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Tender

## **Cryocoolers for the ARIEL Cryogenic Test Rig**

UK Research and Innovation

F02: Contract notice

Notice identifier: 2022/S 000-025800

Procurement identifier (OCID): ocids-h6vhtk-036869

Published 14 September 2022, 2:05pm

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

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

UK Research and Innovation

Polaris House, North Star Avenue

Swindon

SN2 1FL

#### **Email**

[STFCprocurement@ukri.org](mailto:STFCprocurement@ukri.org)

#### **Telephone**

+44 1235446100

#### **Country**

United Kingdom

#### **Region code**

UKJ1 - Berkshire, Buckinghamshire and Oxfordshire

**Internet address(es)**

Main address

<https://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:-Refrigerating-and-freezing-equipment./P4864ZKD4Y>

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

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## **Section II: Object**

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

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

Cryocoolers for the ARIEL Cryogenic Test Rig

Reference number

UKRI-1922

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

- 42513000 - Refrigerating and freezing equipment

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

Supplies

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

RAL Space are designing the Cryogenic Test Rig (CTR) for the ARIEL payload module (PLM). It consists of a cryogenic shroud and a warm interface plate. Cooling is applied directly to the shroud using cryocoolers, attached via high purity aluminium thermal straps. The test rig requires up to 100 W of cooling at a cold head temperature of 20 K, which has been calculated based on extensive thermal modelling of the system. Margin on this heat lift would ideally be included to account for any modelling inaccuracies, with 50% assumed during the preliminary design phase. A single stage cooler would be preferred, and we expect that multiple coolers would be needed.

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

Value excluding VAT: £125,000

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

This contract is divided into lots: No

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

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

NUTS codes

- UKJ1 - Berkshire, Buckinghamshire and Oxfordshire

Main site or place of performance

Berkshire, Buckinghamshire and Oxfordshire

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

UKRI wishes to establish a Contract for the provision of Cryocoolers for the ARIEL Cryogenic Test Rig. ARIEL (Atmospheric Remote-Sensing Infrared Exoplanet Large-survey) is a project for RAL Space, part of the Science and Technology Facilities Council. ARIEL will study how planets and planetary systems form and evolve by surveying a large, diverse sample of approximately 1000 extrasolar planets, simultaneously in visible and infrared wavelengths.

RAL Space are designing the Cryogenic Test Rig (CTR) for the ARIEL payload module (PLM). It consists of a cryogenic shroud and a warm interface plate. Cooling is applied directly to the shroud using cryocoolers, attached via high purity aluminium thermal straps. The test rig requires up to 100 W of cooling at a cold head temperature of 20 K, which has been calculated based on extensive thermal modelling of the system. Margin on this heat lift would ideally be included to account for any modelling inaccuracies, with 50% assumed during the preliminary design phase. A single stage cooler would be preferred, and we expect that multiple coolers would be needed.

We would like to see a costing for all equipment necessary for the coolers to operate:

e.g. Coolers, compressors, any ancillary cables/power supplies and delivery.

#### **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: £125,000

#### **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/P4864ZKD4Y>

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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

19 October 2022

Local time

12:00pm

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

English

#### **IV.2.7) Conditions for opening of tenders**

Date

20 October 2022

Local time

9:00am

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## **Section VI. Complementary information**

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

This is a recurrent procurement: No

## **VI.2) Information about electronic workflows**

Electronic ordering will be used

Electronic invoicing will be accepted

Electronic payment will be used

## **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:-Refrigerating-and-freezing-equipment./P4864ZKD4Y>

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GO Reference: GO-2022914-PRO-20956274

## **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