# Form B03

# Scheduled Maintenance Work Order





Quantum Medical Solutions sdn bhd transcending boundaries, transforming life

Format Ref. - QMS/TSD-022 Rev.01

Company of the Compan	Secretary of the Control of the Cont	2-12-12-12	the second se				
Work Order No.	PWO371452	Sched	ule Month	June 2018			
Work Order Date	01/06/2018	Completed Date		26/6/18			
Clinic Name	Klinik Kesihatan Tanjung Sedili	Clinic Code		JHR048			
BE No.	JHNANE016/	Distict		KOTA TINGGI			
BE Category	ANALYZERS, LABORATORY, HEM	WO As	signed to	KTypm 51			
Ownership	Existing Equipment		Purchase	✓ Ne w			
BE Condition	✓ Active		BER Proposed				
Wash Order Ton	Preventive Maintenance (PM)		Third Party Calil	ration (TPC)			
Work Order Type	Routine Inspection (RI)		Statutory Certific	cation (SC)			
Reschedule Date	W/A						
3E Third Party Calibra	ation / Statutory Certification Details						
Company Name	ompany Name						
Contact Number	/**	Cal/C	ert Expiry Date				
Remarks:	Availability: Yes / NA  N/4  The Execution Details				76002311		
SINo	QMS Engineer / Technician Name		Date	Start Time	End Time		
MIA	Shelvano		2/1/18	9~	950		
Customer Remarks							
	W/A						
Engineer / Technician Si			er Signature	8)-	2 2 2 2 3		
Name Date	Biomedical Engineer Quantum Medical Solutions Sdn. Bhd.	Name Designa Date Seal	JUR	EVELAN AWAK JI UTENOLOGI MARMAI, PERUBA NLINIK KESIHATAN TANDING SE BIBIO ROTA TINGGI, JOHOR			
For Internal Use	D.		A. S. Lee P.	To a land			
First Verification  QMS Circle Incharge	Owner, Madical Calutinas Cdn Rhd		erification tate Incharge				



# KEMENTERIAN KESIHATAN MALAYSIA

25		MEET Planned Preventive Maintenance Checklist Analyzers, Laboratory, Hematology, Cell Counting, Automed ( Medium)  BE CODE: ME-DOB								CHECKLIST NO.CL 015-000 REV 000				
PART 1 A	SSET DETAILS								THE PERSON NAMED IN	RE				
WORK OR	DERNO - PWO	137145	,2				-	BE NO I	JHNI	MA	246			
MANUFACTURER . 4 30 Mindray														
								300						
PART 2 SPECIAL PRECAUTION 12 MONTHLY (					( )		PPM HOURS	2.00	-	1000				
													-	
Wear approx	priate Personnel Protectio	mination,	submit the	e device	e for cle	aning	and	d decontamination before inspecting it.						
	ded electrostatic wristband													
	safety procedure for addit he test equipment used ar			na guid	ance as	perr	mani	ufacturer guidelines.						
THE RESERVE TO SERVE THE PARTY OF THE PARTY	EST APPARATUS	e duly call	brated.				÷	The same of the sa	100					
	ere appropriate					-	÷							
NO	THE RESIDENCE OF THE PARTY OF T							SERIAL NO	CAL	IBRAT	TION	DUE	ON	
	DESCRIPTION													
1.	1. TEESAOO 10 ELECTRICAL SAFETY ANALYZER			ER		3218071	H	11/8/18						
- 1														
	THE PARTY OF THE P													
PART 4	UALITATIVE TASKS	-			-	-			-	400	100	700		
cleanli Mount Power integril Strain both er Fittings fittings Contro of cont Indicat Electro integrit Hydrau physica	Relief - verify physical intends of line cord s/ Connectors - check all /connectors ls/Switches - verify proper rols ors/Displays- verify proper odes and Tranducer -verify y ulics and Pneumatics Syste al integrity	al integrity ation and egrity at operation operation physical		( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	) ( ) ( ) ( ) ( ) ( ) ( ) (		12 13 14 15 16 17	Probes- Verify physical interigity  Temperature system- verify proper operation  Fan/motor/compressor/pump- verify physical integrity and proper operation Initialization Process- Verify  Printer - Verify physical operation.  User Setting - Verify Operation  User calibration - Verify Operation  Self Diagnostic - Verify Operation  Plate movement calibration - Verify Operation	PASS (/ (/ (/ (/ (/ (/ (/ (/ (/ (/ (/ (/ (/	) (	)	( (	) ) ) ) )	
10 Sensor	rs- verify phisical integrity		(/)	(	) (	)		A PROPERTY OF						
PART 5 P	REVENTIVE MAINTENAN	ICE TASK	s											
1 Clean e	exterior and interior of the		DONE	NOT DONE		A )	6	Clean measuring area	DONE		OT ONE	N.	A )	
equipm 2 Inspect	clean interior of unit		(/)	(	) (	)	7	Calibrate system parameter	(	) (	)	1	1	
3 Clean h	nydraulics and pneumatic s	system	(/)	(	) (	)		Perform Post routine	1	1	,	(	,	

