

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 MICROCENTRIFUGE FOR TOXICOLOGY LABORATORY, DEPARTMENT OF SCIENTIFIC SERVICES, MINISTRY OF HEALTH.
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TENDER REFERENCE NO.	DSS/FS/PROC/B50K/2026-2027/048(TOX)
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NAME OF ITEM	MICROCENTRIFUGE
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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 high speed microcentrifuge to separate residual hair particles and insoluble materials from the extracted sample following hair digestion/extraction, producing a clarified supernatant suitable for subsequent SPE and LC-MS/MS analysis.				
1.2	Microprocessor Control with large LCD display				
1.3	Over-speed protection				
1.4	Able to store programs				
1.5	Momentary spin button				
1.6	Imbalance detection				

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1.7	Adjustable Acceleration / Deceleration				
1.8	Audible end of run alarm				
1.9	CFC-free refrigeration system				
1.10	Speed Range: 200 to 15,000 rpm				
1.11	Max. RCF: 21,379 x g				
1.12	Max Capacity: 44 x 1.5/2.0 ml				
1.13	Timer: up to 99 hours				
1.14	Weight: 30-40 lbs (13-18 kg)				
1.15	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.				
2	Rotor specifications				
2.1	24 x 1.5/2.0ml Angle Rotor (45°)				
2.2	Max Speed: 15,000 rpm / 21,379 x g				
2.3	Acceleration : 21 seconds Deceleration: 18 seconds				
2.4	Must be able to accommodate 2ml screw cap tubes				
2.5	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	DELIVERY Items offered MUST be delivered within 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:	

No.	GENERAL SPECIFICATIONS*	VENDOR'S OFFER
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 :	MAKMAL TOKSIKOLOGI		
Bil. Rujukan Bahagian/Unit/Makmal :	DSS/TOX/PR/2026/B50K/002		
Pegawai dirujuk :	Nama :	MOHD SALLEH HJ HUSSIN	
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