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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

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

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)

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

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

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

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Country

United Kingdom