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Tender

## **Contractors for the provision of hydrogen end user skills and standards for heat supporting research and evidence**

Department for Business, Energy and Industrial Strategy (BEIS)

F02: Contract notice

Notice identifier: 2021/S 000-019379

Procurement identifier (OCID): ocds-h6vhtk-02d322

Published 10 August 2021, 6:15pm

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

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

Department for Business, Energy and Industrial Strategy (BEIS)

1 Victoria Street

London

SW1H 0ET

#### **Email**

[nzip.hydrogen@beis.gov.uk](mailto:nzip.hydrogen@beis.gov.uk)

#### **Telephone**

+44 2072150720

#### **Country**

United Kingdom

**NUTS code**

UK - United Kingdom

**Internet address(es)**

Main address

<https://www.delta-esourcing.com>

**I.3) Communication**

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

<https://www.delta-esourcing.com/tenders/UK-UK-London:-Research-and-development-services-and-related-consultancy-services./9W8Z2VUX4N>

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

<https://www.delta-esourcing.com/tenders/UK-title/4ESM9XQ6Q2>

Tenders or requests to participate must be submitted to the above-mentioned address

**I.4) Type of the contracting authority**

Ministry or any other national or federal authority

**I.5) Main activity**

General public services

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## **Section II: Object**

### **II.1) Scope of the procurement**

#### **II.1.1) Title**

Contractors for the provision of hydrogen end user skills and standards for heat supporting research and evidence

Reference number

TRN: 5045/04/2021

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

- 73000000 - Research and development services and related consultancy services

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

Services

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

BEIS intends to appoint contractors to undertake desk based research and field work on hydrogen to support the development of standards required for the re-purposing of existing gas infrastructure downstream of the emergency control valve to be used with hydrogen. This programme will serve to support and inform future policy appraisal in Government and to inform the development of policies and measures to meet UK carbon budgets. The work covers a range of priority research areas to support the creation of standards which will support hydrogen trials in the UK.

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

Value excluding VAT: £925,000

#### **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: 5

## **II.2) Description**

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

Research and evidence gathering for piped systems with respect for hydrogen for: i) purging, ii) tightness and material compatibility

Lot No

1

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

- 24111600 - Hydrogen
- 76000000 - Services related to the oil and gas industry
- 39341000 - Gas pressure equipment
- 39721410 - Gas appliances
- 38432100 - Gas-analysis apparatus

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

NUTS codes

- UK - United Kingdom

Main site or place of performance

UNITED KINGDOM

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

Description: Lot 1 will address two focus areas. i) purging of systems which aims to identify where additional data is required to permit the development of safe purging procedures for both domestic and non-domestic environments. ii) gas tightness and material compatibility of existing pipework and fittings downstream of the emergency control valve (ECV) for hydrogen gas and natural gas as a baseline.

### **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: £250,000

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

Duration in months

12

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.2.13) Information about European Union Funds**

The procurement is related to a project and/or programme financed by European Union funds: No

### **II.2.14) Additional information**

Suppliers may apply for any or all lots. A separate bid must be submitted for each lot applied for.

## **II.2) Description**

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

Research and evidence gathering for material and component suitability - domestic and non-domestic for hydrogen

Lot No

2

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

- 24111600 - Hydrogen
- 76000000 - Services related to the oil and gas industry
- 39341000 - Gas pressure equipment
- 39721410 - Gas appliances
- 38432100 - Gas-analysis apparatus

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

NUTS codes

- UK - United Kingdom

Main site or place of performance

UNITED KINGDOM

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

The aim lot 2 is to determine materials which are suitable for use with hydrogen. The work will initially consist of a literature search followed by experimental testing (where the literature search concludes additional evidence is required) to quantify the relative risk of using these materials for components downstream of the emergency control valve (ECV) for hydrogen gas relative to natural gas.

### **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: £200,000

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

Duration in months

15

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.2.13) Information about European Union Funds**

The procurement is related to a project and/or programme financed by European Union funds: No

## **II.2.14) Additional information**

Bidders may apply for any or all lots. A separate bid must be submitted for each lot applied for.

