This is a published notice on the Find a Tender service: https://www.find-tender.service.gov.uk/Notice/016227-2021

Planning

Hydrogen supply and storage system for the component and sub-system testing of hydrogen-based power systems.

University of Strathclyde

F01: Prior information notice
Prior information only
Notice identifier: 2021/S 000-016227
Procurement identifier (OCID): ocds-h6vhtk-02c6d5
Published 12 July 2021, 2:35pm

Section I: Contracting authority

I.1) Name and addresses

University of Strathclyde

40 George Street, Procurement Department

Glasgow

G1 1QE

Contact

Kirstie Peffers

Email

kirstie.peffers@strath.ac.uk

Country

United Kingdom

NUTS code

UKM82 - Glasgow City

Internet address(es)

Main address

http://www.strath.ac.uk/

Buyer's address

https://www.publiccontractsscotland.gov.uk/search/Search_AuthProfile.aspx?ID=AA00113

I.3) Communication

Additional information can be obtained from the above-mentioned address

I.4) Type of the contracting authority

Body governed by public law

I.5) Main activity

Education

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Hydrogen supply and storage system for the component and sub-system testing of hydrogen-based power systems.

Reference number

UOS-21028-2021

II.1.2) Main CPV code

- 38540000 - Machines and apparatus for testing and measuring

II.1.3) Type of contract

Supplies

II.1.4) Short description

The University of Strathclyde seeks notes of interest from suppliers able to provide a turnkey hydrogen storage and supply solution that will be used to deliver hydrogen to support the component and sub-system testing of hydrogen-based power systems.

This potential tender forms part of a larger expansion programme, enhancing the multi-vector energy systems capability within the Power Networks Demonstration Centre (PNDC), one of the University of Strathclyde's off-campus Research & Development facilities.

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 38900000 - Miscellaneous evaluation or testing instruments
- 38543000 - Gas-detection equipment

- 38424000 - Measuring and control equipment

II.2.3) Place of performance

NUTS codes

- UKM82 - Glasgow City

II.2.4) Description of the procurement

The University is seeking notes of interest for a potential tender opportunity for a hydrogen supply and storage system in line with the criteria below. The tender's scope of works includes the supply, delivery, commissioning, ongoing support (UK based) and warranty of the following equipment.

1. The supply of a hydrogen storage and supply system capable of delivering hydrogen to support the component and sub-system testing of hydrogen-based power systems, in particular fuel cells.

2. The succesful succesful supplier will be expected to deliver all necessary equipment to the University on a turnkey basis, including any control equipment, connections, gas detection and shutoff systems, and data acquisition systems recording hydrogen flow and pressure accurately in real-time.

3. The system will be designed, installed and operating in line with the guidance of Code of Practice CP33 (The Bulk Storage of Gaseous Hydrogen at Users Premises) published by the British Compressed Gas Association.

4. The system shall be designed for an ambient temperature range of -25°C in winter and +40°C in summer.

5. The system shall be designed to accommodate Grade D hydrogen gas in line with ISO 14687:2019 (Hydrogen fuel quality — Product specification). Hydrogen replenishment shall be achieved either by replacement of storage vessels or by refilling. In either case it will be possible to do this on site by an approved supplier.

6. The system shall include a programmable pressure and flowrate regulation system feeding the supply to the PNDC site.

7. The system will be mountable on a flat concrete plinth and shall be designed to be as compact as possible, ideally with a footprint of no greater than 12m2.

8. The system shall be capable of providing a minimum of 150kg of hydrogen storage capacity to the test site, at a maximum flow rate of 20 kg/hr, and at a pressure (into the

equipment under test) of up to 20 bar. It is envisaged that the maximum continuous test duration is not likely to exceed 4 hours.

9. The system shall be designed so that it can be extendable in the future.

II.2.14) Additional information

To be involved in pre-tender engagement, interested suppliers are asked to register their interest against this notice within 5 working days

of its publication.

II.3) Estimated date of publication of contract notice

30 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

NOTE: To register your interest in this notice and obtain any additional information please visit the Public Contracts Scotland Web Site at https://www.publiccontractsscotland.gov.uk/Search/Search_Switch.aspx?ID=660372.

(SC Ref:660372)