

Denmark-Copenhagen: Super computer
OJ S 159/2015 19/08/2015
Contract award 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
Postal code: 2100
Country: Denmark
Contact person: Danish Meteorological Institute
For the attention of: Line Trøst Pedersen
E-mail: hpcproject@dmi.dk
Telephone: +45 39157500
Fax: +45 39271080
Internet address(es):
General address of the contracting authority: <http://www.dmi.dk>

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

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

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

Supplies
Purchase
NUTS code IS00 Ísland

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

II.1.4. 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 areas of activities of DMI comprise forecasting and warning services for emergency preparedness as

well as continuous monitoring of weather, sea state, climate and related environmental conditions in the atmosphere and in the sea.

DMI intends to procure a new High Performance Computing (HPC) facility. The scope of the supply is to replace DMI's current system in order to enhance the capability of DMI to produce high quality numerical weather predictions (NWP) within specified time intervals with a high level of reliability. The intention is 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.

The present HPC facility consists of a 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 100 TB of usable storage.

The procurement of a new HPC facility includes:

a) An HPC facility with an upgrade to enhanced processor technologies (expected 2017) to be included.

b) Maintenance and support service.

c) Consultancy service consisting of application and system support for the HPC facility (preferably experience with HPC facilities at National Meteorological Services)

d) Delivery and installation of Hardware and Software at the Icelandic Meteorological Office (IMO) in Iceland. DMI and IMO have a partnership agreement, under which closer collaboration is planned. As part of this partnership DMI will place the procured HPC facility at IMO premises at Bústaðavegur 7-9, 150 Reykjavík, IS Iceland, under daily physical supervision of IMO. Dates for vendors to inspect IMO premises at Bústaðavegur 7-9, 150 Reykjavík, IS Iceland, are Monday 2015-03-23 with a general site tour for all selected bidders followed by individual follow up meetings with same bidders during Tuesday 24.3.2015.

The Contract includes a delivery and implementation period of approximately 5-7 months where the new HPC facility will be delivered and installed at IMO in Iceland. The expected 'Site Acceptance Test' (SAT) and Acceptance of the HPC facility is end 2015 / start 2016. The procurement, including options, shall be kept within a financial limit as stated in II.2.1.

II.1.5. CPV code(s)

30211100 Super computer

II.1.6. Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: yes

II.2. Total value of the contract/lot

II.2.1. Total value of the contract/lot

Value: 6 628 000 EUR
excluding VAT

Section IV: Procedure

IV.1. Type of procedure

IV.1.1. Type of procedure

Restricted

IV.2. Award criteria

IV.2.1. Award criteria

The most economically advantageous tender in terms of

1. Quality. Weighting 85
2. Price. Weighting 15

IV.2.2. Information about electronic auction

An electronic auction has been 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

Contract notice

Notice number in the OJ S: [2015/S 28-046786](#) of 10.2.2015

Other previous publications

Notice number in the OJ S: [2015/S 24-039308](#) of 4.2.2015

Notice number in the OJ S: [2014/S 240-421912](#) of 12.12.2014

Section V: Award of contract

V.1. Date of conclusion of the contract

16.7.2015

V.2. Information about tenders

Number of tenders received: 3

V.3. Name and address of the contractor

Official name: Cray Inc.

Postal address: 901 Fifth Avenue, Suite 1000

Town: Seattle

Postal code: WA 98164

Country: United States

Telephone: +39 2067012000

Fax: +39 2067012500

Internet address: www.cray.com

V.4. Information on value of the contract/lot

Total value of the procurement:

Value: 6 628 000 EUR

excluding VAT

V.5. Information about subcontracting

The contract is likely to be subcontracted: no

Section VI: Complementary information

VI.1. Information about European Union funds

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

VI.2. Additional information

Regarding Section I.1): Request to participate should be prepared on 2 digital storage media, e.g. 2 USB storages, together with 2 hard copies delivered or mailed in a sealed box or envelope, marked 'To be opened by the HPC project group only.' In case of discrepancy between the original hard copy and the electronic copy, the electronic copy will apply. If the hard copy contains documents or information not included in the original electronic copy this information will be disregarded.

Request to participate cannot be submitted on e-mail.

Regarding Section I.1): There are no specifications or other 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 covering the procured system as set forth in II.1.5) plus options.

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.1.2): The applicant must only submit one request to participate in this tender as main contractor or sub-contractor.

Regarding Section IV.3.2): Please note this is a re-submitted Contract notice. When comparing to the previous Contract notice several changes has occurred.

The tenderer shall maintain the tender for 8 months.

All times in this Contract notice are given in CET.

VI.3. Procedures for review

VI.3.1. Review body

Official name: Complaints Board for Public Procurement

Postal address: Dahlerups Pakhus, Langelinie Allé 17

Town: Copenhagen

Postal code: 2100

Country: Denmark

E-mail: klfu@erst.dk

Telephone: +45 35291000

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

VI.3.2. 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 procurements 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 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 complaint 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 complaints shall inform the contracting authority whether a suspension of the contract has been requested.

VI.3.3. Service from which information about the review procedure may be obtained

Official name: Danish Competition and Consumer

Postal address: Carl Jacobsens Vej 35

Town: Valby

Postal code: 2500

Country: Denmark

E-mail: kfst@kfst.dk

Telephone: +45 41715000

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

VI.4. Date of dispatch of this notice

17.8.2015