+Call for Expertise: エキスパート募集

IO References: IO/25/CFE/10031053/CPT

“Engineering Documentation Expert for 55.GE "

（55.GE のためのエンジニアリング文書化エキスパート）

IO 締め切り 2025 年 2 月 21 日(金)

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

ITER 機構の下記担当者宛に電子メールにて送付：

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〇はじめに

この事前情報通知（PIN）のは、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。

〇背景

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。

〇作業範囲

「55.GE のためのエンジニアリング文書化エキスパート」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 CVA9QM_v2.2 (本 PIN 文書の附則 I)を参照下さい。

〇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。

  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。

〇概略日程

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 事前指示書（PIN）の発行	2025 年 2 月 6 日
関心表明フォームの提出	2025 年 2 月 21 日
IPROC での提案リクエスト（REP）の発行	2025 年 3 月 3 日
IPROC で入札提出	2025 年 3 月 17 日
入札評価と契約授与	2025 年 4 月初旬
契約調印	2025 年 4 月中旬
契約開始	2025 年 5 月

〇契約期間

予想される契約期間は、11 か月です。

〇経験

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)。

〇候補

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。

指名されたコンソーシアムのリーダーは、入札段階でのカバーレター(入札への招待)で、コンソーシアムのメンバーの構成を説明する予定です。その後、候補者の構成は、いかなる変更もITER機構に通知することなく変更してはなりません。かかる認可の証拠は、すべてのコンソーシアムメンバーの法的に授権された署名者が署名した委任状の形式で、しかるべき時期にIOに提出しなければなりません。

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「**Engineering Documentation Expert for 55.GE**」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/10031053/CPT

Engineering Documentation Expert for 55.GE

Procurement Officer in charge:

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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 "**Engineering Documentation Expert for 55.GE**" is to procure the provision of services described in the Technical Specifications, ref. **CVA9QM_v2.2 (ANNEX I in 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 calendar 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 "IPROC", if not so done yet. The process on how to do is described at the following link: https://www.iter.org/fr/proc/overview.

When registering in Ariba (IPROC), 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 "IPROC". 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 (given in section 5).
- Step 4 – Contract Award
  The award will be done on the basis of best value for money or lowest price technically compliant offer 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	6 February 2025
Deadline for Submission of expression of interest form	21 February 2025
Request for Proposals (RFP) publishing on IPROC	3 March 2025
Tender Submission in IPROC	17 March 2025
Tender Evaluation & Contract Award	Early April 2025
Contract Signature	Mid-April 2025
Contract Commencement	May 2025

6 Contract Duration and Execution

The estimated contract duration shall be 11 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 IPROC.

9 Sub-contracting Rules

No subcontracting is allowed for this package.

IDM UID
CVA9QM

VERSION CREATED ON / VERSION / STATUS
05 Feb 2025 / 2.2 / Approved

EXTERNAL REFERENCE / VERSION

Technical Specifications (In-Cash Procurement)

CFE - Engineering Documentation Expert for 55.GE

The purpose of this contract is to provide ITER diagnostics specialized documentation engineer for the 55.GE Boundary Imaging System (BIS).

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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 Boundary Imaging System (BIS) is an optical diagnostic system under scope of the ITER Organization, located in Equatorial Port 8 (EP8) and has an approximate 23º (H) x 30º (V) field of view (FoV) covering the Divertor, part of the Central Solenoid and the outer wall of ITER machine. The optical signal collected by the BIS in-vessel optics (in port-plug, two mirror boxes) is carried via the ex-vessel optics (two mirror boxes located in the ISS, one in the PCSS area, two on the Port-Cell ceilling) from EP8 through the Galleries to Diagnostic Building (B74) for signal analysis and processing. In B74, BIS has three mirror boxes, optical ducts and an optical table with equipment. The overall diagnostic is depicted in Figure 1.

