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Tender

## **Palladium Permeators and Palladium Membrane Reactors**

United Kingdom Atomic Energy Authority

F02: Contract notice

Notice identifier: 2024/S 000-034227

Procurement identifier (OCID): ocds-h6vhtk-04b050

Published 22 October 2024, 5:19pm

### **Section I: Contracting authority**

#### **I.1) Name and addresses**

United Kingdom Atomic Energy Authority

Culham Campus

Abingdon

OX14 3DB

#### **Contact**

Viv Hichens

#### **Email**

[viv.hichens@ukaea.uk](mailto:viv.hichens@ukaea.uk)

#### **Country**

United Kingdom

#### **Region code**

UK - United Kingdom

**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=84037&B=UKAEA](https://uk.eu-supply.com/app/rfq/rwlenrance_s.asp?PID=84037&B=UKAEA)

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

[https://uk.eu-supply.com/app/rfq/rwlenrance\\_s.asp?PID=84037&B=UKAEA](https://uk.eu-supply.com/app/rfq/rwlenrance_s.asp?PID=84037&B=UKAEA)

Tenders or requests to participate must be submitted to 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**

Palladium Permeators and Palladium Membrane Reactors

Reference number

T/GR049/23

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

- 71323000 - Engineering-design services for industrial process and production

#### **II.1.3) Type of contract**

Services

#### **II.1.4) Short description**

UKAEA wishes to procure the Design, analysis, manufacture, assembly, Factory Acceptance Testing, delivery, Site Acceptance Testing, plus support during the installation, Integrated Testing, and commissioning of 3-off palladium-silver permeators, 2-off palladium-silver membrane reactors, three-off recuperative heat exchangers, and four cooling coils for the Hydrogen Purification System to be supplied into the Hydrogen 3 Advanced Technology facility at UKAEA's Culham Science Centre. The requirement also includes the sourcing of one steam generator and one dosing pump for providing water vapour into the PMR, including detailed design of the associated lines and process equipment.

Designs are to be manufactured by the Contractor and must support and contain the process equipment whilst providing external process and Electrical, Control and Instrumentation (EC&I) connections.

#### **II.1.5) Estimated total value**

Value excluding VAT: £1,000,000

#### **II.1.6) Information about lots**

This contract is divided into lots: No

### **II.2) Description**

**II.2.2) Additional CPV code(s)**

- 38420000 - Instruments for measuring flow, level and pressure of liquids and gases
- 38800000 - Industrial process control equipment and remote-control equipment
- 42510000 - Heat-exchange units, air-conditioning and refrigerating equipment, and filtering machinery
- 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
- 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
- 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

- UK - United Kingdom

### **II.2.4) Description of the procurement**

UKAEA wishes to procure the Design, analysis, manufacture, assembly, Factory Acceptance Testing, delivery, Site Acceptance Testing, plus support during the installation, Integrated Testing, and commissioning of 3-off palladium-silver permeators, 2-off palladium-silver membrane reactors, three-off recuperative heat exchangers, and four cooling coils for the Hydrogen Purification System to be supplied into the Hydrogen 3 Advanced Technology facility at UKAEA's Culham Science Centre. The requirement also includes the sourcing of one steam generator and one dosing pump for providing water vapour into the PMR, including detailed design of the associated lines and process equipment.

Designs are to be manufactured by the Contractor and must support and contain the process equipment whilst providing external process and Electrical, Control and Instrumentation (EC&I) connections.

The manufacturing, testing and delivery includes assembling all the process equipment fabricated/procured by the Contractor into completed permeators and PMRs for future installation by others into Gloveboxes. The Contractor/Supplier must undertake Factory Acceptance Testing to demonstrate the functionality of the permeator and PMR assemblies. Dedicated design reviews, and a full review of all design documentation shall be conducted by the Office of Chief Engineers (OCE) prior to any production to ensure the permeator and PMR assemblies meet the UKAEA requirements listed within the Tender pack. The Contractor/Supplier shall deliver the permeators and PMRs to Culham and complete Site Acceptance Testing, after which a third party will conduct the Installation, Integrated Testing, and commissioning with support from the Contractor/Supplier. Sufficient information shall be provided for inclusion within the technical file (LTQR) to support the overall conformity marking of the system.

The estimated duration of design, manufacturing, testing, and delivery is 22 months.

**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: £1,000,000

**II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months

22

This contract is subject to renewal

No

**II.2.10) Information about variants**

Variants will be accepted: No

**II.2.11) Information about options**

Options: No

**II.2.13) Information about European Union Funds**

The procurement is related to a project and/or programme financed by European Union funds: No

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## **Section III. Legal, economic, financial and technical information**

### **III.1) Conditions for participation**

#### **III.1.1) Suitability to pursue the professional activity, including requirements relating to enrolment on professional or trade registers**

List and brief description of conditions

Refer to Procurement Documents for information.

#### **III.1.2) Economic and financial standing**

List and brief description of selection criteria

Refer to Procurement Documents for information.

Minimum level(s) of standards possibly required

Refer to Procurement Documents for information.

#### **III.1.3) Technical and professional ability**

List and brief description of selection criteria

Refer to Procurement Documents for information.

Minimum level(s) of standards possibly required

Refer to Procurement Documents for information.

### **III.2) Conditions related to the contract**

#### **III.2.2) Contract performance conditions**

Refer to Procurement Documents for information.

#### **III.2.3) Information about staff responsible for the performance of the contract**

Obligation to indicate the names and professional qualifications of the staff assigned to performing the contract

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## **Section IV. Procedure**

### **IV.1) Description**

#### **IV.1.1) Type of procedure**

Restricted 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

21 November 2024

Local time

12:00pm

#### **IV.2.3) Estimated date of dispatch of invitations to tender or to participate to selected candidates**

25 November 2024

#### **IV.2.4) Languages in which tenders or requests to participate may be submitted**

English

#### **IV.2.6) Minimum time frame during which the tenderer must maintain the tender**

Tender must be valid until: 1 June 2025



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## **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**

UK Atomic Energy Authority

Culham Science Centre

Abingdon

OX14 3DB

Country

United Kingdom

Internet address

<https://www.gov.uk/government/organisations/uk-atomic-energy-authority>

#### **VI.4.2) Body responsible for mediation procedures**

UK Atomic Energy Authority

Culham Science Centre

Abingdon

OX14 3DB

Country

United Kingdom

Internet address

<https://www.gov.uk/government/organisations/uk-atomic-energy-authority>

### **VI.4.3) Review procedure**

Precise information on deadline(s) for review procedures

VI.4.2) Body responsible for mediation procedures

VI.4.3) Review procedure

Precise information on deadline(s) for review procedures:

The authority will incorporate a minimum 10 calendar day standstill period at the point information on the award of the contract is communicated to tenderers.

This period allows unsuccessful tenderers to seek further debriefing from the authority before a contract is entered into applicants have 2 working days from the notification of the award decision to request. Additional debriefing and that information have to be provided within a minimum of 3 working days before the expiry of the standstill period. Such additional information should be sought from the contact named in this notice.

If an appeal regarding the award of a contract has not been successfully resolved, the Public Contracts Regulations 2015 (SI 2015 No. 102) provide for aggrieved parties who have been harmed or are at risk of harm by a breach of the rules to take action in the High Court (England, Wales and Northern Ireland).

Any such action must be brought promptly.

(generally within 3 months).

### **VI.4.4) Service from which information about the review procedure may be obtained**

UK Atomic Energy Authority

Culham Science Centre

Abingdon

OX14 3DB

Country

United Kingdom

Internet address

<https://www.gov.uk/government/organisations/uk-atomic-energy-authority>

