

EQUIPMENT PURCHASE SPECIFICATION

FOR BME REPRESENTATIVE USE ONLY	
Approved By	Name : Zaenul Rosli
	Signature :
Date	30/9/2026

TITLE OF TENDER/QUOTATION	TO SUPPLY, DELIVER, INSTALL, TEST AND COMMISSION ONE (1) UNIT OF POSITIVE PRESSURE MANIFOLD FOR TOXICOLOGY LABORATORY , DEPARTMENT OF SCIENTIFIC SERVICES, MINISTRY OF HEALTH.
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TENDER REFERENCE NO.	DSS/FS/PROC/B50K/2026-2027(047)TOX
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NAME OF ITEM	POSITIVE PRESSURE MANIFOLD
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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		
1.1	One (1) Unit of Positive Pressure Manifold to facilitate controlled positive-pressure SPE of hair extracts for the extraction and purification of drugs and metabolites prior to instrumental analysis by LC-MS/MS				
1.2	Sample Capacity: - Accommodates 1 to 48 columns (1mL, 3mL, 6mL, 10mL - or 15mL SPE columns with appropriate adapter plates.				
1.3	Collection Rack: Includes a rack for 16 x 100 mm test tubes				

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1.4	Pressure Control: Features dual pressure regulators for fine (regulated) and full flow (drying) adjustments, ensuring uniform flow from port to port regardless of batch size.				
1.5	Gas Supply: Requires Nitrogen or compressed air regulated to 80-120 psi and filtered to 10µm.				
1.6	Operation: Pneumatically operated with a single switch to raise and lower sample racks and create an airtight seal.				
1.7	Waste Management: Includes a waste reservoir with a stopcock assembly for easy drainage.				
2	ACCESSORIES & CONSUMMABLES:				
2.1	Positive Pressure Manifold Installation Kit: • 25' ¼" O.D. Plastic rigid tubing rated for a minimum of 80 to 100 psi • Silver attachment bracket • In-line Fas Filter • Gas Regulator • Gas Source (Nitrogen or Air) • ¼" Compression Fitting for Attachment to gas source				
2.2	One (1) Piece of Positive Pressure Manifold 3mL SPE Rack Adaptor Set				
2.3	One (1) Piece of Positive Pressure Manifold 1mL SPE Rack Adaptor Set				

2.4	1000 pcs of Solid Phase Extraction (SPE) Column: • Sorbent Mass: 200 mg. • Tube Volume: 3 mL. • Sorbent Type: Silica-polymer hybrid • Pore Size: 60 Å. • Surface Area: 500.0 m²/g. • Hardware Material: Polypropylene (PP). • Particle Removal: Removes particulates larger than 1 µm. • Endcapping: None.				
2.5	1000 Pcs of HPLC Syringe Filter: • Diameter: 13mm • Filter Material: Nylon • Housing Material: Polypropylene • Luer Type: Lock • Pore size: 0.2 µm • Syringe Filter Type: Econo • UNSPSC Code: 41104921 • pH Range: 2-13				
2.6	One (1) unit of Nitrogen generator with integrated Compressor suitable for the item offered. including all necessary piping works required				
2.7	Must be able to utilise mains power supply of 220 – 240 V AC, 50 – 60 Hz with sufficient power outlets. Otherwise, tenderer to include the necessary arrangements to ensure appropriate power supply required by the equipment.				
3	<u>TRAINING</u>				

3.1	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.				
3.2	Certificate of competence is to be issued to all trainees after completion of training.				
4	<u>WARRANTY</u>				
4.1	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				
4.2	After-sales services must be provided for the product after one (1) year				
4.3	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: • 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				
5	<u>DELIVERY</u> Items offered MUST be delivered within Twelve (12) Weeks from date of approval.				

	(Vendor to indicate the delivery period.)				
6	PRICE VALIDITY Price validity MUST NOT BE LESS THAN Twelve (12) 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:	
H	Power Requirement:	
I	Battery Back-up:	

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No.	GENERAL SPECIFICATIONS*	VENDOR'S OFFER
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 :	MAKMAL TOKSIKOLOGI		
Bil. Rujukan Bahagian/Unit/Makmal :	DSS/TOX/PR/2026/B50K/001		
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