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Tender

DLSITT1067 - I15 Extreme Conditions Beamline Double Crystal Monochromator Replacement (D-II Upgrade)

DIAMOND LIGHT SOURCE LIMITED

UK4: Tender notice - Procurement Act 2023 - [view information about notice types](#)

Notice identifier: 2025/S 000-034335

Procurement identifier (OCID): ocids-h6vhtk-05519a

Published 23 June 2025, 11:56am

Scope

Reference

DLSITT1067

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 coordinated 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.

15 is Diamond's dedicated beamline for Extreme Conditions research. In operation since 2007, it utilises a superconducting multipole wiggler X-ray source to deliver X-rays across a broad energy range from 20 to 80 keV to its end stations. It supports both powder and single-crystal diffraction experiments under high-pressure and variable temperature conditions. While primarily dedicated to extreme conditions research, the beamline also facilitates a broad spectrum of studies requiring high-energy X-ray scattering techniques.

The D-II upgrade will increase the machine energy from 3 GeV to 3.5 GeV. The I15 Double Crystal Monochromator (DCM), as the beamline's first optical element, will consequently experience a substantial increase in power load due to this upgrade. Therefore, it is crucial to upgrade the DCM to ensure continued efficient and effective beamline operation without significant flux loss under the higher power load conditions on D-II.

This contract covers the design, manufacture, testing, delivery, and installation of a Double Crystal Monochromator (DCM) system, guided by the properties of the X-ray source and the performance requirements set out in the specification.

The Supplier is responsible for delivering a complete and functional system, including all necessary mechanical, electrical, and cooling components, suitable for integration into the available DLS infrastructure.

Total value (estimated)

- £400,000 excluding VAT
- £480,000 including VAT

Above the relevant threshold

Contract dates (estimated)

- 1 September 2025 to 26 January 2027
- 1 year, 4 months, 26 days

Main procurement category

Goods

CPV classifications

- 33111000 - X-ray devices

Contract locations

- UKJ14 - Oxfordshire

Participation

Particular suitability

Small and medium-sized enterprises (SME)

Submission

Tender submission deadline

23 July 2025, 12:00pm

Submission address and any special instructions

Please email tender submission to:

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

and send a hard copy to :

Procurement

Diamond House

Diamond Light Source Ltd

Harwell Science and Innovation Campus

Didcot

Oxon

OX11 0DE

UK

Tenders may be submitted electronically

Yes

Languages that may be used for submission

English

Award decision date (estimated)

14 August 2025

Award criteria

Name	Type	Weighting
Price	Price	40%
Technical Quality	Quality	25%
Experience and Capacity	Quality	25%
Delivery	Quality	5%
Commercial	Quality	5%

Other information

Applicable trade agreements

- Government Procurement Agreement (GPA)

Conflicts assessment prepared/revised

Yes

Procedure

Procedure type

Open procedure

Documents

Technical specifications to be met

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

Visit our web page:

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

Here Suppliers are required to complete a one-off simple registration form. You are then able to login to register an interest against the tender and download the Tender Documents.

Contracting authority

DIAMOND LIGHT SOURCE LIMITED

- Companies House: 04375679
- Public Procurement Organisation Number: PNGG-3778-PWBM

Diamond House

Didcot

OX11 0DE

United Kingdom

Email: procurement@diamond.ac.uk

Region: UKJ14 - Oxfordshire

Organisation type: Public authority - central government