## **II.2) Description**

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

Research and evidence gathering for installation ventilation and flues

Lot No

3

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

- 24111600 - Hydrogen
- 76000000 - Services related to the oil and gas industry

- 39341000 - Gas pressure equipment
- 39721410 - Gas appliances
- 38432100 - Gas-analysis apparatus

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

NUTS codes

- UK - United Kingdom

Main site or place of performance

UNITED KINGDOM

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

: Lot 3 will undertake a set of scenario specific ventilation and flueing projects to address specific gaps in the evidence base. The work is not seeking to examine whole property ventilation. It is intended to provide evidence to understand the requirements of specific sub-categories of installation work such as ventilation of inter floor piping/voids and flueing requirements of specific appliances such as hydrogen gas fires. The work splits into two workstreams: i) Ventilation associated with pipework located within voids, shafts and ducts, ii) Ventilation and flueing requirements of open flued and flueless appliances such as hydrogen gas fires, water heaters, hobs and cookers.

### **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: £250,000

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

Duration in months

12

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.2.13) Information about European Union Funds**

The procurement is related to a project and/or programme financed by European Union funds: No

### **II.2.14) Additional information**

Bidders may apply for any or all lots. A separate bid must be submitted for each lot applied for.

## **II.2) Description**

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

Research and evidence gathering for pipe sizing and pressure drop criteria with respect to hydrogen

Lot No

4

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

- 24111600 - Hydrogen
- 76000000 - Services related to the oil and gas industry
- 39341000 - Gas pressure equipment
- 39721410 - Gas appliances
- 38432100 - Gas-analysis apparatus

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

NUTS codes

- UK - United Kingdom

Main site or place of performance

UNITED KINGDOM

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

The aim of lot 4 is to confirm an appropriate and standardised methodology to be applied to installation pipework sizing (i.e. downstream of the ECV and meter). This will ensure that such pipework has adequate capacity to deliver the flow of hydrogen (per mass or per volume) required to deliver the same flow of energy required to hydrogen burning appliances. Sizing methodology output will take the form of ready reckoner tables in terms of power requirement.

### **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: £100,000

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

Duration in months

12

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.2.13) Information about European Union Funds**

The procurement is related to a project and/or programme financed by European Union funds: No

### **II.2.14) Additional information**

Bidders may apply for any or all lots. A separate bid must be submitted for each lot applied for.

## **II.2) Description**

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

Research and evidence gathering for hydrogen: i) meter, internal and external, ventilation study, ii) installation and set point of excess flow valves (EFV).

Lot No

5

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

- 24111600 - Hydrogen
- 76000000 - Services related to the oil and gas industry
- 39341000 - Gas pressure equipment
- 39721410 - Gas appliances
- 38432100 - Gas-analysis apparatus

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

NUTS codes

- UK - United Kingdom

Main site or place of performance

UNITED KINGDOM

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

: Lot 5 will address two focus areas. i) a meter ventilation study to consider representative, internal and external, meter housing, design considerations including necessary clearances, ventilation requirements for gas and the potential for humidity/water build up. ii) an excess flow valve (EFV) study to consider items such as the installation and calibration of EFVs to cover domestic and non-domestic supply. This will include what methodology and basis will be used to set the shutoff point for the valves during operation and purging and understand how to check and test them.

#### **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: £125,000

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

Duration in months

12

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.2.13) Information about European Union Funds**

The procurement is related to a project and/or programme financed by European Union funds: No

#### **II.2.14) Additional information**

Suppliers may apply for any or all lots. A separate bid must be submitted for each lot applied for.

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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

#### **III.2) Conditions related to the contract**

##### **III.2.3) Information about staff responsible for the performance of the contract**

Obligation to indicate the names and professional qualifications of the staff assigned to performing the contract

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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

24 September 2021

Local time

2:00pm

#### **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: 2 (from the date stated for receipt of tender)

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

Date

24 September 2021

Local time

2:01pm

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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 invoicing will be accepted

Electronic payment will be used

### **VI.3) Additional information**

The contracting authority considers that this contract may be suitable for economic operators that are small or medium enterprises (SMEs). However, any selection of tenderers will be based solely on the criteria set out for the procurement.

For more information about this opportunity, please visit the Delta eSourcing portal at:

<https://www.delta-esourcing.com/tenders/UK-UK-London:-Research-and-development-services-and-related-consultancy-services./9W8Z2VUX4N>

To respond to this opportunity, please click here:

<https://www.delta-esourcing.com/respond/9W8Z2VUX4N>

GO Reference: GO-2021810-PRO-18716035

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

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

Department for Business, Energy and Industrial Strategy (BEIS)

1 Victoria Street

London

SW1H 0ET

Country

United Kingdom