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**OPEN CALL FOR TENDER**  
**OCT-2017-111600001-002**

Accelerator tunnel cooling water and electrical systems - Design,  
installation and testing of distribution piping, cable trays and grounding  
system for accelerator tunnel

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**EUROPEAN SPALLATION SOURCE ERIC**



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## **1. INTRODUCTION**

### **1.1 Introduction to ESS**

The European Spallation Source (ESS) is one of the largest science infrastructure projects being built in Europe today. Designed to generate neutron beams for science, ESS will benefit a broad range of research, from life science to engineering materials, from heritage conservation to magnetism.

Organised as a European Research Infrastructure Consortium, or ERIC, with Member Countries throughout Europe, this next-generation research facility is being built through the collective global effort of hundreds of scientists and engineers. Together, they have developed and specified a technical design of the facility, including the Accelerator, the Target Station, and instrument concepts. This collaboration resulted in the 2013 delivery of the ESS Technical Design Report and Project Specification. The construction of ESS formally began with the Groundbreaking Ceremony on September 2, 2014.

The facility is being built in Lund, Sweden, next to the world-leading synchrotron light source, MAX IV, and with the Data Management & Software Centre (DMSC) located in nearby Copenhagen. It is anticipated that two to three thousand guest researchers from universities, institutes and industry will participate in the ESS user program each year, making use of the facility's broad range of neutron instruments to answer their scientific questions.

Scientists, engineers, project managers, and builders are well into the construction of the most powerful neutron source in the world. ESS will provide the tools for analysis that will enable the next important discoveries in nanotechnology, life science, pharmaceuticals, materials engineering, and experimental physics. It is understood that ESS, both through the research that will be performed there and the establishment of the facility itself, will serve as an economic driver for all of Europe.

ESS is expected to deliver its first neutrons by the end of the decade, with the user program to follow in 2023.

### **1.2 Introduction to this call for tender**

#### **1.2.1 Purpose of this call for tender**

ESS is requesting tenderers to submit tenders in order to conclude a supply agreement for design, installation and testing of distribution piping, cable trays and grounding system for accelerator tunnel.

The ESS accelerator consists of numerous systems and components such as the ion source, focusing and steering magnets, beam instrumentation, accelerating cavities, and cryomodels. All systems are important for the functionality and performance of ESS. Many components and systems require cooling water in order to maintain a stable operating temperature.

This tender concerns design, installation and testing of distribution piping, cable trays and grounding system for accelerator tunnel. The pipes will contain deionized water.

This call for tender document, together with the draft agreement, set the conditions and requirements relating to this open call for tender.

### 1.2.2 Information about the Contract

The Supply Agreement will be concluded with a single Supplier. Tenderers shall refer to the Annex 4, Draft Supply Agreement for the contractual aspects applying to this Supply Agreement.

### 1.2.3 Indicative procedure timetable

The indicative timetable for the procurement process presented below is intended as a guide and, whilst ESS does not intend to depart from the timetable, it reserves the right to do so at any time.

Estimated date	Activity
30/03/2017	Contract notice published in ESS website and tendering documents made available to the potential tenderers in the supplier portal: <a href="https://tender6.esss.lu.se/user/register">https://tender6.esss.lu.se/user/register</a>
27/04/2017, 12:00 CEST	Deadline for sending a request for clarification to ESS
02/05/2017, 12:00 CEST	Deadline for submission of tenders
02/05/2017	Opening of tenders
02/05/2017	Evaluation of the tenders starts
18/05/2017	Notification of the award and the evaluation results sent to the tenderers
18/05/2017	10 day standstill period
31/05/2017	Contract signature

## **2. INSTRUCTIONS ON HOW TO SUBMIT A TENDER**

### **2.1 Presentation and submission of the tender**

If you are interested in participating in this call for tenders, you are requested to submit your tender no later than

**2<sup>nd</sup> May 2017, 12:00PM CEST**

Your tender and all supporting documents must reach:

European Spallation Source ERIC  
Tunavägen 24, Building 205, Reception (opening hours: Monday-Friday 08.00-16.00)  
**Supply, Procurement and Logistics Division**  
**Attn.: Åsa Edman, Procurement Administrator**  
223 63 Lund  
SWEDEN

