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Planning

Bespoke MSCIII cabinet

Secretary of State for Health and Social Care acting as part of the Crown through UK Health Security Agency

F01: Prior information notice

Prior information only

Notice identifier: 2023/S 000-037201

Procurement identifier (OCID): ocds-h6vhtk-0426a4

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Section I: Contracting authority

I.1) Name and addresses

Secretary of State for Health and Social Care acting as part of the Crown through UK Health Security Agency

10 South Colonnade

London

E14 4PU

Email

science.tendering@ukhsa.gov.uk

Country

United Kingdom

Region code

UKI42 - Tower Hamlets

Internet address(es)

Main address

<https://www.gov.uk/government/organisations/uk-health-security-agency>

Buyer's address

<https://www.gov.uk/government/organisations/uk-health-security-agency>

I.3) Communication

Additional information can be obtained from the above-mentioned address

Electronic communication requires the use of tools and devices that are not generally available. Unrestricted and full direct access to these tools and devices is possible, free of charge, at

<https://health-family.force.com/s/Welcome>

I.4) Type of the contracting authority

Ministry or any other national or federal authority

I.5) Main activity

Health

Section II: Object**II.1) Scope of the procurement****II.1.1) Title**

Bespoke MSCIII cabinet

II.1.2) Main CPV code

- 33192350 - Medical cultivation cabinet

II.1.3) Type of contract

Supplies

II.1.4) Short description

UKHSA Biosafety Group at Porton Down are looking for a bespoke class III safety cabinet. This equipment will be used for a range of activities including aerobiology and the test and validation of equipment and materials for commercial, research and incident response work. Whilst some of the work will be with pathogens and require a high level of containment, some of it will be using non-pathogenic agents, using the cabinet as a clean enclosure. This will include operation of the cabinet under conditions not normally used at CL3, such as working within the cabinet without the ventilation running.

II.1.5) Estimated total value

Value excluding VAT: £50,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.3) Place of performance

NUTS codes

- UKK15 - Wiltshire CC

Main site or place of performance

Porton Down

II.2.4) Description of the procurement

Due to the specific needs and requirements, the solution must comprise the following specifications:

- Internal dimensions of 1600mm wide, 760mm deep and 820mm high.
- Single, non-ventilated pass box.
- Removable front window - being easily removed and replaced.
- Window will have four 200 mm diameter glove ports (with a double o-ring attachment) at a standard height and 2 or 3 fitted in the top half of the window (position and number of ports will be determined and confirmed via simple mock-up).
- Manufactured and tested in accordance to EN 12469:2000.
- The air change rate within the cabinet must not be less than 6 meters cubed per minute for each cubic metre of cabinet volume.
- The working pressure in the cabinet must not be less than -200 Pa (with respect to the laboratory). A manometer capable of measuring from -500 Pa to +500 Pa must be

mounted on the cabinet to give a visual indication of the pressure in the interior.

- The cabinet must be supplied with HEPA (High-efficiency particulate air) filtration to Class H-14 99,995% MPPS overall efficiency. Integrity testing of filters using Dispersed Oil Particulate (DOP) scanning of the downstream side of filters, seals, gaskets and construction joints must ensure that no leak penetrations produced are greater than 0.003% of the upstream challenge aerosol.
- Cabinet must be fitted with double HEPA on exhaust.
- Both HEPAs must be independently testable and must be mounted in accordance to section 7.5 of BS EN 12469:2000.
- The cabinet must be fitted with injection and extraction ports for use with an external hydrogen peroxide fumigation systems (1¼" Camlock fittings). Injection to be through the inlet filter and removal post installed extract filters.
- Connection to allow for monitoring of pressure.
- The cabinet must be supplied with clear, easy to operate control panels, visible from the operators seated position and easy to access.
- The main chamber will be fitted with 2 x 1¼" Camlock fittings and 2 compressed gas fittings with solenoid valve linked to alarms.
- The main chamber will have an accessible, removable service plate 40cm x 20cm to allow for flexibility in the future to add additional services, initially provided with the following fittings; 2 compressed air fitting, 4 x 1 1/2" sanitary fitting, 4 x 8mm hose bar fittings, three USB connections, allowing space for future additional fittings as required.
- Fasteners must be stainless steel grade (316). All internal surfaces and fittings should be easily cleanable, and suitably finished to minimise the possibility of damage to the cabinet gauntlets and to facilitate effective cleaning.
- The cabinet must be fitted with 4 min no internal electrical sockets with the following requirements:
 - independently switchable;
 - 13 amp fused supply;
 - 1x Fumigation socket;
 - Installed in suitable positions to allow easy access during work (usually on the side panels);
 - Splash proof but sockets with fully sealed covers should be avoided;
 - Socket covers must allow for small equipment charging devices to be plugged in directly and accommodate a variety of sizes.
- The cabinet must be resistant to disinfectants, including the following chemicals: Sodium hypochlorite 10% solution, Isopropanol, industrial methylated spirit (IMS), Formaldehyde, Hydrogen Peroxide, quaternary ammonias and other disinfectants. The cabinet must be able to withstand repeated fumigation using Formaldehyde or Hydrogen Peroxide systems.
- Performance factory quality assurance documentation (e.g final release record form) must be provided, this is to include but not limited to evidence of HEPA integrity, airflows, pressure decay test, restart automatically after power failure.
- The cabinet will be connected to local ventilation systems by means of an exhaust thimble.

- After installation the cabinet must retain all the exhaust air during fumigation degas. This must be confirmed at the commissioning stage.
- The cabinet must be fitted with shut-tight damper (100% gas tight) on both supply and extract for use during fumigation.
- The cabinet must have the option to be bench mounted or stand mounted.
- The cabinet must be subjected to a pressure hold test at commissioning and then every service. This must be carried out at a positive pressure of >250 Pa, and the cabinet must hold pressure to within +/-10% of the test pressure for not less than 30 minutes. DOP scan test must be carried out at a positive pressure of 250 Pa. All joints, seals and penetrations must be scanned as part of the installation at 250 Pa positive pressure. The recorded penetration around all joints, seals and penetrations must be less than 0.003% of the challenge aerosol.
- Cables are not permitted to pass through the containment barrier, all electrical connections through the cabinet walls must be made with fully sealed bulkhead connections.
- The cabinet is expected to run continuously between service intervals for at least 12 months without need for maintenance.
- There will be programable automated fumigation cycles for use with both formaldehyde fumigation systems and hydrogen peroxide, using a Steris hydrogen peroxide generator. This will allow for remote venting of the cabinet and have evidence of the success/failure of cycles, including the cycle times. The fumigation sockets must remain live throughout the cycle.
- The cabinet will be used as an aerosol test chamber and the control system will allow for modifications to the normal operation of the cabinet, this will include allowing for clean work to be undertaken without the fans in operation and independent operation of the fitted dampers.

II.3) Estimated date of publication of contract notice

29 February 2024

Section IV. Procedure

IV.1) Description

IV.1.8) Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: Yes