

**Switzerland-Geneva: Research and experimental development services**

OJ S 23/2020 03/02/2020

**Contract notice****Services****Legal Basis:**

Directive 2014/24/EU

**Section I: Contracting authority**

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**I.1. Name and addresses**

Official name: European Organization for Nuclear Research (CERN)

Postal address: Geneva 23

Town: Geneva

NUTS code: CH013 Genève

Postal code: 1211

Country: Switzerland

Contact person: Joshua Davison

E-mail: [joshua.luke.davison@cern.ch](mailto:joshua.luke.davison@cern.ch)

Telephone: +41 227664458

**Internet address(es):**Main address: [www.cern.ch](http://www.cern.ch)**I.1. Name and addresses**

Official name: Stiftung Deutsches Elektronen-Synchrotron (DESY)

Postal address: Notkestrasse 85

Town: Hamburg

NUTS code: DE600 Hamburg

Postal code: 22607

Country: Germany

Contact person: Prof Volker Guelzow

E-mail: [volker.guelzow@desy.de](mailto:volker.guelzow@desy.de)**Internet address(es):**Main address: [www.desy.de](http://www.desy.de)**I.1. Name and addresses**

Official name: European Molecular Biology Laboratory (EMBL)

Postal address: Meyerhofstrasse 1

Town: Heidelberg

NUTS code: DE125 Heidelberg, Stadtkreis

Postal code: 69117

Country: Germany

Contact person: Steven Newhouse

E-mail: [steven.newhouse@ebi.ec.uk](mailto:steven.newhouse@ebi.ec.uk)**Internet address(es):**Main address: [www.embl.org](http://www.embl.org)**I.1. Name and addresses**

Official name: Instituto de Fisica de Altas Energias (IFAE-PIC)

Postal address: Campus de Bellaterra — Universidad A

Town: Cerdanyola del Valles  
NUTS code: ES511 Barcelona  
Postal code: 08193  
Country: Spain  
Contact person: Prof Manuel Delfino  
E-mail: [delfino@pic.es](mailto:delfino@pic.es)  
**Internet address(es):**  
Main address: [www.ifae.es](http://www.ifae.es)

## **I.2. Information about joint procurement**

The contract involves joint procurement

In the case of joint procurement involving different countries, state applicable national procurement law:

This PIN concerns a Pre-Commercial Procurement (PCP). CERN is appointed as the lead contractor to lead and coordinate the procurement on behalf of the buyers group listed in I.1.

## **I.3. Communication**

Access to the procurement documents is restricted. Further information can be obtained at:

<https://www.archiver-project.eu/>

Additional information can be obtained from the abovementioned address

Tenders or requests to participate must be submitted electronically via: <https://cds.cern.ch/>

## **I.4. Type of the contracting authority**

European institution/agency or international organisation

## **I.5. Main activity**

Other activity: Nuclear research

## **Section II: Object**

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### **II.1. Scope of the procurement**

#### **II.1.1. Title**

Pre-commercial Procurement (PCP) to Buy R&D (Research and Development) Services for Archiving and Preservation for Research Environments

Reference number: IT-4531/IT/PCP

#### **II.1.2. Main CPV code**

73100000 Research and experimental development services

#### **II.1.3. Type of contract**

Services

#### **II.1.4. Short description**

This contract notice invites interested operators to submit tenders to a procurement.

The procurement aims to trigger new solutions to be developed and tested to address the challenge of long-term, cloud-based preservation and archiving for scientific data in the petabyte volume range under F.A.I.R. principles following the OAIS reference model and related standards, while ensuring that research groups retain stewardship of their data sets.

The innovative resulting services are expected to be integrated to the European Open Science Cloud (EOSC) service catalogue.

The project will use the PCP instrument to competitively procure R&D services from several providers.

This PCP procurement is a joint procurement by different procurers across Europe that are all facing the same common challenge and are thus looking for similar solutions (so-called 'buyers group').

#### **II.1.5. Estimated total value**

Value excluding VAT: 3 400 000,00 EUR

#### **II.1.6. Information about lots**

This contract is divided into lots: no

### **II.2. Description**

#### **II.2.2. Additional CPV code(s)**

48610000 Database systems, 72317000 Data storage services, 72222300 Information technology services

#### **II.2.3. Place of performance**

NUTS code: 00 Other or Not Specified

#### **II.2.4. Description of the procurement**

The procurement will take the form of a pre-commercial procurement (PCP) under which R&D service contracts will be awarded to a number of R&D providers in parallel in a phased approach. This will make it possible to compare competing alternative solutions.

