

185586-2026 - Hange

Saksamaa – Tehisteemandid – High Pressure High Temperature (HPHT) Diamonds

OJ S 54/2026 18/03/2026

Hanketeade või kontsessiooniteade – üldkord

Asjad

1. Hankija

1.1. Hankija

Ametlik nimi: European X-Ray Free-Electron Laser Facility GmbH

E-posti aadress: tender@xfel.eu

Hankija õiguslik vorm: Hankija subsideeritavat lepingut sõlmiv organisatsioon

Hankija tegevus: Haridus

2. Menetlus

2.1. Menetlus

Pealkiri: High Pressure High Temperature (HPHT) Diamonds

Kirjeldus: 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.

Menetluse tunnus: 881cfa1c-db41-47e9-983f-f323f2f52d4c

Menetluse liik: Innovatsioonipartnerlus

2.1.1. Eesmärk

Lepingu olemus: Asjad

Peamine liigitus (cpv): 14522200 Tehisteemandid

2.1.2. Lepingu täitmise koht

Riik – jaotus (NUTS): Pinneberg (DEF09)

Riik: Saksamaa

2.1.4. Üldine teave

Õiguslik alus:

Direktiiv 2014/24/EL

vgv -

2.1.6. Kõrvaldamise alused

5. Osa

5.1. Osa: LOT-0001

Pealkiri: High Pressure High Temperature Diamonds

Kirjeldus: 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.

Sisemine tunnus: LOT-0001 XRO-CT32310

5.1.1. Eesmärk

Lepingu olemus: Asjad

5.1.2. Lepingu täitmise koht

Riik – jaotus (NUTS): Pinneberg (DEF09)

Riik: Saksamaa

Lisateave: None

5.1.3. Eeldatav kestus

Muu kestus: Teadmata

5.1.6. Üldine teave

Reserveeritud osalemine:

Osalemine ei ole reserveeritud.

Hankeprojekt, mida ei rahastata ELi vahenditest

Hanke suhtes kohaldatakse riigihankelepingut (GPA): ei

See hange sobib ka väikestele ja keskmise suurusega ettevõtjatele (VKEd): jah

Lisateave: #Besonders auch geeignet für:freelance#, #Besonders auch geeignet für:startup#,

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

5.1.7. Strateegilised hanked

Strateegilise hanke eesmärk: Innovaatiline hange

Kirjeldus: 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.

Innovatsioonihange: Hangitud ehitustööd, asjad või teenused hõlmavad teadus- ja arendustegevust.

5.1.9. Kvalifitseerimistingimused

Valikukriteeriumide allikad: Hankedokument

Teave kaheetapilise menetluse teise etapi kohta:

Menetluse teise etapi kutsutavate taotlejate miinimumarv: 3

Menetluse teise etapi kutsutavate taotlejate maksimumarv: 5

Menetlus toimub järjestikuste etappidena. Igas etapis võidakse mõni osaleja kõrvaldada

5.1.10. Pakkumuste hindamise kriteeriumid

Kriteerium:

Liik: Kvaliteet

Kirjeldus: 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. Hankedokumendid

Keeled, milles hankedokumendid on ametlikult kättesaadavad: inglise keel

Hankedokumentide aadress: <https://www.subreport.de/E29531557>

5.1.12. Hanke tingimused

Esitamise tingimused:

Elektroniline esitamine: Nõutav

Esitamise aadress: <https://www.subreport.de/E29531557>

Keeled, milles võib pakkumusi või osalemistaotlusi esitada: saksa keel

Elektroniline kataloog: Ei ole lubatud

Variandid: Ei ole lubatud

Pakkujad võivad esitada rohkem kui ühe pakkumuse: Ei ole lubatud

Osalemistaotluste esitamise tähtaeg: 20/04/2026 12:00:00 (UTC+02:00) Ida-Euroopa aeg,

Kesk-Euroopa suveaeg

Teave, mida saab pärast esitamise tähtaega täiendada:

Ostja äranägemisel võib kõik puuduvad pakkujaga seotud dokumendid esitada hiljem.

Lisateave: None

Lepingutingimused:

Lepingu täitmine peab toimuma kaitstud tööhõive programmide raames: Ei

E-arveldamine: Lubatud

Kasutatakse elektroonilisi tellimusi: jah

Kasutatakse elektroonilisi makseid: jah

5.1.15. Vahendid

Raamleping:

Ei kohaldata raamlepingut

Teave dunaamilise hankesüsteemi kohta:

Ei kohaldata dunaamilist hankesüsteemi

5.1.16. Lisateave, lepitus ja vaidlustus

Vaidlustusorgan: 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 Teave vaidlustamise tähtaegade kohta: The legal regulations applied Organisatsioon, mis annab lisateavet vaidlustamise kohta: European X-Ray Free-Electron Laser Facility GmbH

8. Organisatsioonid

8.1. ORG-0001

Ametlik nimi: European X-Ray Free-Electron Laser Facility GmbH
Registreerimisnumber: DE815117472
Postiaadress: Holzkoppel 4
Linn: Schenefeld
Sihtnumber: 22869
Riik – jaotus (NUTS): Pinneberg (DEF09)
Riik: Saksamaa
E-posti aadress: tender@xfel.eu
Telefon: +49 (0)40 8998-6768
Internetiaadress: <https://www.xfel.eu>
Selle organisatsiooni rollid:
Hankija
Organisatsioon, mis annab lisateavet vaidlustamise kohta

8.1. ORG-0002

Ametlik nimi: 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
Registreerimisnumber: Telephone: +49 22894990
Linn: Bonn
Sihtnumber: 53113
Riik – jaotus (NUTS): Bonn, Kreisfreie Stadt (DEA22)
Riik: Saksamaa
E-posti aadress: vk@bundeskartellamt.bund.de
Telefon: +49 22894990
Selle organisatsiooni rollid:
Vaidlustusorgan

8.1. ORG-0003

Ametlik nimi: Datenservice Öffentlicher Einkauf (in Verantwortung des Beschaffungsamts des BMI)
Registreerimisnumber: 0204:994-DOEVD-83
Linn: Bonn
Sihtnumber: 53119
Riik – jaotus (NUTS): Bonn, Kreisfreie Stadt (DEA22)
Riik: Saksamaa
E-posti aadress: noreply.esender_hub@bescha.bund.de
Telefon: +49228996100
Selle organisatsiooni rollid:

Teave teate kohta

Teate tunnus/version: 0dbe963b-28bf-4873-aac4-a10503b6e24b - 01

Vormi liik: Hange

Teate liik: Hanketeade või kontsessiooniteade – üldkord

Teate alaliik: 16

Teate saatmise kuupäev: 16/03/2026 09:08:40 (UTC+01:00) Kesk-Euroopa aeg, Lääne-Euroopa suveaeg

Keeled, milles käesolev teade on ametlikult kättesaadav: saksa keel

Teate avaldamise number: 185586-2026

ELT S väljaande number: 54/2026

Avaldamise kuupäev: 18/03/2026