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Planning

## **H3AT Tritium Plant – ADS Sub-System**

United Kingdom Atomic Energy Authority

F01: Prior information notice

Prior information only

Notice identifier: 2021/S 000-026310

Procurement identifier (OCID): ocds-h6vhtk-02ee33

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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](mailto: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/rfq/rwlenrance\\_s.asp?PID=40167&B=UK](https://uk.eu-supply.com/app/rfq/rwlenrance_s.asp?PID=40167&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

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## **Section II: Object**

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

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

H3AT Tritium Plant – ADS Sub-System

Reference number

T/DB210/21

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

- 38424000 - Measuring and control equipment

#### **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 equipment for the ADS Sub-System within the Tritium Plant located in the new H3AT Facility, to process tritium-bearing gases and liquid mixtures.

Through this process we are looking to open up the engagement for suppliers to understand the specific requirements for water scrubber columns and surrounding equipment as part of the ADS Sub-System 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)**

- 31161400 - Primary water systems
- 38340000 - Instruments for measuring quantities
- 38420000 - Instruments for measuring flow, level and pressure of liquids and gases
- 38570000 - Regulating and controlling instruments and apparatus

- 38930000 - Humidity and moisture measuring instruments
- 42120000 - Pumps and compressors
- 42122100 - Pumps for liquids
- 42131100 - Valves defined by function
- 42131140 - Pressure-reducing, control, check or safety valves
- 51100000 - Installation services of electrical and mechanical equipment
- 51110000 - Installation services of electrical equipment
- 51120000 - Installation services of mechanical equipment
- 51810000 - Installation services of tanks
- 51820000 - Installation services of reservoirs
- 71242000 - Project and design preparation, estimation of costs
- 71320000 - Engineering design services
- 71323200 - Plant engineering design services
- 71335000 - Engineering studies
- 71350000 - Engineering-related scientific and technical services

### **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 equipment for the ADS Sub-System within the Tritium Plant located in the new H3AT Facility, to process tritium-bearing gases and liquid 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
- WDS - Water Detritiation System
- 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 up the engagement for suppliers to understand the specific requirements for water scrubber columns and surrounding equipment as part of the ADS Sub-System and assist with informing the final procurement strategy.

### **II.3) Estimated date of publication of contract notice**

1 December 2021

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## **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