

185586-2026 - Iomaíocht

An Ghearmáin – Industrial diamonds – High Pressure High Temperature (HPHT) Diamonds

OJ S 54/2026 18/03/2026

Fógra maidir le conradh nó lamháltas — an gnáthchóras

Soláthairtí

1. Ceannaitheoir

1.1. Ceannaitheoir

Ainm oifigiúil: European X-Ray Free-Electron Laser Facility GmbH

R-phost: tender@xfel.eu

Cineál dlíthiúil an cheannaitheora: Eagraíocht atá ag dámhachtain conradh atá fóirdheonaithe ag údarás conarthachta

Gníomhaíocht an údaráis chonarthaigh: Oideachas

2. Nós imeachta

2.1. Nós imeachta

Teideal: High Pressure High Temperature (HPHT) Diamonds

Cur síos: 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.

Aitheantóir an nós imeachta: 881cfa1c-db41-47e9-983f-f323f2f52d4c

An cineál nós imeachta: Comhpháirtíocht nuálaíochta

2.1.1. Cuspóir

Cineál an chonartha: Soláthairtí

Príomhaicmiú (cpv): 14522200 Industrial diamonds

2.1.2. An áit feidhmíochta

Foroinn tíre (NUTS): Pinneberg (DEF09)

Tír: An Ghearmáin

2.1.4. Eolas ginearálta

Bunús dlí:

Treoir 2014/24/AE

vgv -

2.1.6. Forais eisiaimh

Foinse na gcúiseanna eisiúna: Doiciméad Soláthair

5. Luchtóg

5.1. Luchtóg: LOT-0001

Teideal: High Pressure High Temperature Diamonds

Cur síos: 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.

Aitheantóir inmheánach: LOT-0001 XRO-CT32310

5.1.1. Cuspóir

5.1.2. An áit feidhmíochta

Foroinn tíre (NUTS): Pinneberg (DEF09)

Tír: An Ghearmáin

Eolas breise: None

5.1.3. Fad measta

Fad ama eile: Anaithnid

5.1.6. Eolas ginearálta

Rannpháirtíocht fhorchoimeádta:

Ní fhorchoimeádtar an rannpháirtíocht.

Tionscadal soláthair nach maoinítear le cistí an Aontais

Tá an soláthar cumhdaithe ag an gComhaontú maidir le Soláthar Rialtais (GPA): níl

Tá an soláthar sin oiriúnach freisin d'fhiontair bheaga agus mheánmhéide (FBManna): tá

Eolas breise: #Besonders auch geeignet für:freelance#, #Besonders auch geeignet für:

startup#, #Besonders auch geeignet für:other-sme#, #Besonders auch geeignet für:selbst#

5.1.7. Soláthar straitéiseach

Aidhm an tsoláthair straitéisigh: Ceannach nuálach

Cur síos: 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.

Soláthar Nuálaíochta: Baineann gníomhaíochtaí taighde agus forbartha leis na hoibreacha, na soláthairtí nó na seirbhísí atáthar a sholáthar.

5.1.9. Critéir roghnúcháin

Foinse na gcritéir roghnaithe: Doiciméad Soláthair

Eolas faoin dara céim de nós imeachta dhá chéim:

An líon íosta iarrthóirí a dtabharfar cuireadh dóibh chuig an dara céim den nós imeachta: 3

An líon uasta iarrthóirí a dtabharfar cuireadh dóibh chuig an dara céim den nós imeachta: 5

Beidh an nós imeachta ar siúl i gcéimeanna comhleanúnacha. I ngach céim, d'fhéadfaí roinnt rannpháirtithe a dhíchur

5.1.10. Critéir dhámhachtana

Critéar:

Cineál: Cáilíocht

Cur síos: 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. Doiciméid soláthair

Na teangacha ina bhfuil na doiciméid soláthair ar fáil go hoifigiúil: Béarla
Seoladh na ndoiciméad soláthair: <https://www.subreport.de/E29531557>

5.1.12. Téarmaí soláthair

Téarmaí na haigneachta:

Cur isteach leictreonach: Éigeantach

Seoladh an chur isteach: <https://www.subreport.de/E29531557>

Na teangacha inar féidir tairiscintí nó iarrataí ar rannpháirtíocht a chur isteach: Gearmáinis

