

Call for Nomination

SUMMARY

IO/18/CFT/15726/JTR

**Supply Contract
for**

***Design and supply of passive fire protection for the Tokamak Complex
Detritiation System pipes and supports.***

1 Introduction

This Call for Nomination is the first step of the Procurement Process leading to the award and execution of a supply contract.

The purpose of this document is to provide a summary description of the technical content in terms of the scope, and provide details of the Procurement Process.

The Domestic Agencies are invited to nominate companies, institutions or other entities that are capable of providing works and associated supplies for these services.

2 Background

ITER is the next generation fusion machine. It will operate with tritium plasmas. Theradiological hazards of tritium must be controlled, and the Detritiation System is an important element for controlling these hazards. The DS systems will reduce the amount of tritium released to the environment by collecting it as tritiated water.

The Detritiation System is designed to operate during accidents, including during fire. The thermal insulation characteristics are driven by the fire temperature, the space constraints and the pipe or support maximum allowable temperatures. These constraints lead to the use of high performance thermal insulation, i.e. a material which ensures an excellent thermal insulation even with a few centimetres thick layer, and with low thermal conductivity values even at elevated temperatures.

For a complete description of the ITER Project, covering both organizational and technical aspects of the Project, visit www.iter.org.

3 Purpose & Scope

The purpose of this Contract is to perform the following work:

- Design passive fire protection (PFP) system (including but not limited to thermal insulation material, jacket, cladding and attachment system) for the Detritiation System pipes and supports.
- Prepare the PFP system qualification dossier.
- Manufacture the thermal insulation system and delivery to IO site.

The scope of work will include the following:

- Select appropriate PFP materials to protect pipes and support during a fire (temperature based on EN 1991-1-2 Standard temperature-time curve, applied during 2 hours). Due to space constraint it shall be high performance insulation material)
- Select out of the shelf components and custom-made components made of the selected material.
- Propose a solution for pipe and support PFP.
- Qualify the solution for concomitant fire and earthquake.
- Produce set of drawings for custom-made components such as supports jacketed PFP.
- Produce qualification report.
- Manufacture or procure all material and assemblies, and deliver to IO site.

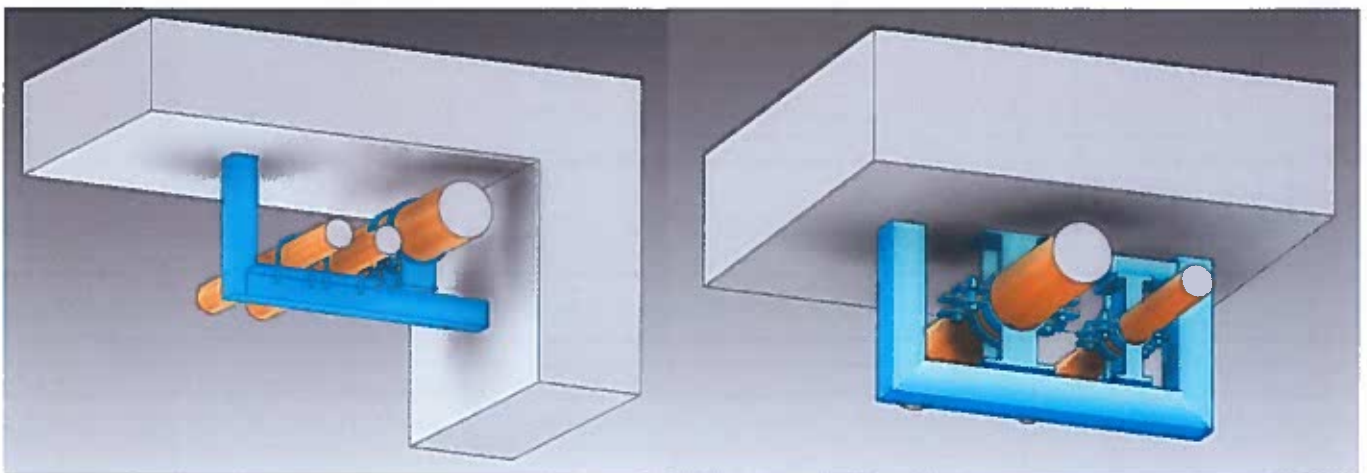


Figure 1: Detritiation System example of pipe and support arrangement

4 Procurement Process

The Procurement Process starting with the present Call for Nomination aims at signing one supply contract called Design and Supply of Passive Fire Protection for the Tokamak Complex Detritiation System Pipes and Supports.

The Procurement Procedure selected is called the Call for Tender procedure.

The Call for Tender procedure is composed of the following steps:

➤ Stage 1 - Call for Nomination (CFN):

The Call for Nomination is the first stage of the Call for Tender process. The IO formally invites the Domestic Agencies to nominate potential candidates that are capable of providing the required supplies, services or works in order to enable the IO to pre-qualify the nominated companies.

