Framework Contract for the Provision of Lifting and Handling Services at the ITER Site

Call for Nomination

Purpose

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.

The Purpose of this document is to provide a summary description of the technical requirements of the ITER Organization (IO) associated with a future framework contract for the provision of lifting and handling services.
This document shall apply to the Call for Nomination to be issued by the IO to the ITER Domestic Agencies for the supply of Lifting and Handling Services. This document is not the final specification for the future framework contract which will contain more detail of IO requirements.

Definitions

IO	The ITER International Organization for Fusion Energy
DA	One or more of the Seven Domestic Agencies of the ITER Members (China, Europe, India, Japan, Russia, South Korea United States of America
The Contractor	The supplier of the services to which this Call for Nomination applies
ITER Site	Land put at the disposal of the ITER Organization in Cadarache, France
Constructor	The entity responsible for using the services described in this Call for Nomination
CMA	Construction Manager as Agent appointed by IO to manage and control the construction works at the ITER Site.

Background

ITER is the next generation of Fusion machine, currently under construction in the South of France. As part of the Construction activities of the IO and other stakeholders, ITER intends to put in place a framework contract for the provision of lifting and handling services for the components. The framework contract will be used by the contractors of the ITER Organization and may be used by the contractors of the Domestic Agencies.

There will be no obligation for the IO or the Domestic Agencies to use the services of the Contractor. However it is expected that the scale of services to be furnished and the provision of space at the ITER Site for the contractor will enable them to remain competitive throughout the duration of the contract period.

Scope of work
The contractor shall provide lifting and handling equipment as part of the services. The equipment to be leased shall include but is not limited to the following:

- Mobile cranes with a capacity of between 5 tonnes and up to 1000 tonnes.
- Forklifts with a capacity of between 1 tonne and 35 tonnes
- Telescopic forklifts with a capacity up to 15 tonnes
- Rubber tyres gantry cranes with spans up to 20 metres and capacities up to 35 tonnes
- Boom Lifts (cherry pickers) with a height capacity up to 40m
- Scissor lifts with a height capacity up to 30m
- Miscellaneous equipment for horizontal movements of components eg air pads, pallet movers and the like.

The contractor shall be required to lease the equipment to the IO with or without an operator for a range of durations from 0.5 days to several years. It is likely that the very high capacity equipment will be required for “special” lifts and therefore for sporadic short durations of up to a few weeks.
The lower and medium capacity equipment will generally be required for longer durations ie months or years.

For mobile crane hire, the contractor will be required to provide an operator for the mobile crane. The operator will need to be suitably experienced and qualified to operate the equipment in France. For smaller equipment, the Contractor may be required to also provide an operator but in most instances the Constructors will provide their own manpower.

The Contractor shall be required to undertake technical studies and prepare lifting plans appropriate for the lifting to be undertaken. In the case of very heavy and/or complex lifts the contractor will be expected to undertake specific and detailed engineering studies in order to ensure that the lift can be carried out safely and without undue risk. These studies will be undertaken in conjunction with the Constructors and the CMA. All lifting plans developed by the Contractor will need to be approved by the appropriate stakeholders.

In order to provide potential contractors with a broad understanding of the quantity of the work to be carried out, Table 1 below shows the number of planned lifts per year and per required crane capacity. These figures are indicative only and potential contractors should not rely on these figures in case they are awarded a contract. In particular it is likely that the peak of lifting activity will diverge by one or two years compared the figures shown and that there will be some smoothing of activities in order to avoid the abrupt peak apparent in 2018.

In addition to the vertical lifting to be undertaken at the storage zones and within dedicated delivery zones (inside and outside buildings), the Contractor may be requested directly by the

Constructors to undertake horizontal movements within buildings of components and materials. These requests will be made and reimbursed directly by the Constructors to the Contractor. There will be no obligation for the Constructors to use the Contractor for these horizontal movements.

Sum of assumption No of packages								
	0≤10t	≤35t	35t< load ≤50t	50t< load ≤100t	100t< load ≤400t	400t< load ≤600t	not known currently	Total
2017	1103.4	103	19	7	0		264.3	1496.7
2018	3089.8	331	2	9	1	0	373.8	3806.6
2019	1217.2	216.8	4	9	0		224	1671
2020	346.5	122.6	6	5	0	0	102.4	582.5
2021	602	181.3	42	7			81.2	913.5
2022	587.5	97.2	29	47			69.7	830.4
2023	1615.9	37.5	7	0			21.8	1682.2
2024	176.7	32.3					14.4	223.4
2025	79.6	2					2.4	84
2026	685.2						0.3	685.5
2027	1		0				2.8	3.8
2028	66		0				7.1	73.1
2029							8	8
2030	46.8	1					39.7	87.5
unknown	2190.8	398	30	22	3		146	2789.8
Total	**11,808**	**1,523**	**139**	**106**	**4**	**-**	**1,358**	**14938**

Table 1; Indicative figures for numbers of crane lifts per year and per crane capacity

Timetable

The tentative timetable is as follows:

Pre- Qualification issuance:	December 2016
Call for Tender issuance:	March 2017
Call for tender deadline:	May 2017
Award:	June/July 2017
Completion of first phase	June 2021

Experience

The Contractor will need to be able to demonstrate that they can directly (without sub-contract) undertake the services for provision of all the equipment listed above. Sub-contracting may be authorised by IO in certain specific cases.

The Contractor will also need to demonstrate experience of working in a nuclear environment or similar highly regulated environment where procedural rigour and traceability is of high importance.

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. 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.