+Call for Expertise: エキスパート募集

IO References: IO/25/CFE/10032206/ADO

"Mechanical Engineering of Equatorial ports #08 and #17 towards FDRs and FDRs closure"

(FDR とそのクローズに向けた水平ポート#08 と#17 の機械エンジニアリング) IO 締め切り 2025 年 6 月 12 日(木)

概要:

イーター機構 (IO) では、上記タスクの支援をいただく作業を ITER 参加極の企業・機関 等から募集します。応募を希望される企業・機関等は、所定の期限までに応募書類を直接 ITER 機構の下記担当までご提出下さい。

- 今回の募集に関する書類は以下の通りです。
- 招待状
- 技術仕様書
- ・履歴書 (CV) テンプレート
- ・見積もり提案書テンプレート
- 誓約書
- ・守秘義務に関する誓約書(契約締結時に署名されること)
- 応募者は、以下の申込用紙を ITER 機構に直接送付願います。
- ・履歴書(ITER機構の招待状と技術仕様書で規定した要求事項と基準を満足していることを示す経験について明記されていること)
- ・誓約書(署名入り)
- ・見積もり提案書

(※提出書類は pdf ファイル 1 本にまとめて送付願います。)

○ 応募書類の提出先

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○はじめに

この事前情報通知 (PIN) は、供給契約の審査および実行につながる公開入札調達プロセスの最初のステップです。この文書の目的は、作業範囲と入札プロセスに関する技術的内容の基本的な概要を提供することです。

○背景

ITER プロジェクトは、欧州連合 (EU) (EURATOM を代表とします)、日本、中華人民共和国、インド、韓国、ロシア連邦、米国の7カ国が共同出資する国際的な研究開発プロジェクトで、ITER 機構 (IO) の本部 (HQ) があるヨーロッパ、フランス南部のサン・ポール・レ・デュランスで建設されています。

ITER プロジェクトの組織面および技術面の詳細については、www.iter.org を参照してください。

○作業範囲

「FDR とそのクローズに向けた水平ポート#08 と#17 の機械エンジニアリング」と題した本契約の目的は、技術仕様書に記載されたサービスの提供を調達することです。詳細は技術仕様書 2025 年 5 月 20 日付けの E2PVSF v1.0 (本 PIN 文書の附則 I)を参照下さい。

○調達プロセスと目的

目的は、競争入札プロセスを通じて供給契約を落札することです。 この入札のために選択された調達手続きは公開入札手続きと呼ばれます。 オープン入札手順は、次の4つの主要なステップで構成されています。

▶ ステップ 1-事前情報通知 (PIN)

事前情報通知は公開入札プロセスの第一段階です。IO は、関心のある候補企業に対し、10 作業日までに担当調達担当官に以下の情報を提出し、競争プロセスへの関心を示すよう正式に要請します。

- -候補会社の名称
- -登録国
- 連絡先の名前、電子メール、タイトル、電話番号。

特に注意:

関心のある候補企業は、IO Ariba の電子調達ツール 「IPROC」 に登録してください (まだ登録していない場合)。 手順については、
https://www.iter.org/fr/proc/overview を参照してください。

Ariba (IPROC) に登録する際には、お取引先様に最低1名の担当者の登録をお願いします。この連絡担当者は、提案依頼書の発行通知を受け取り、必要と思われる場合は入札書類を同僚に転送することができます。

▶ ステップ 2-入札への招待

関心のある候補企業の完全登録後、提案依頼書 (RFP) を 「IPROC」 に掲載します。この段階では、担当の調達担当者に関心を示し、かつ IPROC に登録している関心のある候補企業は、RFP が公表された旨の通知を受けることができます。その後、RFP に詳述されている入札説明書に従って提案書を作成し、提出します。

<u>このツールに登録されている企業のみが入札に招待され、登録されている</u> 企業は、自社の名前でのみ提案を提出できます。

▶ ステップ 3-入札評価プロセス

入札者の提案は、IOの公平な評価委員会によって評価されます。入札者は、 技術的範囲に沿って、かつ、RFPに記載された特定の基準に従って作業を 実施するために、技術的遵守を証明する詳細を提供しなければなりません。

ステップ 4-落札

認定は、公開されている RFP に記載されている、コストに見合った最適な 価格または技術的に準拠した最低価格に基づいて行われます。

○概略日程

概略日程は以下の通りです:

