

## Scheduled Maintenance Work Order

Quantum Medical Solutions sdn bhd  
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Format Ref:- QMS/TSD-022 Rev.01

Work Order No	n/o PW0465003	Scheduled Month	January 2019
Work Order Date	n/o 01/01/2019	Completed Date	17/1/2019
Clinic Name	k.le TANJUNG RAMBUTAN	Clinic Code	PRK038
BE No	PRK001171	District	KINTA
BE Category	HEMATOCENTRIFUGER (M)	WO Assigned to	NOOR AZARUL
Ownership	<input checked="" type="checkbox"/> Existing Equipment	<input type="checkbox"/> MEET Equipment	
BE Condition	<input type="checkbox"/> Under Warranty	<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	n/o	Cal / Cert Date	n/o
Contact Number	n/o	Cal / Cert Expiry Date	n/o

## Action Taken

PPM completed as per checklist. Manufacturer: SYSMEX  
 Model: KX21  
 S/N: A6483  
 Purchase Date: 1/1/2000  
 Kewpa No: kkm/gkn/pkb/kk/c3-07/14/10/21

## Schedule Maintenance Execution Details

SI No	QMS Engineer / Technician Name	Date	Start Time	End Time
1	NOOR AZARUL	17/1/2019	11:30	13:30

## Customer Remarks

\*QC MATERIAL VOLUME INSUFFICIENT TO RUN QC TEST

## Engineer / Technician Signature

Name

Date 17/1/2019  
 NOOR AZARUL B AHAMAD  
 PERAK LAB SPECIALIST  
 Quantum Medical Solution Sdn. Bhd  
 No 10 B, Persiaan Greentown 4c  
 Greentown Avenue, 30450 Ipoh, Perak  
 Tel/fax : 05-2461991 Hp : 012-39648013

## Customer Signature

Name

W. SHAFIQ  
 Designation Juruteknologi Makmal Perubatan  
 Date Klinik Kesihatan Tg. Rambutan  
 Seal 31250 Tg. Rambutan

For Internal Use only

First Verification  
QMS Circle InchargeFinal Verification  
QMS State Incharge



KEMENTERIAN KESIHATAN MALAYSIA  
MEET Planned Preventive Maintenance Checklist  
Analyzers, Laboratory, Hematology, Cell Counting, Automated ( Medium)  
BE CODE : ME-009

CHECKLIST NO:CL-015-003  
REV.000

**PART 1 ASSET DETAILS**

WORK ORDER NO ▶ *n/a* *no 465003* BE NO ▶ *PRK001171*  
MANUFACTURER ▶ SYSMEX MODEL ▶ KX21  
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
	<i>n/a</i>	ELECTRICAL SAFETY ANALYZER	<i>n/a</i>	

**PART 4 QUALITATIVE TASKS**

Tick ( ✓ ) where appropriate

	PASS	FAIL	NA		PASS	FAIL	NA
1 Chassis - verify physical integrity, cleanliness and condition	( / )	( )	( )	10 Printer - Verify Operation	( / )	( )	( )
2 Mount/ Fasteners - verify physical integrity	( / )	( )	( )	11 Rolling Pump tubing -Verify Physical Integrity	( / )	( )	( )
3 Cables - verify integrity	( / )	( )	( )	12 Solenoid Valve- Verify Operation	( / )	( )	( )
4 AC Plug / Power Cord- verify Proper Insulation and integrity	( / )	( )	( )	13 Vacuum and Pressure Pump -Verify Physical Integrity	( / )	( )	( )
5 Strain Relief - verify physical integrity at both ends of line cord	( / )	( )	( )	a. Vacuum =0.0333mpa (actual) Displaying 0.0320mpa	( )	( )	( / )
6 Fittings/ Connectors - check all fittings/connectors	( / )	( )	( )	b. Vacuum =0.05mpa (actual) Displaying 0.051mpa	( )	( )	( / )
7 Controls/Switches - verify proper operation of controls	( / )	( )	( )	14 Sample Probe - Verify Integrity	( / )	( )	( )
8 Indicators /Displays - Verify Proper illumination and Operation	( / )	( )	( )	15 Controller Board - Verify Physical Integrity	( / )	( )	( )
9 Plunger & Syringe Motor drive - Verify physical integrity and operation	( / )	( )	( )				

**PART 5 PREVENTIVE MAINTENANCE TASKS**

Tick ( ✓ ) where appropriate

	DONE	NOT DONE **	NA		DONE	NOT DONE **	NA
1 Inspect / Clean exterior and interior of the equipment	( / )	( )	( )	8 Run Auto Clean	( / )	( )	( )
2 Transducer Clean and Verify integrity	( / )	( )	( )	9 SRV -Clean and Check Condition	( / )	( )	( )
3 PPM Kits - Replace if needed	( / )	( )	( )	10 Run daily Shutdown	( / )	( )	( )
4 Power on Self Test (POST) -Verify Operation	( / )	( )	( )	11 Sample Aspiration Probe - Clean and Check Condition	( / )	( )	( )
5 Fan Filter -Clean and replace if needed	( / )	( )	( )	12 Pinch Valve and Lyse pump tubing - Clean and Replace if Necessary	( / )	( )	( )
6 Aperture Plates - Clean and Check Condition	( / )	( )	( )	13 Waste Chamber - Clean and Check Condition	( / )	( )	( )
7 Diluent Syringe, Sample Syringe, Sample aspiration Probe- Clean and Check Condition	( / )	( )	( )	14 Close Sample holder - Clean and Check Condition	( )	( )	( / )

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



DATE :