Email: asa.edman@esss.se

The tenders must be drafted **in English**. The tender must be enclosed in a sealed envelope. The envelope should clearly bear, in addition to the abovementioned address, the following information:

"Call for tender: Design, installation and testing of large bore piping OCT-2017-111600001-002"

"CONFIDENTIAL TO BE OPENED BY THE PROCUREMENT OPENING BOARD ONLY"

The outer envelope must contain:

- a) **Annex 1** (Tender identification form) of this call for tender
- b) **Envelope 1**: This envelope shall contain the documents described in section 6.2. of this call for tender, bearing on the outside the name of the tenderer and the following reference: "Administrative section"
- c) **Envelope 2**: This envelope shall contain the technical proposal and supporting documentation, bearing on the outside the name of the tenderer and the following reference: "Technical Proposal"
- d) **Envelope 3**: This envelope shall contain the financial proposal in compliance with section 6.4. of this call for tender, bearing on the outside the name of the tenderer and the following reference: "Financial proposal"

Each of the three envelopes must be sealed and contain one original and one electronic copy (in pdf-format in a USB stick) of the requested documentation and/or information.

Faxed or email responses will not be considered.

**Late delivery will lead to the exclusion from the evaluation and award procedure for this contract. Note: The arrival at the ESS reception is the relevant criteria. The ESS receptionist will note date and time of arrival on the outer envelope. The method of delivery and timely arrival falls within the tenderers' responsibility. Do not use registered mail, for tracking delivery ESS recommend the use of a courier service.**

**Non-compliance with the above formal requirements regarding the presentation of the tender may lead to the exclusion from the award procedure for this contract.**

## **2.2 Signature of the tender**

The signature of the authorised representative of the tenderer (single tenderer or lead partner in case of a joint tender) in Annex 1 will be considered as the signature of the tender, binding the tenderer to the terms included in the tender.

## **2.3 Validity of tenders**

The tenders must be valid for the period of one hundred eighty (180) days from the deadline for submission of offers as indicated above. The tenderer shall provide a statement confirming the period of validity of its tender in Annex 1.

## **2.4 Communication during the tendering process**

All communications concerning this call for tender, including requests for clarification, must be made in writing in the supplier portal <https://tender6.ess.lu.se/user/register>. Clarifications by ESS will be communicated, in a suitably anonymous form, to all tenderers registered in the supplier portal <https://tender6.ess.lu.se/user/register>.

No approach of any kind in connection with this open call for tender should be made to any person within, or associated with, ESS. Failure to adhere to this requirement may result in exclusion from the competition. Please note that ESS will not enter into a detailed discussion on the requested services at this stage.

The closing date for clarifications concerning this call for tender shall be 27/04/2017, 12:00 CEST.

## **3. DESCRIPTION OF THE SUPPLIES AND SERVICES**

The purpose of this call for tender is to establish a supply agreement/s for the acquisition of design, installation and testing of distribution piping, cable trays and grounding system for accelerator tunnel.

Detailed information regarding the requirements is provided in Annex 3, Statement of Work (SoW).

The tenderer shall confirm the compliance with the requirements relating to the Statement of Work (see Annex 3).

#### 4. JOINT TENDERS AND SUBCONTRACTING

A supplier may submit a tender as a single entity or collaborate with other suppliers to present a tender either by submitting a joint tender or through subcontracting. Tenders may also combine both approaches. The legal status and role of each legal entity shall be clearly described in the tender.

If the identity of the subcontractor is not known at the time of submitting the tender, the tenderer who is awarded the contract will have to demonstrate that the subcontractor(s) comply with the original tender and seek ESS's prior written authorisation before entering into a subcontract. The total value of the subcontracted part of the services/supplies cannot represent the total value of the contract value.