Catalóg leictreonach: Ní ceadmhach

Leaganacha malartacha: Ní ceadmhach

Féadfaidh tairgeoirí níos mó ná tairiscint amháin a chur isteach: Ní ceadmhach

Spríodhata chun iarrataí ar rannpháirtíocht a fháil: 20/04/2026 12:00:00 (UTC+02:00) Am Oirthear na hEorpa, Am Samhraidh Lár na hEorpa

Eolas is féidir a fhorlónadh tar éis an spríodhata chun iarratas a dhéanamh:

Faoi rogha an cheannaitheora, féadfar gach doiciméad ar iarraidh a bhaineann leis an tairgeoir a chur isteach níos déanaí.

Eolas breise: None

Téarmaí an chonartha:

Ní mór an conradh a chur i gcrích faoi chuimsiú clár fostaíochta dídeanaí: Ní hea

Sonrascú leictreonach: Ceadmhach

Úsáidfear ordú leictreonach: tá

Úsáidfear íocaíocht leictreonach: tá

5.1.15. Teicnící

Creat-chomhaontú:

Níl feidhm ag creat-chomhaontú

Eolas faoin gcóras ceannaigh dinimiciúil:

Níl feidhm ag córas ceannaigh dinimiciúil

5.1.16. Tuilleadh eolais, idirghabháil agus athbhreithniú

Eagraíocht athbhreithniúcháin: 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

Eolas faoi spriocdhátaí athbhreithnithe: The legal regulations applied

Eagraíocht a sholáthraíonn tuilleadh faisnéise faoi na nósanna imeachta athbhreithnithe:

European X-Ray Free-Electron Laser Facility GmbH

8. Eagraíochtaí

8.1. ORG-0001

Ainm oifigiúil: European X-Ray Free-Electron Laser Facility GmbH

Uimhir chlárúcháin: DE815117472

Seoladh poist: Holzkoppel 4

Baile: Schenefeld

Cód poist: 22869

Foroinn tíre (NUTS): Pinneberg (DEF09)

Tír: An Ghearmáin

R-phost: tender@xfel.eu

Teil.: +49 (0)40 8998-6768

Seoladh idirlín: <https://www.xfel.eu>

Róil na heagraíochta seo:

Ceannaitheoir

Eagraíocht a sholáthraíonn tuilleadh faisnéise faoi na nósanna imeachta athbhreithnithe

8.1. ORG-0002

Ainm oifigiúil: 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

Uimhir chlárúcháin: Telephone: +49 22894990

Baile: Bonn

Cód poist: 53113

Foroinn tíre (NUTS): Bonn, Kreisfreie Stadt (DEA22)

Tír: An Ghearmáin

R-phost: vk@bundeskartellamt.bund.de

Teil.: +49 22894990

Róil na heagraíochta seo:

Eagraíocht athbhreithniúcháin

8.1. ORG-0003

Ainm oifigiúil: Datenservice Öffentlicher Einkauf (in Verantwortung des Beschaffungsamts des BMI)

Uimhir chlárúcháin: 0204:994-DOEVD-83

Baile: Bonn

Cód poist: 53119

Foroinn tíre (NUTS): Bonn, Kreisfreie Stadt (DEA22)

Tír: An Ghearmáin

R-phost: noreply.esender_hub@bescha.bund.de

Teil.: +49228996100

Róil na heagraíochta seo:

TED eSender

Eolas faoin bhfógra

Aitheantóir/leagan an fhógra: 0dbe963b-28bf-4873-aac4-a10503b6e24b - 01

Cineál na foirme: Iomaíocht

Cineál an fhógra: Fógra maidir le conradh nó lamháltas — an gnáthchóras

Fochineál an fhógra: 16

Dáta seolta an fhógra: 16/03/2026 09:08:40 (UTC+01:00) Am Lár na hEorpa, Am Samhraidh Iarthar na hEorpa

Na teangacha ina bhfuil an fógra seo ar fáil go hoifigiúil: Gearmáinis

Uimhir foilseacháin an fhógra: 185586-2026

Uimhir eagráin IO S: 54/2026

Dáta foilsithe: 18/03/2026