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Planning

H3AT Tritium Plant – HPS Sub-System – Permeators and Palladium Membrane Reactors

United Kingdom Atomic Energy Authority

F01: Prior information notice

Prior information only

Notice identifier: 2021/S 000-026383

Procurement identifier (OCID): ocds-h6vhtk-02ee7c

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Section I: Contracting authority

I.1) Name and addresses

United Kingdom Atomic Energy Authority

Culham Science Centre

Abingdon

OX14 3DB

Contact

Abigail Woods

Email

abigail.woods@ukaea.uk

Telephone

+44 1235467082

Country

United Kingdom

NUTS code

UKJ14 - Oxfordshire

National registration number

N/A

Internet address(es)

Main address

http://www.gov.uk/government/organisations/uk-atomic-energy-authority

Buyer's address

https://uk.eu-supply.com/ctm/Company/CompanyInformation/Index/72814

I.3) Communication

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

https://uk.eu-supply.com/app/rfg/rwlentrance_s.asp?PID=40170&B=UK

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

Other activity

Fusion Research

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

H3AT Tritium Plant – HPS Sub-System – Permeators and Palladium Membrane Reactors

Reference number

T/AW198/21

II.1.2) Main CPV code

• 42510000 - Heat-exchange units, air-conditioning and refrigerating equipment, and filtering machinery

II.1.3) Type of contract

Supplies

II.1.4) Short description

UKAEA wishes to engage with potential prime contractors, SME's, system designers and manufacturers of selected equipment for the HPS Sub-System within the Tritium Plant located in the new H3AT Facility, to separate and recover the isotopes of hydrogen from tritium-bearing gas mixtures.

Through this process we are looking to open the engagement for suppliers to understand the specific requirements for the HPS Sub-System (Permeators and PMRs) and assist with informing the final procurement strategy.

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 38126300 Temperature or humidity surface observing apparatus
- 38420000 Instruments for measuring flow, level and pressure of liquids and gases
- 38800000 Industrial process control equipment and remote-control equipment
- 42511000 Heat-exchange units and machinery for liquefying air or other gases

- 42511100 Heat-exchange units
- 42910000 Distilling, filtering or rectifying apparatus
- 42993000 Chemical industry machinery
- 51000000 Installation services (except software)
- 51100000 Installation services of electrical and mechanical equipment
- 51110000 Installation services of electrical equipment
- 51112000 Installation services of electricity distribution and control equipment
- 51112100 Installation services of electricity distribution equipment
- 51112200 Installation services of electricity control equipment
- 51120000 Installation services of mechanical equipment
- 51430000 Installation services of laboratory equipment
- 51500000 Installation services of machinery and equipment
- 51510000 Installation services of general-purpose machinery and equipment
- 51800000 Installation services of metal containers
- 51810000 Installation services of tanks
- 71300000 Engineering services
- 71323000 Engineering-design services for industrial process and production
- 71330000 Miscellaneous engineering services
- 71333000 Mechanical engineering services
- 71334000 Mechanical and electrical engineering services
- 71335000 Engineering studies
- 71336000 Engineering support services
- 71340000 Integrated engineering services
- 71350000 Engineering-related scientific and technical services
- 73000000 Research and development services and related consultancy services
- 73100000 Research and experimental development services

- 73120000 Experimental development services
- 73300000 Design and execution of research and development
- 73430000 Test and evaluation

II.2.3) Place of performance

NUTS codes

UKJ14 - Oxfordshire

II.2.4) Description of the procurement

UKAEA wishes to engage with potential prime contractors, SME's, system designers and manufacturers of selected equipment for the HPS Sub-System within the Tritium Plant located in the new H3AT Facility, to separate and recover the isotopes of hydrogen from tritium-bearing gas mixtures.

The H3AT Facility Tritium Plant consists of the following sub-systems:

- SDS Storage and Delivery System
- TVS Tokamak Vacuum Simulation
- HPS Hydrogen Chemical Purification System
- ISS Hydrogen Isotope Separation System (deemed collaborative contract development)
- WDS Water Detritiation System (deemed collaborative contract development)
- ADS Atmosphere Detritiation System
- ANS Chemical and Isotope Analysis of Gaseous Mixtures System
- RGM Radiological and Hazardous Gas Monitoring System.

The Facility is a tool of the H3AT Project, for which the missions are:

- Supporting Delivery of fusion as a commercial power source.
- Promoting industry, academia and research companies for work related to handling tritium and other radioactive isotopes.
- Providing capability for training of next generation of scientists and engineers for

development of the new power sources.

Through this process we are looking to open the engagement for suppliers to understand the specific requirements for the HPS Sub-System (Permeators and PMRs) and assist with informing the final procurement strategy.

II.3) Estimated date of publication of contract notice

1 December 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: No