Tender

Power to Sustainable Fuel Pilot Plant

UNIVERSITY OF SHEFFIELD

F02: Contract notice
Notice identifier: 2022/S 000-025621
Procurement identifier (OCID): ocds-h6vhtk-0367f6
Published 13 September 2022, 11:36am

Section I: Contracting authority

I.1) Name and addresses

UNIVERSITY OF SHEFFIELD

Western Bank

SHEFFIELD

S102TN

Contact

David Middle

Email

dave.middle@sheffield.ac.uk

Telephone

+44 1142221560

Country

United Kingdom

Region code

UKE32 - Sheffield

Charity Commission (England and Wales)

University of Sheffield

Internet address(es)

Main address

https://www.sheffield.ac.uk/

I.3) Communication

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

https://intendhost.co.uk/sheffield/aspx/Home

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

https://intendhost.co.uk/sheffield/aspx/Home

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

Power to Sustainable Fuel Pilot Plant

Reference number

3495/DM/22

II.1.2) Main CPV code

- 09000000 - Petroleum products, fuel, electricity and other sources of energy

II.1.3) Type of contract

Supplies

II.1.4) Short description

The University of Sheffield's Translational Energy Research Centre (TERC) is one of the largest and bestequipped national R&D centres in Europe for zero-carbon energy, hydrogen, bioenergy, and Carbon Capture, Utilisation and Storage (CCUS). We are looking to procure a sustainable aviation fuel (SAF) pilot plant based on Fischer-Tropsch technology.

The SAF plant is required to produce 1.5+ L/h of sustainable aviation fuel to Jet A1 ASTM specification D1655 (with flash point of 38+°C and a freeze point maximum of -47°C). The plant shall utilise onsite CO2 (minimum2 / 8 as an industrial gas, but preferably CO2 captured onsite from bioenergy exhaust gases) and on-site generated green H2 as feedstocks. It shall also have the option to use biomass syngas from an onsite wood gasifier.

This tender is made up of 4 distinct lots, comprising of 6 individual modules:

II.1.5) Estimated total value

Value excluding VAT: £2,095,000

II.1.6) Information about lots

This contract is divided into lots: Yes

Tenders may be submitted for all lots

Maximum number of lots that may be awarded to one tenderer: 4

II.2) Description

II.2.1) Title

Lot 1 (x 3 modules)

Lot No

1

II.2.2) Additional CPV code(s)

- 38970000 - Research, testing and scientific technical simulator
- 73000000 - Research and development services and related consultancy services

II.2.3) Place of performance

NUTS codes

- UKE32 - Sheffield

Main site or place of performance

Translational Energy Research Centre at the University of Sheffield

II.2.4) Description of the procurement

The University of Sheffield's Translational Energy Research Centre (TERC) is one of the largest and bestequipped national R&D centres in Europe for zero-carbon energy, hydrogen, bioenergy, and Carbon Capture, Utilisation and Storage (CCUS). We are looking to procure a sustainable aviation fuel (SAF) pilot plant based on Fischer-Tropsch technology.

The SAF plant is required to produce 1.5+ L/h of sustainable aviation fuel to Jet A1 ASTM specification D1655 (with flash point of 38+°C and a freeze point maximum of -47°C). The plant shall utilise onsite CO2 (minimum as an industrial gas, but preferably CO2 captured onsite from bioenergy exhaust gases) and on-site generated green H2 as feedstocks. It shall also have the option to use biomass syngas from an onsite wood gasifier.

This tender is made up of 4 distinct lots, comprising of 6 individual modules:

Lot 1

(Module) #1 Gas clean-up and conditioning module

#2 Reverse Water Gas Shift module

#3 FT mixing skid

Lot 2

#5 Hydrocracking and hydrogenation module

Lot 3

#6 Distillation module

Lot 4

#7 Site flare

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: £935,000

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

Start date

1 November 2022

End date

31 May 2023

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: Yes

Description of options

As described within the tender documents

II.2) Description

II.2.1) Title

Lot 2 - Hydrocracking and hydrogeneration module

Lot No

2

II.2.2) Additional CPV code(s)

- 38970000 - Research, testing and scientific technical simulator
- 73000000 - Research and development services and related consultancy services

II.2.3) Place of performance

NUTS codes

- UKE32 - Sheffield

Main site or place of performance

Translational Energy Research Centre at the University of Sheffield

II.2.4) Description of the procurement

The University of Sheffield's Translational Energy Research Centre (TERC) is one of the largest and bestequipped national R&D centres in Europe for zero-carbon energy, hydrogen, bioenergy, and Carbon Capture, Utilisation and Storage (CCUS). We are looking to procure a sustainable aviation fuel (SAF) pilot plant based on Fischer-Tropsch technology.

