

EQUIPMENT PURCHASE SPECIFICATION

FOR BME REPRESENTATIVE USE ONLY	
Approved By	Name :Mutabillah Haji Abdullah
Date	Signature : 27 APRIL 2026

TITLE OF TENDER/QUOTATION	TO SUPPLY, DELIVER, INSTALL, TEST AND COMMISSION ONE(1) UNIT OF AUTO-TITRATOR FOR PHARMACY LABORATORY, DEPARTMENT OF SCIENTIFIC SERVICES, MINISTRY OF HEALTH.
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TENDER REFERENCE NO.	DSS/HS/PROC/B50K/2025-2026/019(PCY)
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NAME OF ITEM	ONE (1) UNIT OF AUTO-TITRATOR
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NO.	ITEM DESCRIPTIONS AND SPECIFICATIONS	VENDOR'S OFFER			
		COMPLY (Please tick v) (Provide evidence for compliance(s))		ITEM DESCRIPTIONS AND SPECIFICATIONS	PRICE (\$)
		YES	NO		
1	<u>GENERAL</u>				
1.1	Stand-alone, compact titrator for routine applications supporting routine titrimetric analyses.				
1.2	This unit to include complete accessories such as: <ul style="list-style-type: none"> ● Stirrer ● A dosing drive with atleast 10,000 pulses per cylinder content. ● Atleast 20 ml dosing unit which has an integrated data chip, which allows the system to automatically verify the correct titrant. ● Relevant electrode/electrodes 				

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	Temperature sensor				
2	<u>FEATURES</u>				
2.1	Buret, stirrer and control module in one practical unit allowing for maximum system integration.				
2.2	Enable user to perform a wide range of potentiometric titrations including DET, MET, SET (2 endpoints), STAT, and MAT titrations.				
2.3	To come with touch screen display.				
2.4	1 GB Storage for User method				
2.5	Not restricted to any beaker size. User can choose and are not forced to use one specific beaker.				
2.6	Intelligent rod stirrer - The stirrer rotational speed adapts automatically.				
2.7	Contact-free reagent replacement for Maximum user safety during emptying and preparation of the dosing buret.				
3.0	<u>TECHNICAL SPECIFICATIONS:</u>				
3.1	pH measuring mode				
3.1.1	Measuring range: -13 - +20 pH				
3.1.2	Resolution: 0.001 pH				

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3.1.3	Measuring accuracy: ± 0.003 pH				
3.2	mV measuring mode				
3.2.1	Measuring range: $-1,200 - +1,200$ mV				
3.2.2	Resolution: 0.1 mV				
3.2.3	Measuring accuracy: ± 0.2 mV (± 1 digit, without sensor error, under reference conditions)				
4	<u>DATA HANDLING</u>				
4.1	Generate forge-proof PDF reports without a PC.				
4.2	Customizable calculations with the most common calculations are already available (result templates) as well as the option to define the templates of our own.				
4.3	Data transfer to network printer or USB stick - Store determination data on a USB flash drive				
4.4	Meets all the requirements of «Title 21 CFR part 11»				
5	<u>ACCESSORIES</u>				
5.1	To supply with relevant electrode/electrode(s) for the following application:				

	<p>1) Acid/Base Titration: Sodium Bicarbonate Assay using 0.1M HCl volumetric solutions</p> <p>2) Precipitation Titration: Sodium Chloride Assay using 0.1M Silver Nitrate volumetric solutions</p>				
5.2	To supply with 2 bottles of each buffer/calibration solutions required for electrode calibration.				
6	<u>TRAINING</u>				
6.1	Training shall be included as follows:				
6.2	On-site training for ALL staff members expected to handle the machine. Please ensure that adequate time is allocated such that training will take place in small groups to minimize staff shortage in the laboratory.				
6.3	Certificate of competence is to be issued to all trainees after completion of training.				
6.4	Tenderer must be able to provide Application and Technical support.				
7	<u>INSTALLATION & COMISSIONING</u>				
7.1	The tenderer shall be responsible for the installation, commissioning and test-run of the equipment before final acceptance. All costs shall be borne by the tenderer.				

7.2	Tenderer to include the necessary accessories/arrangements to ensure appropriate power supply required by the equipment.				
7.3	At least one (1) copy of operating and installation manuals in English shall be provided. The manuals shall include details of electrical, electronic, hydraulic and pneumatic circuits where applicable, with identification and specifications of components and spare parts to facilitate servicing and maintenance.				
8	<u>WARRANTY</u>				
8.1	A minimum of one (1) year warranty for manufacturer's defect on the hardware, software and all cost of repairs and/or replacements should be included				
8.2	After-sales services must be provided for the product after one (1) year				
8.3	One-off preventive maintenance to be carried out just before or soon after the one-year warranty period. Scope of work to follow manufacturer's manual / recommendation specific for the equipment offered, which include: <ul style="list-style-type: none"> • Supply, delivery and installation of preventive maintenance kits and/or consumables • Software update (to obtain prior authorization from user and BME) • Inspection • cleaning • alignment • calibration 				

	any other related preventive maintenance works required				
9	DELIVERY Items offered MUST be delivered within _____ from date of approval. (Vendor to indicate the delivery period.)				
10	PRICE VALIDITY Price validity MUST NOT BE LESS THAN 270 days or nine (9) months.				
					TOTAL PRICE (\$)

No.	GENERAL SPECIFICATIONS*	VENDOR'S OFFER
A	Total Price: B\$	
B	Delivery Period:	
C	Model & Brand:	
D	Country of Origin:	
E	Where marketed:	
F	Year of Manufacture:	
G	Warranty:	

No.	GENERAL SPECIFICATIONS*	VENDOR'S OFFER
H	Power Requirement:	
I	Battery Back-up:	
J	International Safety Standard:	
K	Technical Support:	
L	Equipment Whole Life Support:	
M	Dimensions (WxHxD) cm:	
N	User Manuals:	
O	Service Manuals:	
P	Spare-parts & Consumables Listing:	
Q	Technical Training On-Site:	
R	Site Requirements:	

*To all participating companies, please fill in the table above along with your other documents during submission of tender.

Bahagian/Unit/Makmal :	<i>Makmal Farmasi</i>		
Bil. Rujukan Bahagian/Unit/Makmal :	PCY/PR/2025-2026/11		
Pegawai dirujuk :	Nama :	Tan Chien Hee	
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