

+Call for Expertise: エキスパート募集

IO References: IO/26/CFE/10034777/NRE

"Field Line Tracing (FLT) and Heat Load Mapping (HLM) analysis"

(フィールドライントレースと熱負荷マッピング解析)

IO 締め切り 2026 年 4 月 20 日(月)

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

この「フィールドライントレースと熱負荷マッピング解析」と題した本契約の目的は、技術仕様書にの FCGD3H v 1.0 (本 PIN 文書の附則 II) に記載されたサービスの提供を調達することです。

○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。

○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	2026 年 4 月 3 日
関心表明フォームの提出	2026 年 4 月 20 日
IPROC での提案リクエスト (REP) の発行	2026 年 4 月 24 日
IPROC で入札提出	2026 年 5 月 15 日
入札評価と契約授与見込み日	2026 年 6 月

○契約期間

予想される契約期間は、2026 年 6 月から 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。

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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「**Field Line Tracing (FLT) and Heat Load Mapping (HLM) analysis**」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。



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PRIOR INDICATIVE NOTICE (PIN)

CALL FOR EXPERTISE SUMMARY

IO/26/CFE/10034777/NRE

for

Field Line Tracing (FLT) and Heat Load Mapping (HLM) analysis

Abstract

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

1 Introduction

This Prior Indicative 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 Work

The purpose of this Contract titled “**Field Line Tracing (FLT) and Heat Load Mapping (HLM) analysis**” is to procure the provision of services described in the Technical Specifications, ref. **FCGD3H v 1.0** (ANNEX II in this PIN document).

4 Procurement Process & Objective

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

The Procurement Procedure selected for this tender is called the **Open Tender** procedure.

The Open Tender 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 Suppliers to indicate their interest in the competitive process by returning to the Procurement officer in charge the attached “Expression of Interest and PIN Acknowledgement” by the date indicated under the procurement timetable.

Special attention:

Interested tenderers are kindly requested to register in the IO Ariba e-procurement tool called “IPROC”. You can find all links to proceed along with instruction going to: <https://www.iter.org/fr/proc/overview>.

When registering in Ariba (IPROC), suppliers are kindly requested to nominate 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 - Invitation to Tender

After the deadline of expression of interest (as shown in the Procurement Time table) following the publication of the PIN, the Request for Proposals (RFP) will be published on our digital tool “IPROC”. This stage allows interested bidders 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 or lowest price technically compliant offer according to the evaluation criteria and methodology described in the RFP.

5 Procurement Timetable

The **tentative** timetable is as follows:

Milestone	Date
Publication of the Prior Indicative Notice (PIN)	03 April 2026
Submission of expression of interest form	20 April 2026
Tender launching on iPROC	24 April 2026
Tender Submission	15 May 2026
Indicative Contract Award & signature	June 2026

6 Contract Duration and Execution

The contract duration is estimated for 12 months from June 2026.

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 an individual, company, or organization that has legal rights and obligations and is established within an ITER Member State, 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.

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.

All consortium members shall be registered in IPROC.

9 Sub-contracting Rules

All sub-contractors who will be taken on by the Contractor shall be declared with the tender submission in IPROC. Each sub-contractor will be required to complete and sign forms including technical and administrative information which shall be submitted to the IO by the tenderer as part of its tender.

All declared sub-contractors must be established within an ITER Member State in order to participate.

The IO reserves the right to approve (or disapprove) any sub-contractor which was not notified in the tender and request a copy of the sub-contracting agreement between the tenderer and its subcontractor(s). Rules on sub-contracting are indicated in the RFP itself.



IDM UID

FCGD3H

VERSION CREATED ON / VERSION / STATUS

26 Mar 2026 / 1.1 / Approved

EXTERNAL REFERENCE / VERSION

Technical Specifications (In-Cash Procurement)

Technical specification for Field Line Tracing (FLT) analysis

This document specifies the requirements for critical external support required on Field Line Tracing (FLT) and Heat Load Mapping (HLM) analysis, for the IO Blanket (BKT) project. FLT-HLM analysis are extensively used at IO in support of First Wall (FW) and Temporary First Wall (TFW) design development, including manufacturing simplifications to accelerate series production.