#### 5. ASSESSMENT OF TENDERS AND TENDERERS

The assessment of tenderers and tenders will be done in accordance with the following subsequent steps:

- (1) Verification that the **tenderer** is not in one of the situations covered by the exclusion criteria listed in Article 23 of European Spallation Source ERIC Procurement Rules<sup>1</sup>,
- (2) Verification that the **tenderer** has the appropriate capacities to perform the contract on the basis of the selection criteria (only for those tenderers that were not excluded on the basis of the exclusion criteria),
- (3) Assessment of the **tender** on the basis of the award criteria (only for those tenderers that have met the selection criteria)

As a precondition to the assessment of the tender, the tender must comply with the requirements set in this call for tender. In a case of non-compliance, the ground for rejection is not linked to the award criteria so there is no evaluation as such. The tenderer will be informed of the ground for rejection without being given feedback on the content of the tender other than on the non-compliant elements.

##### 5.1 Exclusion criteria

Tenderers shall provide a declaration of honour (see Annex 2), duly signed and dated, including a statement that they are not in any of the situations listed in Article 23 of European Spallation Source ERIC Procurement Rules. In case of a joint tender such

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<sup>1</sup> The European Spallation Source ERIC Procurement Rules are available at <https://europeanspallationsource.se/procurement-rules>



declaration shall be submitted for each partner. The declaration shall also be submitted for the subcontractors, when relevant.

In addition to the submission of the signed declaration, the tenderer undertakes to inform ESS, without delay, of any changes to his situation in this regard.

**Tenderers may be excluded from participation in the present procurement procedure if they are found to be in one of the situations for exclusion or fail to submit the abovementioned declaration.**

## 5.2 Selection criteria

Tenders will only be further evaluated if the tenderer meets all selection criteria as listed below.

### 5.2.1 Professional capacity

Criterion	Enrolment in one of the professional or trade registers in the country of establishment
Documentary evidence	Declaration or certificate of enrolment in one of the professional or trade registers in the country of establishment

### 5.2.2 Financial and economic standing

Criterion 1	Sufficient financial and economic standing to guarantee continuous and satisfactory performance throughout the envisaged lifetime of the contract
Documentary evidence	<p>A copy of the most recent audited accounts for the tenderer's organization that cover the last three years of trading or for the period that is available if trading for less than three years, including balance sheets and profit &amp; loss statements</p> <p>A statement of overall annual turnover of minimum 20 000 000 SEK for the last three financial years or an equivalent statement for such shorter period during which the operation has been conducted</p>

Criterion 2	Sufficient insurance coverage to guarantee continuous and satisfactory performance throughout the envisaged lifetime of the contract
Documentary evidence	<p>A certificate or copy of the certificate from the insurer(s), evidencing the insurance coverage according the following minimum limits:</p> <ul style="list-style-type: none"> <li>Commercial General Liability Insurance with a minimum combined single limit of one million (1.000.000) SEK per</li> </ul>



	<p>occurrence and five million (5.000.000) SEK for the insurance term.</p> <ul style="list-style-type: none"> <li>Professional Liability Insurance with a minimum combined single limit of one million (1.000.000) SEK per occurrence and five million (5.000.000) SEK for the insurance term.</li> </ul>
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### 5.2.3 Technical capacity

Criterion 1	Relevant experience of the tenderer
Documentary evidence	<p>A list of projects involving design, installation and testing of distribution piping, cable trays and grounding system for industrial projects provided over the past 3 years, or currently being performed, with minimum 3 contracts, each of a value of 2.000 000 SEK. This list of references shall include the following details:</p> <ul style="list-style-type: none"> <li>Client</li> <li>Name, location and type of contract</li> <li>Company's part in the contract</li> <li>Contract value and time for execution</li> <li>Reference person at the client</li> </ul>

Criterion 2	Quality Assurance and Sustainability
Documentary evidence	<p>Tenderers are requested to demonstrate the conduct of business operations according to a quality management system. Tenderers shall briefly (no more than 500 words) describe their quality management system or submit up-to-date certificates by authorised bodies on ISO 9001:2008.</p> <p>Tenderers are requested to demonstrate the conduct of business operations according to certain levels of environmental standards and awareness. Tenderers shall briefly (no more than 500 words) describe their environmental management system or submit up-to-date certificates by authorised bodies on ISO 14001:2004 or Eco-Management and Audit Scheme (EMAS).</p>

Tenderers will be evaluated against each selection criterion on the basis of the documentary evidence submitted by the tenderer. Failure to submit the evidence requested may lead to a rejection of the tender. Tenderers will be evaluated with a view of either passing or failing the selection criteria. Tenderers who meet the criteria will be put on an equal footing for the next stage of the evaluation process: evaluation on the basis of the award criteria.

