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Contract

## **3330/JN - Direct Air CO2 Capture (DAC) System**

UNIVERSITY OF SHEFFIELD

F20: Modification notice

Notice identifier: 2023/S 000-019155

Procurement identifier (OCID): ocds-h6vhtk-033679

Published 5 July 2023, 1:46pm

### **Section I: Contracting authority/entity**

#### **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/>

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**Section II: Object****II.1) Scope of the procurement****II.1.1) Title**

3330/JN - Direct Air CO2 Capture (DAC) System

Reference number

3330/JN

**II.1.2) Main CPV code**

- 42900000 - Miscellaneous general and special-purpose machinery

**II.1.3) Type of contract**

Supplies

**II.2) Description****II.2.2) Additional CPV code(s)**

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

**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, S9 1ZA

#### **II.2.4) Description of the procurement at the time of conclusion of the contract:**

With funding from the European Regional Development Fund the University of Sheffield is looking to procure a Direct Air CO<sub>2</sub> Capture (DAC) capture system. This system represents the next generation technology which will complement our existing research capabilities in low carbon power generation and applications in energy/CO<sub>2</sub> intensive industries, as well as opportunities for the development of carbon capture and utilisation technologies and applications. It is envisaged that the new DAC CO<sub>2</sub> capture system will provide a platform to aid product development and innovation, and systems integration across a wide range of research activities.

At the University of Sheffield, we have set up a National Translational Energy Research Centre (TERC) focusing on bioenergy, renewable energy, carbon capture, utilisation and storage (CCUS) technologies. As part of the equipment portfolio to broaden and support our extensive research and development activities at the centre we are looking to procure a Direct Air Capture (DAC) plant to separate CO<sub>2</sub> from air. For full-chain CCUS demonstration, the captured CO<sub>2</sub>, along with hydrogen generated on-site from renewable resources, will be utilised in an on-site Sustainable Aviation Fuel (SAF) production plant to produce green fuel for use in turbines/engines.

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

Start date

6 July 2023

End date

31 August 2023

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## **Section IV. Procedure**

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

#### **IV.2.1) Contract award notice concerning this contract**

Notice number: [2022/S 000-036549](#)

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

### **Contract No**

3330/JN

### **Title**

3330/JN - Direct Air CO2 Capture (DAC) System

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

#### **V.2.1) Date of conclusion of the contract/concession award decision:**

24 November 2022

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

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

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

Mission Zero Technologies Ltd

46-54 High Street

Ingatestone

CM4 9DW

Country

United Kingdom

NUTS code

- UKH3 - Essex

Companies House

12701841

The contractor/concessionaire is an SME

Yes

**V.2.4) Information on value of the contract/lot/concession (at the time of conclusion of the contract;excluding VAT)**

Total value of the procurement: £551,250

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## **Section VI. Complementary information**

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

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

University of Sheffield

Sheffield

S10 2TN

Email

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

Country

United Kingdom

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## **Section VII: Modifications to the contract/concession**

### **VII.1) Description of the procurement after the modifications**

#### **VII.1.1) Main CPV code**

- 42900000 - Miscellaneous general and special-purpose machinery

#### **VII.1.2) Additional CPV code(s)**

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

#### **VII.1.3) Place of performance**

NUTS code

- UKE32 - Sheffield

Main site or place of performance

Translational Energy Research Centre (TERC), Sheffield Business Park, Europa Avenue, S9 1ZA

#### **VII.1.4) Description of the procurement:**

With funding from the European Regional Development Fund the University of Sheffield is looking to procure a Direct Air CO<sub>2</sub> Capture (DAC) capture system. This system represents the next generation technology which will complement our existing research capabilities in low carbon power generation and applications in energy/CO<sub>2</sub> intensive industries, as well as opportunities for the development of carbon capture and utilisation technologies and applications. It is envisaged that the new DAC CO<sub>2</sub> capture system will provide a platform to aid product development and innovation, and systems integration across a wide range of research activities. At the University of Sheffield, we have set up a National Translational Energy Research Centre (TERC) focusing on bioenergy, renewable energy, carbon capture, utilisation and storage (CCUS) technologies. As part of the equipment portfolio to broaden and support our extensive research and development activities at the centre we are looking to procure a Direct Air Capture (DAC) plant to separate CO<sub>2</sub> from air. For full-chain CCUS demonstration, the captured CO<sub>2</sub>, along with hydrogen generated on-site from renewable resources, will be utilised in an on-site Sustainable Aviation Fuel (SAF) production plant to produce green fuel for use in turbines/engines.

#### **VII.1.5) Duration of the contract, framework agreement, dynamic purchasing system or concession**

Start date

6 July 2023

End date

31 August 2023

### **VII.1.6) Information on value of the contract/lot/concession (excluding VAT)**

Total value of the contract/lot/concession:

£607,711

### **VII.1.7) Name and address of the contractor/concessionaire**

Mission Zero Technologies Ltd

46-54 High Street

Ingatestone

CM4 9DW

Country

United Kingdom

NUTS code

- UKH3 - Essex

Companies House

12701841

The contractor/concessionaire is an SME

Yes

### **VII.2) Information about modifications**

#### **VII.2.1) Description of the modifications**

Nature and extent of the modifications (with indication of possible earlier changes to the contract):

Monetary modification due to design / supplier price increases.

### **VII.2.2) Reasons for modification**

Need for additional works, services or supplies by the original contractor/concessionaire.

Description of the economic or technical reasons and the inconvenience or duplication of cost preventing a change of contractor:

The supplier's fabricator costs have increased from original prices quoted. This is due to an evolving design during construction process and component prices increases. This could not be predicted prior to the contract award.

### **VII.2.3) Increase in price**

Updated total contract value before the modifications (taking into account possible earlier contract modifications, price adaptations and average inflation)

Value excluding VAT: £551,250

Total contract value after the modifications

Value excluding VAT: £607,711