

+Call for Expertise: エキスパート募集

IO References: IO/24/CFE/10029178/JLE

“Cryogenics Expert Support for DMS”

(DMSのためのクライオジェニクスの特門家のサポート)

IO 締め切り 2024 年 7 月 14 日(日)

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

「DMS のためのクライオジェニクスの特許家のサポート」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 ref. B7WHL9_v 1.2 (本 PIN 文書の附則 D) 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	2024 年 7 月 4 日
関心表明フォームの提出	2024 年 7 月 14 日
IPROC での提案リクエスト（REP）の発行	2024 年 7 月 29 日の週
IPROC で入札提出	2024 年 9 月 2 日
入札評価と契約授与	2024 年 9 月
契約調印	2024 年 9 月
契約開始	2024 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。

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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「**Cryogenics Expert Support for DMS**」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/24/CFE/10029178/JLE Cryogenics Expert Support for DMS

Procurement Officer in charge:

Jongeun LEE

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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 "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 “**Cryogenics Expert Support for DMS**” is to procure the provision of services described in the Technical Specifications, ref. **B7WHL9_v 1.2 (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) – publication on IO web procurement page
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.

➤ 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	4 July 2024
Deadline for Submission of expression of interest form	14 July 2024
Request for Proposals (RFP) publishing on IPROC	Week of 29 July 2024
Tender Submission in IPROC	2 Sep 2024
Tender Evaluation & Contract Award	Sep 2024
Contract Signature	Sep 2024
Contract Commencement	Sep 2024

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 an individual, 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

Sub-contracting is not allowed.

Technical Specifications (In-Cash Procurement)

Technical Specification - Cryogenics Expert Support for DMS

This document concerns DMS Cryogenics expert support activities performed for the DMS FDR closure, chit resolution, prototyping and manufacturing preparation, intended on a call for expertise (CFE) contract.

The work involves provision of technical expertise and to work together with the IO-TRO and the DMS design team primarily. It involves many areas of activity that have to be supported. The scope of work of the Contractor is to work with the IO Team in the role of a technical expert with ...

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1 Purpose

The purpose of this technical specification (ITER_D_8QNSA2) is to outline and define the requirements for a cryogenic expert to support the Disruption Mitigation System (DMS) FDR chits closure, prototyping and manufacturing preparation (MRR).

2 Scope

This document concerns DMS Cryogenics expert support activities performed for the DMS FDR chits closure, prototyping and manufacturing preparation (MRR).

3 Definitions

For a complete list of ITER abbreviations see: [ITER Abbreviations \(ITER_D_2MU6W5\)](#).

Acronym	Meaning
ALARA	As Low As Reasonably Achievable
CAD	Computer Aided Design
DA	Domestic Agency
DET	Data Exchange Transfer
DFW	Diagnostic First Wall
DIR	Design Integration Review
DMS	Disruption Mitigation System
DSM	Diagnostic Shielding Module
EP	Equatorial port
FDR	Final Design Review
FP	First Plasma
HFE	Human Factors and Ergonomics
HIRA	Hazard Identification and Risk Assessment
HoF	Human Organizational Factor
IO	ITER Organization
ISS	Interspace Support Structure
ORE	Occupational Radiation Exposure
PCSS	Port Cell Support Structure
PDR	Preliminary Design Review
PFPO-1	Pre-Fusion Plasma Operation 1
PI	Port Integrator
PIA	Protection Important Activity
PIC	Protection Important Component
PP	Port Plug
RH	Remote Handling
RO	Responsible Officer
SDDR	Shutdown Dose Rate

4 References

- [1] ITER D 27ZRW8 - Project Requirements
- [2] ITER D BEJQWA - SRD 18.DM
- [3] ITER D 45P8YK - Defined requirements PBS 18 DMS

- [4] ITER D 2NC6CB - 18.DM System Design Description for DMS.
- [5] ITER D RUGWUK - Safe Access for Maintainability
- [6] ITER D 258LKL - Quality Assurance for ITER Safety Codes
- [7] ITER D QUK6LF - ITER Human & Organizational Factors Policy
- [8] ITER D 2MU6W5 - ITER Abbreviations
- [9] ITER D KTU8HH - Software Qualification Policy
- [10] ITER D PSTTZL - List of ITER-INB Protections Important Activities
- [11] ITER_D_7M2YKF v1.7 - Order dated 7 February 2012 relating to the general technical regulations applicable to INB - EN

5 Estimated Duration

The overall duration of this work is 12 months.

