

**Call for Nomination Documents**

**Call for Nomination - TF Coils Preparation Building  
(B73.2) in Area 73**

This is a Call for Nomination for Construction of a facility to be used for on-site preparation of TF Coils.



# Construction of a facility to be used for on-site Preparation of TF Coils

## [Call for Nomination](#)

### **Introduction**

ITER is a joint international research and development project aiming to demonstrate the scientific and technological feasibility of fusion power for peaceful purposes. The seven members of the ITER Organization are: The European Union (represented by EURATOM), Japan, the People's Republic of China, India, the Republic of Korea, the Russian Federation and the USA.

The ITER Organization is located in Saint Paul lez Durance – France.

Further information is available on the ITER website: <http://www.iter.org>

### **Purpose**

The purpose of this document is to provide a summary description of the technical requirements of the ITER Organization (IO) associated with a future Contract for the design and construction of a temporary building (facility) suitable for the preparation of up to two Toroidal Field (TF) coils prior to their transfer to the Assembly Building for incorporation into the Sector Sub-Assemblies.

This document shall apply to the Call for Nomination to be issued by the IO to the ITER Domestic Agencies for the works to be carried out. This document is not the final specification for the future Contract which will contain more detail of IO requirements.

### **Background**

Components for the ITER Project are fabricated by member state suppliers and transferred to the ITER Site. In some cases, components need additional preparation activities before they can be incorporated into the ITER Machine or within a plant system.

The ITER TF coils will arrive at the ITER Site after transfer from the port of Marseille via the ITER special itinerary. Each coil will weigh in excess of 400 tonnes and will be transported using a special transport frame.

Upon arrival at site, each TF coil will require several months of preparatory work prior to being sent to the Assembly Building for incorporation into the Sub-Assembly (i.e. two TF coils and a vacuum vessel sector).

Currently IO has no available facility suitable for undertaking this preparatory work and such a facility needs to be constructed.

### **Location**

The chosen location for the new building (named 73.2) is in Area 73 on the ITER Construction Site Platform. Refer to figure 1 for details.



Figure 1 – Area 73 location on Iter Site.

There are some existing and future planned facilities in Area 73. The new building shall be constructed directly adjacent to a newly erected lightweight warehouse (73.1) – refer to figure 2 below.

