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Contract

## **3566/JN - Sustainable Aviation Fuels - Innovation Centre: Additional Aviation Characterisation Laboratory Equipment (6 Lots)**

UNIVERSITY OF SHEFFIELD

F03: Contract award notice

Notice identifier: 2023/S 000-010614

Procurement identifier (OCID): ocds-h6vhtk-03940e

Published 13 April 2023, 11:40am

### **Section I: Contracting authority**

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

UNIVERSITY OF SHEFFIELD

THE UNIVERSITY OF SHEFFIELD, WESTERN BANK

SHEFFIELD

S102TN

#### **Contact**

James Noble

#### **Email**

[james.noble@sheffield.ac.uk](mailto:james.noble@sheffield.ac.uk)

#### **Country**

United Kingdom

**Region code**

UKE32 - Sheffield

**Companies House**

RC000667

**Internet address(es)**

Main address

<https://in-tendhost.co.uk/sheffield/>

**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**

3566/JN - Sustainable Aviation Fuels - Innovation Centre: Additional Aviation Characterisation Laboratory Equipment (6 Lots)

Reference number

3566/JN

**II.1.2) Main CPV code**

- 38000000 - Laboratory, optical and precision equipments (excl. glasses)

**II.1.3) Type of contract**

Supplies

**II.1.4) Short description**

The University of Sheffield (UoS) with funding from the European Regional Development Fund (ERDF) is establishing a Sustainable Aviation Fuels Innovation Centre (SAF-IC) to support and promote the production and characterisation of decarbonised and sustainable aviation fuel. Further to our previous tenders (3073/JN and 3325/JN) we are looking to complement our research capability and procure a range of test equipment approved to various ASTM (American Society for Testing and Materials) standards as well as other internationally recognised standards where appropriate.

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

This contract is divided into lots: Yes

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

Value excluding VAT: £105,649

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

#### **II.2.1) Title**

Surface Tension in conformity with ASTM D1331

Lot No

1

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

- 38400000 - Instruments for checking physical characteristics
- 38500000 - Checking and testing apparatus

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

NUTS codes

- UKE32 - Sheffield

Main site or place of performance

Sustainable Aviation Fuels - Innovation Centre, Sheffield Business Park, Europa Avenue, Sheffield, S9 1ZA

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

Surface tension is a measurement of the cohesive energy present at an interface. Values

for surface tension are usually given when the surface of the liquid is in contact with air. This understanding is important in two key fuel areas, including (i) the movement of gas (air) into and out of turbine fuel, and (ii) the movement of turbine fuel into airstreams by atomization.

We are looking for an automated, reliable, durable, compact, and user friendly instrument for quantification of the surface tension of jet fuel at a range of temperature, in conformity with the ASTM D1331 for Sustainable Aviation Fuel/Innovation Centre (SAF-IC) characterisation lab.

### **II.2.5) Award criteria**

Quality criterion - Name: Quality / Weighting: 70

Price - Weighting: 30

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

Options: No

### **II.2.14) Additional information**

This procurement is related to a project and/or programme financed by European Union funds: European Regional Development Fund (ERDF)

## **II.2) Description**

### **II.2.1) Title**

Electrical conductivity in conformity with ASTM D2624

Lot No

2

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

- 38400000 - Instruments for checking physical characteristics
- 38500000 - Checking and testing apparatus

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

NUTS codes

- UKE32 - Sheffield

Main site or place of performance

Sustainable Aviation Fuels - Innovation Centre, Sheffield Business Park, Europa Avenue, Sheffield, S9 1ZA

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

Aviation fuels, in general, are highly refined products with a very low electrical conductivity. This indicates that they have the potential to build up a very high static electrical charge, which can lead to sparking and ignition of explosive vapours. Commonly, aviation fuels are pumped through distribution lines and filters causing the potential for an static electrical discharge. In any event, the low conductivity of aviation fuels is the fundamental property that can cause a very hazardous situation to arise when handling flowing fuels.

We are looking for a rapid and reliable test device for determining the electrical conductivity of aviation fuels, in conformity with ASTM D2624 for the Sustainable Aviation Fuel-Innovation Centre (SAF-IC) characterisation lab.

#### **II.2.5) Award criteria**

Quality criterion - Name: Quality / Weighting: 70

Price - Weighting: 30

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

Options: No

#### **II.2.14) Additional information**

This procurement is related to a project and/or programme financed by European Union funds: European Regional Development Fund (ERDF)

## **II.2) Description**

### **II.2.1) Title**

Thermal Conductivity in conformity with ASTM D7894

Lot No

3

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

- 38400000 - Instruments for checking physical characteristics
- 38500000 - Checking and testing apparatus

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

NUTS codes

- UKE32 - Sheffield

Main site or place of performance

Sustainable Aviation Fuels - Innovation Centre, Sheffield Business Park, Europa Avenue, Sheffield, S9 1ZA

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

We are looking for a rapid and reliable test device for determining the thermal conductivity of aviation fuels, in conformity with ASTM D7894 for the Sustainable Aviation Fuel-Innovation Centre (SAF-IC) characterisation lab.

## **II.2.5) Award criteria**

Quality criterion - Name: Quality / Weighting: 70

Price - Weighting: 30

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

Options: No

## **II.2.14) Additional information**

This procurement is related to a project and/or programme financed by European Union funds: European Regional Development Fund (ERDF)

## **II.2) Description**

### **II.2.1) Title**

Existent Gum in Aviation Fuel, in conformity with ASTM D381

Lot No

4

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

- 38400000 - Instruments for checking physical characteristics
- 38500000 - Checking and testing apparatus

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

NUTS codes

- UKE32 - Sheffield

Main site or place of performance

Sustainable Aviation Fuels - Innovation Centre, Sheffield Business Park, Europa Avenue, Sheffield, S9 1ZA

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

We are looking for a rapid and reliable test device for quantification of existent gum in aviation fuels, in conformity with ASTM D381 for the Sustainable Aviation Fuel-Innovation Centre (SAF-IC) characterisation lab.

