

Technical Specifications (In-Cash Procurement)**Technical Summary for Call for Nomination for Cable
Supply in Tkm**

This Call for Nomination is to allow companies to declare their candidate in order to tender for Supply of Cables for the Plant Systems in the Tokamak complex

Technical Summary for Call for Nomination

Framework Contract for Supply of Cables for the Plant Systems in the Tokamak complex of the ITER facility

1 Purpose

This Call for Nomination is to allow companies to declare their candidate in order to tender for Supply of Cables for the Plant Systems in the Tokamak complex of the ITER facility.

2 Background

ITER is a joint international research and development project that aims to demonstrate the scientific and technical feasibility of fusion power. For the construction of its experimental reactor, the IO needs to purchase construction components, and this Call for Nomination is the first step in the process to procure cables for the operation of the facility.

3 Scope

The selected supplier will be in charge of supply of cables for the Plant Systems for the First Plasma Operation phase.

The contractors shall take care of the manufacturing, supply, qualification, testing of the cables according with the IO technical specification.

The contractors shall be responsible of the transportation to the ITER site at Caderache in France.

The cables will be installed in the Tokamak complex and surrounding buildings.

ITER is a Nuclear Facility identified in France by the number-INB-174 ("Installation Nucléaire de Base"). The scope of this contract will cover cables both Safety and not Safety related. The Safety related cables are required keep the facility in Safe state during accidental conduits, and will require additional qualification and control points. The cables in some areas shall be qualified for radiation exposure.

The quantity of cables to be supplied under this contract will be greater than 1000 km of cable.

The following table shows the qualification standards and their applicability. The bidder could provide cables qualified with other standards, with the justification of the compatibility with the IEC ones.

Function	Standard(s)	Applicability
Linear resistance test	IEC 60228	All cables
Bending test	IEC 60502-1	All cables
Insulation test	IEC 60502-1	All cables
Thermal aging	IEC 60068-2-2 (type Bd, without power, at 135 °C during 10 days)	All cables
Radiation aging	IEEE 383 (radiation resistance only) or IEC 60544-2	All cables in radiation environment
Fire retardancy	NFC 32070 C1 or IEC 60332-1/-3	All cables
Low smoke	IEC 61034	All cables
Zero halogen	IEC 60754-1	All cables

Non toxicity	IEC 60754-2	All cables
Fire resistance	NFC 32070 CR1 or IEC 60331-1/-2	Safety related cables
Data communication	IEC 11081	Telecom and network cables

The detailed requirements will be communicated to the Candidates during the Pre-Qualification stage by the IO technical specifications.

4 Required Experience and Skills

The candidates shall need to demonstrate during the Pre-Qualification stage that they have the capabilities to supply the required goods in full compliance with the applicable standards as well as with the ITER quality and safety requirements.

5 Framework Contracts

As a result of this tender process the IO intends to award at least 2 Framework Contracts.

Cables will be ordered against the Framework Contracts by means of Supply Orders. These will be awarded on the basis of mini-competitions between the Framework Contract holders.

6 Tentative Schedule

Milestone	Dates
Call for Nominations	15 June 2020 until 9 July 2020
Launch Pre-Qualification	13 July 2020
Receipt of Pre-Qualification	13 August 2020
Launch of Call for Tender	14 September 2020
Receipt of Tenders	28 October 2020
Award of Framework Contracts	November 2020
Signature of Framework Contracts	December 2020
First Mini competitions	January 2021
First delivery of Cables	July 2021

7 Candidature

Participation is open to all legal entities established in an ITER Member State, which is:

- European Union including Switzerland (EURATOM Members),
- Republic of India,
- Japan,
- People's Republic of China,
- Republic of Korea,
- Russian Federation, or
- United States of America.

The UK is not a party to the ITER Agreement but to EURATOM Treaty. The draft Withdrawal Agreement between the EU and the UK provides that the provisions of the EURATOM treaty continues to apply to and in the UK for a transition period following its withdrawal from the EU and EURATOM. If the Withdrawal Agreement is not ratified (a no-deal Brexit) the EURATOM Treaty ceases to apply to and in the UK on the withdrawal date.

Until the Withdrawal Date, the UK remains a full member of the EU and EURATOM and until that date UK entities retain the right to participate in IO procurement procedures. In case they are selected, a Brexit clause is included in the contract. Likewise during the Transition period UK entities may participate in IO procurement procedures.

After the end of the Transition Period, when the Euratom Treaty ceases to apply to and in the UK, any UK entities bidding as a prime contractor or consortium partner, will be rejected from the IO procurement procedures. UK entities will no longer be recognised as entities of an ITER Member and will no longer have the right to participate in IO procurement procedures, unless the UK has entered into an Agreement with Euratom. Where UK entities can demonstrate a unique and specific competence in a certain field the IO, with approval of the ITER Council, may also allow them to participate in a procurement procedure.

Entities can participate either individually or in a consortium. A legal entity cannot participate individually or as a consortium partner in more than one application or tender. 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 groupings shall be presented at the pre-qualification stage. The tenderer's composition cannot be modified without the approval of the ITER Organization after the pre-qualification.

Legal entities belonging to the same legal grouping are allowed to participate separately if they are able to demonstrate independent technical and financial capacities. Candidates (individual or consortium) must comply with the selection criteria. The IO reserves the right to disregard duplicated reference projects and may exclude such legal entities from the pre-qualification procedure.