➤ Stage 2 - Pre-Qualification (PQQ):

Following the Call for Nomination, the Pre-Qualification Questionnaire ensures that offers are sought only from qualified Candidates who have the requisite capacity and experience to satisfactorily perform the intended work. The aim of the Pre-Qualification is to establish a list of qualified Candidates (Consortium or single entity) based on the set of selection criteria.

➤ Stage 3 - Invitation to Tender (ITT):

Following the Call for Nomination and/or the Pre-Qualification stages, the Invitation to Tender stage is used to obtain proposals from qualified Candidates identified as potential Tenderers.

At Stage 1 (CFN), subject of the present document, nominations are sought from ITER Domestic Agencies for companies, institutions or other entities that are capable of providing works and associated supplies and services.

At Stage 2 (PQQ), the Candidates shall decide whether or not to apply to the tender or to apply either individually or form a consortium with other interested and eligible parties.

At Stage 3 (ITT), the qualified Candidates shall provide a tender proposal in line with the details of the tender requirements and their Pre-qualification applications.

4.1 Procurement Timetable

The tentative timetable is as follows:

Milestone	Date
Call for Nomination	June 2018
Invitation for Pre-qualification Applications	July 2018
Pre-qualification Applications Submission	September 2018
Invitation to Tender	October 2018
Tender Submission	November 2018
Contract Award	December 2018
Contract Signature Date	December 2018
Contract Commencement Date	January 2019

5 Contract Delivery & Timetable

The estimated duration of the resulting supply contract is 3 years. There are 3 different batches for design and material deliveries, each of them corresponding approximately to one third of the total scope as indicated in the table below.

Milestone	Date
Batch #1 Delivery (Design & Material)	June 2019
Batch #2 Delivery (Design & Material)	October 2019
Batch #3 Delivery (Design & Material)	June 2020

5.1 Experience

The Contractor shall have adequate experience and capacity related to the following aspects of passive fire protection (PFP):

- ☐ Design of PFP for pipes, supports and penetration for nuclear industry
- ☐ Certification of PFP to fire and seismic event, including ageing materials
- ☐ Certification of PFP against radiations
- ☐ Installation and maintenance of PFP

6 Candidature

Participation is open to all legal persons participating either individually or in a grouping (consortium) which is established in an ITER Member State. A legal person cannot participate individually or as a consortium partner in more than one application or tender of the same contract. A consortium may be a permanent, legally-established grouping or a grouping, which has been constituted informally for a specific tender procedure. All members of a consortium (i.e. the leader and all other members) are jointly and severally liable to the ITER Organization.

The consortium grouping shall be presented at the Pre-Qualification stage. The Candidate's composition cannot be modified without the approval of the ITER Organization after the Pre-Qualification.

In order for a consortium to be acceptable, the individual legal persons included therein shall have nominated a leader with authority to bind each member of the consortium, and this leader shall be authorised to incur liabilities and receive instructions for and on behalf of each member of the consortium. Evidence of such authorisation shall be submitted with the Pre-qualification Application and the Tender in the form of power of attorney signed by legally authorised signatories of all the members.

7 Sub-contracting Rules

All sub-contractors who will be taken on by the Contractor shall be declared with the tender submission. Each sub-contractor will be required to complete and sign forms including technical and administrative information which shall be submitted to the IO by the tenderer as part of its tender.

The IO reserves the right to approve any sub-contractor which was not notified in the tender and request a copy of the sub-contracting agreement between the tenderer and its sub-contractor(s).

For each Contract, sub-contracting is allowed but it is limited to one level, and its cumulated volume is limited to 30% of the total Contract value.

Two levels of sub-contracting may be considered for very specific activities which will be mentioned by the IO in the Pre-qualification documentation.

At Pre-qualification stage, the capacity of sub-contractors may be considered for special cases duly mentioned in the Pre-qualification documentation. In that case, a letter of intention will be required for the sub-contractors.

8 Nuclear Liability

The ITER Organization is the nuclear operator of the ITER nuclear fusion facility (INB 174) under French nuclear law. However, unlike other nuclear operators of nuclear fission installations in France, nuclear fusion installations are not covered by the Paris Convention on nuclear third party liability for the time being. Pending negotiations with the Contracting parties to the Paris Convention, the special nuclear liability regime (i.e. limited strict liability of the nuclear operator) implemented by the Paris Convention does not apply.

Therefore, the ITER Council, by a decision of 2009 endorsed that until a solution is found, the ITER Organization may assume this responsibility by providing a declaration and waiver of indemnity regarding nuclear liability to indemnify suppliers of the IO and their subcontractors in case they are held liable, based on the principles of the Paris convention, this in the understanding that if no regulatory solutions could be found before nuclear operations of the ITER facility started, a proper mechanism would be established by the ITER Members in accordance with Article 15 of the ITER Agreement.

This declaration and waiver of indemnity regarding nuclear liability will be included in the Contracts signed by the Contractors and the IO.