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Tender

UKRI-1167 - Cryogenic Cooling System for a High-Power Laser

UK Research & Innovation

F02: Contract notice

Notice identifier: 2021/S 000-005438

Procurement identifier (OCID): ocids-h6vhtk-029caf

Published 17 March 2021, 4:24pm

Section I: Contracting authority

I.1) Name and addresses

UK Research & Innovation

Polaris House, North Star Avenue

Swindon

SN2 1FL

Contact

STFC Procurement

Email

stfcprocurement@ukri.org

Telephone

+44 1235446553

Country

United Kingdom

NUTS code

UKK14 - Swindon

Internet address(es)

Main address

www.ukri.org

I.2) Information about joint procurement

The contract is awarded by a central purchasing body

I.3) Communication

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

<https://www.delta-esourcing.com/tenders/UK-UK-Swindon:-Lasers./H5V9UP64NY>

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

<https://www.delta-esourcing.com/tenders/UK-UK-Swindon:-Lasers./H5V9UP64NY>

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

Research and Innovation

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

UKRI-1167 - Cryogenic Cooling System for a High-Power Laser

Reference number

UKRI-1167

II.1.2) Main CPV code

- 38636100 - Lasers

II.1.3) Type of contract

Supplies

II.1.4) Short description

Proposals are sought by the Science and Technology Facilities Council (STFC, part of UK Research and Innovation, UKRI) for a cryogenic cooling system for a high-power laser. STFC is building an advanced Yb:YAG laser system delivering pulse energies in excess of 10 J at 100 Hz repetition rate. The system will be built, tested, and operated at the Rutherford Appleton Laboratory.

II.1.5) Estimated total value

Value excluding VAT: £425,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.3) Place of performance

NUTS codes

- UKJ14 - Oxfordshire

Main site or place of performance

Oxfordshire

II.2.4) Description of the procurement

The Science and Technology Facilities Council (STFC) is building an advanced Yb:YAG laser system delivering pulse energies in excess of 10 J at 100 Hz repetition rate. This system will be built, tested, and operated at the Rutherford Appleton Laboratory, UK. This specification describes the requirements for a cryogenic cooling system to control and maintain the temperature of the main laser amplifier head.

1.1 Scope of contract

This specification covers the supply of a cooling system, in the following also called the System comprising of:

- The cooling system itself (based on a sealed helium coolant loop that is cooled using a liquid nitrogen (LN2) supply).
- An EPICS compatible control system.
- All cabling and piping required to interface points specified herein.
- Factory demonstration of the System demonstrating the full performance specified herein
- Attendance at STFC's RAL site to confirm the adequacy of the installation and to set up and demonstrate the plant, reconfirming the performance of the equipment to this specification.
- Reports and documentation as stated herein.
- Full technical construction file and certification, in reproducible form, attesting to compliance with European Trading Regulations (CE marking).
- CE declaration of conformity.
- Certificate of conformity to this specification.
- Operating and maintenance manuals in English (UK).
- Specialist plant and equipment to support assembly, testing and installation, including blanks and seals for all flanges.
- Provision of cryostat and transfer line support and adjustment system.

- Flexible vacuum jacketed supply and exhaust lines.

This cooling system will be supplied and delivered to STFC where it will be integrated with other hardware as part of a project to design and construct an advanced laser system

All equipment supplied must be suitable for operation in the UK. All equipment supplied must meet European Regulations and, as appropriate, be CE marked.

The full specification and requirements can be found within the Delta eSourcing Portal, mentioned below;

UKRI will be using the Delta eSourcing Portal for this procurement. To register on the Delta eSourcing portal please use the link <https://www.delta-esourcing.com/> and follow the instructions to register. If you are already registered on the Delta eSourcing Portal and wish to participate in this procurement, please use the link provided in this Notice, and then follow the instructions to 'Login'. Once you are logged into the system you will be able to link yourself into this procurement using the Access Code <https://www.delta-esourcing.com/respond/H5V9UP64NY>. As a user of the Delta eSourcing Portal you will have access to the Delta messaging service which facilitates all messages sent to you and from you in relation to any specific tender event. Please note it is your responsibility to access these messages on a regular basis to ensure you have sight of all relevant information applicable to this opportunity. Please ensure you review all attached information to ensure a full understanding of this requirement. All attachments can be found with the Document Uploads tab within the Delta eSourcing Portal.

The contracting authority expressly reserves the right:

- i. not to award any contract as a result of the procurement process commenced by publication of this notice; and
- ii. to make whatever changes it may see fit to the content and structure of the procurement; and in no circumstances will the contracting authority be liable for any costs incurred by any supplier. If the contracting authority decides to enter into a contract with the successful supplier, this does not mean that there is any guarantee of subsequent contracts being awarded. Any expenditure, work or effort undertaken prior to contract award is accordingly a matter solely for the commercial judgement of bidders.

II.2.5) Award criteria

Quality criterion - Name: Quality / Weighting: 70

Cost criterion - Name: Price / Weighting: 30

II.2.6) Estimated value

Value excluding VAT: £425,000

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

Duration in months

12

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

Section III. Legal, economic, financial and technical information

III.1) Conditions for participation

III.1.2) Economic and financial standing

Selection criteria as stated in the procurement documents

III.1.3) Technical and professional ability

Selection criteria as stated in the procurement documents

Section IV. Procedure

IV.1) Description

IV.1.1) Type of procedure

Open procedure

IV.1.8) Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: Yes

IV.2) Administrative information

IV.2.2) Time limit for receipt of tenders or requests to participate

Date

27 April 2021

Local time

2:00pm

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

English

IV.2.7) Conditions for opening of tenders

Date

27 April 2021

Local time

2:00pm

Section VI. Complementary information

VI.1) Information about recurrence

This is a recurrent procurement: No

VI.3) Additional information

The contracting authority considers that this contract may be suitable for economic operators that are small or medium enterprises (SMEs). However, any selection of tenderers will be based solely on the criteria set out for the procurement.

For more information about this opportunity, please visit the Delta eSourcing portal at:

<https://ukri.delta-esourcing.com/tenders/UK-UK-Swindon:-Lasers./H5V9UP64NY>

To respond to this opportunity, please click here:

<https://ukri.delta-esourcing.com/respond/H5V9UP64NY>

GO Reference: GO-2021317-PRO-17945108

VI.4) Procedures for review

VI.4.1) Review body

UK Research and Innovation

Polaris House, North Star Avenue

Swindon

SN2 1FL

Country

United Kingdom