Each selected operator will be awarded a framework agreement that covers 3 R&D phases.

The 3 phases are:

- R&D up to solution design,
- R&D up to a prototype,
- R&D up to original development, validation and testing of a limited set of first products or services.

After each phase, intermediate evaluations will be carried out to progressively select the best of the competing solutions. The contractors with the best-value-for-money solutions will be offered a specific contract for the next phase.

The innovative end-to-end archival and preservation services to be delivered in Archiver will tackle the following technical challenges:

- enabling effective petabyte range data management in a hybrid model, combining the procurers on-premise infrastructure with commercial cloud services,
- optimizing data access and ingestion at very high rates (1-10 Gbps/day) for use cases in multiple scientific domains,
- enabling efficient data content distribution anticipating access profiles evolution as cloud access becomes popular and scientific data volumes grow,
- providing high-end network connectivity through GÉANT network and Federated AAI for authentication and access control,
- adopting an approach based on standard practices, compliant with the OAIS reference model and the relevant series of standards (ISO 14721),
- exploring a cost effective business model taking into account data access patterns and archive longevity.

The selected operators will retain ownership of the intellectual property rights (IPRs) that they generate during the PCP and will be able to use them to exploit the full market potential of the developed solutions i.e. beyond the procurers.

Tenders shall be submitted via the lead Procurer's e-tendering platform, <https://cds.cern.ch/>. The precise URLs for submitting tenders and instructions for using the platform are communicated by email to Tenderers that access the Request for Tender documents on the project website (<https://www.archiver-project.eu/>) and indicate that they will submit a tender.

#### **II.2.5. Award criteria**

Price is not the only award criterion and all criteria are stated only in the procurement documents

#### **II.2.6. Estimated value**

#### **II.2.7. Duration of the contract, framework agreement or dynamic purchasing system**

Start: 11/05/2020 End: 31/12/2021

This contract is subject to renewal: no

#### **II.2.10. Information about variants**

Variants will be accepted: no

#### **II.2.11. Information about options**

Options: yes

Description of options:

Given the operational requirements of deploying the pilot for testing activities with user datasets in the petabyte range, the buyers group reserves the right to purchase the pilot services at a similar scale for use beyond the end of the pilot phase for a period of up to 3 years.

#### **II.2.13. Information about European Union funds**

The procurement is related to a project and/or programme financed by European Union funds: yes

Identification of the project: This procurement receives funding from the European Union's Horizon 2020 Research and Innovation Programme, under grant agreement No 824516.

#### **II.2.14. Additional information**

Participation in the open market consultation that was held as part of the preparation for this procurement is not a prerequisite for submitting a tender.

This procurement is exempted from the WTO Government Procurement Agreement (GPA), the EU public procurement directives and the national laws that implement them. This contract notice shall be understood as a waiver of this exemption.

### **Section III: Legal, economic, financial and technical information**

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#### **III.1. Conditions for participation**

##### **III.1.1. Suitability to pursue the professional activity, including requirements relating to enrolment on professional or trade registers**

List and brief description of conditions:

The tenderer shall be able to demonstrate proven competence and experience in:

- the performance of R&D services,
- the domain of cloud computing,
- the domain of data archiving and preservation.

Additional criteria are stated in the procurement documents.

##### **III.1.2.**

## **Economic and financial standing**

Selection criteria as stated in the procurement documents

### **III.1.3. Technical and professional ability**

Selection criteria as stated in the procurement documents

## **III.2. Conditions related to the contract**

### **III.2.3. Information about staff responsible for the performance of the contract**

Obligation to indicate the names and professional qualifications of the staff assigned to performing the contract

## **Section IV: Procedure**

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### **IV.1. Description**

#### **IV.1.1. Type of procedure**

Open procedure

#### **IV.1.3. Information about a framework agreement or a dynamic purchasing system**

The procurement involves the establishment of a framework agreement

Framework agreement with several operators In the case of framework agreements, provide justification for any duration exceeding 4 years:

This procurement is exempted from the EU public procurement directives and the national laws that implement them i.e. it is not an open and negotiated procedure subject to the EU public procurement directives. The choice here must be made for formal reasons only, because it is mandatory for filling out the form). The expected minimum number of framework agreements is 4 in phase 1 (design phase).

