

Denmark-Copenhagen: Super computer

OJ S 240/2014 12/12/2014

Contract notice

Supplies

Directive 2004/18/EC

Section I: Contracting authority

I.1. Name and addresses

Official name: Danish Meteorological Institute

Postal address: Lyngbyvej 100

Town: Copenhagen E

Postal code: DK-2100

Country: Denmark

For the attention of: Jens Havskov Sørensen

E-mail: hpcproject@dmi.dk

Telephone: +45 39157500

Fax: +45 39271080

Internet address(es):

General address of the contracting authority: www.dmi.dk

Additional information can be obtained from:

the abovementioned address

Specifications and additional documents (including documents for competitive dialogue and a dynamic purchasing system) can be obtained from:

the abovementioned address

Tenders or requests to participate must be submitted: the abovementioned address

I.2. Type of the contracting authority

National or federal agency/office

I.3. Main activity

General public services

Environment

I.4. Contract award on behalf of other contracting authorities

The contracting authority is purchasing on behalf of other contracting authorities: no

Section II: Object of the contract

II.1. Description

II.1.1. Title attributed to the contract by the contracting authority

High performance computing facility for forecasting weather, ocean and climate.

II.1.2. Type of contract and place of performance or delivery

Supplies

Purchase

NUTS code IS00 Island

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

II.1.4. Information about framework agreement

II.1.5. Short description of the contract or purchase(s)

The Danish Meteorological Institute (DMI) provides meteorological and related services for the community within the large geographical area of the Kingdom of Denmark, meaning Denmark, the Faroe Islands, and Greenland, including their surrounding waters and airspace. The area of activity of DMI comprises forecasting and warning services for emergency preparedness as well as continuous monitoring of weather, sea state, climate, and related environmental conditions in the atmosphere, over land and in the sea.

DMI intends to procure a new High Performance Computing (HPC) facility. The scope of the supply is to replace the current system in order to enhance the capability of DMI to produce high quality numerical weather predictions (NWP) within specified limited time intervals with a high level of reliability. With the intention to carry out NWP at higher spatial resolution, thereby improving forecast of extreme weather events such as rainstorms, DMI is presently undergoing a transition from the hydrostatic Hirlam model to the non hydrostatic Harmonie model, which will be the main NWP model operated on the new HPC facility. The new system will also be used to provide DMI with increased capability of ocean and climate modelling. DMI aims at a delivery process where the performance profile of the HPC best comply with the DMI requirement profile and projected model evolution. This will be further detailed in the tender documents.

The new HPC facility will replace the present pair of Cray XT-5 systems along with its shared Lustre storage subsystem. The present system, which was installed in 2008 and which had its 4-core processors upgraded to 6-core processors in 2011, has an aggregated peak performance of 60 TF across 512 compute nodes, each with 12 AMD Opteron compute cores and 16 GB memory. In addition to the compute nodes each Cray XT-5 system has eight front-end login nodes meant for interactive development and file manipulation work. The shared Lustre storage subsystem is worth 110 TB of usable storage.

In line with projected model evolution shall the new HPC facility have sufficient processing power to run the DMI NWP model systems with a significant improvement in calculations and disk throughput compared to the present HPC facility in the same timeslot. This will most likely require a system with more high speed compute cores than the present HPC facility alongside with sufficient memory (+ bandwidth) and disk (+ bandwidth) in order to make the new HPC facility balanced and without bottlenecks. The procurement will additionally include system software, inclusive of an appropriate programming environment, along with installation and documentation plus software and hardware support for at least five years. These specifications will be further detailed in the tender documents.

DMI and the Icelandic Meteorological Office (IMO) have entered into a partnership agreement, under which closer collaboration is planned. As part of this partnership, the procured HPC shall be installed in Iceland under daily physical supervision of IMO. A detailed description of the installation premises in Iceland along with a date for a possible site inspection will be part of the tender documents.

The procurement, including options selected at the time of contract signature, shall be kept within a financial limit as stated in II.2.1.

II.1.6. CPV code(s)

30211100 Super computer

II.1.7. Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: yes

II.1.8. Lots

This contract is divided into lots: no

II.1.9. Information about variants

Variants will be accepted: no

II.2. Scope of the procurement

II.2.1. Total quantity or scope

Estimated value excluding VAT:

Range: between 5 000 000 and 6 000 000 EUR

II.2.2. Information about options

Options: yes

Description of options: 1. Additional application support;

2. Maintenance services;

3. Additional compute power.

II.2.3. Information about renewals

This contract is subject to renewal: yes

II.3. Duration of the contract or time limit for completion

Duration in months: 30 (from the award of the contract)

Section III: Legal, economic, financial and technical information

III.1. Conditions related to the contract

III.1.1. Deposits and guarantees required

Terms and conditions will be stated in the tender documents.

III.1.2. Main financing conditions and payment arrangements and/or reference to the relevant provisions governing them

Terms and conditions will be stated in the tender documents.

III.1.3. Legal form to be taken by the group of economic operators to whom the contract is to be awarded

If a group of economic operators is awarded the contract, the participants are required to undertake joint and several liability and to authorise one economic operator as the single representative for the group.

III.1.4. Contract performance conditions

The performance of the contract is subject to particular conditions: no

III.2. Conditions for participation

III.2.1. Suitability to pursue the professional activity, including requirements relating to enrolment on professional or trade registers

List and brief description of conditions: — A solemn declaration stating whether the candidate has fulfilled its obligations relating to the payment of social security contributions in accordance with the legal provisions in the country in which the candidate is established and in Denmark,

— A solemn declaration stating whether the candidate has fulfilled its obligations relating to the payment of direct and indirect taxes in accordance with the legal provisions in the country in which the candidate is established and in Denmark.