The SAF plant is required to produce 1.5+ L/h of sustainable aviation fuel to Jet A1 ASTM specification D1655 (with flash point of 38+°C and a freeze point maximum of -47°C).

The plant shall utilise onsite CO2 (minimum 4 / 8 as an industrial gas, but preferably CO2 captured onsite from bioenergy exhaust gases) and on-site generated green H2 as feedstocks. It shall also have the option to use biomass syngas from an onsite wood gasifier.

This tender is made up of 4 distinct lots, comprising of 6 individual modules:

Lot 1

(Module) #1 Gas clean-up and conditioning module

#2 Reverse Water Gas Shift module

#3 FT mixing skid

Lot 2

#5 Hydrocracking and hydrogenation module

Lot 3

#6 Distillation module

Lot 4

#7 Site flare

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: £900,000

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

Start date

1 November 2022

End date

31 May 2023

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: Yes

Description of options

As described within the tender documents

II.2) Description

II.2.1) Title

Lot 3 - Distillation module

Lot No

3

II.2.2) Additional CPV code(s)

- 38970000 - Research, testing and scientific technical simulator
- 73000000 - Research and development services and related consultancy services

II.2.3) Place of performance

NUTS codes

- UKE32 - Sheffield

Main site or place of performance

Translational Energy Research Centre at the University of Sheffield

II.2.4) Description of the procurement

The University of Sheffield's Translational Energy Research Centre (TERC) is one of the largest and bestequipped national R&D centres in Europe for zero-carbon energy,

hydrogen, bioenergy, and Carbon Capture, Utilisation and Storage (CCUS). We are looking to procure a sustainable aviation fuel (SAF) pilot plant based on Fischer-Tropsch technology.

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This tender is made up of 4 distinct lots, comprising of 6 individual modules:

Lot 1

(Module) #1 Gas clean-up and conditioning module

#2 Reverse Water Gas Shift module

#3 FT mixing skid

Lot 2

#5 Hydrocracking and hydrogenation module

Lot 3

#6 Distillation module

Lot 4

#7 Site flare

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: £180,000

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

Start date

1 November 2022

End date

31 May 2023

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: Yes

Description of options

As described within the tender documents

II.2) Description

II.2.1) Title

Lot 4 - Site flare

Lot No

4

II.2.2) Additional CPV code(s)

- 38970000 - Research, testing and scientific technical simulator
- 73000000 - Research and development services and related consultancy services

II.2.3) Place of performance

NUTS codes

- UKE32 - Sheffield

Main site or place of performance

Translational Energy Research Centre at the University of Sheffield

II.2.4) Description of the procurement

The University of Sheffield's Translational Energy Research Centre (TERC) is one of the largest and bestequipped national R&D centres in Europe for zero-carbon energy, hydrogen, bioenergy, and Carbon Capture, Utilisation and Storage (CCUS). We are looking to procure a sustainable aviation fuel (SAF) pilot plant based on Fischer-Tropsch technology.

The SAF plant is required to produce 1.5+ L/h of sustainable aviation fuel to Jet A1 ASTM specification D1655 (with flash point of 38+°C and a freeze point maximum of -47°C). The plant shall utilise onsite CO2 (minimum as an industrial gas, but preferably CO2 captured onsite from bioenergy exhaust gases) and on-site generated green H2 as feedstocks. It shall also have the option to use biomass syngas from an onsite wood gasifier.

This tender is made up of 4 distinct lots, comprising of 6 individual modules:

Lot 1

(Module) #1 Gas clean-up and conditioning module

#2 Reverse Water Gas Shift module

#3 FT mixing skid

Lot 2

#5 Hydrocracking and hydrogenation module

Lot 3

#6 Distillation module

Lot 4

#7 Site flare

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: £80,000

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

Start date

1 November 2022

End date

31 May 2023

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: Yes

Description of options

As described within the tender documents

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

18 October 2022

Local time

5:00pm

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

English

IV.2.7) Conditions for opening of tenders

Date

21 October 2022

Local time

12:00pm

Place

The University of Sheffield, Finance Department

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

Country

United Kingdom