マイルストーン	暫定日程
IOWeb ページと DA との連絡により	2025年6月2日
事前指示書 (PIN) の発行	
関心表明フォームの提出	2025年6月12日
IPROC での提案リクエスト (REP) の発行	2025年6月19日
IPROC で入札提出	2025年7月4日
入札評価と契約授与	2025年7月25日
契約調印	2025年8月1日
契約開始	2025年8月中旬

○契約期間

予想される契約期間は、12か月です。

○経験

入札者は、IOの技術的要件に沿った期待される支援を提供するにあたり、その知識と経験と能力があることを英語で示す必要があります。ITERでの使用言語は英語です。流暢でプロレベルが必要です(スピーキングとライティング共に)。

○候補

参加は、個人またはグループ/コンソーシアムに参加するすべての法人に開放されます。法人とは、法的権利及び義務を有し、ITER加盟国内に設立された個人、企業又は機構をいいます。

法人は、単独で、またはコンソーシアムパートナーとして、同じ契約の複数の申請または 入札に参加することはできません。共同事業体は、恒久的な、法的に確立されたグループ 又は特定の入札手続のために非公式に構成されたグループとすることができます。 コンソーシアムのすべての構成員(すなわち、リーダーと他のすべてのメンバー)は、ITER 機構に対して連帯して責任を負います。

コンソーシアムとして許可されるために、その点で含まれる法人はコンソーシアムの各メンバーをまとめる権限をもつリーダーをもたなければなりません。このリーダーはコンソーシアムの各目メンバーのために責任を負わなければなりません。

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どのコンソーシアムメンバーもIPROCに登録する必要があります。

【※ 詳しくは添付の英語版技術仕様書「CFE - Mechanical Engineering of Equatorial ports #08 and #17 towards FDRs and FDRs closure」をご参照ください。】
ITER 機構のウェブサイト

http://www.iter.org/org/team/adm/proc/overview_からもアクセスが可能です。

「核融合エネルギー研究開発部門」の HP: http://www.fusion.qst.go.jp/ITER/index.html では ITER 機構からの各募集(IO 職員募集、IO 外部委託、IO エキスパート募集)を逐次更新しています。ぜひご確認ください。

PRIOR INFORMATION NOTICE (PIN)

IO/25/CFE/10032206/ADO

'CFE - Mechanical Engineering of Equatorial ports #08 and #17 towards FDRs and FDRs closure'

Procurement Officer in charge:

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cc amankumar.joshi@iter.org

Abstract.

The purpose of this PIN is to provide prior notification of the IO's intention to launch a competitive Call for Expertise process in the coming weeks. This PIN provides some basic information about the ITER Organisation (the "IO"), the technical scope for this tender, and details of the tender process.

1 Introduction

This Prior Information Notice (PIN) is the first step of a Call for Expertise Procedure leading to the award and execution of a Service Contract.

The purpose of this document is to provide a basic summary of the technical content in terms of the scope of work, and the tendering process.

2 Background

The ITER project is an international research and development project jointly funded by its seven Members being, 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 is being constructed in Europe at St. Paul—Lez-Durance in southern France, which is also the location of the headquarters (HQ) of the ITER Organization (IO).

For a complete description of the ITER Project, covering both organizational and technical aspects of the Project, visit www.iter.org.

3 Scope of Service

The purpose of this Contract titled "CFE - Mechanical Engineering of Equatorial ports #08 and #17 towards FDRs and FDRs closure" is to procure the provision of services described in the Technical Specifications ref. ITER_D_ E2PVSF v1.0 dated 20 May 2025 (Annex I to this PIN document).

4 Procurement Objective & Process

The objective is to award a Contract through a competitive bidding process.

The procedure is comprised of the following four main steps:

- Step 1 Prior Information Notice (PIN)
 - The Prior Information Notice is the first stage of the process. The IO formally invites interested candidate companies to indicate their interest in the competitive process, within **10 working days**, by returning to the Procurement officer in charge the following information by the date indicated under paragraph 5 below:
 - Name of candidate company
 - Country of registration
 - Point of contact name, email, title, and phone number.

Special attention:

Interested candidate companies are kindly requested to register in the IO Ariba e-procurement tool called "I-PROC", if not already done so. The process on how to register is described in the following link: https://www.iter.org/fr/proc/overview.

When registering in Ariba (I-PROC), suppliers are kindly requested to register at least one contact person. This contact person will be receiving the notification of publication of the Request for Proposal and will then be able to forward the tender documents to colleagues if deemed necessary.