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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) [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

This document specifies the requirements for critical external support required on *Field Line Tracing* (FLT) and *Heat Load Mapping* (HLM) analysis, for the IO Blanket (BKT) project.

FLT-HLM analysis are extensively used at IO in support of *First Wall* (FW) and *Temporary First Wall* (TFW) design development, including manufacturing simplifications to accelerate series production.

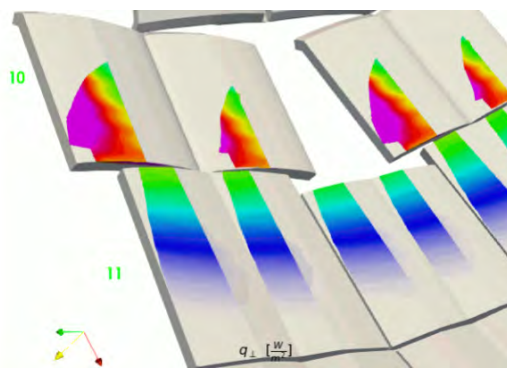


Figure 1: Illustration of FLT-HLM on ITER outboard FW panels showing thermally loaded surfaces during operation

The service shall cover the following engineering activities:

- Maintain and further optimize the in-house FLT-HLM code package (L2G-YAFLT) in use at IO, within the limits defined in *Section 6*,
- Provide user support to ITER BKT staff performing analysis for the FW and TFW *Final Design Reviews* (FDR) to be held in 2026,
- Perform FLT-HLM analysis to assess urgent design deviations, upon request, within the limits defined in *Section 6*.

3 Acronyms & Definitions

3.1 Acronyms

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

Abbreviation	Description
BKT	Blanket
CAD	Computer Aided Design
CRO	Contract Responsible Officer
FDR	Final Design Review
FLT	Field Line Tracing
FW	First Wall
HLM	Heat Load Mapping

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IO	ITER Organization
PRO	Procurement Responsible Officer
TFW	Temporary First Wall
TRO	Technical Responsible Officer
W	Tungsten

3.2 Definitions

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

4 Supplier qualification

The contractor shall demonstrate the following capabilities:

1. Capability to perform FLT-HLM analysis and/or proven experience in other plasma engineering modelling (shaping study of plasma-facing components, plasma-wall interactions);
2. Capability to read CAD models and to convert CAD models into meshes for FLT-HLM analysis, by keeping the relevant geometrical data (typically component front surfaces and edges);
3. Capability to understand plasma load specifications defined by the IO Science Division and BKT team;
4. Experience in developing software projects using multiple programming languages (Python, C++), to deploy them on Linux and/or Microsoft platforms, and to use version control system (e.g. Git);
5. Capability to maintain code documentation and tutorials, and train users;
6. Evidence of availability to meet the required schedule immediately after the contract signature, and provision of the detailed resource schedule in line with the technical specifications.
7. Evidence of autonomy to execute the required scope of work.

The capabilities shall be demonstrated by evidence of similar tasks performed in the past 3 years.

5 Applicable Documents & Codes and standards**5.1 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 ID	Version
1	General Management Specification for Service and Supply (GM3S)	82MXQK	1.4
2	Quality Classification Determination	24VQES	6.0
3	Quality Requirements for IO Performers	22MFG4	6.4

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5.2 Applicable Codes and Standards

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

Ref	Title	Ref.
CS1	Expected to apply standard coding practises, see for instance: Google code styles, KISS and DRY	https://google.github.io/styleguide/

6 Scope of Work, Duration of tasks and Acceptance Criteria

This section defines the specific scope of work for the service, in addition to the contract execution requirement as defined in Ref [1]. The service is governed by deliverables associated to due dates, defined in *Section 9*.

The IO Technical Responsible Officer (TRO) is the single-point interface for this contract.