The tenderers who do not meet all the selection criteria will not have their tenders further evaluated on the basis of the award criteria.

### 5.3 Award method and criteria

The supply agreement shall be awarded to the tenderer who has/have submitted the tender representing the best-value-for-money according to the following criteria:

Award criterion	Maximum score/weighting	Threshold
Commercial award criteria	80	
• Price	<i>80</i>	-
Technical award criteria (quality of the tender)	20	-
• Quality with regards design, fabrication, assembly and testing	<i>10</i>	5
• Project planning, resource planning and contingency strategy in order to guarantee delivery schedule	<i>5</i>	-
• Quality and availability of sub-suppliers	<i>5</i>	-
Total score	100	

#### 5.3.1 Commercial Award Criteria

##### 5.3.1.1 Price Award Criterion

The price of the tender will be determined on the basis of the total price submitted in the financial proposal in accordance with section 6.4.

The procurement evaluation Board (PEB) will assess all commercial sub-criteria using the following formula:

$$PCS = S_{MAX} \cdot \left( \frac{P_{MIN}}{P} \right)$$

where

$PCS$  = Price criterion score

$P$  = Total price of tender in EUR

$P_{MIN}$  = Lowest total price of all received tenders in EUR

$S_{MAX}$  = Maximum score/weighting (80)

### 5.3.2 Technical Award Criteria

#### 5.3.2.1 *Quality with regards with regards design, fabrication, assembly and testing*

The PEB will assess this award criterion based on the information provided in response to the requirements in the SoW (Annex 3), and score this award criterion accordingly.

This information shall include, but not limited to:

- Design process, methodology and plan
- Pre-fabrication and fabrication process
- Pre-assembly and assembly process
- Installation process
- Testing process
- Technical documentation of the products and installation

#### 5.3.2.2 *Project planning, resource planning and contingency strategy in order to guarantee delivery schedule*

The PEB will assess this award criterion based on the information provided in response to the requirements in the SoW (Annex 3), and score this award criterion accordingly.

This information shall include, but not limited to:

- Complete project plan and resource planning from contract signature to Preliminary Acceptance Certificate, including a Gantt chart with relevant activities, including quality assurance related activities
- Contingency plan in connection with project planning ensuring the delivery schedule, identification of risks and solutions

- Description of resources availability throughout the plan

#### *5.3.2.3 Quality and Availability of sub-suppliers*

The PEB will assess this award criterion based on the information provided in response to the requirements in the SoW (Annex 3), and score this award criterion accordingly.

This information shall include, but not limited to:

- Statement of adherence to the suggested list of sub-suppliers, or
- List of sub-suppliers proposed and general information regarding quality and availability for the relevant components.

ESS will notify all tenderers about the results of the evaluation of their tender.

## **6. CONTENT OF THE TENDER**

### **6.1 Annex 1 – Tender identification form**

Tenderers are requested to indicate clearly a single point of contact in their organisation in relation to any communication relating to this call for tender in their tender by filling in information requested in Annex 1.

ESS will not be responsible for contacting the tenderer through any route other than the nominated contact. The tenderer must therefore undertake to notify any changes relating to the contact promptly.

### **6.2 Administrative section**

The administrative section shall include the declaration of honour (Annex 2), as described in section 5.1 above and an electronic version of the Tender identification form (Annex 1) on the USB stick.

The tender shall include all necessary supporting documentation required to demonstrate the tenderer's professional capacity, its financial and economic standing as well as technical capacity, consistent with the requirements defined in section 5.2. above.

In case of joint tender, all the partners (except the lead partner) shall submit a power of attorney, signed by an authorised representative of each partner, designating the lead partner to represent them and to sign the contract on their behalf in relation to this call for tender.

The tenderer shall provide a copy of the statutes of the legal entity and any other evidence concerning the appointment of the persons authorised to represent the tenderer in dealings with third parties and in legal proceedings. These documents shall be provided by all the partners to the tender in case of a joint tender.

### **6.3 Technical proposal**

This section must address all the requirements laid down in Chapter 3 Description of Services/Technical specifications and in the SoW (Annex 3). Information included in the technical proposal will be used to conduct the qualitative assessment of the tenders on the basis of the technical award criteria listed in section 5.3 above.

ESS shall reject tenders, which do not include a technical proposal or which are not technically compliant.

#### **6.3.1 Documents to be submitted by all tenderers**

- a) The Tenderer shall explicitly state that each requirement of the Statement of Work will be met and described. Any reservation must be clearly identified in a separate section of the tender, with appropriate reference to the requirement concerned
- b) The Tenderer shall submit a detailed description complementing the activities described in the Statement of Work
- c) Exhaustive list of commercial and technical exemptions from the specifications and clarifications, if any
- d) Schedule for the design, procurement, fabrication and delivery, showing the major milestones and the critical path
- e) Allocation of human resources, such as man hour plan, project staff plan, etc
- f) Format of delivered documents
- g) List of materials and proposed sub-suppliers
- h) List of standards and norms applied for the equipment.
- i) Description of vendor's:
  - a. Testing and inspection programme
  - b. Programme for pre-fabricated assemblies covering:
    - i. Vendor procurement of components and materials
    - ii. Vendor manufacturing
    - iii. Testing and inspections
    - iv. Packaging
    - v. Transportation

## 6.4 Financial proposal

The tenderers shall submit the following prices:

- A fixed firm price for the scope as given in ANNEX 3 - SoW.

Submitted prices:

- shall be in **SEK** and exclusive of VAT,
- shall be based on Incoterms 2010 DAP ESS Construction Site, Odarslövsvägen 113, 22592, Lund, Sweden,
- shall be fixed and not subject to revision, except when otherwise stated in the draft contract
- shall be independent of exchange rates, and
- shall be inclusive of all costs (including delivery cost, installation and commissioning), charges and expenses directly and indirectly connected with the services and goods to be provided.

**Failure to submit a financial proposal or submission of an incomplete or ambiguous financial proposal may lead to rejection of the tender without further evaluation.**

## 7. ADDITIONAL PROVISIONS

- Submission of a tender implies acceptance of the conditions stipulated in this call for tender and the attached draft supply agreement. These conditions will bind the tenderer to whom the contract is awarded during the performance of the contract. The tenderer shall provide a statement confirming the acceptance of these conditions in Annex 1.
- Changes to tenders will be accepted only if they are received by the deadline for the submission of tenders.
- ESS will not reimburse any costs incurred by tenderers with connection with preparation and submission of their responses to this open call for tender.
- ESS reserves the right to cancel the tendering procedure at any point. ESS shall not be liable for any compensation with respect to tenderers whose tenders have not been accepted. Nor shall it be so liable if it decides not to award the contract.

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- Direct or indirect canvassing of any ESS employee by a tenderer concerning this call for tender, or any attempt to obtain unfair advantage from any ESS employee, may result in the disqualification of the tenderer from consideration for this call for tender.
- ESS is concerned to avoid conflict of interest. Tenderers should note that ESS reserves the right to disqualify tenderers where there is an actual or potential conflict of interest.
- Any document submitted in reply to this call for tender will become the property of ESS and will be regarded as confidential.
- Appeals – The European Spallation Source ERIC Procurement Rules provide for aggrieved parties who have been harmed or are at risk of harm by a breach of the procurement rules to formally appeal procurement decisions within 10 days from the day on which they knew or ought to have known of the grounds of the appeal.

Formal appeals must be marked 'confidential' and submitted in writing to the following address:

Tenders Appeal Board  
European Spallation Source ERIC  
P.O Box 176  
SE-221 00 Lund, Sweden

Email: [tendersappealboard@esss.se](mailto:tendersappealboard@esss.se)