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Tender

UKRI-3547 Supply of a X-band Cassegrain Feed Tower & Frequency Selective Sub-Reflector for Chilbolton Observatory

UK Research & Innovation

F02: Contract notice

Notice identifier: 2023/S 000-034272

Procurement identifier (OCID): ocds-h6vhtk-041b4b

Published 20 November 2023, 2:05pm

Section I: Contracting authority

I.1) Name and addresses

UK Research & Innovation

Polcaris House

Swindon

SN2 1FL

Email

STFCProcurement@ukri.org

Telephone

+44 1793867000

Country

United Kingdom

Region code

UKJ14 - Oxfordshire

Internet address(es)

Main address

<https://www.ukri.org/>

Buyer's address

www.ukri.org

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:-Parts-of-radio-and-radar-equipment./R23752ATYW>

Additional information can be obtained from the above-mentioned address

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

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

UKRI-3547 Supply of a X-band Cassegrain Feed Tower & Frequency Selective Sub-Reflector for Chilbolton Observatory

Reference number

UKRI-3547

II.1.2) Main CPV code

- 32352100 - Parts of radio and radar equipment

II.1.3) Type of contract

Supplies

II.1.4) Short description

The Chilbolton Observatory staff wish to implement dual frequency operation of the main 25m reflector using S-band at the prime focus point and X-band (8-12GHz) at a cassegrain feed point utilising a frequency selective sub reflector. The contract is to start in February 2024 and the system to be ideally delivered in the order of 10 months or sooner. The total value for this procurement is £470,000.00.

II.1.5) Estimated total value

Value excluding VAT: £470,000

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 Chilbolton observatory operates a 25m diameter, prime focus, parabolic reflector antenna with an F/d ratio of 0.36. The antenna was commissioned in 1967 and has for many years been used with an S-band radar fed from the prime focus point. The main feed is undergoing an upgrade to implement monopulse tracking. At the same time the observatory would like to add a wide band X-band radar to the antenna for simultaneous operation with the S-band radar. The intention is to use the S-band radar for tracking and ranging of satellites while the wide bandwidth X-band radar is used for imaging.

The antenna was commissioned in 1967 and there are no CAD drawings for the structure. Contractors may wish to visit the site to conduct a survey of the structure and check mounting points, access to the backing structure etc that will become important in the design, installation and alignment of the feed tower and the sub-reflector.

It is not thought possible to integrate an X-band feed with the S-band monopulse feed at prime focus. The solution proposed is one used in satellite communications ground stations of having the S-band feed at the prime focus of the reflector and the X-band feed in a tower mounted in the centre of the dish forming a cassegrain arrangement with a frequency selective sub reflector.

A full list of Technical Requirements can be found within the Invitation to Tender documentation.

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: £470,000

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

Start date

5 February 2024

End date

6 December 2024

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

II.2.14) Additional information

To respond to this opportunity please click here: <https://ukri.delta-sourcing.com/respond/R23752ATYW>

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: No

IV.2) Administrative information

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

Date

8 January 2024

Local time

2:00pm

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

Duration in months: 3 (from the date stated for receipt of tender)

IV.2.7) Conditions for opening of tenders

Date

8 January 2024

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:-Parts-of-radio-and-radar-equipment./R23752ATYW>

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GO Reference: GO-20231120-PRO-24501736

VI.4) Procedures for review

VI.4.1) Review body

UK Research and Innovation (UKRI)

Polaris House, North Star Avenue

Swindon

SN2 2BQ

Country

United Kingdom

Internet address

www.ukri.org