

Call for Nomination Documents

Technical Summary - Operation and Maintenance of ITER Buildings and Site Infrastructure

The purpose of this document is to provide a technical summary of the upcoming Call for Tender for the Operation and Maintenance of ITER Buildings and Site Infrastructure, to be used for the Call for Nomination process.



Service Framework Contract for the Operation and Maintenance of ITER Buildings and Site Infrastructure

Call for Nomination

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 framework contract for the Operation and Maintenance of ITER Buildings and site infrastructure.

This document shall apply to the Call for Nomination to be issued by the IO to the ITER Domestic Agencies for the performance, through 4 independent lots, of the following services:

1. Operation and Maintenance of buildings;
2. Operation and Maintenance of hydraulic networks and infrastructure;
3. Soft Facility Management services as building cleaning, ground maintenance and;
4. Waste Management.

This document is not the final specifications for the future framework contract which will contain more detailed requirements.

Background

ITER is the next generation of Fusion machine, currently under construction in the South of France. The ITER site has a size of approximately 115 ha and is located in Saint-Paul-Lez-Durance, close to the CEA Cadarache Centre. At the centre of the site is a 42 ha platform where the construction of the ITER fusion reactor and auxiliary buildings is currently underway. In its periphery are a number of office buildings and contractors welfare facilities for the around 4000 people working on the project, as well as storage buildings and platforms. The construction of the ITER site has started in 2006 and the first buildings have been completed in 2008.

At the start of the services, there will be around 20 buildings to operate and maintain, most of which are office buildings. Throughout the lifetime of the contract, this number will increase to a total of approximately 50 buildings, including the Tokamak building.

Scope of work

The services to be provided are divided in four areas of expertise, (Lots 1 to 4).

They are intended to support The ITER Organization in the operation of completed facilities for which it is responsible, to ensure that the required performance standards, quality levels and other work requirements stated in this scope are achieved.

For this purpose, the Contractor shall be responsible for providing a complete engineering and management solution including:

1. Labour and other personnel with appropriate skills, technical and management expertise,
2. Materials, spare parts, plant, tools, transport, test instruments, chemicals, lubricants and other sundry materials,
3. Temporary plant items or equipment if necessary for delivering the required performance in the event of the breakdown of existing plant.

Lot 1: Operation and Maintenance of buildings:

The principal objective of this lot is to obtain operation and maintenance services of the buildings and building systems including mechanical equipment, delivered with the buildings, such as HVAC systems, cranes and lifts.

The services provided under the contract broadly include the following groups of activities:

1. Building Electrical networks Operation & Maintenance (Low Voltage in the range 50–1000 V AC or 120–1500 V DC, Lightning, Fire detection, public address, Gas detection, Instrumentation and control)
2. Building networks Operation and Maintenance (Pressurised hydraulic, Fire water, gravity, pressurised air, Helium, Nitrogen and HVAC networks)
3. Building structures & equipment maintenance (building structure, fire doors and extinguishers, metallic equipment as lifelines and ladders, furniture repair, motorised doors and gates, lifts)
4. Handling equipment maintenance (cranes and monorails, management of crane testing weights)
5. Site infrastructure maintenance (roads, car parks, laydown areas, footpaths, manholes)
6. Maintenance of specific equipment (e.g. anti-seismic bearings, port-cell doors, cast lift).
7. Alteration and improvement works
8. Transversal tasks:
 - call center service and on-call duty,
 - management and planning of maintenance (including warranty follow-up)
 - Management of scope evolution (works follow-up, appropriation of new systems, drawing integration, technical repository management)
 - Regulation control, synthesis, analysis, reporting
 - Management of Works authorizations
 - Follow-up and analysis of consumptions and capacities

Lot 2: Operation and Maintenance of hydraulic networks and infrastructure

The principal objective of this lot is to operate and maintain:

- Pressurised Hydraulic Networks (including necessary sampling and testing, water meter reading),
- Fire Water Systems,
- Gravity Hydraulic Networks (including gutters, pumping stations, wheel washers...),
- Sewage treatment plant
- Cooling water control basins,
- Storm water basins.

Lot 3: Soft Facility Management services

The principal objective of this lot is to obtain service performance for the following activities in IO's operated premises and areas:

1. Office cleaning,
2. Ground maintenance including:
 - Green spaces,
 - Hard surfaces (including roads).
3. Pest control,
4. Vehicle fleet management including:
 - Cleaning,
 - Regular servicing,
 - Tyre change,
 - Car reservation.
5. Office relocation service,
6. Property asset management,
7. Door key management,
8. Distribution of consumables (printer paper, water fountain bottles and cups),

Lot 4: Waste Management in operational buildings/areas managed by the IO

The principal objective of this lot is to collect, sort and dispose of conventional industrial waste produced on the ITER Site, as well as operation of facilities and equipment dedicated to this activity.

The main categories of non-hazardous waste produced on the site are:

- Recyclable urban waste (paper, cardboard, plastic bottles and cups, metallic cans, glassware etc.),
- Non-recyclable urban waste (buildings/offices activity waste),
- Food waste including frying oil,
- Mixed industrial waste (metal scrap, wood, plastic, etc.),
- Sensitive documents to destroy (shredding),
- Sewage sludge.

The main categories of hazardous waste produced on the site are:

- Contaminated packaging, soiled rags or material like filters
- Batteries and battery packs,
- Toner and ink cartridges,
- Sprays,
- Fluorescent lamps and bulbs,
- Used oils,
- Electronic waste (computers, screens, printers...),
- Industrial wastewater,
- Toxic waste in dispersed quantity.

Required Management activity and support concerns:

- Supply, installation and maintenance of containers,
- Waste collection and follow-up,
- Waste evacuation from ITER Site (transport, recycling/disposal),
- Operation of on-site facilities and equipment,
- Awareness actions,
- Follow-up of waste sorting KPIs.

Timetable

The tentative timetable is as follows:

Prequalification issuance:	October 2017
Call for tender issuance:	December 2017
Award:	June 2018
Contract starting date:	1 September 2018
Contract end date (4 years)	31 August 2022

The Framework Contract will include 2 optional extensions of 2 years each.

Experience

The ITER Organization is looking for applicants able to demonstrate experience in one or more of the area of expertise of above listed lots.

For lots 1 & 2, the applicants shall in addition demonstrate experience in nuclear installations (where procedural rigour and traceability is of key importance).

The quality assurance system implemented by the applicants shall be based on a recognized quality standard meeting the ITER Quality Assurance Program requirements.

Award of framework contracts

Multiple framework contracts are envisaged, one for each Lot, in order to provide the full range of services required. In case one bidder is awarded two or more Lots, the Lots will be combined in one single contract. The framework contract will be implemented by means of Task Orders, intended as a self-standing engineering activity.

Candidature

Participation is open to all companies participating to one or more of the Lots, either individually or in a grouping (consortium) which is established in an ITER Member State. A consortium may be a permanent, legally – established grouping or a grouping, which has been constituted informally – but formalized with engagement letters – for a specific tender procedure.

The consortia shall be presented at the prequalification stage, where they will be assessed as a whole. Consortia cannot be modified later without the prior approval of the ITER Organization.

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.