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Tender

## **Process Hydrogen Capture, Purification, Compression, and Storage**

MATERIALS PROCESSING INSTITUTE

F02: Contract notice

Notice identifier: 2023/S 000-006112

Procurement identifier (OCID): ocds-h6vhtk-03ad82

Published 2 March 2023, 10:58am

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

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

MATERIALS PROCESSING INSTITUTE

Eston Road, Grangetown

MIDDLESBROUGH

TS6 6US

#### **Email**

[hichem.hakka@mpiuk.com](mailto:hichem.hakka@mpiuk.com)

#### **Telephone**

+44 1642382000

#### **Country**

United Kingdom

#### **Region code**

UKC12 - South Teesside

**Companies House**

08919614

**Internet address(es)**

Main address

<https://www.mpiuk.com/>

**I.3) Communication**

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

<https://www.mpiuk.com/tenders.htm>

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

<https://www.mpiuk.com/tenders.htm>

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

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

Other type

Research & Technology Organisation

**I.5) Main activity**

Other activity

Research & Technology Organisation

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**Section II: Object**

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

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

Process Hydrogen Capture, Purification, Compression, and Storage

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

- 45000000 - Construction work

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

Works

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

This tender is for equipment to enable the capture, purification, compression, and storage of hydrogen rich gas from process equipment or hydrogen generation equipment, and feed-in of this to the existing hydrogen delivery network at the Institute to demonstrate industrial uses. It should include technology recommendations, design, supply, install and commission capable of supporting the Institute's project requirements. The tender will be split into two Lots:

Lot1 - gas conditioning unit

The Institute is developing or assessing different methods to produce green hydrogen. It is expected that different processes will produce gas mixtures containing hydrogen, carbon dioxide, and moisture or hydrogen, nitrogen, and ammonia. The gas streams may also contain some fine particulate. Tenders are invited to provide turnkey gas conditioning unit prior to the compression and storage of the collected gases.

Lot2 - Compression unit

The system will require a compressor capable of compressing dry gases: pure and mixed hydrogen, CO, CO<sub>2</sub>, NH<sub>3</sub> prior to their storage. The suction pressure is from 1 to 5 bars and the delivered pressure up to 300 bars.

All and every service and utility needed to fully run the enhanced pilot must be identified within the bid, and typical floor space required for adequate installation and operation. Please give the exact requirements of the following elements plus any other relevant services:

Equipment electrical rating and loadings

Gas requirements, which gas(es) and typical run quantities

Compressed air requirements, pressures, volumes and condition (Pressure systems)

Drainage and water supply provision

LEV extract requirements (ATEX ratings etc)

Fresh air supply needs

Every and all other required services should also be stated

Installation footprint

Weight of installation and if required, any possible point load issues

I.T. requirements and connections

Lighting requirements

Lead in times, install programme and commissioning schedule

#### **II.1.6) Information about lots**

This contract is divided into lots: Yes

Tenders may be submitted for one lot only

### **II.2) Description**

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

Lot No

1

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

- 45000000 - Construction work

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

NUTS codes

- UKC - North East (England)

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

Lot1 - gas conditioning unit

The Institute is developing or assessing different methods to produce green hydrogen. It is expected that different processes will produce gas mixtures containing hydrogen, carbon dioxide, and moisture or hydrogen, nitrogen, and ammonia. The gas streams may also contain some fine particulate. Tenders are invited to provide turnkey gas conditioning unit prior to the compression and storage of the collected gases.

#### **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: £20,000

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

Start date

24 April 2023

End date

29 September 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: No

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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: No

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

#### **IV.2.2) Time limit for receipt of tenders or requests to participate**

Date

17 April 2023

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

English

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

Date

18 April 2023

Local time

9:00am

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## **Section VI. Complementary information**

### **VI.1) Information about recurrence**

This is a recurrent procurement: No

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

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

Management Board

Eston Road

Middlesbrough

Country

United Kingdom