(/)()(

(/)()()

) Notes:

4 Tubings - clean/ replace \*\*\*

5 Clean sampling mechanism

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

	MEET Planned	KEMENTERIAN KESIHATAN MALAYSIA  MEET Planned Preventive Maintenance Checklist  Analyzers, Laboratory, Hematology, Cell Counting, Automated, Medium  BE CODE ME-009					
WORK ORDER NO >	PW0 37145	2					
PART 6 QUANTITATIVE TA	SKS		3 1				
Tick (V) where appropriate	5 1 1 1 E	Units /	Set	Measured		MA	
No	Description	UOM	Values	Values	Limit/Tolerance	PASS FAIL NA	
	Refer attach un	4.					
					11 12 12		
				,			
			-				
		-					
		M					
Bull and a second						The second second	
The state of the s				1000			
PART 7 ELECTRICAL SAFE	ETY TEST	7 - 1 - 1		1111		THE SHARE THE	
ELECTRICAL SAFETY TEST	(attach report)						
		/					
	CORRECTIVE MAINTENANCE REQUIRED		7	FUNCTION		T FUNCTIONING	
WORK ORDER NO -	ORRECTIVE MAINTENANCE REQUIRED		7	FUNCTION		T FUNCTIONING  AT PPM DATE > 12/218	
WORK ORDER NO			7		NE		

#### Test Setup

Operator ID :

Calibration Tech : Calibration Date :

Firmware Version : Serial Number ;

Date & Time : JOB Name :

MOHANA 11/8/2018 2.08.01 3218071

26/06/2018 & 9:20am

## **DUT** Information

Equipment Number: JHNANE016

Serial Number: Manufacturer: Model:

Location :KK TG SEDILI

Other:

## Template Information

Template Name:

Pause after Power ON: Power ON delay:

Test Speed: NORMAL Halt on Test Failure: YES Include Time: YES Insulation Resistance Voltag 500V Multi Enclosure Test : NO

Standard:

Pause before Power OFF: Power OFF delay: Test Mode: Multi PE Test: Multi Resstore:

Reverse Polarity: Classification:

IEC60601-DIRECT

NO WORST/LAST YES

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	0.361 Oh	n 0.2	- F
Insulation Resistance			Р
Mains to Protective Earth	49.0 MO	hi-	- P
Mains to Non-Earth Accessible Conductive Part	999 MOh	in-	- P
Mains Voltage			Р
Live to Neutral	259.5 V		- P
Neutral to Earth	5.4 V	*	- P
Live to Earth	254.0 V		- P
Equipment Current	0.0 A		- P
Earth Leakage Current			Р
Normal Condition	50.6 uA-0	500	) - P
Open Neutral	58.9 uA-0	1000	) - P
Open Neutral- Reversed Mains	27.4 uA-0	1000	) - P
Normal Condition- Reversed Mains	15.4 uA-0	500	0 - P
Enclosure Leakage Current			P
Normal Condition	0.6 uA-O	P 100	0 - P
Open Earth	1.1 uA-O	Pi 500	0 - P
Open Neutral	0.7 uA-O	PI 500	0 - P
Open Neutral- Reversed Mains	0.7 uA-O	PI 500	0 - P
Normal Condition- Reversed Mains	0.6 uA-O	PI 100	0 - P
Open Earth- Reversed Mains	0.7 uA-O	PI 500	0 - P