

+Call for Expertise: エキスパート募集

IO References: IO/26/CFE/10035235/CPT

"55.GG - Engineering support for FDR-level system development "

(55.GE-FDR レベルのシステム開発に対するエンジニアリング支援)

IO 締め切り 2026 年 7 月 6 日(月) (応募書類は ITER 機構へ直接提出のこと)

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) 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。

○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

「55.GE-FDR レベルのシステム開発に対するエンジニアリング支援」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 G3VX75_v1.3 (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。

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 6 月 26 日
関心表明フォームの提出	2026 年 7 月 6 日
IPROC での提案リクエスト (REP) の発行	2026 年 7 月 10 日
IPROC で入札提出	2026 年 7 月 31 日
入札評価と契約授与	2026 年 8 月中旬
契約調印	2026 年 8 月下旬
契約開始	2026 年 9 月

○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。

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「**55.GG - Engineering support for FDR-level system development**」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/26/CFE/10035235/CPT

55.GG - Engineering support for FDR-level system development

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 "**55.GG - Engineering support for FDR-level system development**" is to procure the provision of services described in the Technical Specifications, ref. **G3VX75_v1.3 (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	26 June 2026
Deadline for Submission of expression of interest form	6 Jul 2026
Request for Proposals (RFP) publishing on IPROC	10 Jul 2026
Tender Submission in IPROC	31 Jul 2026
Tender Evaluation & Contract Award	Mid Aug 2026
Contract Signature	End Aug 2026
Contract Commencement	Sept 2026

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 IPROC.

9 Sub-contracting Rules

No subcontracting is allowed for this package.

Technical Specifications (In-Cash Procurement)

**55.GG - Technical specification - Engineering support for
FDR-level system development**

55.GG - Technical specification - Engineering support for FDR-level system development

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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

This specification is for engineering support in the design and development of 55.GG Calorimetry up to FDR level, and support in organisation and closure of the FDR.

The activities include creation and update of documentation, coding, and analysis work.

These activities are relevant for pre-FDR and FDR-level work.

3 Acronyms & Definitions

3.1 Acronyms

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

Abbreviation	Description
CODAC	Control, Data Access and Communication
CRO	Contract Responsible Officer
FDR	Final Design Review
GM3S	General Management Specification for Service and Supply
HMI	Human-Machine Interface
IDP	Input Document Package
IO	ITER Organization
KoM	Kick off Meeting
MoM	Minutes of Meeting
PDR	Preliminary Design Review
PRO	Procurement Responsible Officer
SoW	Scope of Work

3.2 Definitions

55.GG Calorimetry is a software-based system for the measurement of a fusion energy pulse, described in more detail at [2]

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

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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.GG Calorimetry	UVM7XN	1.1
3	55.GT - System Design Specification (SDS)	7W5HGK	2.3
4	Design Review Procedure	2832CF	7.0

4.2 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	Doc Ref.	Version
CS1	ISO/IEC 5055	N/A	2021

5 Scope of Work

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

Four scopes of work are expected to be realised under this contract:

1. Creation of FDR level documentation
2. Creation and update of the system code
3. Support to FDR organisation
4. Support to chits closure and post-FDR documentation update

The scopes are intertwined, and some activities from different scopes are mutually dependent. An order of the tasks execution is given at the deliverables table.

5.1 Scope of work #1: Creation of FDR level documentation

5.1.1 Description

The Contractor shall update or create the documentation necessary to successfully launch and complete the FDR of 55.GG. This includes also development of inputs for an update of 55.GT documentation relevant for the interface with 55.GG.

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The expected documentation to be processed is listed in the table below. The Contractor shall consider in their offer the expected workload according to the approximate complexity categories A (simple – 1 working day), B (medium – 3 working days), C (complex – 5 working days), as indicated in the table.

