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Not applicable

Process Hydrogen Capture, Purification, Compression, and Storage

MATERIALS PROCESSING INSTITUTE

F14: Notice for changes or additional information

Notice identifier: 2023/S 000-006124

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

Published 2 March 2023, 11:35am

Section I: Contracting authority/entity

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/>

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

Section VI. Complementary information

VI.6) Original notice reference

Notice number: [2023/S 000-006112](#)

Section VII. Changes

VII.1) Information to be changed or added

VII.2) Other additional information

The estimated value of Lot 1 is £20,000

The estimated value for Lot 2 is £140,000