

LAMPIRAN - A1

RUJ: BME/A2K/(1712)/2026/HTD (A20)

14/7/2026

REPAIR OF PRIMARY LABORATORY CONTAINMENT CABINETS AT DEPARTMENT OF SCIENTIFIC SERVICES,
MINISTRY OF HEALTH

SCOPE OF WORK

Repair of twenty one (21) units of primary laboratory containment cabinets of various brands and models at Department of Scientific Services, Ministry of Health.

Location, list of equipment including spare parts required for replacement can be seen in **Lampiran B**.

Vendors are to fill in **Lampiran B**.

- Repair scope of work to follow equipment manual/recommendation specific for each equipment which include the following where necessary:

(i) installation of items listed in spareparts list (Lampiran N)

(ii) alignment

(iii) calibration

(iv) optimisation

(v) any other related maintenance works required after installation of items listed in spareparts list (**Lampiran B**)

- Functional check post-maintenance.

- Disposal of any used spare parts, unless otherwise instructed.

- Work on the system is to be carried out by engineer(s) authorised in providing maintenance to the equipment.

- Vendor(s) to submit maintenance checklist/details/scope specific for the equipment along with other necessary documents to join this tender.

LAMPIRAN - A2

RUJ: BME/A2K/(1712)/2026/HTD (A20)

**REPAIR OF PRIMARY LABORATORY CONTAINMENT CABINETS AT DEPARTMENT OF SCIENTIFIC SERVICES,
MINISTRY OF HEALTH**

	SPAREPART	PART NUMBER	QUANTITY
1	Refer to Lampiran B		

Location	No	Description	Brand	Model	Serial Number	BME No.	Parts to replace:	Parts included: Yes/No	Price of parts \$
Environment Laboratory	1	FUMEHOOD	ESCO	EFD-6B1	2007-20569	BME6382	Light fittings		
	2	LAMINAR FLOW CABINET	ESCO	LHC-6A1	2012-67191	N/A	UPLA Filter		
Food Chemistry Laboratory, Berakas	3	PCR CABINET	ESCO	PCR-3A1	2009-37062	BME6934	Swivel castor with brake		
	4	PCR CABINET	ESCO	PCR-3A1	2009-37061	BME6933	1-line LCD soldered with FRC (1600mm)		
Food Chemistry Laboratory, Serasa	5	FUMEHOOD	ESCO	N/A	2015-99093	N/A	Glass panel		
	6	FUMEHOOD	METHOD II	N/A	N/A	N/A	Fan motor switch		
Forensic Biology Laboratory	7	BIOSAFETY CABINET	ESCO	LB2-6B1	2012-67188	N/A	H14 filter (exhaust)		
							ULPA filter (down flow)		
							Pre-filter		
	8	BIOSAFETY CABINET	ESCO	LB2-6B1	2012-67187	N/A	SMPS (Switch mode power supply)		
	9	LAMINAR FLOW CABINET	ESCO	N/A	2012-67192	N/A	ULPA filter		
							Pre-filter		
	10	PCR CABINET	N/A	PCR-3A1	2009-38701	BME11071	ULPA filter		
							Pre filter		
							SMPS		
							Membrane interface board		
Toxicology Laboratory	11	BIOSAFETY CABINET	ESCO	LCZ-6A1	2012-67193	N/A	Main controller board		
							H14 filter		
							ULPA filter		
							V-bank filter		
	12	BIOSAFETY CABINET	ESCO	LA2-5A1	2009-43733	BME11266	UV light		
							H14 filter		
							ULPA filter		
							Membrane interface board		
Microbiology Laboratory	13	FUMEHOOD	ESCO	EFA-6UDRVW-8	2012-63900	N/A	SMPS		
							Exhaust fan motor		
							VFD (variable frequency drive)		
	14	FUMEHOOD	ESCO	N/A	2011-65227	N/A	Capacitor 25 µf		
	15	FUMEHOOD	ESCO	N/A	2011-65208	N/A	VFD		
	16	BIOSAFETY CABINET	ESCO	LA2-6A1	2008-34924	BME6755	Membrane interface board		
							SMPS		
							Main controller board		
Pharmacy Laboratory	17	BIOSAFETY CABINET	ESCO	LA2-6A1	2014-75341	BME19536	Membrane interface board		
							SMPS		
	18	LAMINAR FLOW CABINET	N/A	AVC-6D1	2013-85774	BME19550	Main controller board		
	19	LAMINAR FLOW CABINET	N/A	AVC-6D1	2013-85773	BME19533	ULPA filter		
	20	FUMEHOOD	MODULAB	MODULAB F2	N/A	N/A	ULPA filter		
	21	FUMEHOOD	MODULAB	MODULAB F3	N/A	N/A	Exhaust motor assy		
								Total price \$	