### **II.2.5) Award criteria**

Quality criterion - Name: Quality / Weighting: 70

Price - Weighting: 30

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

Options: No

### **II.2.14) Additional information**

This procurement is related to a project and/or programme financed by European Union funds: European Regional Development Fund (ERDF)

## **II.2) Description**

### **II.2.1) Title**

Quantification of speed of sound in aviation fuel

Lot No

5

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

- 38400000 - Instruments for checking physical characteristics
- 38500000 - Checking and testing apparatus

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

NUTS codes

- UKE32 - Sheffield

Main site or place of performance

Sustainable Aviation Fuels - Innovation Centre, Sheffield Business Park, Europa Avenue, Sheffield, S9 1ZA

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

We are looking for a rapid and reliable test device for quantification of speed of sound in aviation fuel, for the Sustainable Aviation Fuel-Innovation Centre (SAF-IC) characterisation lab. This is an in direct method to determine the Isentropic Bulk Modulus as function of temperature (ASTM D6793).

### **II.2.5) Award criteria**

Quality criterion - Name: Quality / Weighting: 70

Price - Weighting: 30

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

Options: No

### **II.2.14) Additional information**

This procurement is related to a project and/or programme financed by European Union funds: European Regional Development Fund (ERDF)

## **II.2) Description**

### **II.2.1) Title**



A Test Device for Flammability Limits of Aviation Fuels, in Conformity with ASTM E681

Lot No

6

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

- 38400000 - Instruments for checking physical characteristics
- 38500000 - Checking and testing apparatus

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

NUTS codes

- UKE32 - Sheffield

Main site or place of performance

Sustainable Aviation Fuels - Innovation Centre, Sheffield Business Park, Europa Avenue, Sheffield, S9 1ZA

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

We are looking for a controlled test device for determining flammability limits of aviation fuels for our Fuel/Innovation Centre (SAF-IC) characterisation lab.

### **II.2.5) Award criteria**

Quality criterion - Name: Quality / Weighting: 70

Price - Weighting: 30

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

Options: No

### **II.2.14) Additional information**

This procurement is related to a project and/or programme financed by European Union funds: European Regional Development Fund (ERDF)

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## **Section IV. Procedure**

### **IV.1) Description**

#### **IV.1.1) Type of procedure**

Open procedure

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

The procurement is covered by the Government Procurement Agreement: Yes

### **IV.2) Administrative information**

#### **IV.2.1) Previous publication concerning this procedure**

Notice number: [2022/S 000-036505](#)

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

### **Lot No**

1

### **Title**

Surface Tension in conformity with ASTM D1331

A contract/lot is awarded: No

### **V.1) Information on non-award**

The contract/lot is not awarded

No tenders or requests to participate were received or all were rejected

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

### **Lot No**

2

### **Title**

Electrical conductivity in conformity with ASTM D2624

A contract/lot is awarded: No

### **V.1) Information on non-award**

The contract/lot is not awarded

No tenders or requests to participate were received or all were rejected

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

### **Contract No**

3566/JN

### **Lot No**

3

### **Title**

Thermal Conductivity in conformity with ASTM D7894

A contract/lot is awarded: Yes

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

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

20 March 2023

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

Number of tenders received: 1

Number of tenders received from SMEs: 1

Number of tenders received by electronic means: 1

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

**V.2.3) Name and address of the contractor**

Merrow Scientific Ltd

2a The Quadrant

Epsom

KT17 4RH

Country

United Kingdom

NUTS code

- UKJ2 - Surrey, East and West Sussex

Companies House

5012440

The contractor is an SME

Yes

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

Initial estimated total value of the contract/lot: £40,000

Total value of the contract/lot: £46,800

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

### **Contract No**

3566/JN

### **Lot No**

4

### **Title**

Existent Gum in Aviation Fuel, in conformity with ASTM D381

A contract/lot is awarded: Yes

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

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

21 March 2023

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

Number of tenders received: 2

Number of tenders received from SMEs: 2

Number of tenders received by electronic means: 2

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

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

Anton Paar Ltd

Unit F The Courtyard

St Albans

AL4 0LA

Country

United Kingdom

NUTS code

- UKH23 - Hertfordshire

Companies House

1606777

The contractor is an SME

Yes

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

Initial estimated total value of the contract/lot: £12,000

Total value of the contract/lot: £23,384

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

### **Contract No**

3566/JN

### **Lot No**

5

### **Title**

Quantification of speed of sound in aviation fuel

A contract/lot is awarded: Yes

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

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

21 March 2023

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

Number of tenders received: 1

Number of tenders received from SMEs: 1

Number of tenders received by electronic means: 1

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

**V.2.3) Name and address of the contractor**

Anton Paar Ltd

Unit F The Courtyard

St Albans

AL4 0LA

Country

United Kingdom

NUTS code

- UKH23 - Hertfordshire

Companies House

1606777

The contractor is an SME

Yes

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

Initial estimated total value of the contract/lot: £30,000

Total value of the contract/lot: £35,465

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

### **Lot No**

6

### **Title**

A Test Device for Flammability Limits of Aviation Fuels, in Conformity with ASTM E681

A contract/lot is awarded: No

### **V.1) Information on non-award**

The contract/lot is not awarded

No tenders or requests to participate were received or all were rejected

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## **Section VI. Complementary information**

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

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

The University of Sheffield

Sheffield

S10 2TN

Email

[james.noble@sheffield.ac.uk](mailto:james.noble@sheffield.ac.uk)

Country

United Kingdom