

EQUIPMENT PURCHASE SPECIFICATION

FOR BME REPRESENTATIVE USE ONLY	
Approved By	Name :Mutabillah Hj Abdullah
	Signature :
Date	27 April 2026

TITLE OF TENDER/QUOTATION	TO SUPPLY, DELIVER, INSTALL, TEST AND COMMISSION ONE (1) UNIT OF pH/ISE METER AND ITS REAGENTS FOR PHARMACY LABORATORY, DEPARTMENT OF SCIENTIFIC SERVICES, MINISTRY OF HEALTH.
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TENDER REFERENCE NO.	DSS/HS/PROC/B50K/2025-2026/021(PCY)
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NAME OF ITEM	pH/ISE meter
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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	Benchtop pH/ISE meter to measures a solution's acidity/alkalinity (pH) and specific ion concentrations (ISE) using electrodes intended for toothpaste fluoride (F ⁻) ion analysis.				
1.1	To come with digital touch screen display.				
1.2	has input channels that can be used for the following: - pH - ISE electrodes - temperature sensor.				

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Section/Laboratory Ref. No. : PCY/PR/2025-2026/13

1.3	Multipoint calibration (Minimum of 3 points, up to 5 points). Calibration working range 0.5ppm to 10ppm (F)				
1.4	Allows for readings in choice of concentration units: - PPM - % w/v				
2	Technical specifications:				
2.1	(ISE) Accuracy: $\pm 0.5\%$ or better				
2.2	(ISE) Resolution: 1,2,3 significant digits or better				
2.3	(ISE) Range: Minimum 5.0×10^{-3} ppm to 100000 ppm or better				
2.4	To supply with Fluoride Combination Ion Selective Solid state electrode with BNC connection to meter. Qty: 1 unit				
2.5	To be supplied with : pH Combination electrode x 1 unit				
2.6	Temperature sensor/probe(ATC) x 1 unit				
3	To supply with the following reagent:				
3.1	TISAB III (Total Ionic Strength adjustment Buffer) solution Qty: 3 x 500ml bottle				

3.2	Fluoride ISE 100ppm Standard Solution Qty: 2 x 500ml bottle				
3.3	Electrolyte filling solution for : ISE (F ⁻) electrode. Qty: 120ml or equivalent for ISE electrode filling solution.				
3.4	Electrolyte filling solution for : pH Probe. Qty: 1 bottle of electrolyte filling solution for the pH probe supplied.				
4	Must be able to utilise mains power supply of 220 - 240 V AC, 50 - 60 Hz. Otherwise, tenderer to include the necessary arrangements to ensure appropriate power supply required by the equipment.				
5	<u>TRAINING</u>				
5.1	Training shall be included as follows:				
5.2	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.				
5.3	Training to cover operations, calibration and maintenance of the equipment as well as assisting				

	in method development of Fluoride ion analysis of toothpaste.				
5.4	Certificate of competence is to be issued to all trainees after completion of training.				
6	<u>WARRANTY</u>				
6.1	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				
6.2	After-sales services must be provided for the product after one (1) year				
7	<u>DELIVERY</u> Items offered MUST be delivered within _____ from date of approval. (Vendor to indicate the delivery period.)				
8	<u>PRICE VALIDITY</u> Price validity MUST NOT BE LESS THAN 270 days or nine (9) months.				
					<u>TOTAL PRICE (\$)</u>

No.	GENERAL SPECIFICATIONS*	VENDOR'S OFFER
A	Total Price: B\$	
B	Delivery Period:	

No.	GENERAL SPECIFICATIONS*	VENDOR'S OFFER
C	Model & Brand:	
D	Country of Origin:	
E	Where marketed:	
F	Year of Manufacture:	
G	Warranty:	
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:	

No.	GENERAL SPECIFICATIONS*	VENDOR'S OFFER
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/2025-2026/13		
Pegawai dirujuk :	Nama :	Tan Chien Hee	
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