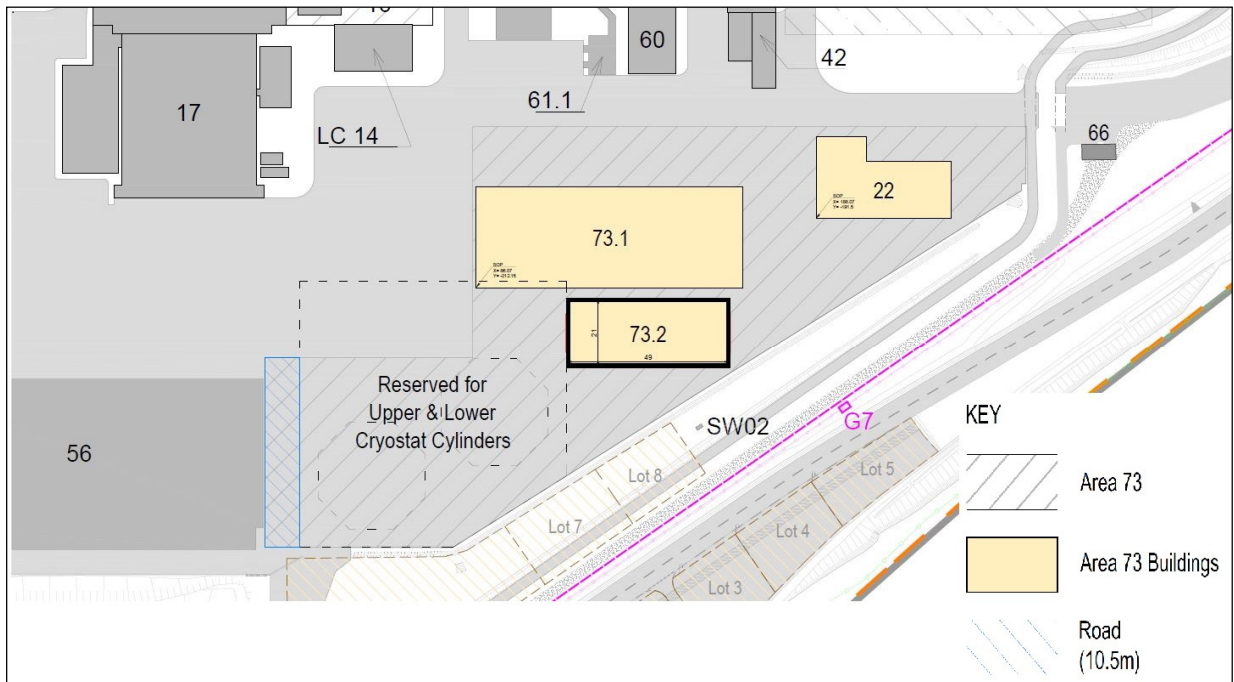
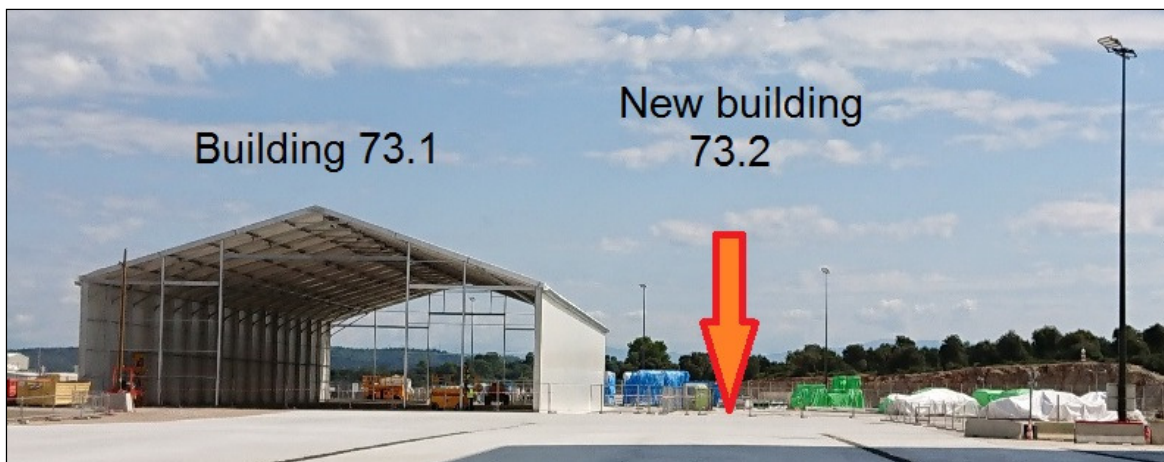


Figure 2 – New building (73.2) location in Area 73.

## Scope of works

The future contract shall include the design and construction (turnkey) of the facility that shall have the following characteristics:

1. The facility will be constructed on an existing high capacity concrete slab and therefore it is expected that additional foundations will not be necessary;
2. The facility shall be approximately 50m in length, 25m in width and 10m in height;
3. The facility shall include a 3 tonne capacity crane capable of operating along the full length of the building. The crane may be an overhead-type or run on rails or rubber tyres;
4. The facility shall be designed and constructed taking into account the local climatic conditions;
5. The facility shall include an HVAC system capable of ensuring that the temperature range is maintained between 17 and 28 degrees Celsius and that daytime temperature fluctuations do not exceed 3 degrees Celsius;
6. The facility shall utilise the existing high capacity concrete slab although some modifications will be required to obtain a flat (0% gradient) surface and to remove the drainage slopes on the existing slab;
7. The facility shall include 2m x 12m wide doors at either end of the building;
8. The facility shall be connected to the potable water network;
9. The facility shall be designed, constructed and commissioned in accordance with French Codes and Standards;
10. The facility shall be constructed in close proximity to another existing storage building (73.1) as shown in Figure 3.



*Figure 3 – New building location beside B73.1 in Area 73.*

For further details refer to attached drawing no.: 70-73.2-00-001.



## **Timetable**

The tentative timetable is as follows:

Call for Nomination issuance:	August 2018
Call for Tender (incl. Pre-Qualification Application):	October 2018
Call for Tender submission:	February 2019
Contract award	April 2019
Completion of Contract	End of September 2019

## **Experience**

Candidates shall have adequate experience in the design and construction of facilities similar to those described herein.

Candidates shall have knowledge of French regulations related to Health, Safety & Environmental protection.

All technical documentation shall be written in English, the working language of the ITER Project. Candidates shall be able to communicate effectively both in English and French language.

The candidates shall have an ISO 9001 quality certification or ITER approved QA program.

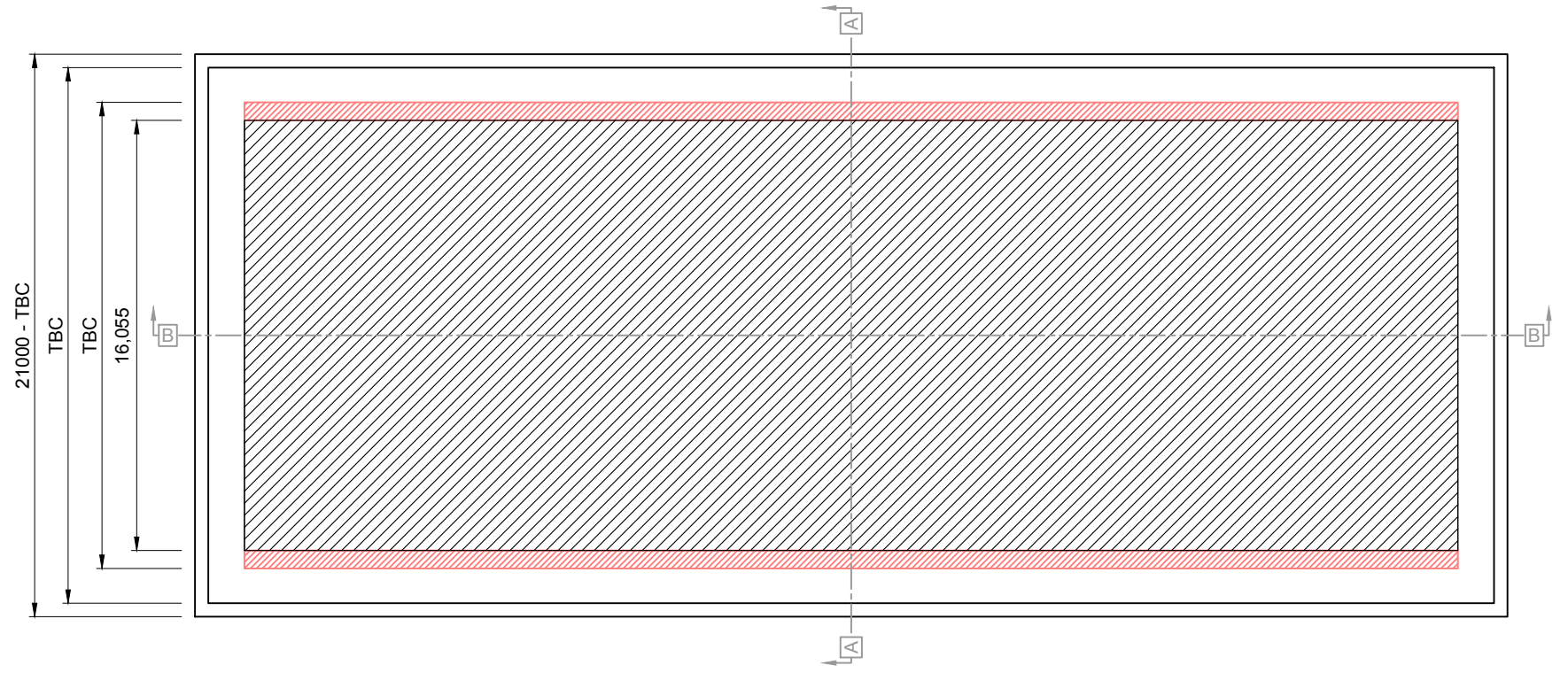
## **Candidature**

Participation is open to all legal persons participating either individually or in a group (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. A consortium may be a permanent, legally-established group or a group, 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.