> Step 2 - Request for Proposals

After the full registration of interested candidate companies, the Request for Proposals (RFP) will be published in "I-PROC". This stage allows interested candidate companies who have indicated their interest to the Procurement Officer in charge AND who have registered in IPROC to receive the notification that the RFP is published. They will then prepare and submit their proposals in accordance with the tender instructions detailed in the RFP.

Only companies registered in this tool will be invited to the tender and registered company can only submit a proposal in their name.

➤ Step 3 – Tender Evaluation Process

Tenderers proposals will be evaluated by an impartial evaluation committee of the IO. Tenderers must provide details demonstrating their technical compliance to perform the work in line with the technical scope and in accordance with the particular criteria listed in the RFP.

➤ Step 4 – Contract Award

The award will be done on the basis of best value for money as described in the published RFP.

5 Procurement Timetable

The tentative timetable is as follows:

Milestone	Date	
Publication of the Prior Indicative Notice (PIN) on IO Webpage and communications with DAs	02 June 2025	
Deadline for Submission of expression of interest form	12 June 2025	
Request for Proposals (RFP) publishing on IPROC	19 June 2025	
Tender Submission in IPROC	04 July 2025	
Tender Evaluation & Contract Award	25 July 2025	
Contract Signature	01 August 2025	
Contract Commencement	Middle August 2025	

6 Contract Duration and Execution

The estimated contract duration shall be 12 months.

7 Experience

The tenderers shall demonstrate their knowledge, experience and capabilities in the implementation of providing expected supports in accordance with the IO technical requirements.

The working language of ITER is English, and a fluent professional level is required (spoken and written).

8 Candidature

Participation is open to all legal entities participating either individually or in a grouping/consortium. A legal entity is a company or organization that has legal rights and obligations and is established within an ITER Member State.

Legal entities cannot participate individually or as a consortium partner in more than one application or tender of the same contract. 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.

In order for a consortium to be acceptable, the individual legal entities included therein shall have nominated a leader with authority to bind each member of the consortium, and this leader shall be authorised to incur liabilities and receive instructions for and on behalf of each member of the consortium.

It is expected that the designated consortium leader will explain the composition of the consortium members in its offer. Following this, the Candidate's composition must not be modified without notifying the ITER Organization of any changes. Evidence of any such

authorisation shall be submitted to the IO in due course in the form of a power of attorney signed by legally authorised signatories of all the consortium members.

Any consortium member shall be registered in I-PROC.

9 Sub-contracting Rules

Sub-contracting is not allowed.



IDM UID E2PVSF

VERSION CREATED ON / VERSION / STATUS

20 May 2025 / 1.0 / Approved

EXTERNAL REFERENCE / VERSION

Technical Specifications (In-Cash Procurement)

CFE - Mechanical Engineering of Equatorial ports #08 and #17 towards FDRs and FDRs closure

CFE - Mechanical Engineering of Equatorial ports #08 and #17 towards FDRs and FDRs closure

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1 Preamble

This Technical Specification is to be read in combination with the General Management Specification for Service and Supply (GM3S) – [Ref 1] that constitutes a full part of the technical requirements.

In case of conflict, the content of the Technical Specification supersedes the content of Ref [1].

2 Purpose

The purpose of this task is to advance engineering development of EP #08 and EP#17 up to FDR level, by fulfilling the tasks below:

- To propose and develop mechanical solutions of the port systems appropriate for DMS, GDC, diagnostics and services integration;
- To advance implementation of nuclear shielding;
- To develop services routing strategy and their supporting structure;
- To help in preparation of the CAD models for design and integration reviews.

3 Acronyms & Definitions

3.1 Acronyms

The following acronyms are the main one relevant to this document.

Abbreviation	Description
ALARA	As Low As Reasonably Achievable
CAD	Computer Aided Design
COTS	Commercial off-the-shelf
CRO	Contract Responsible Officer
GM3S	General Management Specification for Service and Supply
ICD	Interface Control Document
IO	ITER Organization
HoF	Human Organizational Factor
HFE	Human Factors and Ergonomics
DET	Data Exchange Transfer
DFW	Diagnostic First Wall
DIR	Design Integration Review
DSM	Diagnostic Shielding Module
EP	Equatorial port
FDR	Final Design Review
FP	First Plasma
HIRA	Hazard Identification and Risk Assessment
ORE	Occupational Radiation Exposure
PCSS	Port Cell Support Structure
PDR	Preliminary Design Review

PP	Port Plug
SVS	Service Vacuum System

3.2 Definitions

Contractor: shall mean an economic operator who have signed the Contract in which this document is referenced.

Other definitions can be examined in the section 2.1 of the GM3S Ref [1] and may be required to ensure proper understanding of the document.

4 Applicable Documents & Codes and standards

4.1 Applicable Documents

This is the responsibility of the Contractor to identify and request for any documents that would not have been transmitted by IO, including the below list of reference documents.

This Technical Specification takes precedence over the referenced documents. In case of conflicting information, this is the responsibility of the contractor to seek clarification from IO.

Upon notification of any revision of the applicable document transmitted officially to the contractor, the contractor shall advise within 4 weeks of any impact on the execution of the contract. Without any response after this period, no impact will be considered.

Ref	Title	IDM Doc ID	Version
1	General Management Specification for Service and Supply (GM3S)	82MXQK	1.4
2	ITER Procurement Quality Requirements	22MFG4	5.1
3	Procurement Requirements for Producing a Quality Plan	22MFMW	4.0
4	Software qualification policy	KTU8HH	2.0
5	SRD-55 (Diagnostics) from DOORS	28B39L	5.5
6	Procedure for Management of Nonconformities	22F53X	9.1
7	Procedure for the Usage of the ITER CAD Manual	2F6FTX	1.1
8	55.Q8 - System Design Description (DDD) for Eq#08	E6CNFY	1.3
9	55.Q8 - Load Spec(s) (SLS) for in-vessel/in-port components	WQFJA6	1.7
10	55.Q8 - Load Spec(s) (SLS) for ex-vessel components	WQFRX9	1.8
11	EDH Part 4: Electromagnetic Compatibility	4B523E	3.0
12	EDH Part 5: Earthing and Lightning Protection	4B7ZDG	3.0

4.2 Applicable Codes and Standards

No particular Codes and Standards are envisaged to be applied to execute the work on deliverables. Sound engineering practise shall be followed.

5 Scope of Work

This section defines the specific scope of work for the service, in addition to the contract execution requirement as defined in Ref [1].

The scope of work includes port integration, GDC integration, DMS integration and mechanical design activities performed in EQ#08 and EQ#17 Port Plugs, closure plate, Interspace and Port Cells areas.

5.1 Scope of work

5.1.1 Description

Port integration engineering development comprises

- DMS and diagnostics mechanical integration in EQ#8 and EQ#17;
- development of mechanical solutions of the port systems appropriate for DMS and diagnostic tenants integration;
- implementation of electrical services and their supporting structures ("bridges") for all port systems;
- integration of water and gas supply services.

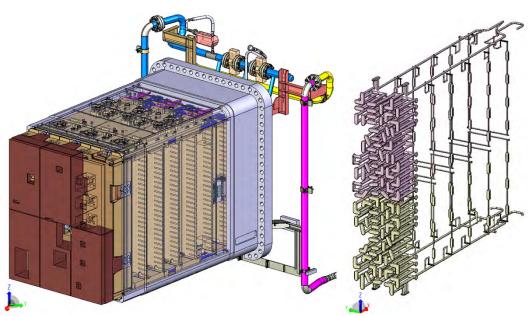


Figure 1. EP#08 Port Plug Assembly (on the left) (FDR level integration). Water cooling network (on the right) of the DSM-1 hosting DMS components.

The scope of the work is limited by EQ#08 and EQ#17. It comprises Port Plug (PP) (Fig.1), closure plate (not shown), Interspace and Port Cell areas (Fig.2), permanent and removable services connections (Fig.3) of both ports.

5.1.2 Introduction

Equatorial port #08 and 17# both consist of the Interspace Support Structure (ISS), Port Cell Support Structure (PCSS), Port Plug and all necessary services (cables, gas, vacuum) supported by specific structures. More details on both systems including list of tenants can be found in the respective Design Description Documents, Error! Reference source not found. and Error! Reference source not found.

FP configuration of EP#08 has been reviewed at FDR-1 meeting (2021 Q3). Integrated PP of EQ#08 is reviewed at the FDR-2 meeting (2024 Q2). FDR-1 and FDR-2 for EQ#17 are planned for 2025 Q2 and 2026 Q4 respectively.

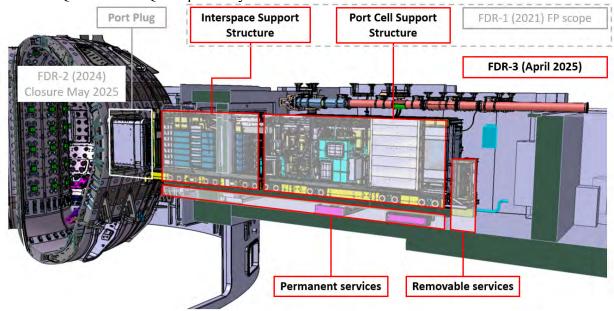


Figure 2. Main groups of EQ#08 components.

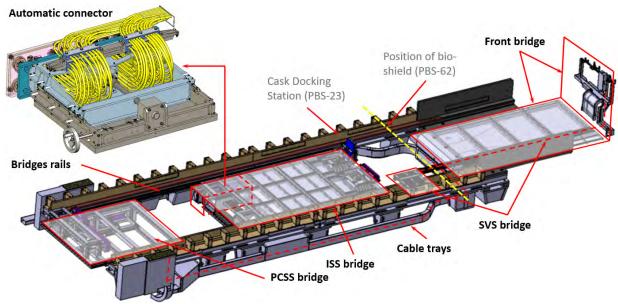


Figure 3. Services integration in EQ#08.

5.1.3 Mechanical integration

The objective is to advance port integration solutions including integration of DMS, GDC and diagnostics. The list of main activities expected to be performed is

- Providing recommendations and following up adaptation of tenants systems appropriate to the integration;
- Development of PP elements and integration solutions necessary for tenants integration:
 - o finding proper place for tenant systems and shielding trays and developing of the fixation elements appropriate for integration;
 - o suggest routing and service integration solution using standard solutions (clamps) for modular DSM structure;
 - o continuously support the interfaces up-to-date, especially the interface with DFW, LEVI, windows, tenants systems, etc.
 - o delivery of the relevant CAD models;
- Development of the closure plate elements and integration solutions :
 - o finding proper arrangement of the flanges appropriate for inspection and maintenance,
 - o support the development of services (SVS, cables), their routing and their integration,
 - o participation in the development of the connection bridge between closure plate and building,
 - o delivery of the relevant CAD models;
- Development of ISS and PCSS structural elements and integration solutions:
 - o finding proper place for tenant systems and shielding blocks, appropriate for inspection and maintenance,
 - o support the development of services, their routing and integration,
 - o participation in the development of the connection of the services between ISS and PCSS, between ISS and building, between PCSS and building,
 - o delivery of the relevant CAD models,
 - o Development of shielding blocks for ISS and PCSS
- To advance the design of removable electrical service bridges following interface development of key port cell interfaces (Port Cell rails, SVS, cables, etc):
 - o Front electrical bridge,
 - o ISS electrical bridge,
 - o PCSS electrical bridge,
 - o Identification of the space available for the bridge,
 - o Conceptualizing services, their routing and integration,
 - o Design of electrical junction boxes,
 - o Integration of COTS junction boxes,
 - o Contribute to the sizing of electrical connector,
 - o Contribute to the sizing of mounting plates with connector units,
 - o Delivery of the relevant CAD models,
- To advance the integration of permanent services:
 - o Fixation of permanent cables to port cell rails and/or port cell walls,
 - o Routing of permanent cable trays on the walls,
 - o Development of cable bypass from one side of the rails to another,

- o Development of the design solution of permanent cable routing feasible for cable installation,
- o Delivery of the relevant CAD models,
- Support the development of Service Vacuum System (SVS) pipes integration:
 - o Identification of the space available for the pipes and their connection rack,
 - o Suggestion of the scheme of SVS pipe ganging;
 - o Conceptualizing pipes routing and integration,
 - o Sizing of SVS connection rack,
 - o delivery of the relevant CAD models,
- Delivery of CAD models of integrated ports in preparation for
 - o Neutronics analysis,
 - o Maintenance, ORE and inspection assessments,
 - o HFE analysis,
 - o Design reviews (FDR),
 - o Integration reviews (DIR),
 - o Assistance to IO Port Integration RO to coordinate tenants integration,
- Support of maintenance operations development in the ISS and PCSS areas including area in between closure plate and ISS;
- Support of the development of human hazard and human occupational factor analysis;
- Launch CAD Data Exchange Transfer (DET) tasks following IO CAD rules;
- Support the IO port integration RO in launching and receiving CAD DET;

The integration of EP#08 and EP#17 shall comply with 55.Q8 and 55.QH requirements Error! Reference source not found., which includes defined requirements Error! Reference source not found..

5.1.4 Service Duration

See Section 8.

