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Tender

UKRI-2958 Radiation Modelling Services for Vulcan 20-20

UK Research & Innovation

F02: Contract notice
Notice identifier: 2023/S 000-012358
Procurement identifier (OCID): ocds-h6vhtk-03c549
Published 28 April 2023, 4:05pm

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 7565200218

Country

United Kingdom

Region code

UKK14 - Swindon

Internet address(es)

Main 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:-Radiation-protection-services./5G6T35GA84

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

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

UKRI-2958 Radiation Modelling Services for Vulcan 20-20

II.1.2) Main CPV code

- 90721600 - Radiation protection services

II.1.3) Type of contract

Services

II.1.4) Short description

UKRI has a need for radiation modelling services of an electron beam dump extension for the new Vulcan 20PW facility as part of it's Central Laser Facility which is currently under design development.

II.1.5) Estimated total value

Value excluding VAT: £2,000,000

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

UKRI has a need for radiation modelling of an electron beam dump extension for the new Vulcan 20PW facility which is currently under design development. The desired radiation

modelling will consist of:

1.Optimisation of an electron beam dump construction for a 4GeV electron beam (source terms to be provided by the CLF). The design would reduce radiation leakage on the facility to less than 2.5µSv/hr and minimise backscatter into the main facility.

2.Balance the localised beam dump shielding against the constructed building shielding to minimise associated building costs.

3.Impact of scattered radiation on the general facility building shielding (see detail A)

4.Gap analysis of dose leak rates around a removable shield wall (see detail B)

The expected delivery is in the form of a formal report to the CLF with recommendations, modelling and analysis results. Formal communications throughout the work are expected to keep the CLF updated on progress as the work will be taking place in parallel to the building design. The overall aim of the radiation modelling is to determine the minimal shielding needed to incorporate into the building construction against that installed around the beam dump when it is added at a later date.

II.2.5) Award criteria

Quality criterion - Name: Criterion 1 / Weighting: 60

Price - Weighting: 40

II.2.6) Estimated value

Value excluding VAT: £2,000,000

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

Duration in months

6

This contract is subject to renewal

Yes

Description of renewals

The estimated value of the opportunity is £50,000 excluding VAT for the initial purchasing of the Radiation Modelling Works. There is a maximum potential spend of up to a maximum of £2,000,000.00 excluding VAT which can be used to account for additional

purchases or contractual options that may be exercised across 2 years, with two optional extensions of one year starting from approximately 1st November 2023, and the agreement shall be in place until 31st October 2025 with optional extensions to 31st October 2026 and 31st October 2027. UKRI will only commit to the initial purchase as stated within Part 1 of Appendix B – Price Schedule. UKRI offers no guarantee that the additional purchases will be made as part of this contract.

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-esourcing.com/respond/5G6T35GA84

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

2 June 2023

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

2 June 2023

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:-Radiation-protection-services./5G6T35GA84

To respond to this opportunity, please click here:

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GO Reference: GO-2023428-PRO-22668586

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