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Tender

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

UNIVERSITY OF SHEFFIELD

F02: Contract notice

Notice identifier: 2022/S 000-036505

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

Published 23 December 2022, 11:08am

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

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

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.3) Communication**

The procurement documents are available for unrestricted and full direct access, free of charge, at

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

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

<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.1.5) Estimated total value

Value excluding VAT: £164,500

#### II.1.6) Information about lots

This contract is divided into lots: Yes

Tenders may be submitted for all lots

### 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**

Price is not the only award criterion and all criteria are stated only in the procurement documents

### **II.2.6) Estimated value**

Value excluding VAT: £40,000

### **II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

Start date

27 April 2023

End date

28 April 2023

This contract is subject to renewal

No

### **II.2.10) Information about variants**

Variants will be accepted: No

### **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**

Price is not the only award criterion and all criteria are stated only in the procurement documents

### **II.2.6) Estimated value**

Value excluding VAT: £2,500

### **II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

Start date

27 April 2023

End date

28 April 2023

This contract is subject to renewal

No

### **II.2.10) Information about variants**

Variants will be accepted: No

### **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**

Price is not the only award criterion and all criteria are stated only in the procurement documents

#### **II.2.6) Estimated value**

Value excluding VAT: £40,000

#### **II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

Start date

27 April 2023

End date

28 April 2023

This contract is subject to renewal

No

#### **II.2.10) Information about variants**

Variants will be accepted: No

#### **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**

Price is not the only award criterion and all criteria are stated only in the procurement documents

### **II.2.6) Estimated value**

Value excluding VAT: £12,000

### **II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

Start date

27 April 2023

End date

28 April 2023

This contract is subject to renewal

No

### **II.2.10) Information about variants**

Variants will be accepted: No

### **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**

Price is not the only award criterion and all criteria are stated only in the procurement documents

### **II.2.6) Estimated value**

Value excluding VAT: £30,000

### **II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

Start date

27 April 2023

End date

28 April 2023

This contract is subject to renewal

No

### **II.2.10) Information about variants**

Variants will be accepted: No

### **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**

Price is not the only award criterion and all criteria are stated only in the procurement documents

### **II.2.6) Estimated value**

Value excluding VAT: £40,000

### **II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

Start date

27 April 2023

End date

28 April 2023

This contract is subject to renewal

No

### **II.2.10) Information about variants**

Variants will be accepted: No

### **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 III. Legal, economic, financial and technical information**

### **III.1) Conditions for participation**

#### **III.1.2) Economic and financial standing**

Selection criteria as stated in the procurement documents

#### **III.1.3) Technical and professional ability**

Selection criteria as stated in the procurement documents

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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.2.2) Time limit for receipt of tenders or requests to participate**

Date

6 February 2023

Local time

12:00pm

#### **IV.2.4) Languages in which tenders or requests to participate may be submitted**

English

#### **IV.2.6) Minimum time frame during which the tenderer must maintain the tender**

Duration in months: 3 (from the date stated for receipt of tender)

#### **IV.2.7) Conditions for opening of tenders**

Date

6 February 2023

Local time

12:01pm

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## **Section VI. Complementary information**

### **VI.1) Information about recurrence**

This is a recurrent procurement: No

### **VI.2) Information about electronic workflows**

Electronic ordering will be used

Electronic invoicing will be accepted

Electronic payment will be used

### **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