Scope of work	Description	Maximum expected duration for this activity:
Task #01	<ul style="list-style-type: none"> ▪ Provide user support to BKT staff using the FLT-HLM code package in use at IO. ▪ Train new users (maximum two). ▪ Maintain the code documentation and tutorial cases over this period. <p>The task is considered completed when: tutorial and code documentation are approved by IO, and user support tickets are closed (within a maximum of 24 tickets over the period, i.e. 2 per week in average).</p>	4 months
Task #02	<ul style="list-style-type: none"> ▪ Perform FLT-HLM analysis in support of design verification based on ITER_D_9PSPKZ, v3.2 [I2] for: <ul style="list-style-type: none"> - FW#14-15 rows, including design simplifications (chamfers) and the assessment of long-wave misalignment - FW#15-16 shinethrough variants - Final TFW design ▪ Perform custom studies for manufacturing simplifications, upon request (maximum 2 analysis) <p>The task is considered completed when: meshes are prepared by the contractor and integrated into the IO FLT mesh database, analysis results are provided to IO and the compilation of data validated by the TRO (compilation of results can be provided using a simple PowerPoint reporting format), all analysis input/output files shall be grouped in a zip file for archive in the IO analysis Model database on IDM.</p>	4 months

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Task #03	<ul style="list-style-type: none"> ▪ Maintain the FLT code package L2G-YAFLT in use at IO. Test and benchmark new required features <p><i>A tentative list of upgrades is provided below, but can be subjected to modifications depending on project needs (after agreement between the contractor and IO TRO, for the same volume of work):</i></p> <ul style="list-style-type: none"> - Development of post-processing workflows allowing the integral of key quantities on meshes (e.g. power or energies). - Magnetic field generator: analysis module offering the capability to perform simple sensitivity analysis function of ‘artificial’ plasma equilibria (i.e. not imported from IO IMAS), and allowing to vary parameters such as: field line pitch angle, plasma radius, plasma curvature, plasma contact point on the wall, long-wave alignment. <p>The task is considered completed when: a new python module is accepted, via the approval of a test report by IO, and the new code version is released on GitHub with accompanying documentation and tutorial.</p>	4 months
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The following tasks are **not included** in the scope of work of this contract:

- Peer review of FLT analysis reports,
- FLT-HLM in support of IO synthetic diagnostic,
- L2G-YAFLT coupling with IO IMAS,
- Development of python modules for thermal analysis.

7 Location for Scope of Work Execution

Contractor can perform the work at its own location.

8 IO Documents and Inputs

Under the scope of work defined in *Section 6*, IO will deliver the following inputs by the stated date:

Ref	Title	Doc ID	Expected date
I1	Procedure for Analyses and Calculations	22MAL7, v6.8	At tender stage
I2	Plasma heat load specifications for Tungsten First Wall panels (SRO and DT phases)	9PSPKZ, v3.2	At tender stage
I3	The two software libraries developed at ITER: <ul style="list-style-type: none"> • https://git.iter.org/projects/TRAJ/repos/yafit • https://git.iter.org/projects/TRAJ/repos/l2g 	GIP submitted in June 2025	Open access, available at tender stage
I4	Required CAD models (step files)	-	At Task#02 kick-off
I5	Access to IO IMAS and IO SDCC analysis server	-	At the contract kick-off

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9 Service duration, List of deliverables and Due dates

The contract is foreseen for **12 months** duration as constrained by the deliverables table as defined below.

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.

All communications between IO and Contractor will be in English language and all measures will be given in the metric system SI.

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

Generic Document Title (GTD)	Scope of work and Acceptance criteria	Expected date (T0+x) *
Deliverable 1	Completion of Task #01	T0 + 4 months
Deliverable 2	Completion of Task #02	T0 + 8 months
Deliverable 3	Completion of Task #03	T0 + 12 months

(*) T0 = Commencement Date of the contract ; X in months.

Supplier is requested to prepare document schedule based on the above.

