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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

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

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, CO₂, NH₃ 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

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

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