Document	IDM link	Category	Deliverable
55.GG Calorimetry ConOps	https://user.iter.org/default.aspx?uid=G2NFJ6	C	D1
55.GG - Algorithm description	https://user.iter.org/default.aspx?uid=G2NECZ	B	
System Design Description (DDD) 55.GG Calorimetry	https://user.iter.org/default.aspx?uid=UVM7XN	B	
55.GT - System Design Specification (SDS)	https://user.iter.org/default.aspx?uid=7W5HGK	B	
55.GG - Selection of scenarios for the system testing	https://user.iter.org/default.aspx?uid=9D8N2K	A	D2
55.GG - List of the sensors used by 55.GG Calorimetry	https://user.iter.org/default.aspx?uid=BXQ7YM	C	
55.GG - Instrumentation and Control - List of Signals	https://user.iter.org/default.aspx?uid=G9RD8E	B	
55.GG - Estimation of energy fluxes analysed by calorimetry	https://user.iter.org/default.aspx?uid=EWWGJ4	B	
55.GG - Assessment of the expected system accuracy	https://user.iter.org/default.aspx?uid=8MG9EE	B	D3
55.GT - Functional Analysis Report	https://user.iter.org/default.aspx?uid=VCLZEW	A	
55.GG - System Detailed Performance Definition-SDPD	https://user.iter.org/default.aspx?uid=G9RMFT	A	
55.GG - Qualification Plan	https://user.iter.org/default.aspx?uid=G9RMM2	B	
55.GG - Acceptance Plan	https://user.iter.org/default.aspx?uid=G9RNWU	A	
55.GG - System Commissioning Plan	https://user.iter.org/default.aspx?uid=G9S332	B	D4

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55.GG - Commissioning Test Procedure	https://user.iter.org/default.aspx?uid=G9SGNZ	B	
55.GG - Concept of HMI	https://user.iter.org/default.aspx?uid=G9UBNJ	B	
55.GG - Operation and Maintenance Manual	https://user.iter.org/default.aspx?uid=G9UCYV	B	
55.GG - Human and Organisational Factor Analysis (HOF)	https://user.iter.org/default.aspx?uid=G9ULA2	A	

The Contractor shall update the existing documents to reflect the current status of the project (including revision of the list of sensors belonging to the interacting systems) and the development level of 55.GG.

For the documents which do not exist following the PDR stage, the Contract shall develop these documents according to the FDR level maturity requirements, or produce justifications for not including them in the DR.

All the documentation developed under this, and other SoWs shall follow the relevant IO templates.

5.1.2 Service Duration

The maximum expected duration for this activity is 8 months.

5.2 Scope of work #2 Creation and update of the system code

5.2.1 Description

The Contractor shall develop the system code to the level allowing for its operation using a rudimentary HMI, with the real data transferred from 55.GT. The developed code shall be compatible with 55.GT requirements expressed at 55.GT design requirements document [3].

The deliverables shall include the source code and a short report describing the obtained progress (in the form to be agreed at KoM – PowerPoint presentation or text report). The following code development milestones are to be reported at each deliverable:

Milestone	Deliverable
Operational adapter to 55.GT data	D1
Operation of the code with real data from the existing sensors	D2
Implementation of error handling and data clearing scripts with the real data	D3
<ul style="list-style-type: none"> - Rudimentary HMI developed - Preliminary self-calibration algorithm developed 	D4
Presentation-ready system	D5
Consolidation of requirements for the final algorithm development, final description of the code	D6

The code shall be developed based on the PDR-level code, preferably in Python. During the code development the contractor shall in parallel write a thorough description and report, which will

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serve as the final deliverable along with the consolidated requirements for the final code development.

5.2.2 Service Duration

The maximum expected duration for this activity is 12 months.

5.3 Scope of work #3 Support to FDR organisation

5.3.1 Description

The Contractor shall support update and creation of the documents listed in the table below, using the relevant IO templates, with complexity categories defined as in 5.1.

Document	Category	IDM link
ICD-55-55 Interface Control Document for Diagnostics	A	https://user.iter.org/default.aspx?uid=UYR KVV
IS-55.GT-55-003 Functional interface between Tokamak Systems Monitor (TSM) (PBS-55.GT) and Calorimetry (PBS-55.GG)	B	https://user.iter.org/default.aspx?uid=BKD QVN
55.GG - Interface Compliance Matrix	A	https://user.iter.org/default.aspx?uid=G9U LBJ
55.GG - Design Compliance Matrix	B	https://user.iter.org/default.aspx?uid=9EL L6A

Based on the documents in this SoW and SoW 1, the Contractor shall create FDR level IDP and adjust the document types to match the FDR requirements and current sign-off authorities. In the case of the need to produce new versions of some of the documents, the Contract shall support the IO TRO in obtaining their approval.

The Contractor shall also provide support in production of other documentation necessary for the FDR (notification, agenda etc.), as well as the creation of FDR presentations. The Contractor shall participate at the FDR and present the scope relevant to the SoWs in this specification. On-site presence may be requested for the FDR.

5.3.2 Service Duration

The maximum expected duration for this activity is 2 months.

5.4 Scope of work #4 Support to chits closure and post-FDR documentation update

5.4.1 Description

Following the FDR, the contract shall perform the update of documentation mentioned in SoW 1 and SoW 3 as needed according to the chits and feedback received during the DR. While the actual complexity of chits may vary, the Contractor shall anticipate the resolution of 1 category 1 chit, 4 category 2 chits and 2 category 3 chits, resulting in a minor of update of 8 documents. Description of chit categories is provided at 7.7.2 of Design Review Procedure [4].

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5.4.2 Service Duration

The maximum expected duration for this activity is 2 months.

6 Location for Scope of Work Execution

Contractor can perform the work at their own location, however an on-site participation at the FDR meeting may be requested.

7 IO Documents

The IO shall deliver all the documents from section 4.1 and the relevant source codes developed so far by 55.GG.

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 number	Further Description	Expected date
D1	Report on performed activities: Documentation development as per 5.1, Code development as per 5.2	T0 + 2 months
D2	Report on performed activities: Documentation development as per 5.1, Code development as per 5.2	T0 + 4 months
D3	Report on performed activities: Documentation development as per 5.1, Code development as per 5.2	T0 + 6 months
D4	Report on performed activities: Documentation development as per 5.1, Code development as per 5.2	T0 + 8 months
D5	Report on performed activities: Code development as per 5.2, Support in organisation and participation at the FDR as per 5.3	T0 + 10 months
D6	Report on performed activities: Code development as per 5.2, Support in closure of the FDR as per 5.4	T0 + 12 months

(*) T0 = Commencement Date of the contract

SERVICE

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 QC3, [Ref 1] GM3S section 8 applies in line with the defined Quality Class.

The Contractor shall develop the code to adhere to the quality standards outlined at [CS1].

10 Safety requirements

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

11 Special Management requirements

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

11.1 Work Monitoring

The work will be monitored by regular weekly progress meetings and ad-hoc technical meetings if needed. The Contractor shall produce the MoMs if necessary.

The quality of delivered work will be assessed through the review and approval of deliverables.

11.2 CAD design requirements

This contract does not imply CAD activities.

11.3 Other specificities

The Contractor shall deploy resources with the following skills:

- Proven experience in energy data analysis using Python:
 - o knowledge of CoolProp library (<https://coolprop.org/coolprop/Tabular.html>),
 - o familiarity with thermal circuit modelling,
 - o experience in transient analysis of thermal systems
- Good knowledge of principles of thermodynamics and heat transfer, in particular understanding of control volume selection and thermal balancing
- Knowledge of electrical circuits and electrical energy transfer
- Knowledge of cryogenics and heat losses in the cryostats
- Skills in reading P&IDs, CBDs, wiring diagrams
- Understanding of technical aspects and physical principles underlying 55.GG operation:
 - o Energy flows in fusion reactions
 - o Energy transfers and conversion in tokamak systems (heating, cooling)
 - o Nuclear reactions in neutron-irradiated materials, especially secondary gamma emissions

Expression of Interest

To be returned by e-mail to: chloe.perret@iter.org copy amankumar.joshi@iter.org
before 6 July 2026, 17.00 CEST

TENDER No. **IO/26/CFE/10035235/CPT**

TENDER Title: **55.GG - Engineering support for FDR-level system development**

Officer in charge: **Chloé PERRET - Procurement Division ITER Organization**

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

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

YES

Please indicate your registration number:

NO, but we shall register before the indicated tender launch date

Please list the users of ARIBA/IPROC that you wish to add as response team for this tender:

Name	E-mail
...	...

Signature:

COMPANY STAMP

Name:

Position:

Tel:

E-mail

Date: