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Tender

## **3242/JN - Hydrogen-Fuelled Combustor Retrofit and Fuel Handling System (2 Lots)**

THE UNIVERSITY OF SHEFFIELD

F02: Contract notice

Notice identifier: 2022/S 000-010177

Procurement identifier (OCID): ocds-h6vhtk-032e5d

Published 19 April 2022, 11:10am

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

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

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

**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**

3242/JN - Hydrogen-Fuelled Combustor Retrofit and Fuel Handling System (2 Lots)

Reference number

3242/JN

#### **II.1.2) Main CPV code**

- 42110000 - Turbines and motors

#### **II.1.3) Type of contract**

Supplies

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

With co-funding from the European Regional Development Fund, the University of Sheffield has established a flagship Translational Energy Research Centre (TERC) - a national multi-technology, integrated platform for research, development and innovation at pilot-scale, to understand and demonstrate green energy solutions for a sustainable, affordable and secure energy system. It is one of the largest and best-equipped research and development facilities in Europe for zero-carbon energy, hydrogen, bioenergy, combustion and carbon capture with storage/utilisation.

TERC is looking to further expand its current capabilities and equipment portfolio in this area. We are therefore looking to procure two lots:

LOT 1: Retrofitting a hydrogen-fired combustor for conversion of a gas turbine

LOT 2: Fuel handling and mixing skid, with feeding system

#### **II.1.5) Estimated total value**

Value excluding VAT: £220,000

#### **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**

Retrofitting a hydrogen-fired combustor for conversion of a gas turbine

Lot No

1

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

- 38000000 - Laboratory, optical and precision equipments (excl. glasses)
- 42900000 - Miscellaneous general and special-purpose machinery

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

NUTS codes

- UKE32 - Sheffield

Main site or place of performance

Translational Energy Research Centre (TERC), Sheffield Business Park, Europa Avenue, Sheffield

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

Lot 1: Retrofitting a hydrogen-fired combustor for conversion of a gas turbine

- design and build of the hydrogen-fired burner
- retro-fitting of the combustor and integration into the existing AE-T100 mGT
- incorporation of temperature monitoring
- modifications to the fuel system
- modifications to the software and control system for the new burner and fuel block
- any changes to the compressor and turbine maps, as necessary
- modifications to the fuel control system (to accommodate Lot 2) - including the fuel

compressor and skid controls/monitoring

#### **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: £154,000

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

Start date

1 August 2022

End date

2 August 2022

This contract is subject to renewal

No

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

Variants will be accepted: Yes

#### **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.

Identification of the project: European Regional Development Fund (ERDF)

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

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

Fuel handling and mixing skid with feeding system

Lot No

2

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

- 38000000 - Laboratory, optical and precision equipments (excl. glasses)
- 42900000 - Miscellaneous general and special-purpose machinery

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

NUTS codes

- UKE32 - Sheffield

Main site or place of performance

Translational Energy Research Centre (TERC), Sheffield Business Park, Europa Avenue, Sheffield

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

Lot 2: Fuel handling and mixing skid with feeding system

- design and build of the gas mixing skid, including fuel handling and delivery system
- full mechanical and electrical installation, including:

rerouting the natural gas from the AE-T100 fuel compressor to the skid

hydrogen connection with the site supply

connect the skid outlet to the AE-T100 fuel system

connect the skid controls/PLC to the AE-T100 system

connect the power from the AE-T100 or the site DB

### **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: £66,000

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

Start date

1 August 2022

End date

2 August 2022

This contract is subject to renewal

No

**II.2.10) Information about variants**

Variants will be accepted: Yes

**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.

Identification of the project: 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

20 May 2022

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: 6 (from the date stated for receipt of tender)

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

Date

20 May 2022

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