The Deliverables will be developed in conjunction with the IO responsible officer. The order of Deliverables may be updated and the decision recorded during progress meetings. Any change in the sequence of deliverables shall be also traced in the impacted Deliverable on IDM and signed off by the TRO and CRO.

All reports shall clearly list the tasks on which the contractor has contributed. Each task should be substantiated by IDM links, or closed 'user support' tickets, allowing the full traceability of activities performed for each of the deliverables.

Each deliverable will be submitted to the IO approval. If no remark is made by the IO within 15 days after reception, the document will be implicitly considered as accepted.

10 Responsibilities

(1) The contractor shall be responsible for the implementation and coordination of all activities required to support all sub-tasks, ensuring suitably qualified staff are available to complete tasks in the proposed timescales.

(2) IO shall be responsible for technical input and technical support for all scopes identified. This includes the delivery of CAD models (in CATIA format), the access to the IO IMAS database, and calculation rules and inputs.

11 Quality Assurance requirements

The FW, including all its part and materials, is assigned a Quality Class 1 according to Ref [2].

At the tender stage, potential suppliers must submit a provisional Quality Plan [3], giving details of the quality organization and how they will address the requirements of the contract.

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After signature of the contract, the supplier (and its subcontractors, if any) must submit a final Quality Plan to the IO for approval. The supplier shall ensure that supplier and subcontractors do not start any activity without a Quality Plan in place that has been approved by the IO.

Standard coding practises shall apply to the requested activities, as for instance Google code styles, KISS and DRY.

Should any question whatever arise with respect to this specification, the Contractor shall ask the IO for clarification prior to proceeding with the work.

Documentation developed as the result of this task shall not be retained by the Contractor after the completion of this program, all required data and reports shall be delivered to IO before the contract end date.

12 Safety requirements

If the scope under this contract covers for PIC and/or PIA and/or PE/NPE components, [Ref 1] GM3S section 5.3 applies.

12.1 Nuclear class Safety

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

12.2 Seismic class

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

13 Specific General Management requirements

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

13.1 Contract Gates

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

- Kick-off meeting
- Progress meeting (Deliverable 1)
- Progress meeting (Deliverable 2)
- Close-out meeting (Deliverable 3 and closure contract)

13.2 Work Monitoring

The work will be managed by means of Contract Gate Meetings listed in *Section 13.1*, and formal exchange of documents transmitted by emails, or via suitable team collaboration tools, to allow monitoring the progress.

The tasks are monitored by the IO Technical Responsible Officer (TRO). The IO TRO will also perform the evaluation of the reports.

13.3 Meeting Schedule

Progress Meetings will be called by the ITER Organization or the Contractor to review the progress of the work, as per the list of contract gates defined in *Section 13.1*.

SERVICE

In addition to the Contract Gate and Progress Meetings, the ITER Organization and/or the Contractor may request additional meetings to address specific issues to be resolved. It is expected that complementary technical meetings will be held frequently (generally weekly).

13.4 CAD design requirements

This contract does not imply CAD activities. The TRO will provide the required CAD data to be used as input for analysis (CATIA step files).

14 Appendices

N/A.

ANNEX I

EXPRESSION OF INTEREST & PIN ACKNOWLEDGEMENT

To be returned by e-mail to: Nicolas.reese@iter.org

TENDER No. **IO/26/OT/ 10034777 /NRE**

DESIGNATION of SERVICES: **Field Line Tracing (FLT) and Heat Load Mapping (HLM) analysis**

OFFICER IN CHARGE: **Nicolas Reese – Procurement Division ITER Organization**

WE ACKNOWLEDGE HAVING READ THE PIN NOTICE FOR THE ABOVE MENTIONED TENDER

WE INTEND TO SUBMIT A TENDER

Name of candidate company: *[please fill in]*

Country of registration: *[please fill in]*

Point of contact name, email, title, and phone number: *[please fill in]*

Are you registered in Iproc (only entities registered in Iproc will be invited to tender):

YES

NO, but we shall register before the tender launch

.....
Signature:

COMPANY STAMP

Name:

Position:

Tel:

E-mail

Date: