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Planning

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)

F01: Prior information notice

Prior information only

Notice identifier: 2021/S 000-013807

Procurement identifier (OCID): ocds-h6vhtk-02bd62

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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

Telephone

+44 2072150720

Country

United Kingdom

NUTS code

UK - United Kingdom

Internet address(es)

Main address

<https://www.gov.uk/government/organisations/department-for-business-energy-and-industrial-strategy>

Buyer's address

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

I.3) Communication

Additional information can be obtained from 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

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

5147/06/2021T

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.

Please note: Mott McDonald have been appointed by BEIS as technical support for the Hydrogen Heating Program. They will not be involved in the creation of the specification or ITT for this work, however they will be advising BEIS on the outputs from this contract. All necessary steps will be taken to mitigate any actual or perceived conflict of interest potentially arising as a result.

II.1.5) Estimated total value

Value excluding VAT: £1,125,000

II.1.6) Information about lots

This contract is divided into lots: Yes

Maximum number of lots that may be awarded to one tenderer: 7

The contracting authority reserves the right to award contracts combining the following lots or groups of lots:

Suppliers can apply for any or all lots.

II.2) Description

II.2.1) Title

Purging Domestic & Non-Domestic

Lot No

1

II.2.2) Additional CPV code(s)

- 24111600 - Hydrogen
- 39341000 - Gas pressure equipment
- 73000000 - Research and development services and related consultancy services
- 76000000 - Services related to the oil and gas industry

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

This will include the development of an outline methodology and the trialling of this methodology in a test arrangement or test site to include monitoring of gas concentrations, equipment needed, safety measures, time taken and potential for direct or indirect purging.

II.2.14) Additional information

Suppliers can apply for any or all lots.

II.2) Description

II.2.1) Title

Material & Component Suitability - Domestic and Non-domestic

Lot No

2

II.2.2) Additional CPV code(s)

- 24111600 - Hydrogen
- 73000000 - Research and development services and related consultancy services
- 76000000 - Services related to the oil and gas industry
- 39341000 - Gas pressure equipment
- 39721410 - Gas appliances

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

This would address evidence gaps in terms of basic material and component compatibility. The initial step would be to characterise all of the materials that hydrogen could encounter in end user systems, considering the materials compatibility, longevity and modes of failure for components.

II.2.14) Additional information

Suppliers can apply for any or all lots.

II.2) Description

II.2.1) Title

Non-Domestic Piped Systems - Tightness and Material Compatibility

Lot No

3

II.2.2) Additional CPV code(s)

- 24111600 - Hydrogen
- 39341000 - Gas pressure equipment
- 73000000 - Research and development services and related consultancy services
- 76000000 - Services related to the oil and gas industry

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

This would expand evidence gained from Hy4Heat in this area for end user systems, across the full possible range of piped systems converted, either demonstrating tightness or highlighting existing systems for which there will be risks.

II.2.14) Additional information

Suppliers can apply for any or all lots.

II.2) Description

II.2.1) Title

Consolidation of Domestic Ventilation and Non- Domestic Impacts

Lot No

4

II.2.2) Additional CPV code(s)

- 24111600 - Hydrogen
- 73000000 - Research and development services and related consultancy services
- 76000000 - Services related to the oil and gas industry

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

Research on the impact and practicability of additional ventilation requirements for hydrogen in the building stock. There is also a requirement to take the findings of domestic research and as far as possible consider the implications for non-domestic buildings.

II.2.14) Additional information

Suppliers may apply for any or all lots.

II.2) Description

II.2.1) Title

Pipe Sizing and pressure drop criteria

Lot No

5

II.2.2) Additional CPV code(s)

- 24111600 - Hydrogen
- 39341000 - Gas pressure equipment

- 73000000 - Research and development services and related consultancy services
- 76000000 - Services related to the oil and gas industry

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

To help understand whether pipes would have sufficient capacity with hydrogen, this would provide: i) a methodology by which existing pipes can be assessed and new pipes can be sized for the full range of domestic and non-domestic installation types; ii) a criteria to specify the extent by which existing natural gas operating pressures could be varied for hydrogen.

II.2.14) Additional information

Suppliers may apply for any or all lots.

II.2) Description

II.2.1) Title

Meter Location and Ventilation Study

Lot No

6

II.2.2) Additional CPV code(s)

- 24111600 - Hydrogen
- 73000000 - Research and development services and related consultancy services
- 76000000 - Services related to the oil and gas industry
- 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

This research would consider representative meter housing and location arrangements, with consideration of necessary clearances and ventilation requirements for DSEAR and the potential for humidity/water build up.

II.2.14) Additional information

Suppliers may apply for any or all lots.

II.2) Description

II.2.1) Title

Excess flow valve (EFV)

Lot No

7

II.2.2) Additional CPV code(s)

- 24111600 - Hydrogen
- 73000000 - Research and development services and related consultancy services
- 76000000 - Services related to the oil and gas industry
- 39341000 - Gas pressure equipment
- 39721410 - Gas appliances

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

This research would consider installation and calibration work for the EFV (Excess flow valve) including what methodology and basis which will be used to set the shutoff point for the valves during installation.

II.2.14) Additional information

Suppliers may apply for any or all lots.

II.3) Estimated date of publication of contract notice

2 August 2021

Section IV. Procedure

IV.1) Description

IV.1.8) Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: Yes

Section VI. Complementary information

VI.3) Additional information

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