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Tender

## **UKRI-1117 - Chilbolton Observatory Raman Lidar**

UK Research & Innovation

F02: Contract notice

Notice identifier: 2021/S 000-021146

Procurement identifier (OCID): ocds-h6vhtk-02da0a

Published 26 August 2021, 12:15pm

### **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](mailto:stfcprocurement@ukri.org)

#### **Telephone**

+44 1793442000

#### **Country**

United Kingdom

**NUTS code**

UKK14 - Swindon

**Internet address(es)**

Main address

[www.ukri.org](http://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:-Lasers./295242HVC4>

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 and Innovation

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## **Section II: Object**

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

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

UKRI-1117 - Chilbolton Observatory Raman Lidar

Reference number

UKRI-1117

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

- 38636100 - Lasers

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

Supplies

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

The Science and Technology Facilities Council, part of UK Research and Innovation are seeking proposals from suppliers for an atmospheric Raman lidar system for installation at STFC Chilbolton Observatory.

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

Value excluding VAT: £300,000

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

This contract is divided into lots: No

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

#### **II.2.3) Place of performance**

NUTS codes

- UKJ3 - Hampshire and Isle of Wight

Main site or place of performance

Hampshire and Isle of Wight

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

STFC wish to procure an atmospheric Raman lidar system for installation at STFC Chilbolton Observatory. The system should have the following features, which are expanded further in subsequent sections:

1. It should be housed in a customised standard 20 foot ISO container with climate control. The container must be weatherproof and lightproof, except for the windows designed for laser beam transmission. It must be IP66 compliant.
2. It must have a design transmitting at a minimum, a single wavelength of 355 nm and recording elastic and inelastic (Raman-scattered at 387 nm) backscattering coefficient, and linear depolarisation ratio.
3. It must meet ACTRIS (Aerosols, Clouds, and Trace gases Research Infrastructure) requirements for a single wavelength system.
4. The instrument and container must be designed in such a way that it is straightforward to upgrade to transmit 532 nm and 1064 nm for the measurement of elastic and inelastic (Raman) backscattering coefficient and linear depolarisation ratio and to measure water vapour profiles using the 355nm beam without major modifications to the structure. It is anticipated that the measurement of linear depolarisation ratio at 1064 nm will require the use of a 2nd laser in order to ensure sufficient polarisation purity, and possibly a 2nd receiver. There should therefore be adequate space in the current design to allow this upgrade, unless a method not requiring this extra hardware is proposed and justified.
5. Full overlap of transmitted beam and receiver field of view must be achieved no higher than 300 metres with the capability to add lower range observations at a future date. This may require there to be sufficient space to accommodate the additional hardware (such as telescope, receiver optics, detectors).
6. Start-of-operation setup and ongoing alignment procedures must be automated as far as possible.
7. It should be reliable for routine operation.

Full details can be found within the supporting appendices on the Delta e-Sourcing system.

## **II.2.5) Award criteria**

Quality criterion - Name: Quality / Weighting: 60

Cost criterion - Name: Price / Weighting: 40

### **II.2.6) Estimated value**

Value excluding VAT: £300,000

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

Duration in months

9

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/295242HVC4>

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## **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

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## **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

5 October 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

5 October 2021

Local time

2:00pm

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## **Section VI. Complementary information**

### **VI.1) Information about recurrence**

This is a recurrent procurement: No

### **VI.3) Additional information**

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

<https://ukri.delta-esourcing.com/tenders/UK-UK-Swindon:-Lasers./295242HVC4>

To respond to this opportunity, please click here:

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GO Reference: GO-2021826-PRO-18802742

### **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