III.2.2. Economic and financial ability

List and brief description of conditions: — Appropriate statements from banks or, where appropriate, evidence of relevant professional risk indemnity insurance,
— The presentation of balance-sheets or extracts from the balance-sheets, where publication of the balance-sheet is required under the law of the country in which the economic operator is established,
— A statement of the undertaking's financial key figures, including overall turnover and, where appropriate, of turnover in the area covered by the contract, all for a maximum of the last 3 financial years available, depending on the date on which the undertaking was set up or the economic operator started trading, as far as the information on these turnovers is available.
Minimum level(s) of standards possibly required: Positive equity in the recent financial year.

III.2.3. Technical and professional ability

List and brief description of conditions:

A list of the principal deliveries similar to the deliveries described in section II. 1.5) effected in the past 3 years.

The list should comprise the following items:

- The name of the recipient, including contact information to the customer, who may be contacted by DMI,
- Information about the candidate being main or subcontractor,
- The contract sum, if applicable, in EUR for the part delivered by the candidate,
- Information about time for the deliveries.

Furthermore, detailed descriptions of up to five deliveries in the list should be stated, including information about;

- The equipment and services delivered,
- The organisation of the delivery process, including description of the activities carried out by the customer's staff and the candidate's staff.

III.2.4. Information about reserved contracts

III.3. Conditions specific to services contracts

III.3.1. Information about a particular profession

III.3.2. Information about staff responsible for the performance of the contract

Section IV: Procedure

IV.1. Type of procedure

IV.1.1. Type of procedure

Restricted

IV.1.2. Information about the limits on the number of candidates to be invited

Envisaged number of candidates: 5

Objective criteria for choosing the limited number of candidates: DMI will select operators who DMI assesses to document the most relevant deliveries similar to the deliveries described in section II. 1.5), based on the information given regarding to section III.2.3).

IV.1.3. Information about reduction of the number of solutions or tenders during negotiation or dialogue

IV.2. Award criteria

IV.2.1. Award criteria

The most economically advantageous tender in terms of Price is not the only award criterion and all criteria are stated only in the procurement documents

IV.2.2. Information about electronic auction

An electronic auction will be used: no

IV.3. Administrative information

IV.3.1. File reference number attributed by the contracting authority

2014-337

IV.3.2. Previous publication concerning this procedure

no

IV.3.3. Conditions for obtaining specifications and additional documents or descriptive document

Payable documents: no

IV.3.4. Time limit for receipt of tenders or requests to participate

15.1.2015 - 15:00

IV.3.5. Estimated date of dispatch of invitations to tender or to participate to selected candidates

IV.3.6. Languages in which tenders or requests to participate may be submitted

English.

IV.3.7. Minimum time frame during which the tenderer must maintain the tender

IV.3.8. Conditions for opening of tenders

Section VI: Complementary information

VI.1. Information about recurrence

This is a recurrent procurement: no

VI.2. Information about European Union funds

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

VI.3. Additional information

Regarding Section I.1): Request to participate should be prepared in 4 hard copies and one soft copy on an appropriate storage media, e.g. USB storage. The request to participate shall be delivered or mailed in a sealed box or envelope, marked: To be opened by the HPC project group only.

Regarding Section I.1) and IV.3.3): There are no specifications or other descriptive documents that applicants may request from the contracting authority before submission of the request to participate.

Regarding Section II.2.1): The stated amount is an estimate, exclusive of costs for power consumption.

Regarding Section II.3): The stated duration of the contract expresses the period of time, which ends with the final configuration. In continuation hereof, maintenance and service agreements are planned to be in force.

Regarding Section III.2): If an application is submitted from a group of candidates, each candidate must submit the herein requested information.

Regarding Section III.2.2 and III.2.3): If a candidate is dependent on resources from other entities (e.g. subcontractors or other companies), the candidate must clarify that the candidate has full control over the required resources by submitting a declaration or by providing documentation from the other entities confirming that they will make the required resources available for the fulfilment of the candidates contractual obligations.

Regarding Section IV.3.5): DMI intends to submit tender documents to the pre-qualified candidates in the first half of February.

Furthermore, the tenderer shall maintain the tender for 8 months.

VI.4. Procedures for review

VI.4.1. Review body

Official name: Complaints Board for Public Procurement

Postal address: Dahlerups Pakhus, Langelinie Allé 17

Town: Copenhagen E

Postal code: DK-2100

Country: Denmark

E-mail: klfu@erst.dk

Telephone: +45 35291000

Internet address: <http://www.klfu.dk>

VI.4.2. Review procedure

Precise information on deadline(s) for review procedures: Complaints from not pre-qualified applicants regarding the decision concerning pre-qualification must be filed to the Complaints Board for Public Procurement within 20 days from the day after the contracting authority has send the result regarding the pre-qualification decision to all relevant candidates.

Complaints regarding other part of the procurement process within the scope of directive 2004 /18 EC, but not covered by the above shall be filed to the Complaints Board for Public Procurement within 45 days from the day after the contracting authority has made a contract award notice public in the Official Journal of the European Union.

The complainant shall inform the contracting authority about the complaint at the latest when the complaint is filed with the Complaints Board for Public Procurement.

In case the complaint concerns a decision regarding award of a contract the complainant shall inform the contracting authority whether the complaint is filed within the stand still period. If the complaint is not filed within the stand still period the complainant shall inform the contracting authority whether a suspension of the contract has been requested.

VI.4.3. Service from which information about the review procedure may be obtained

Official name: Danish Competition and Consumer Authority

Postal address: Carl Jacobsens Vej 35

Town: Valby

Postal code: DK-2500

Country: Denmark

E-mail: kfst@kfst.dk

Telephone: +45 41715000

Internet address: <http://www.kfst.dk>

VI.5. Date of dispatch of this notice

9.12.2014