6 Location for Scope of Work Execution

Contractor can perform the work at their own location.

7 IO Documents

Under this scope of work, IO will deliver the required input data on demand.

8 List of deliverables and due dates

The Supplier shall provide IO with the documents and data required in the application of this technical specification, the GM3S Ref [1] and any other requirement derived from the application of the contract.

A minimum, but not limited to, list of documents is available hereafter with associated due dates:

Technical Design Family (TDF)	Generic Document Title (GTD)	Further Description	Expected date (T0+x) *
Review or Decision or Recommendations Report	Progress Report	To update the design of front electrical bridge (between electrical feedthrough of the closure plate and front interspace connector) of EQ#08 and EQ#17 up to FDR and FDR closure level. To define mechanical interfaces with port cell rails following port cell design update, closure plate and SVS bridge. To finalize the design of SVS bridge (between SVS connection at the closure plate and interfacing point of port cell SVS box) of EQ#17 up to FDR level.	T0 + 3 months
Review or Decision or Recommendations Report	Progress Report		
Review or Decision or Recommendations Report	Progress Report	To advance the design of PCSS electrical bridge of EQ#08 and EQ#17 (between PCSS connector and PCSS service connector) up to FDR and FDR closure level. To contribute to development of automatic electrical connectors integrated on the PCSS electrical bridge. To define mechanical interfaces with port cell rails and PCSS. To advance integration of EQ#17 PCSS to FDR level and EQ#08 PCSS up to FDR closure level. To advance water and gas services	T0 + 9 months

		connections between ISS, PCSS and building.	
Review or Decision or Recommendations Report	Progress Report	To update the integration of EQ#08 and EQ#17 port plugs following manufacturing feedback of EQ#12 and EQ#11. To update local details EQ#08 port plug following port plug supplier requests. To update ISS and PCSS of EQ#08 and EQ#17 following assembly workshops outcome.	T0 + 12 months

^(*) T0 = Commencement Date of the contract.

Supplier is requested to prepare their document schedule based on the above and using the template available in the GM3S Ref [1] appendix II (click here to download).

9 Quality Assurance requirements

The Quality class under this contract is 2, [Ref 1] GM3S section 7 applies in line with the defined Quality Class.

10 Safety requirements

The scope under this contract covers for PIC and/or PIA, for which [Ref 1] GM3S section 5.3 applies.

11 Specific General Management requirements

Requirement for [Ref 1] GM3S section 6 applies in full

11.1 Contract Gates

The contract gates are defined in [Ref 1] section 6.1.5, this scope of service call for the following technical gates:

- KOM meeting
- FDR-1 closure for EQ#17
- FDR-2 for EQ#17
- FDR-3 closure for EQ#08
- Close-out

11.2 Work Monitoring

Progress will be assessed during progress meetings and reviewing technical calculations and technical reports.

11.3 Meeting Schedule

[Ref 1] section 6.1.6 applies.

11.4 CAD design requirements

This contract requires for CAD activities, [Ref 1] GM3S section 6.2.2.2 applies"

11.5 Specific skills

The following competences are necessary for the successful performing of the task:

- Working with CATIA V5,
- Experience in mechanical integration of sophisticated equipment and integration coordination activity,
- Experience in nuclear engineering design (equipment to be maintained, maintenance tools, handling) of nuclear/fusion facilities,
- Experience to integrate the system in the environment where ergonomics plays an important role,
- Experience in the design of electrical supporting structures,
- Experience in the vacuum pipework,
- Experience in the design of shielding blocks in nuclear/fusion facilities,
- Experience in services routing (in cables trays, in braided mesh, etc) including design and integration of electrical junction box and integration of electrical plugs/connectors,
- Experience in water network design based on gun-drilling and plug welding manufacturing technique in nuclear/fusion facilities,
- Experience in Remote Handling/maintenance,
- Experience in application of French Nuclear Safety regulations,
- Reading of schematics,
- Design organization.

12 Appendices

None

Expression of Interest

To be returned by e-mail to: alessia.donato@iter.org copy amankumar.joshi@iter.org before 12 June 2025

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TENDER No.	IO/25/CFE/10032206/A	DO		
TENDER Title:	CFE - Mechanical Eng towards FDRs and FD		atorial ports #0	8 and #17
Officer in charge:	Alessia Donato – ITER HQ Building 81/1		& Contracts	Division,
(In event of missing We intend to sult	e receipt of all tender documents, contact the I omit a tender			
Name:		Tel:		
Position:		E-mail address:		
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