Technical Specification

Cryostat transport Call for nomination

ITER Organization is conducting a call for tender for the transport on IO ground of Cryostat sections. This document is part of the first step of the process: the call for nomination through the Domestic Agencies of the ITER project.

<table>
<thead>
<tr>
<th>Approval Process</th>
<th>Name</th>
<th>Action</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Author</td>
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<td>26-Jun-2012:signed</td>
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</tbody>
</table>

Document Security: level 1 (IO unclassified)
RO: Le Page Myriam
Read Access: LG: review panel and contract, project administrator, RO
<table>
<thead>
<tr>
<th>Title (Uid)</th>
<th>Version</th>
<th>Latest Status</th>
<th>Issue Date</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryostat transport Call for nomination (9BM7KC_v1_2)</td>
<td>v1.2</td>
<td>Approved</td>
<td>26 Jun 2012</td>
<td>Main modification on section &quot;candidature&quot;and &quot;technical capacity&quot;</td>
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<tr>
<td>Cryostat transport Call for nomination (9BM7KC_v1_1)</td>
<td>v1.1</td>
<td>Approved</td>
<td>12 Jun 2012</td>
<td>Clarification of the document</td>
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<tr>
<td>Cryostat transport Call for nomination (9BM7KC_v1_0)</td>
<td>v1.0</td>
<td>Signed</td>
<td>04 Jun 2012</td>
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</table>
1 Introduction

The ITER project is based in St Paul Lez Durance in the north of Aix en Provence. It has entered the construction phase and the assembly of the Machine is scheduled at the end of 2015.

Further information can be found on the ITER website (http://www.iter.org) and also at the web pages of the ITER Parties that can be accessed via the ITER website.

The scope of this contract is the transport on IO site of 4 large “cryostat sections” between two buildings. See Figure 1 for the representation of a typical section.

The maximum weight to be handled is approximately 1500 Tons and the sections will be standing on a rigid frame of approximately 31m*31m. The design of the frame and the securing of the pieces on the frame are out of the scope of this contract.

The current maximum margin between the frame and the floor is 100 mm and between the top of the section and the lintel of the building door (worst case) is 100 mm. 5 trenches (300mm wide and 150mm high) embedded on the ground may be used to install some transport equipment if necessary.

![Figure 1 Example of 1 section to be transported (cryostat lower cylinder)](image)

The total distance for this transport is about 250m incorporating a change of direction of 90° (the load will not be rotated).

2 Time schedule

Study phase: The company, or consortium, to which the contract is awarded (“the contractor”), will provide IO with the proposed methodology for these moves, compatible with the interfaces
with the other systems, within the first 3 months of the contract. The final version of the study, including any adjustment needed, will be provided 12 months after the kick-off meeting.

**Installation:** If necessary, the contractor will install the transport equipment on site prior to the sub-assembly of the sections.

**Transfer of loads:** The contractor will perform the moves foreseen in the contract.

<table>
<thead>
<tr>
<th>PART 1 : Study</th>
<th>date</th>
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<tbody>
<tr>
<td>Kick Off Meeting (KOM)</td>
<td>2 weeks after signature of the contract</td>
</tr>
<tr>
<td>Description of interfaces</td>
<td>KOM + 3 months</td>
</tr>
<tr>
<td>Detailed description of process, staff necessary and timetable of 1 operation, update of interface if necessary</td>
<td>KOM + 9 months</td>
</tr>
<tr>
<td>Final version of the study</td>
<td>KOM + 12 months</td>
</tr>
<tr>
<td>PART 2: Installation phase (If necessary)</td>
<td>3 months before the beginning of sub-assembly</td>
</tr>
<tr>
<td>PART 3 : Transfer of the cryostat sections</td>
<td>1 month notice before the need date</td>
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The current dates of transport are the following:
- Cryostat base: July 2015,
- Cryostat lower cylinder: December 2015,
- Cryostat upper cylinder: October 2018,

The contractor will receive a notice 4 months before the beginning of sub-assembly of each section.

### 3 Scope of Work Description

- Defining the interfaces with other systems:
  - Buildings (space necessary, anchoring..),
  - Services,
  - Transport frames,
  - Storage area.
- Defining the system used and the methodology,
- Provide the anchoring interfaces (if any required, the installation is out of scope),
- Provide all the necessary equipment and staff and perform the moves of the 4 sections and any additional move foreseen as an option in the contract.
4 Candidature

Candidates are allowed to form consortia or subcontract other companies. In this case, ITER Organization shall only have one single executive contact. All members of a consortium (i.e. the leader and all other members) are jointly and severally liable to the ITER Organization for the implementation of the contract. The Candidate’s composition (i.e. an individual legal entity or a consortium) shall be presented at the pre-qualification stage, following this Call For Nomination. The candidate’s/tenderer’s composition cannot be modified without a prior approval of the ITER Organization after the pre-qualification.

No more than one application can be submitted by a legal person whatever the form of participation (as an individual legal entity or as a member of a consortium submitting an application). In the event that a legal person participates in more than one application, all applications in which that person has participated may be excluded.

Legal entities belonging to the same legal grouping are allowed to participate separately if they are able to demonstrate independent technical and financial capacities. IO reserves the right to disregard duplicated references and may exclude such legal entities form the tender procedure.

Any subcontractor(s) shall not be considered to be members of a consortium and the experience and capacity of subcontractors will not be taken into account during the pre-qualification procedure.

5 Technical Capacity

The candidate’s capacity will be assessed on the following:
- Experience in the domain of heavy transportation and lifting during the past 5 years;
- Technical equipment and tools;
- On-going staff expertise in design and transportation;
- Quality assurance.

6 Quality assurance requirements

The organisation conducting these activities should have an ITER approved QA Program or an ISO 9001 accredited quality system.