

494176-2026 - Result

Germany – Lasers – Photocathode Laser System

OJ S 136/2026 17/07/2026

Contract or concession award notice – standard regime

Supplies

1. Buyer

1.1. Buyer

Official name: Helmholtz-Zentrum Dresden-Rossendorf e.V.

Email: dm-vergabe@hzdr.de

Legal type of the buyer: Public undertaking, controlled by a central government authority

Activity of the contracting authority: Education

2. Procedure

2.1. Procedure

Title: Photocathode Laser System

Description: Delivery, installation and commissioning of a Photocathode Laser System

Procedure identifier: 8ad3f151-58e7-4a71-ac17-6ff2a9069463

Internal identifier: EUOV2607

Type of procedure: Open

The procedure is accelerated: no

2.1.1. Purpose

Main nature of the contract: Supplies

Main classification (cpv): 38636100 Lasers

2.1.2. Place of performance

Country: Germany

Anywhere in the given country

2.1.4. General information

Legal basis:

Directive 2014/24/EU

vgv -

5. Lot

5.1. Lot: LOT-0000

Title: Photocathode Laser System

Description: Helmholtz-Zentrum Dresden-Rossendorf (HZDR) has been working on the development of a superconducting electron source (SRF gun) for about 20 years. An integral part of this electron source is a photocathode laser which, in combination with a photocathode, uses the external photoelectric effect to generate electron pulses. These pulses are then accelerated by the electric field of the superconducting RF resonator. The required laser wavelength for this purpose is about 260 nm, while the aimed pulse energy at this wavelength is 5 µJ. Detailed requirements in the table below (2. Performance quote) are specified separately for the fundamental wavelength in infrared (IR) and the 4th harmonic in ultraviolet

(UV). Pulse repetition rate shall be flexible and reach 2 MHz. The average power in UV has to reach at least 1 W. Laser pulse duration is a key optimization parameter that needs to be variable in the range of 0.3-10 ps FWHM. Moreover, the temporal (longitudinal) profile of the laser pulse overall is important for properties of the generated electron pulse and thus also needs to be adjustable. For this, a spatial light modulator for modifying the spectrum needs to be integrated in the offered system. It is desirable that the manufacturer finds settings of the spectral shaper that result in a flat-top temporal shape of the UV pulse. Given that the temporal shape of a chirped pulse is critical in the planned application, spectral smoothness, stability and absence of long wings or shoulders are of high importance. Spectrum distortions caused by nonlinear effects shall be insignificant even at the maximum required pulse energy. Ability to synchronize the oscillators' repetition rate to a radio-frequency (RF) reference signal is necessary. Achievable integrated time jitter in the range between 10 Hz and 1 MHz of the laser with respect to the reference shall not exceed 100 fs. However, synchronization electronics are not part of the current tender and will be obtained from another source. The oscillator needs to be prepared for repetition rate locking, i.e. contain a short-range and a long-range actuators for fine adjustment of the cavity length. Another aspect of synchronization is the ability to control the repetition rate and the emission time of the laser by an external trigger signal. This ability needs to be available. Reliability and permanent availability (24/7) are of particular importance. The system will be located in an optical laboratory with $\pm 1^\circ\text{C}$ temperature stability. Beside the fulfilment of the criteria described in annex 01A, the scope of deliveries and services includes, that means are to be offered in the quotation: • Factory Acceptance Test (FAT), with proof of fulfilment of the performance requirements • Delivery according to DDP (Incoterms 2010) to the place of usage • Installation und commissioning including On-Site Acceptance Test (OSAT), with proof of fulfilment of the performance requirements • 12 months warranty from OSAT • CE marking • complete manual in English • suitable "water-to-water chiller"

Internal identifier: LOT-0000

5.1.1. Purpose

Main nature of the contract: Supplies

Main classification (cpv): 38636100 Lasers

5.1.2. Place of performance

Country: Germany

Anywhere in the given country

5.1.3. Estimated duration

Duration: 10 Months

5.1.6. General information

Procurement Project not financed with EU Funds.

