Form B03

Scheduled Maintenance Work Order

Quantum Mc transcending bo

Format Re:

							14.4.73				
Work Orde	er No	NA	PWO 465012	ScI	neduled Month	January 2019					
Work Orde	r Date	wla	01/01/2019	Col	mpleted Date	17/1/2	019				
Clinic Name	е	K.K G	REGITALIN	Clir	nic Code	PRICO					
BE No			rec65)	Dis	trict	KINTA	/				
BE Categor	ry /	HEMPTO	color on ocylfa	(m) wo	Assigned to	recros	JORUN.				
Ownership		Z Existi	ng Equipment		MEET Equipment		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
BE Conditio	on	Unde	r Warranty		BER Proposed	10 1 1000					
Work Order Type		Preve	entive Maintenance (PM)	orei .	☐ Third Party Calibration (TPC)						
Work Order	Туре	Routi	ne Inspection (RI)		Statutory Certificati	ion (SC)					
Reschedule	Date										
BE Third P	Party Cali	bration / S	Statutory Certification D	etails		A TOTAL CONTRACTOR OF THE PARTY					
Company Na		30-30-30-30-30-30-30-30-30-30-30-30-30-3	nla		/ Cert Date	~ /	1-				
Contact Nun			10/2			~ /	D ₁				
Action Take			V C / 83	Car	/ Cert Expiry Date	n	'p				
					Purchas Kewpa N	se Date : !	05]]01] 05]]01]H/C				
Schedule Ma	aintenan		THE RESIDENCE OF THE PARTY OF T								
SI No			ineer / Technician Name		Date	Start Time	End Time				
1 0	ala,	nn		6	17/1/2019	14:00	16:0s				
Customer Re ★ UNIT	emarks HOS	REEN	LOCATED DT	k.k	CHEMER.						
Engineer / Te	chnician	Signature		Custo	omer Signature		130				
Name /	/ /	NOOR AZAR	UL B AHAMAD	Name	Name Designation						
Date 17/	1/200	PERAK LA	B SPECIALST all Solution Sdr. Bhd	Desig							
	No	10 B. Persia	an Greentown 4c	Date	NOR AZI	INIAS GAMHAHA					
	Greent	OWD Avan	201901		ITA	MR/W32 (KUP)	i				
	Greent	own Avenu	e, 30490 Ipoh, Perak 1 I/Ip:/012-39648013	Seal	JTA KLINIK KE	MR/V32 (KUP) ESIHATOS					

For Internal Use only

First Verification

QMS Circle Incharge

Final Verification QMS State Incharge



KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist nalyzers, Laboratory, Hematology, Cell Counting, Automated (Medium)

