

Finland-Helsinki: Computer equipment and supplies
OJ S 203/2021 19/10/2021
Contract notice
Supplies

Legal Basis:

Directive 2014/24/EU

Section I: Contracting authority

I.1. Name and addresses

Official name: Ilmatieteen laitos

National registration number: 0244664-7

Postal address: Erik Palménin aukio 1

Town: Helsinki

NUTS code: FI1B1 Helsinki-Uusimaa

Postal code: 00560

Country: Finland

Contact person: Antti Karisalo

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Telephone: +358 295391000

Internet address(es):

Main address: <https://www.ilmatieteenlaitos.fi>

I.3. Communication

The procurement documents are available for unrestricted and full direct access, free of charge, at: <https://hanki.tarjouspalvelu.fi/hanki?id=362285&tpk=0821000c-bfe4-40ea-898c-a3d079e7dba9>

Additional information can be obtained from the abovementioned address

Tenders or requests to participate must be submitted electronically via: <https://hanki.tarjouspalvelu.fi/hanki?id=362285&tpk=0821000c-bfe4-40ea-898c-a3d079e7dba9>

I.4. Type of the contracting authority

National or federal agency/office

I.5. Main activity

Environment

Section II: Object

II.1. Scope of the procurement

II.1.1. Title

High performance computing solution for operational numerical modeling

Reference number: Dnro 9/230/2021

II.1.2. Main CPV code

30200000 Computer equipment and supplies

II.1.3. Type of contract

Supplies

II.1.4. Short description

High performance computing solution for operational numerical modeling. The Finnish Meteorological Institute (FMI) is carrying out this procurement to replace its existing systems used in operational numerical weather prediction, ocean circulation modeling, wind wave prediction and atmospheric composition modeling.

The procurement will be for a turnkey HPC solution that includes all components and services that are required to build, deliver, install and operate HPC systems providing 24/7/365 services. The HPC consists of two separate systems installed in two separate computer rooms with no shared components, including but not limited to computing, interconnect, system and user software components, high performance storage, power supply, cooling and services. The contracting authority FMI (hereinafter "contracting authority" or "FMI") requests that candidates send a request to participate in the negotiated procedure in accordance with this notice, appendices and instructions published.

II.1.5. Estimated total value

II.1.6. Information about lots

This contract is divided into lots: no

II.2. Description

II.2.3. Place of performance

NUTS code: FI1B Helsinki-Uusimaa

II.2.4. Description of the procurement

The high performance computing (HPC) solution has a critical role for FMI operations. Therefore, the emphasis is put on the experience of the vendor in delivering similar solutions and the maturity of the solution making it suitable for reliable operations. This is in contrast with many research oriented HPC procurements where emphasis is put on the novelty of the solution and peak performance.

Current HPC solution consists of two Cray systems in a fully redundant configuration with no shared components in two separate computer rooms. The main workload and the computationally most demanding workload is Harmonie-Arome NWP model which is run in collaboration with MetCoOp partners Sweden and Norway, every hour for nowcasting and every hour also for ensemble prediction 24/7/365. Other important 24/7 workloads include SILAM atmospheric composition model, NEMO ocean circulation model and WAM wind wave model. It should be noted that only Harmonie-Arome is representing the operational workload in the benchmarks.

The procurement is subject to the Act on Public Procurement and Concession Contracts (1397/2016). The procurement will be implemented through the negotiated procedure referred to in sections 34–35 of the Act on Public Procurement and Concession Contracts. The application of negotiated procedure is justified due to: the contract cannot be awarded without prior negotiations, because of specific circumstances related to its nature, complexity or legal and financial for, or because of the risks pertaining thereto.

The preliminary drafts of the following documents are appended to the Invitation to participate:

- preliminary invitation to tender (Appendix 1), and sub-appendices to it:
- description of the procurement (Appendix 1.2)
- pricing sheet Excel (Appendix 1.3)
- scoring visualization (Appendix 1.4)
- Readme, more information to benchmark (Appendix 1.5)
- preliminary draft of the contract (Appendix 1.6)

- draft Security Contract (Appendix 1.7)
- contact persons in the information security agreement (Appendix 1.7.1)
- guidelines on processing and storage of secret information (Appendix 1.7.2)
- invitation to negotiate (Appendix 1.8)

The views expressed by the contracting authority in the appendices listed above should only be considered preliminary and there will be changes to the contents of the documents during the procurement process.

The mandatory requirements concerning the procurement (the system and after sales service) are defined in:

- description of the procurement (Appendix 1.2)
- pricing sheet Excel (Appendix 1.3)

The eligibility of tenderers is assessed in this procurement using the ESPD standard form and other minimum requirements concerning tenderers in section: other terms of the call for tenders, parts marked with "A" and "B".

The entity to be procured may be specified during the negotiations.

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

Value excluding VAT: 5 300 000,00 EUR

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

Duration in months: 60

This contract is subject to renewal: yes

Description of renewals:

The equipment to be acquired is a one-time purchase. The estimated operational after-sales service period for the HPC system is 5 years. The contracting authority reserves the right to two (2) separate option periods of one (1) year each.

II.2.10. Information about variants

Variants will be accepted: no

II.2.11. Information about options

Options: yes

Description of options:

Defined in pricing sheet (Appendix 1.3).

II.2.13. Information about European Union funds

The procurement is related to a project and/or programme financed by European Union funds:
no

II.2.14. Additional information

Section IV: Procedure

IV.1. Description

IV.1.1. Type of procedure

Competitive procedure with negotiation

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

IV.1.5. Information about negotiation

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

The procurement is covered by the Government Procurement Agreement: yes

IV.2. Administrative information

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

Date: 16/11/2021 Local time: 12:00

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

Section VI: Complementary information

VI.1. Information about recurrence

This is a recurrent procurement: no

VI.2. Information about electronic workflows

Electronic ordering will be used

Electronic invoicing will be accepted

Electronic payment will be used

VI.3. Additional information

VI.4. Procedures for review

VI.4.1. Review body

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VI.5. Date of dispatch of this notice

14/10/2021