 (/)()() rpm ±10% 6000 Timer Accuracy (1()() min 3.00 PART 7 ELECTRICAL SAFETY TEST ELECTRICAL SAFETY TEST, (attach report) Tick ($\sqrt{}$) where appropriate Standard use Result IEC 60601 IEC 61010 IEC 62353 PASS FAIL NA PART 8 NOTES CORRECTIVE MAINTENANCE REQUIRED FUNCTIONING NOT FUNCTIONING WORK ORDER NO NEXT PPM DATE

dance to the checklist and the equipment is functioning to the intended purpose.

ZULHELMI BIN ALI Serior Biomedical Technician Quantum Medical Solution Sdn. Bhd.

PPM has been performed in ad

COMPLETED BY:

Test Setup

Operator ID:

Calibration Tech : MOHANA Calibration Date: 08/24/2018

Firmware Version: 2.08.01 Serial Number: 3218071

Date & Time : 07/18/2018 & 15:20pm

JOB Name:

DUT Information

Equipment Number: JHR008105

Serial Number: Manufacturer:

Model:

KK PENGERANG Location:

Other:

Template Information

Template Name : CENTRIFUGE

Pause after Power ON: NO Power ON delay: Test Speed: NORMAL Halt on Test Failure: YES Include Time: YES

Insulation Resistance V 500V Multi Enclosure Test: NO

IEC60601-1-2nd Ed Standard:

0

Pause before Power OI NO

Power OFF delay: Test Mode: AUTO Multi PE Test: NO

WORST/LAST Multi Resstore:

Value High Limits Low Limits Status

Reverse Polarity: YES Classification: 11

PLC Configuration-Applied part setup

AP Name AP Type AP Num

ESA615 Test Results

Test Name	value	Tilgii Liiliitis LOW Liiliitis	Julia
Insulation Resistance			Р
Mains to Non-Earth Accessible Conductive Par	999 MOhn	-	Р
Mains Voltage			P
Live to Neutral	236.9 V		P
Equipment Current	0.0 A		P
Enclosure Leakage Current			Р
Normal Condition	0.6 uA-OPI	100 -	Р
Open Neutral	0.7 uA-OPI	500 -	P
Open Neutral- Reversed Mains	0.7 uA-OPI	500 -	P
Normal Condition- Reversed Mains	0.6 uA-OPI	100 -	Р
Earth Leakage Current			P
Open Neutral	17.8 uA-OI	1000 -	P