CHECKLIST NO:CL-015-003 REV.000

Michigan tale of 2-1	Allai	y 2 01 5,	Lau	or atory	, nei			: ME-009	Automated (Medium)						
PART 1 ASSET DETAILS															
WORK ORDER NO ► A	la Pi	W 4	65	012					BE NO	- P	RK	c	eo	65	-2
MANUFACTURER ► SYS	SMEX								MODEL	► K	X21 /	V			
FREQUENCY ► 6 M	ONTHLY (/)		12 MON	NTHL	_Y ()		PPM HOURS	▶ 2.	00	N2N			
PART 2 SPECIAL PRECAUTIO	N														
If there is evidence of body fluid co	ontamination	, subm	it the	device	for c	leanin	g and	d decontamination	on before inspecting it.						
Wear appropriate Personnel Prote	ction Equipn	nent (F	PE)	during v	vork.										
Wear grounded electrostatic wrist			F(0)				533								
Refer to the safety procedure for a	E6.			d guida	nce a	as per	man	ufacturer guideli	nes.						
Make sure the test equipment use PART 3 TEST APPARATUS	d are duly ca	IIDrate	a.												
Tick (√) where appropriate															
NO ASSET NO				DES	CRIP	TION-			SERIAL NO		CALI	BRA	TION	DUE	40
#10/12 —	ELECT	RICAL	SAF	ETY AN	JALY	ZER			-n	1	<u> </u>				
-10/25-			V. 7-04/200						00	/ /		0			
										_					_
PART 4 QUALITATIVE TASKS															
Fick ($\sqrt{}$) where appropriate		PA	SS	FAIL		NA				F	ASS	F	AIL	N	Α
Chassis - verify physical integ	ritv	(<i>(</i>)	() (١	10	Printer - Verify	Operation	1	/)	١ /	١	(,
cleanliness and condition		,				,		2	**						,
2 Mount/ Fasteners - verify phys	sical integrity	,	()) ()			tubing -Verify Physical Integrity		/) ((,
3 Cables - verify integrity)) ()	12	Solenoid Valve	e- Verify Operation		())	(
4 AC Plug / Power Cord- verify Insulation and integrity	Proper	(/	()	() ()	13	Vaccum and P Integrity	ressure Pump -Verify Physical	(/)	()	(
5 Strain Relief - verify physical both ends of line cord	integrity at	(/)	()	()	a.	Vaccum =0.03 Displaying 0.03		(()	()	(
6 Fittings/ Connectors - check a fittings/connectors	II	(/)	()	()	b.	Vaccum =0.05 Displaying 0.05	mpa (actual)	(1)	()	()
7 Controls/Switches - verify prop	per operation	(/)	()	()	14		- Verify Integrity	(/)	()	()
of controls 8 Indicators /Displays - Verify Pr	oper	1)	()	()	15	Controller Boar	rd - Verify Physical Integrity	(.	/)	()	()
illumination and Operation 9 Plunger & Syringe Motor drive	Vorify	1	,	, ,	(
physical integrity and operation		(/)	()	(,									
PART 5 PREVENTIVE MAINTEN	ANCE TASI	(S													
ick ($\sqrt{}$) where appropriate		DOI	۱E	NOT DONE	ļ	NA				D	ONE		OT ONE	N	٩
Inspect / Clean exterior and in	erior of the	(/)) ()	8	Run Auto Clear	n	()	/)	()	()
equipment 2 Transducer Clean and Verify in	ntegrity	(7)	() ()	9	SRV -Clean an	d Check Condition	(/)	())
3 PPM Kits - Replace if needed)	()) ()	10	Run daily Shute	down	()	,	())
4 Power on Self Test (POST) -V	erify	(/)	(()	11		tion Probe - Clean and Check	(/)	()	()
Operation 5 Fan Filter -Clean and replace i	f needed	(/)	((-)	12		d Lyse pump tubing - Clean an	d (/)	()	()
6 Aperture Plates - Clean and C	heck	(/) (()	()	13	Replace if Nece Waste Champe	essary er - Clean and Check Condition	ı (/)	()	()
Condition 7 Diluent Syringe, Sample Syring		(/) (()	()	14		holder - Clean and Check	()	()	(/	,
aspiration Probe- Clean and C Condition	HECK						Note	s: ** If you i	Parts, NA is defined as NOT A have ticked 'NOT DONE', then e Whichever Applicable						



