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Tender

DLSITT1018 - Diamond-II Booster Girder Assemblies

Diamond Light Source Ltd

F02: Contract notice

Notice identifier: 2024/S 000-012371

Procurement identifier (OCID): ocds-h6vhtk-0452b5

Published 16 April 2024, 3:03pm

Section I: Contracting authority

I.1) Name and addresses

Diamond Light Source Ltd

Harwell Science and Innovation Campus

Didcot

OX11 0ED

Contact

Debbie Pryor

Email

procurement@diamond.ac.uk

Telephone

+44 1235567575

Country

United Kingdom

Region code

UKJ14 - Oxfordshire

Companies House

4375679

Internet address(es)

Main address

<https://www.diamond.ac.uk>

I.3) Communication

The procurement documents are available for unrestricted and full direct access, free of charge, at

<https://www.diamondtenders@diamond.ac.uk/Home.aspx>

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

<https://www.diamondtenders@diamond.ac.uk>

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

Scientific Research

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

DLSITT1018 - Diamond-II Booster Girder Assemblies

Reference number

DLSITT1018

II.1.2) Main CPV code

- 31730000 - Electrotechnical equipment

II.1.3) Type of contract

Supplies

II.1.4) Short description

Located on the Harwell Science and Innovation Campus in Oxfordshire, Diamond Light Source (DLS) is a leading-edge facility for science, engineering and innovation. Diamond allows researchers from academia and industry to investigate the structure and behaviour of the world around us at the atomic and molecular level.

To continue delivering the world-changing science that Diamond enables, the facility is being upgraded to Diamond-II, a co-ordinated programme of development that combines a major

machine upgrade with new instruments and complementary improvements to optics, detectors, sample environment and delivery capabilities, and computing, as well as integrated and correlative methods. This will be transformative in speed and spatial resolution and will offer users streamlined access to enhanced instruments for life and physical sciences.

The scope of this contract is to carry out detailed design, manufacture, quality control, magnetic measurements and delivery to Diamond of a series of ready-to-install "girder assemblies" for the booster synchrotron upgrade part of the Diamond-II project.

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

II.2.4) Description of the procurement

Located on the Harwell Science and Innovation Campus in Oxfordshire, Diamond Light Source (DLS) is a leading-edge facility for science, engineering and innovation. Diamond allows researchers from academia and industry to investigate the structure and behaviour of the world around us at the atomic and molecular level.

To continue delivering the world-changing science that Diamond enables, the facility is being upgraded to Diamond-II, a co-ordinated programme of development that combines a major

machine upgrade with new instruments and complementary improvements to optics, detectors, sample environment and delivery capabilities, and computing, as well as integrated and correlative methods. This will be transformative in speed and spatial resolution and will offer users streamlined access to enhanced instruments for life and physical sciences.

The scope of this contract is to carry out detailed design, manufacture, quality control, magnetic measurements and delivery to Diamond of a series of ready-to-install "girder assemblies" for the booster synchrotron upgrade part of the Diamond-II project.

A total of 50 girder assemblies are required of various types containing different combinations of dipole, quadrupole, sextupole and corrector magnets. The girder assemblies will include the UHV vacuum vessel assembly running through the magnet gaps, including Beam Position Monitors (BPM), bellows, flanges and all necessary vacuum pumps and instrumentation, as well as their support pedestals, adjustment system and baseplates. The booster will operate at 5 Hz repetition frequency and hence all magnets must be of a laminated construction.

The girder assemblies must be designed and constructed so as to be able to be fitted together to form sections of the Diamond Booster synchrotron. The vacuum assemblies must be baked-out before integration in the magnets without venting and supplied under vacuum. The magnets and vacuum components are to be mounted and accurately aligned on the girders, complete with all service and interlock connections to suitable manifolds and electrical termination boards, by the Supplier, ready for installation. The Supplier will carry out full mechanical, electrical and magnetic testing of the individual magnetic elements, vacuum tests to ensure UHV compatibility, as well as other tests of

components and complete assemblies.

II.2.5) Award criteria

Quality criterion - Name: Technical Quality / Weighting: 30

Quality criterion - Name: Previous Experience / Weighting: 15

Quality criterion - Name: Delivery / Weighting: 10

Quality criterion - Name: Commercial / Weighting: 5

Price - Weighting: 40

II.2.6) Estimated value

Value excluding VAT: £40

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

Duration in months

36

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

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

28 May 2024

Local time

12:00pm

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

28 May 2024

Local time

1:00pm

Section VI. Complementary information

VI.1) Information about recurrence

This is a recurrent procurement: No

VI.4) Procedures for review

VI.4.1) Review body

Diamond Light Source

Harwell Science and Innovation Campus

Didcot

OX11 0ED

Country

United Kingdom