The procurement is covered by the Government Procurement Agreement (GPA): yes

5.1.7. Strategic procurement

Aim of strategic procurement: No strategic procurement

5.1.10. Award criteria

Criterion:

Type: Quality

Name: Performance

Description: Criteria according to annex 01A

Category of award weight criterion: Weight (percentage, exact)

Award criterion number: 50

Criterion:

Type: Price

Name: Preis

Description: Evaluation price in accordance with annex 01A.

Category of award weight criterion: Weight (percentage, exact)

Award criterion number: 50

5.1.15. Techniques

Framework agreement:

No framework agreement

Information about the dynamic purchasing system:

No dynamic purchase system

5.1.16. Further information, mediation and review

Review organisation: Vergabekammer des Bundes

Organisation providing more information on the review procedures: Vergabekammer des Bundes

6. Results

Value of all contracts awarded in this notice: unpublished

Justification code: Commercial interests of an economic operator

6.1. Result lot identifier: LOT-0000

Winner selection status: At least one winner was chosen.

6.1.2. Information about winners

Winner:

Official name: Light Conversion GmbH

Tender:

Tender identifier: TEN-0001

Identifier of lot or group of lots: LOT-0000

Value of the tender: unpublished

Justification code: Commercial interests of an economic operator

Subcontracting: No

Contract information:

Identifier of the contract: CON-0001

Date of the conclusion of the contract: 16/07/2026

6.1.4. Statistical information

Received tenders or requests to participate:

Type of received submissions: Tenders

Number of tenders or requests to participate received: 1

Type of received submissions: Tenders submitted electronically

Number of tenders or requests to participate received: 1

Type of received submissions: Tenders from micro, small or medium tenderers

Number of tenders or requests to participate received: 0

Type of received submissions: Tenders from tenderers registered in other European Economic Area countries than the country of the buyer

Number of tenders or requests to participate received: 1

Type of received submissions: Tenders from tenders registered in countries outside of the European Economic Area

Number of tenders or requests to participate received: 0

8. Organisations

8.1. ORG-7001

Official name: Helmholtz-Zentrum Dresden-Rossendorf e.V.

Registration number: 992-80200-35

Postal address: Bautzner Landstraße 400

Town: Dresden

Postcode: 01328

Country subdivision (NUTS): Dresden, Kreisfreie Stadt (DED21)

Country: Germany

Contact point: Abteilung Vergabe- und Beschaffungswesen

Email: dm-vergabe@hzdr.de

Telephone: +49 351260-0

Internet address: <https://www.hzdr.de>

Roles of this organisation:

Buyer

8.1. ORG-7004

Official name: Vergabekammer des Bundes

Registration number: -

Postal address: Kaiser-Friedrich-Straße 16

Town: Bonn

Postcode: 53113

Country subdivision (NUTS): Bonn, Kreisfreie Stadt (DEA22)

Country: Germany

Email: vk@bundeskartellamt.bund.de

Roles of this organisation:

Review organisation

8.1. ORG-7005

Official name: Vergabekammer des Bundes

Registration number: --

Postal address: Kaiser-Friedrich-Str. 16

Town: Bonn

Postcode: 53113

Country subdivision (NUTS): Bonn, Kreisfreie Stadt (DEA22)

Country: Germany

Email: vk@bundeskartellamt.bund.de

Roles of this organisation:

Organisation providing more information on the review procedures

8.1. ORG-0001

Official name: Light Conversion GmbH

Size of the economic operator: Large

Registration number: LT225988917

Postal address: Keramiku st. 2B

Town: Vilnius

Postcode: LT-10233a

Country subdivision (NUTS): Vilniaus apskritis (LT011)

Country: Lithuania

Email: sales.dach@lightcon.com

Telephone: +370 52472232

Fax: +370 52472232

Roles of this organisation:

Tenderer

Beneficial owner:

Nationality of the owner: Lithuania

Winner of these lots: LOT-0000

8.1. ORG-7006

Official name: Datenservice Öffentlicher Einkauf (in Verantwortung des Beschaffungsamts des BMI)

Registration number: 0204:994-DOEVD-83

Town: Bonn

Postcode: 53119

Country subdivision (NUTS): Bonn, Kreisfreie Stadt (DEA22)

Country: Germany

Email: noreply.esender_hub@bescha.bund.de

Telephone: +49228996100

Roles of this organisation:

TED eSender

Notice information

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