

185586-2026 - Licitación

Alemania – Diamantes industriales – High Pressure High Temperature (HPHT) Diamonds

OJ S 54/2026 18/03/2026

Anuncio de contrato o de concesión. Régimen normal

Suministros

1. Comprador

1.1. Comprador

Denominación oficial: European X-Ray Free-Electron Laser Facility GmbH

Correo electrónico: tender@xfel.eu

Naturaleza jurídica del comprador: Organización que concede un contrato subvencionado por un poder adjudicador

Actividad del poder adjudicador: Educación

2. Procedimiento

2.1. Procedimiento

Título: High Pressure High Temperature (HPHT) Diamonds

Descripción: This tender is adopted with Innovation Partnership Procedure which is a specific procurement method established under EU public procurement law (Directive 2014/24/EU), allowing public contracting authorities/companies to procure R&D services and the subsequent purchase of resulting innovative products, services or works in one integrated process. It is particularly useful when products or solutions do not exist on the market. The high-quality HPHT diamonds themselves are not inherently innovative. However, due to the current political situation, there is a lack of an established supply chain within Europe. The innovation in this case lies not in the material, but in its use: EuXFEL is pursuing the development of a prototype Diamond Double-Crystal Monochromator (Diamond DCM) using HPHT diamond, which provides significantly better thermal conductivity and quality than available CVD diamonds. Although silicon-based DCMs are already commercially available, diamond-based equivalents have not yet reached the market. Single Procedure: Combines R&D and subsequent commercial procurement, avoiding the need for a separate tender once the innovation is developed.

Identificador del procedimiento: 881cfa1c-db41-47e9-983f-f323f2f52d4c

Tipo de procedimiento: Asociación para la innovación

2.1.1. Finalidad

Naturaleza del contrato: Suministros

Clasificación principal (cpv): 14522200 Diamantes industriales

2.1.2. Lugar de ejecución

Subdivisión del país (NUTS): Pinneberg (DEF09)

País: Alemania

2.1.4. Información general

Base jurídica:

Directiva 2014/24/UE

vgv -

2.1.6. Motivos de exclusión

Fuentes de los motivos de exclusión: Documento de contratación

5. Lote

5.1. Lote: LOT-0001

Título: High Pressure High Temperature Diamonds

Descripción: Phase 0 : Call for Competition -Request to participate, stating their understanding of the technical specifications and the expectation from EuXFEL, the expected results, milestone achievements, and the requested achievable timeframe for each phase, as well as agree the overall production plan and estimated timeline at the final phase 4, details as stated in the tender documents (Technical Specification). -Bidders must provide a concise description confirming compliance with the technical specifications including the tolerances, requested project timeline and reporting period/time frame outlined in this document. If any required parameters cannot be met, the contractor must explicitly state so in the offer, along with details of the achievable parameters. -Initial offer must be submitted based on the requirements stated on the "High Pressure High Temperature (HPHT) Diamonds" specification, under 1.2 "Diamond plates specification"- "General Geometrical and Material Specifications", as informational purpose only -Complete & Sign Tender Forms Phase 1: Initial Development and Screening In this phase, maximum five (5) bidders will be selected from Phase 0 must each deliver one (1) diamond plate together with technical report in accordance with the requirements defined below. The delivered plate shall be characterized and submitted for evaluation by EuXFEL. EuXFEL reserves the right to shortlist fewer than five (5) bidders for this stage if one or more bidders do not meet the selection criteria for this phase. Phase 2: Process Optimization The objective of this phase is the optimization of the diamond growth and processing process to achieve a larger defect-free area while minimizing lattice strain. In this phase, the suppliers selected following Phase 1 must each deliver two (2) diamond plates with (100) crystallographic orientation with technical report on the requested timeframe in accordance with the requirements defined below. The delivered plates shall be characterized and submitted for evaluation by EuXFEL. Phase 3: Advanced Development for (110) Orientation The objective of this phase is the development and delivery of a high-quality diamond plate with (110) crystallographic orientation, which represents a more technically demanding configuration compared to the (100) orientation. In this phase, the suppliers selected following Phase 2 shall each deliver one (1) diamond plate in accordance with the requirements defined below. The delivered plate shall be characterized and submitted for evaluation by EuXFEL. If the analysis results of the 3rd crystal plate from any 2 or more than 2 bidders are identical. EuXFEL will request the bidders to submit their offers of the 4th plate of crystals with the final agreed specification at the end of Phase 3 for comparison, instead of at the beginning of Phase 4. Phase 4: Final Supply and Integration of the plates to the monochromator Delivery of two (2) diamond plates (100) oriented and two (2) diamond plates (110) oriented. Only 1 supplier will be selected on Phase 4. The selected bidder must submit the final offer at this phase. The price quoted on the final offer must be in Euro fix, not subject to escalation or variation. The price must include design, probing & testing, classification if applicable, technical report, delivery to the premises of EuXFEL and include all labeling, packaging and insurance as well as factory acceptance tests (FAT), but exclude Value Added Tax (VAT) as well as customs duties. By submitting the final offer, the terms and conditions of this innovation partnership procedure are accepted.

