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Technical Specifications (In-Cash Procurement)

Technical Summary for the Manufacturing design and procurement of the Early Security Fence (ESF)

The Early Security Fence (ESF) subsystem covers on ITER:A perimeter fence delimitating the ITER Restricted Protection Zone (RPZ),Access control points (ACP) designed for pedestrians and vehicles,The video surveillance of the fence and the ACPs, An intrusion detection system on the fence. The purpose of the contract is to perform the ESF manufacturing design, procurement, manufacturing, configuration, installation, integration, commissioning and training.

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TECHNICAL SUMMARY

Call For Tender IO/22/CFT/XXXX/XXX

Manufacturing design and procurement of the Early Security Fence

Purpose

The Early Security Fence (ESF) subsystem covers on ITER:

- A perimeter fence delimitating the ITER Restricted Protection Zone (RPZ),
- Access control points (ACP) designed for pedestrians and vehicles,
- The video surveillance of the fence and the ACPs,
- An intrusion detection system on the fence.

The purpose of the contract is to perform the ESF manufacturing design, procurement, manufacturing, configuration, installation, integration, commissioning and training.

Background

ITER is a joint international research and development project for which initial construction activities have recently started. The project aims 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. ITER will be constructed in Europe, at Cadarache, in southern France, where the ITER Organization (IO) has its headquarters.

ITER is a 180-hectare site with more than 30 buildings. The facility is a nuclear research site and a Basic Nuclear Installation (INB according to French wording).

The ESF subsystems shall contribute to the safety, the security and the operation of the facility.

Scope of work

The scope of the work to be performed by the Contractor covers the following activities for the complete ESF subsystems:

- Manufacturing Design,
- Manufacturing Readiness Review (MRR) organization, and MRR meeting execution until success,
- Earthworks,
- Procurement of all components part of this Contract specifications,
- Testing in factory,
- Packaging and shipping,
- Installation & civil works (including ducts and manholes),
- Components integration on site,
- System integration with Central Components (servers),
- Testing on site,
- Commissioning,
- Warranty,
- Complete documentation of all components and systems delivered within this Contract,
- Training.

The main hardware components to deliver are (provisional list with orders of magnitude):

- Active fence (3.5 m high, length about 1800 m),
- Outer anti-wandering fence (1,5 m high, length about 600 m),
- Guard vehicle round path (length about 1500 m, width 3 m),
- Ditch (length about 600 m, depth 1 m),
- Heavy haul road modification (roundabout, trucks and car parks),
- Guard post (30 m2),
- Intrusion detection system on the active fence and in the under fence crossings (if needed),
- Cubicles equipped with power supplies and cables marshalling for field devices (about 4),
- Camera posts (35, without cameras),
- Turnstiles (3 or 4),
- Motorised gates (6),
- Rising road blockers (3),
- Lifting barriers (4),
- Traffic Light signals,
- Ground signals,
- Cabling between field components and enclosures (including ducts and manholes),
- The Guard Post furniture (desks and chairs),
- All associated software licences.

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The hardware components listed below are not in the scope of the contract:

- Servers hardware,
- PC, screen, keyboard, mouse for all operator stations,
- Network switches (if any).

The software components listed below are not in the scope of the contract:

- Windows based software,
- Software related to IT base services.

Contract schedule

The Contract is scheduled to come into force in November 2023, for a duration of 2 years. It will be phased as following:

1. Phase 1: Manufacturing design,
2. Phase 2: Detection systems procurement, earthworks for the fences, gates, road blockers, posts, ducting and guard post building,
3. Phase 3: installation, acceptance and commissioning of the fences, pedestrian control systems, video surveillance posts, vehicles sally port and guard post equipment,
4. Phase 4: Overall Final Acceptance (up to end 2025).

Procurement timetable

The tentative timetable is as follows:

Call for Nomination Release	t_0	05 December 2022
Receipt of Nominations	$t_1 = t_0 + 4$ weeks	03 January 2023
Issuance of Prequalification Application	$t_2 = t_1 + 4$ weeks	27 January 2023
Receipt of Prequalification Application	$t_3 = t_2 + 3$ weeks	17 February 2023
Notification of Prequalification Results	$t_4 = t_3 + 5$ weeks	24 March 2023
Issuance of Call for Tender	$t_5 = t_4 + 2$ weeks	07 April 2023
Tender Proposals Due Date:	$t_6 = t_5 + 9$ weeks	09 June 2023
Estimated Contract Award Date:	$t_7 = t_6 + 7$ weeks	28 October 2023
Estimated Contract Start Date:	$t_8 = t_7 + 2$ weeks	November 2023

Experience

The company's experience shall cover a broad range as listed below:

- Fences installation on high security worksites,
- Experience of deployment of detection systems on such fences,

- Experience on Guard Post design and construction.

Candidature

Participation is open to all legal persons participating either individually or in a grouping (consortium). All legal persons including all consortium members should be 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 cannot be modified later without the 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. Bidders (individual or consortium) must comply with the selection criteria. IO reserves the right to disregard duplicated references and may exclude such legal entities form the tender procedure.

The Contract will be a Contract involving elaboration, handling and storage of French Classified Information by the Contractor. Candidate shall be familiar with the Instruction Générale Interministérielle n° 1300 dated 09 August 2021 which covers its obligations resulting from having knowledge or possession of French Classified Information and media falling under French national defence confidentiality measures.

A Security Contractual Plan will be included in the Contract. In particular, some work premises of the Contractor shall be configured in order to guarantee French national defence confidentiality under the conditions defined in the Instruction Générale Interministérielle n° 1300.

In order to participate in this tender, any non-French supplier must be legally registered in a State which has signed a security agreement with the French State for exchanging French Classified Information.

Reference

Further information on the ITER Organization procurement can be found at:
https://www.iter.org/proc/generalinfo.