

Norway-Lysaker: Super computer
OJ S 204/2018 23/10/2018
Contract notice
Supplies

Legal Basis:

Directive 2014/24/EU

Section I: Contracting authority

I.1. Name and addresses

Official name: Simula Research Laboratory AS

National registration number: 984648855

Postal address: P.O. Box 134

Town: Lysaker

NUTS code: NO Norge

Postal code: 1325

Country: Norway

Contact person: Tore H. Larsen

E-mail: torel@simula.no

Telephone: +47 67828200

Fax: +47 67828201

Internet address(es):

Main address: <https://permalink.mercell.com/91001251.aspx>

Address of the buyer profile: <https://www.simula.no/about-simula-research-laboratory>

I.3. Communication

The procurement documents are available for unrestricted and full direct access, free of charge, at: <https://permalink.mercell.com/91001251.aspx>

Additional information can be obtained from the abovementioned address

Tenders or requests to participate must be submitted electronically via: <https://permalink.mercell.com/91001251.aspx>

Electronic communication requires the use of tools and devices that are not generally available. Unrestricted and full direct access to these tools and devices is possible, free of charge, at: <https://permalink.mercell.com/91001251.aspx>

I.4. Type of the contracting authority

Other type: Non-profit teaching, research and development organisation, organised as a limited company

I.5. Main activity

Other activity: Teaching, research and development

Section II: Object

II.1. Scope of the procurement

II.1.1. Title

Phase 1, an expandable heterogenous supercomputing system for the eX3-project.

II.1.2. Main CPV code

30211100 Super computer

II.1.3. Type of contract

Supplies

II.1.4. Short description

The eX3 project is a research project to evaluate future exascale technologies which will run over five years, with a probability of extensions and expansions. The project's aim is to explore emerging technologies and software systems in an exascale setting. In addition to the host institution, Simula Research Laboratory, the project consortium consists of the operational organisation for national supercomputing resources Uninett Sigma2, research groups at NTNU, the University of Tromsø and the University of Bergen, as well as the supercomputing suppliers Dolphin Interconnect Solutions, Numascale, Skala Technologies and Fabriscale Technologies. Simula will build and offer those mentioned above educational and research institutions and industrial partners the latest technologies that are essential for exascale and which we will request for future supercomputer procurements for the national computational centers.

II.1.5. Estimated total value

II.1.6. Information about lots

This contract is divided into lots: no

II.2. Description

II.2.2. Additional CPV code(s)

30200000 Computer equipment and supplies, 30210000 Data-processing machines (hardware), 30211000 Mainframe computer, 30211300 Computer platforms, 30211500 Central processing unit (CPU) or processors, 30233100 Computer storage units, 30237000 Parts, accessories and supplies for computers, 32400000 Networks, 32413000 Integrated network, 32420000 Network equipment, 32580000 Data equipment, 32581000 Data-communications equipment, 48000000 Software package and information systems, 48100000 Industry specific software package, 48461000 Analytical or scientific software package, 48820000 Servers, 48822000 Computer servers, 50312000 Maintenance and repair of computer equipment, 50312100 Maintenance and repair of mainframe computers

II.2.3. Place of performance

NUTS code: NO012 Akershus

Main site or place of performance: Martin Linges Vei 25, 1364 Fornebu

II.2.4. Description of the procurement

The initial phase of the project starts with the procurement of a very heterogeneous Linux based supercomputing cluster, with the latest general processing elements, with dedicated processing elements for machine learning and artificial intelligence, as well as the latest Infiniband high-performance computing (HPC) network and globally shared file systems. The requested elements are:

- 2 redundant administrative nodes,
- Login node with Grid GPGPU,
- the latest HDR 200Gbps Infiniband based HPC network topology,
- 10Gbps network for the offered nodes for administration, imaging/provisioning, failover for global file systems, etc.,
- 1PB net enterprise level storage system, with an option for expansions,

- metadata servers for the global file systems,
- a scale-out global shared file system for artificial intelligence/machine intelligence machine learning,
- licences for modern 'state-of-the-art' cluster file systems,
- up to 16 nodes with general processors with different instruction set (ISAs),
- a GPGPU OpenCompute(OCP) based HGX-2 system for machine learning/artificial intelligence/deep neural network,
- an OCP OpenPower GPGPU system for machine learning/artificial intelligence,
- building blocks for scale-out global shared file system,
- a modern Cluster Manager for supercomputing clusters (30 nodes, expandable),
- various software development toolkits for the offered architectures.

II.2.5. Award criteria

Criteria below

Quality criterion - Name: Quality (Requirements such as specifications, heterogeneity, solution, vendor confidence, etc.) / Weighting: 50

Price - Weighting: 50

II.2.6. Estimated value

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

Start: 20/11/2018 End: 31/12/2018

This contract is subject to renewal: yes

Description of renewals:

Description of the options:

- essential equipment such as administrative nodes, storage subsystems, storage, and system software should have options for year five support pricing,
- expansion of the system with different types of server nodes integrated with a high-performance network and other infrastructure from the initial configuration.

II.2.10. Information about variants

Variants will be accepted: yes

II.2.11. Information about options

Options: yes

Description of options:

As specified in the supplement to SSA-K Annex 1 The Contracting Authority's Requirement Specifications.

II.2.12. Information about electronic catalogues

Tenders must be presented in the form of electronic catalogues or include an electronic catalogue

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 III: Legal, economic, financial and technical information

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:

See DIFI SSA-K 2015 English appendix 1 and the appendices in the tender documentation.

<https://www.anskaffelser.no/public-procurement-information-english>

https://www.anskaffelser.no/sites/anskaffelser/files/ssa-k_2015_eng.docx

https://www.anskaffelser.no/sites/anskaffelser/files/ssa-k_appendices_2015_eng.docx

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

Section IV: Procedure

IV.1. Description

IV.1.1. Type of procedure

Open procedure

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

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

Date: 19/11/2018 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, Norwegian

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

Tender must be valid until: 31/12/2018

IV.2.7. Conditions for opening of tenders

Date: 19/11/2018 Local time: 13:00

Place:

Simula Research Laboratory AS, Martin Linges vei 25, 1364 Fornebu

Information about authorised persons and opening procedure: EX3 committee members.

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

Official name: KOFA - Klagenemndssekretariatet

Postal address: Postboks 511 Sentrum

Town: Bergen

Postal code: 5805

Country: Norway

E-mail: post@knse.no

Telephone: +47 55193000

Internet address: <https://kofa.no/Kontakt>

VI.5. Date of dispatch of this notice

18/10/2018