Identificador interno: LOT-0001 XRO-CT32310

5.1.1. Finalidad

Naturaleza del contrato: Suministros
Clasificación principal (cpv): 14522200 Diamantes industriales

5.1.2. Lugar de ejecución

Subdivisión del país (NUTS): Pinneberg (DEF09)
País: Alemania
Información complementaria: None

5.1.3. Duración estimada

Duración: otra información: Desconocido

5.1.6. Información general

Participación reservada:

La participación no está reservada.

Proyecto de contratación pública no financiado con fondos de la UE

La contratación pública está cubierta por el Acuerdo sobre Contratación Pública (ACP): no
Esta contratación también es adecuada para las pequeñas y medianas empresas (pymes): sí
Información complementaria: #Besonders auch geeignet für:freelance#, #Besonders auch geeignet für:startup#, #Besonders auch geeignet für:other-sme#, #Besonders auch geeignet für:selbst#

5.1.7. Contratación estratégica

Objetivo de la contratación estratégica: Compra innovadora

Descripción: This tender is adopted with Innovation Partnership Procedure which is a specific procurement method established under EU public procurement law (Directive 2014/24/EU), allowing public contracting authorities/companies to procure R&D services and the subsequent purchase of resulting innovative products, services or works in one integrated process. It is particularly useful when products or solutions do not exist on the market. This tender includes Phase 0 to Phase 4. The high-quality HPHT diamonds themselves are not inherently innovative. However, due to the current political situation, there is a lack of an established supply chain within Europe. The innovation in this case lies not in the material, but in its use: EuXFEL is pursuing the development of a prototype Artificial Channel-Cut Monochromator (ACCM) using HPHT diamond, which provides significantly better thermal conductivity and quality than available CVD diamonds. Although silicon-based ACCMs are already commercially available, diamond-based equivalents have not yet reached the market. Single Procedure: Combines R&D and subsequent commercial procurement, avoiding the need for a separate tender once the innovation is developed.

Contratación de innovación: Las obras, suministros o servicios contratados incluyen actividades de investigación y desarrollo.

5.1.9. Criterios de selección

Fuentes de los criterios de selección: Documento de contratación

Información sobre la segunda fase de un procedimiento de dos fases:

Número mínimo de candidatos que serán invitados a la segunda fase del procedimiento: 3
Número máximo de candidatos que serán invitados a la segunda fase del procedimiento: 5
El procedimiento se desarrollará en fases sucesivas. En cada fase, pueden eliminarse algunos participantes

5.1.10. Criterios de adjudicación

Criterio:

Tipo: Calidad

Descripción: Selection criteria for Phase 0: Phase 0 - Selection suitability criteria for invitation for next Phase (Phase 1): A total of 100 points can be achieved when evaluating references. References (3 References – experience as a company in projects of similar characteristics within the last ten years stated on the Tender Forms) are evaluated by comparing applicants with each other based on the following scale/grading system. The maximum number of points is multiplied by the respective weighting factor (percentage)– multiplied by the respective weighting factor (percentage). - 100% = very good: The applicant meets the requirements for the suitability criterion to the highest degree, - 80% = good: Applicant meets the requirements for the suitability criterion to the highest degree, - 60% = fully satisfactory: The applicant meets the suitability criteria to a high degree to a high degree, - 40% = satisfactory: Applicant meets the requirements for the suitability criterion to a sufficient degree, - 20% = adequate: Applicant meets the requirements for the eligibility criterion to a barely sufficient degree. In the range between 0% and 100%, intermediate values can be formed to take into account a tendency toward the higher grade level (10%, 30%, 50%, 70%, 90%), which be assigned to the respective grade level with the straight percentage below it. An assessment of an aptitude criterion (performance or expertise) with 10% would correspond to a complete failure to meet the respective suitability criterion, which would result in the exclusion of the application for participation (knockout criterion). The above criteria are suitability criteria, not award criteria. EuXFEL aims to select maximum 5 bidders/applicants in Phase 1. If no 3 bidders/applicants are similarly qualified in terms of meeting the minimum requirements or total points, only those applicants who are sufficiently suitable will be included. If several applicants/bidders achieve the same total score and the number of applicants/bidders exceeds the planned number to be invited to the next phase, EuXFEL reserves the right to select among the remaining applicants with the same score by drawing lots. These criteria will be used to determine which applicants will be invited to the next phase of the process.