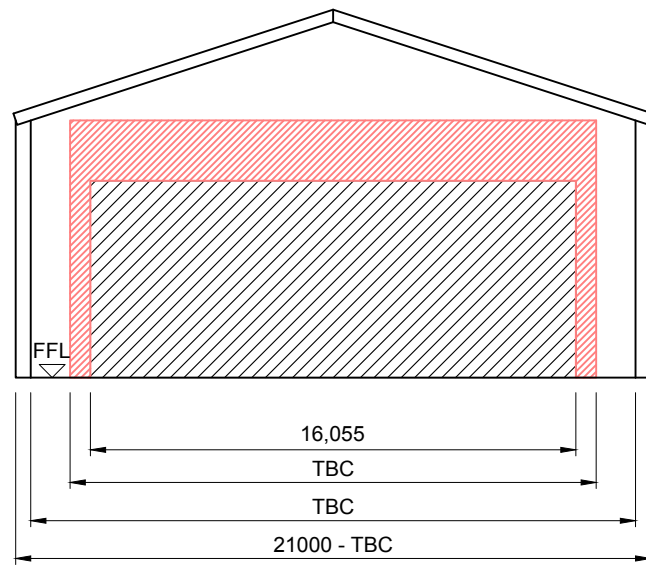
Any consortium group shall be presented at the pre-qualification stage. The Tenderer's composition cannot be modified without the approval of the ITER Organization after the pre-qualification.

Legal entities belonging to the same legal group 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.

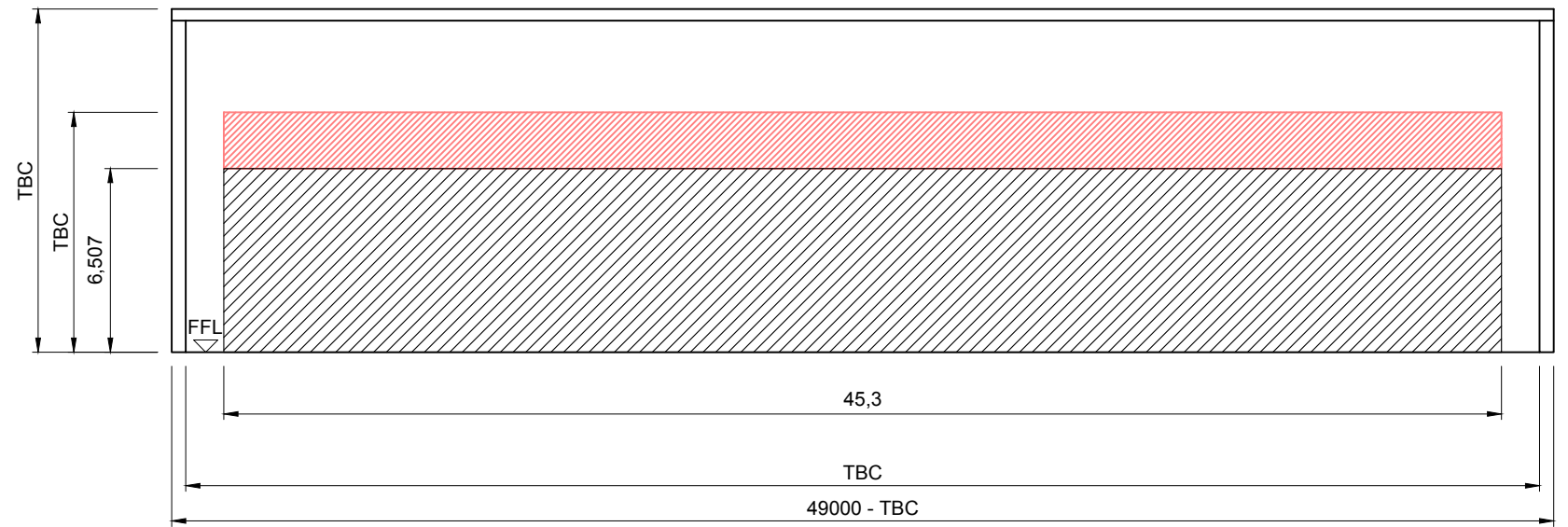







SECTION PLAN




SECTION VIEW A-A



SECTION VIEW B-B

- KEY:**
-  WORKSHOP ENVELOPE
  -  CRANE ENVELOPE
  -  FINISHED FLOOR LEVEL

001	16 AUG 2018	KEDINGI	AGX	SIMPLIFICATION OF DRAWING
REV	DATE	DRAWN	CHECKED	DESCRIPTION
				DRAWN BY <b>KEDINGI</b>
				CHECKED BY <b>GINIAUA</b>
DWG No. 70-73.2-00-001			REV. 001	REV DATE <b>10 AUG 2018</b>
<b>BUILDING 73.2</b> <b>SECTION VIEWS</b>				SHEET No. 2
				No. OF SHEETS <b>2</b>
				SCALE <b>1:100</b>
				SHEET SIZE <b>A3</b>