#### **IV.1.8. Information about the Government Procurement Agreement (GPA)**

The procurement is covered by the Government Procurement Agreement: no

### **IV.2. Administrative information**

#### **IV.2.1. Previous publication concerning this procedure**

Notice number in the OJ S: [2019/S 038-087071](#)

#### **IV.2.2. Time limit for receipt of tenders or requests to participate**

Date: 31/03/2020 Local time: 16:00

#### **IV.2.3. Estimated date of dispatch of invitations to tender or to participate to selected candidates**

#### **IV.2.4. Languages in which tenders or requests to participate may be submitted**

English

#### **IV.2.6. Minimum time frame during which the tenderer must maintain the tender**

Duration in months: 6 (from the date stated for receipt of tender)

#### **IV.2.7. Conditions for opening of tenders**

Date: 01/04/2020 Local time: 10:00

Place:

The opening of the tenders will take place at CERN in Geneva.

The opening will proceed in three stages as described in the tender documents.

Information about authorised persons and opening procedure: The evaluation committee and procedure are described in the tender documents. Only authorised members of the Archiver Buyers Group will be involved in the tender opening and evaluation process.

## Section VI: Complementary information

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### VI.1. Information about recurrence

This is a recurrent procurement: no

### VI.3. Additional information

This procurement is exempted from the WTO Government Procurement Agreement (GPA), the EU public procurement directives (including the EU procurement remedies directives 89/665/EEC and 92/13/EEC) and the national laws that implement them. This is because it concerns the procurement of R&D services where the benefits do not accrue exclusively to the contracting authority for its use in the conduct of its own affairs.

Publication of this contract notice in the EU Official Journal is not to be understood as a waiver of this exemption. Publication is made on a voluntary basis and the procurement will not follow the procedures under the EU public procurement directives, but rather the procedure described in the tender documentation.

The procedure indicated in this contract notice was chosen for formal reasons only. This is because it is not possible to publish a contract notice without selecting one of the listed procedures.

Offers shall be submitted in English only. All communication (before, during and after the procurement) shall be made in English only.

Further information:

- the project website [www.archiver-project.eu](http://www.archiver-project.eu)
- the open market consultation materials: <https://www.archiver-project.eu/archiver-open-market-consultation-roadmap>
- Q&A from the open market consultation: <https://www.archiver-project.eu/faq>
- PCPs on the Europa website: <https://ec.europa.eu/digital-single-market/innovation-procurement>

Contact: [joshua.luke.davison@cern.ch](mailto:joshua.luke.davison@cern.ch)

### VI.4. Procedures for review

#### VI.4.1. Review body

Official name: The procurement is exempted from the EU public procurement directives (including the EU procurement remedies directives 89/665/EEC and 92/13/EEC — see above) and the national laws that implement them.

Town: N/a

Country: Switzerland

#### VI.4.2. Body responsible for mediation procedures

Official name: Any dispute arising from this tender that cannot be settled amicably shall be submitted to arbitration, in accordance with CERN's status as an intergovernmental organisation. The procedure specified in clause 22 of the Framework Agreement shall apply mutatis mutandis.

Town: Geneva

Country: Switzerland

#### VI.4.3. Review procedure

Precise information on deadline(s) for review procedures:

The procurement is exempted from the EU public procurement directives (including the EU procurement remedies directives 89/665/EEC and 92/13/EEC — see above) and the national laws that implement them.

Publication of this notice in the Official Journal is not to be understood as a waiver of this exemption by the lead procurer.

The deadlines for the review procedures at the bodies for review and mediation shall be as described in Section 22 of the framework agreement which forms part of the tender documents.

**VI.4.4. Service from which information about the review procedure may be obtained**

Official name: European Organization for Nuclear Research (CERN)

Postal address: Geneva 23

Town: Geneva

Postal code: 1211

Country: Switzerland

E-mail: [joshua.luke.davison@cern.ch](mailto:joshua.luke.davison@cern.ch)

Telephone: +41 227664458

Internet address: [www.cern.ch](http://www.cern.ch)

**VI.5. Date of dispatch of this notice**

29/01/2020