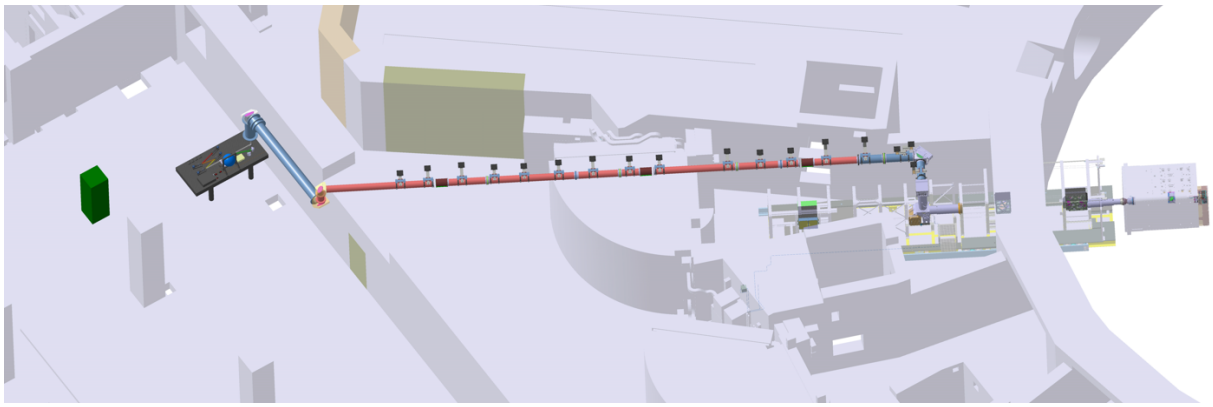

Figure 1. Overview of the preliminary design of the BIS – for illustration only.

The primary function of the BIS is to deliver real-time measurements of ELM bursts and L-H D-Alpha steps occurring in the divertor region. Additionally, the BIS provides an interface at the back end of the main optical path (i.e. at the optical table level) for an optical fiber bundle to enable the measurements of the ratio of hydrogenic isotopes in the divertor. The BIS is in the final design stage.

The BIS had a PDR#1 covering in-vessel, ISS and PCSS components in November 2022 and a PDR#2 covering components in B74, galleries and port-cell ceiling in December 2023.

The Contractor shall be deployed on engineering activities and associated documentation preparation for the Final Design Review of diagnostic system 55.GE Boundary Imaging System (BIS). The scope of work includes drafting of engineering documentation of 55.GE with associated engineering demonstrations, calculations or integration activities (no design activities are anticipated) as per work scope and deliverables below.

The work will be performed in coordination with the IO- Responsible Officer (IO-RO) of this system to ensure the timely delivery and installation of the system.

The Contractor shall allocate engineering resource with experience in the system engineering of complex scientific instrumentations, in particular optical diagnostic systems, for large scientific and/or nuclear facilities.

3 Acronyms & Definitions

3.1 Acronyms

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

Abbreviation	Description
BIS	Boundary Imaging System (55.GE)
CMM	Configuration Management Model
DIR	Design Integration Review
ELM	Edge Localized Modes
FDR	Final Design Review
FMECA	Failure Mode Effects and Criticality Analysis
GM3S	General Management Specification for Service and Supply
IO	ITER Organization
MAM	Model Approval Meeting
PDR	Preliminary Design Review
PRO	Procurement Responsible Officer
RAMI	Reliability, Availability, Maintainability and Inspectability
RO	Responsible Officer

For a complete list of ITER abbreviations see: ITER Abbreviations (ITER_D_2MU6W5).

3.2 Definitions

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

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	System Design Description (DDD) 55.GE Boundary Imaging System	UKUTBA	2.1
3	55.GE - Functional Analysis Report	WURGRZ	2.1
4	55.GE - RAMI Analysis Report	WUNKB5	2.3
5	55.GE Maintenance Test & Inspection Plan	6ECU68	1.4
6	Manufacturability Assessment	6ECZ9Y	2.0
7	Factory Qualification Test Plan	6EDB9F	1.1
8	55.GE - On site Assembly Plan	WUNPQX	2.4
9	55.E6 - Design Description of the in-Port and ISS/PCSS opto-mechanical components	4RGPQR	3.4

4.2 Applicable Codes and Standards

This is the responsibility of the Contractor to procure the relevant Codes and Standards applicable to the scope of work.

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].

5.1 Definition of Activities

5.1.1 Diagnostic Engineering and technical documentation

The main role of the contractor shall be to provide engineering inputs and then update and/or create engineering documentation listed below in view of the FDR of 55.GE BIS. Documentation to be updated and/or created by the contractor under supervision of the IO RO are grouped in dedicated work packages, themselves part of deliverables listed in Section 8.

Fo the overall project planning, it is to be noted that the in- & ex-vessel FDR for 55.GE BIS will be held separately in order to support early delivery of in-vessel components, thus resulting in the need to create documents version for in-vessel scope first, and to update them for ex-vessel scope later during the contract execution. This situation is reflected in the list of work packages and associated due dates.

To ease the estimate of work, a distinction is made below between documents already produced for PDR and requiring an update (U), documents to be created (no previous version, (C)) and documents requiring a partial update or creation, e.g. where the IO-RO is expected to contribute to its completion in collaboration with the contractor (PU) / (PC). Reference to existing documents or examples from equivalent systems are provided.

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Work Package 1: System Description covering in-vessel FDR

- 1x System Design Description Document (PU) [2] https://user.iter.org/default.aspx?uid=UKUTBA
- 1x Functional Analysis Report (U) [3] https://user.iter.org/?uid=WURGRZ
- 1x RAMI Analysis Report (U) [4] https://user.iter.org/default.aspx?uid=WUNKB5

Work Package 2: Technical Description covering in-vessel FDR

- 1x Technical Description of Port-Plug components (C), example from 55.E6 FDR: [9] https://user.iter.org/?uid=4RGPQR
- 1x Maintenance, Test and Inspection Plan (U) [5] https://user.iter.org/?uid=6ECU68

Work Package 3: Manufacturability covering in-vessel FDR

- 1x Manufacturability assessment (U) [6] https://user.iter.org/default.aspx?uid=6ECZ9Y
- 1x Prototype Test Plan and Report (U) [7] https://user.iter.org/default.aspx?uid=6EDB9F

Work Package 4: Assembly for full scope FDR

- 1x Assembly Plan (U) [8] https://user.iter.org/default.aspx?uid=WUNPQX

Work Package 5: System Description updates covering ex-vessel FDR

- 1x System Design Description Document (PU) [2] https://user.iter.org/default.aspx?uid=UKUTBA
- 1x Functional Analysis Report (U) [3] https://user.iter.org/?uid=WURGRZ
- 1x RAMI Analysis Report (U) [4] https://user.iter.org/default.aspx?uid=WUNKB5

Work Package 6: Technical Description covering ex-vessel FDR

- 2x Technical Description of sub-components: ex-vessel Port-Cell components and Galleries & B74 components (C), example from 55.E6 FDR: [9] https://user.iter.org/?uid=4RGPQR
- 1x Maintenance, Test and Inspection Plan (U) [5] https://user.iter.org/?uid=6ECU68

Work Package 7: Manufacturability updates covering ex-vessel FDR

- 1x Manufacturability assessment (U) [6] https://user.iter.org/default.aspx?uid=6ECZ9Y
- 1x Prototype Test Plan and Report (U) [7] https://user.iter.org/default.aspx?uid=6EDB9F

As part of the proper execution of the main activity listed above, the contractor is expected to:

- Actively participate in technical meetings with the BIS design team at IO.
- Ensure alignment between the produced documentation and the BIS design development.
- Identify issues and propose solutions for the successful design of diagnostic components on ITER.
- Verify the maintainability of diagnostic systems with a focus on safety considerations.
- Assess the assembly sequence of mechanical components.
- Provide technical inputs to the Responsible Officer (RO) for gate reviews and closure of chits related to produced documentation during execution of the contract.

5.1.2 Requirements

These activities require expertise in mechanical and specialised engineering for the diagnostic-specific design, manufacturing and installation of large diagnostic components in a nuclear facility.

In particular, the candidate shall possess high-level expertise with mechanical and specialised engineering of optical diagnostic systems in nuclear facilities, covering design and construction processes.

Further, the candidate is expected to have created or contributed to documentation covering RAMI analysis and methodology, Functional Analysis and FMECA as well as manufacturing, inspection and testing procedures. As such, the candidate shall be experienced with reliability software such as BlockSim or equivalent.

At last, the candidate shall be experienced working in a multi-national, multi-lingual environment and be fluent in written and spoken English

5.2 Service Duration

The duration shall be of 11 months from the starting date of the contract.

6 Location for Scope of Work Execution

The Contractor can perform the work at its own location.

7 IO Documents

Relevant input documents will be specified and provided during the execution of the work.

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:

Deliverable #	Technical Design Family (TDF)	Generic Document Title (GTD)	Description	Expected Date (T0 + X)**
D#01	Review or Decision or Recommendations Report	55.GE documentation – WP1	Creation and/or update of documents listed in WP1, approved in IDM*	3 months
D#02	Review or Decision or Recommendations Report	55.GE documentation – WP2	Creation and/or update of documents listed in WP2, approved in IDM *	5 months
D#03	Review or Decision or	55.GE documentation – WP3	Creation and/or update of documents listed in WP3, approved in IDM*	6 months

	Recommendations Report			
D#04	Review or Decision or Recommendations Report	55.GE documentation – WP4	Creation and/or update of documents listed in WP4, approved in IDM*	7 months
D#05	Review or Decision or Recommendations Report	55.GE documentation – WP5	Creation and/or update of documents listed in WP5, approved in IDM*	8 months
D#06	Review or Decision or Recommendations Report	55.GE documentation – WP6	Creation and/or update of documents listed in WP6, approved in IDM*	10 months
D#07	Review or Decision or Recommendations Report	55.GE documentation – WP7	Creation and/or update of documents listed in WP7, approved in IDM*	11 months

(*) If the document is not approved on IDM due to design choices, issues or missing justifications that are not covered in the scope of this contract, the deliverable can be accepted following agreement with the IO-RO;

(**) T0 = Starting date of the contract; X in months.

The Contractor 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 QC-2 [Ref 1] GM3S section 8 applies in line with the defined Quality Class.

10 Safety requirements

No specific safety requirement related to PIC and/or PIA and/or PE/NPE components apply.

11 Specific General Management requirements

Requirement for [Ref 1] GM3S section 6 applies.

Expression of Interest

To be returned by e-mail to: chloe.perret@iter.org copy amankumar.joshi@iter.org
before 21 February 2025, 17.00 CET

ITER Organization / ITER Headquarters
Procurement & Contracts Division
Route de Vinon-sur-Verdon
CS 90 046
13067 St. Paul Lez Durance Cedex
France

TENDER No. **IO/25/CFE/10031053/CPT**

TENDER Title: **Engineering Documentation Expert for 55.GE**

Officer in charge: **Chloé PERRET– EXT - Procurement & Contracts Division ITER**

☐ We acknowledge receipt of all tender documents for the above mentioned tender.
(In event of missing documents, contact the ITER Officer in charge)

☐ We intend to submit a tender

Contact Person for this solicitation Process:

Name: ..... Tel: .....

Position: ..... E-mail address: .....

Signatory Name: .....

Company Stamp

Title: .....

Signature: .....

Date: .....