5.1.11. Pliegos de contratación

Lenguas en las que los pliegos de contratación están disponibles oficialmente: inglés

Dirección de los pliegos de contratación: <https://www.subreport.de/E29531557>

5.1.12. Condiciones de la contratación pública

Condiciones de presentación:

Presentación electrónica: Obligatoria

Dirección para la presentación: <https://www.subreport.de/E29531557>

Lenguas en las que pueden presentarse las ofertas o solicitudes de participación: alemán

Catálogo electrónico: No autorizada

Variantes: No autorizada

Los licitadores pueden presentar más de una oferta: No autorizada

Plazo de recepción de solicitudes de participación: 20/04/2026 12:00:00 (UTC+02:00) Hora de Europa Oriental, hora de verano de Europa Central

Información que puede completarse finalizado el plazo de presentación:

A discreción del comprador, podrán presentarse posteriormente todos los documentos relacionados con el licitador que falten.

Información complementaria: None

Condiciones del contrato:

La ejecución del contrato debe realizarse en el marco de programas de empleo protegido: No

Facturación electrónica: Permitida

Se utilizarán pedidos electrónicos: sí

Se utilizará el pago electrónico: sí

5.1.15. Técnicas

Acuerdo marco:

Ningún acuerdo marco

Información sobre el sistema dinámico de adquisición:

Ningún sistema dinámico de adquisición

5.1.16. Información adicional, mediación y recurso

Organización encargada de los procedimientos de recurso: Vergabekammer des Bundes beim Bundeskartellamt Registration number: +49 022894990 Country subdivision (NUTS): Bonn, Kreisfreie Stadt (DEA22) Country: Germany Roles of this organisation: Review organisation Mediation organisation

Información sobre los plazos de revisión: The legal regulations applied

Organización que proporciona más información sobre los procedimientos de recurso:

European X-Ray Free-Electron Laser Facility GmbH

8. Organizaciones

8.1. ORG-0001

Denominación oficial: European X-Ray Free-Electron Laser Facility GmbH

Número de registro: DE815117472

Dirección postal: Holzkoppel 4

Localidad: Schenefeld

Código postal: 22869

Subdivisión del país (NUTS): Pinneberg (DEF09)

País: Alemania

Correo electrónico: tender@xfel.eu

Teléfono: +49 (0)40 8998-6768

Dirección de internet: <https://www.xfel.eu>

Funciones de esta organización:

Comprador

Organización que proporciona más información sobre los procedimientos de recurso

8.1. ORG-0002

Denominación oficial: Vergabekammer des Bundes beim Bundeskartellamt Registration number: +49 022894990 Country subdivision (NUTS): Bonn, Kreisfreie Stadt (DEA22)

Country: Germany Roles of this organisation: Review organisation Mediation organisation

Número de registro: Telephone: +49 22894990

Localidad: Bonn

Código postal: 53113

Subdivisión del país (NUTS): Bonn, Kreisfreie Stadt (DEA22)

País: Alemania

Correo electrónico: vk@bundeskartellamt.bund.de

Teléfono: +49 22894990

Funciones de esta organización:

Organización encargada de los procedimientos de recurso

8.1. ORG-0003

Denominación oficial: Datenservice Öffentlicher Einkauf (in Verantwortung des Beschaffungsamts des BMI)

Número de registro: 0204:994-DOEVD-83

Localidad: Bonn

Código postal: 53119

Subdivisión del país (NUTS): Bonn, Kreisfreie Stadt (DEA22)

País: Alemania

Correo electrónico: noreply.esender_hub@bescha.bund.de

Teléfono: +49228996100

Funciones de esta organización:

TED eSender

Información del anuncio

Identificador/versión del anuncio: 0dbe963b-28bf-4873-aac4-a10503b6e24b - 01

Tipo de formulario: Licitación

Tipo de anuncio: Anuncio de contrato o de concesión. Régimen normal

Subtipo de anuncio: 16

Fecha de envío del anuncio: 16/03/2026 09:08:40 (UTC+01:00) Hora de Europa Central, hora de verano de Europa Occidental

Lenguas en las que este anuncio está disponible oficialmente: alemán

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