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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

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

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>

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

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

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