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

	where appropriate T	1						
No	Description	Units / UOM	Set Values	Measured Values	Limit/Tolerance	PASS	FAIL	NA
	1 Background Check			0 0		,		
	1.1 WBC	x10³/uL			≤0.3	(/)	()	()
	1,2RBC			0.0	≤0.02	(/)_	()	. ()
	1.3 HGB	g/dL	0.0	0.0	≤0.1	(/)	()	()
	1.4 PLT	x10 ³ /uL	0	U	210	(/)	()	t 1
	2 Pressure/Vacuum Check	+						
	2.1 Pressure 0.5kg/cm ²	kg/cm ²			0.4-0.6	()	()	(1)
	2.2 Vacuum 250mmHg	mmHg			230-270	()	()	()
	3 Run QC Test and attach printout	0	350	clion	60 5	,		
	a High level	100	1/4	chm	//	(/)	()	()
_	b Medium Level -///		770	CAMA	tat -	(7)	()	()
	c Low Level -/2(1111	CFIVII	7 -	(/)	()	()
-	4 Run Precision Check	+				(1)	()	()
	\$2000 page 100 page 1							
- 1								
Т7	ELECTRICAL SAFETY TEST	2011	265	la i	Com Con			6 1
TRIC	ELECTRICAL SAFETY TEST CAL SAFETY TEST, (attach report) Where appropriate Standard use: IEC 60601 IEC 61010 IEC 623		CAR CAN Result:	PASS	FAIL D	CTRI R, CIA	CB BC	e Spfin
TRIC	Standard use: BASE					CTRI B, CIA	CP DE	er soft
TRIC	Standard use :					CTRIA B, CIA	CP DE	C SOFT
TRIC	Standard use : R D S F. IEC 60601					CTRIA R CIA	CD DE	e Speri
T 8	Standard use :					CTRIA FINA	CA	er soft
T 8	Standard use : R D S F. IEC 60601	553	Result :	PASS		CTRIA	CB	er Foffu
CTRIC (\ \) TT 8 S : Ite As ne	Standard use: IEC 60601 IEC 61010 IEC 623 NOTES Page 1 IEC 61010 IEC 623 Reded Maintenance IEC 61010 IEC 623	work to be c	Result:	PASS		CTRIA	CB	c Soft
CTRIC	Standard use: IEC 60601	work to be c	Result:	PASS		CTRIA R CIA	CB	e Soft
T 8 T 8 S : Itel	Standard use: IEC 60601 IEC 61010 IEC 623 NOTES	.53 work to be c 143 - 2477 -	Result :	PASS		CTRIA	CO OC	er soft
T 8 S : Ite	Standard use: IEC 60601	.53 work to be c 143 - 2477 -	Result :	PASS		TRIA	CP DC	er Foffu
T 8 T 8 T 8 T 8 T 8 T 8 T 8 T 8 T 8 T 8	Standard use: IEC 60601 IEC 61010 IEC 623 NOTES	.53 work to be c 143 - 2477 -	Result :	PASS		TNA	CP	e Soft
T 8 T 8 T 8 T 8 T 8 T 8 T 8 T 8 T 8 T 8	Standard use: IEC 60601 IEC 61010 IEC 623 NOTES	.53 work to be c 143 - 2477 -	arried out (4)	PASS	FAIL	TFUNCTION	ING	
CTRIC (\) 5 : Ite As ne	Standard use: IEC 60601 IEC 61010 IEC 623 NOTES IEC 60601 IEC 61010 IEC 623 NOTES IEC 60601 IEC 61010 IEC 623 IEC 61010 IEC 623 IEC 61010 IEC 61010 IEC 61010	.53 work to be c 143 - 2477 -	arried out (4)	PASS	FAIL Z	J NA	ING	in software
CTRICAL STATES	Standard use: IEC 60601 IEC 61010 IEC 623 NOTES	work to be o 443 - 2477 - tt no. 442-50	arried out (4)	PASS	FAIL Z	TNA	ING	
T 8 5 : Ite As ne	Standard use: IEC 60601	work to be of 143 - 2477 - 1th no. 442-50	arried out (4)	PASS	FAIL Z	TNA	ING	
T 8 5 : Ite As ne	Standard use: IEC 60601 IEC 61010 IEC 623 NOTES NOTES IEC 60601 IEC 61010 IEC 623 NOTES IEC 60601 IEC 61010 IEC 623 NOTES IEC 61010 IEC 623 IEC 61010 IEC 623	work to be of 143 - 2477 - 1th no. 442-50	arried out (4)	PASS	FAIL Z	TNA	ING	