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Award

## **Accurate Mass Gas Chromatograph Mass Spectrometer (Orbitrap)**

Durham University

F15: Voluntary ex ante transparency notice

Notice identifier: 2022/S 000-034841

Procurement identifier (OCID): ocds-h6vhtk-038c06

Published 8 December 2022, 4:31pm

### **Section I: Contracting authority/entity**

#### **I.1) Name and addresses**

Durham University

South Road

DURHAM

DH13LE

#### **Contact**

Adam Harwood

#### **Email**

[procurement.office@durham.ac.uk](mailto:procurement.office@durham.ac.uk)

#### **Telephone**

+44 1913496052

#### **Country**

United Kingdom

**Region code**

UKC14 - Durham CC

**Companies House**

RC000650

**Internet address(es)**

Main address

[www.durham.ac.uk](http://www.durham.ac.uk)

**I.4) Type of the contracting authority**

Body governed by public law

**I.5) Main activity**

Education

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**Section II: Object**

**II.1) Scope of the procurement**

**II.1.1) Title**

Accurate Mass Gas Chromatograph Mass Spectrometer (Orbitrap)

Reference number

ITT22-041

**II.1.2) Main CPV code**

- 38432210 - Gas chromatographs

**II.1.3) Type of contract**

Supplies

#### **II.1.4) Short description**

The University has a requirement to purchase an Orbitrap Gas Chromatograph Mass Spectrometer (GC-MS) with liquid, headspace and SPME arrow sample introduction systems. The instrument will be situated in the geography laboratories and will support researchers in multiple departments.

The University has published this VEAT notice and intends to award a contract to Thermo Fisher Scientific, following the expiry of 10 days from the date of publication of this notice.

#### **II.1.6) Information about lots**

This contract is divided into lots: No

#### **II.1.7) Total value of the procurement (excluding VAT)**

Value excluding VAT: £391,665.91

### **II.2) Description**

#### **II.2.2) Additional CPV code(s)**

- 38433100 - Mass spectrometer

#### **II.2.3) Place of performance**

NUTS codes

- UKC1 - Tees Valley and Durham

#### **II.2.4) Description of the procurement**

The University has a requirement to purchase a high-resolution accurate mass Orbitrap Gas Chromatograph Mass Spectrometer (GC-MS) with liquid, headspace and SPME arrow sample introduction systems. The Orbitrap GCMS must have the capability for highly accurate and reproducible identification, quantification, and tracing of individual organic compounds with known sources or pathways, from a wide variety of environments and sample types. The instrument must be supplied with computer hardware and software capable of operating the instrument and data processing/analysis.

The University has published this VEAT notice and intends to award a contract to Thermo Fisher Scientific, following the expiry of 10 days from the date of publication of this notice.

#### **II.2.11) Information about options**

Options: No

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## Section IV. Procedure

### IV.1) Description

#### IV.1.1) Type of procedure

Negotiated without a prior call for competition

- The works, supplies or services can be provided only by a particular economic operator for the following reason:
  - absence of competition for technical reasons

Explanation:

The system must have the following key features:

- A 60,000 resolution (Full Width Half Max  $m/z$  200) system, capable of switching dynamically between full scan and Selected Ion Mode (SIM) mode.
- Mass range of  $m/z$  30 - 2000.
- High sensitivity due to the low concentration of target molecules in environmental samples.

Electron Ionisation: 100 fg octafluoronaphthalene on column, scanning  $m/z$  50-300, S/N 10,000:1

Electron Ionisation Instrument Detection Limit: 6 fg octafluoronaphthalene derived at the 99% confidence level

Positive Chemical Ionisation: 10 pg benzophenone on column, scanning  $m/z$  80-230, S/N 150:1

- Vent free analytical column and ion source/lens exchange.
- Variable electron energy acquisition for increased molecular ion production.
- High mass accuracy below 2 ppm.
- A bench top system with a height of no more than 1000 mm.
- An interchangeable integrated sample introduction system (liquid, headspace and

SPME arrow).

- Fast MS/MS scan speeds (e.g. 7.5 Hz at 60,000), to allow for high throughput sample analyses.
- Software capable of performing targeted and non-targeted analysis of complex environmental samples.
- MS/MS and chemical ionisation for confirmation of molecular ion.
- Compatibility with existing software systems (Chromeleon).
- Compatibility with existing Thermo Scientific GC / GCMS systems to allow interchange of injector modules and parts (e.g. Programmable Temperature Vaporisation, split/splitless, ion volumes)

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

The procurement is covered by the Government Procurement Agreement: Yes

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## **Section V. Award of contract/concession**

### **Contract No**

ITT22-041

### **Title**

Accurate Mass Gas Chromatograph Mass Spectrometer (Orbitrap)

A contract/lot is awarded: Yes

### **V.2) Award of contract/concession**

#### **V.2.1) Date of conclusion of the contract**

8 December 2022

#### **V.2.2) Information about tenders**

The contract has been awarded to a group of economic operators: No

#### **V.2.3) Name and address of the contractor/concessionaire**

Thermo Fisher Scientific

Stafford House, Boundary Way,

Hemel Hempstead

HP2 7GE

Country

United Kingdom

NUTS code

- UK - United Kingdom

Companies House

00441506

Internet address

<https://www.thermofisher.com/uk/en/home.html>

The contractor/concessionaire is an SME

No

**V.2.4) Information on value of contract/lot/concession (excluding VAT)**

Initial estimated total value of the contract/lot/concession: £391,665.91

Total value of the contract/lot/concession: £391,665.91

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## **Section VI. Complementary information**

### **VI.4) Procedures for review**

#### **VI.4.1) Review body**

Durham University

Durham

DH1 3LE

Country

United Kingdom