6 Work description

The work involves provision of technical expertise in the field of cryogenics and to be performed together with the IO-TRO and the DMS design team primarily. It involves many areas of activity that must be supported. The scope of work of the Contractor is to work with the IO Team in the role of a technical expert with a focus on cryogenics design, prototyping and manufacturing aspects, bringing expertise and contributing to the activities performed by the team to design associated systems.

6.1 Introduction

The purpose of the ITER Disruption Mitigation System (DMS) is to provide machine protection to reduce the detrimental effects of plasma disruptions and to ensure the appropriate lifetime of all affected ITER components. It utilises cryogenic hydrogen and neon pellets which are generated inside the injectors located in the Interspace Support Structure (ISS). These pellets are pneumatically propelled in the time frame of milliseconds towards the plasma and just before entering the plasma are shattered into small fragments to enter the plasma and to reduce damage to the plasma facing components and other structures inside the ITER tokamak. A typical injector design for the equatorial ports can be seen in fig. 1.

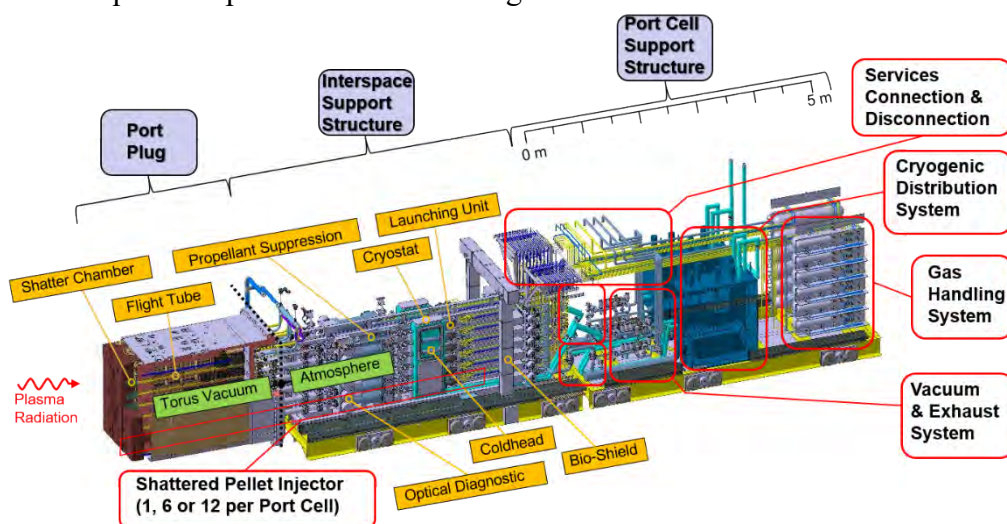


Figure 1 Typical DMS in EP integrated into the ISS and PCSS.

6.2 Cryogenic Engineering and Integration

The objective is to support the DMS final design review chits closure, prototyping and manufacturing preparation (MRR). The list of specific and general activities expected to be performed is:

- Development and integration of cryogenic components and services in the B11 galleries, vertical shafts and port cells.
- Development of cryogenic components and services in the ISS and Port Cell Support Structure (PCCS) and integration solutions:
 - Finding adequate space for the DMS components ensuring installation, assembly, inspection and maintenance,
 - Support the development of services, their routing and integration,
 - Participation in the development of the connection of the services between ISS and PCSS, between ISS and building, between PCSS and building,
 - Manage the relevant CAD models,
- Support Design reviews (e.g. FDR closure, MRR),
- Support Design Integration reviews (DIR);
- Support of maintenance operations development in the ISS and PCSS areas including area in between closure plate and ISS;
- Support of cryogenic and gas supply component installation activities
- Carrying out other related engineering tasks, upon line management request.
- Carrying out sophisticated process and thermal analysis by using commercial (Ansys, Ecosim-Pro) or custom (Matlab or Excel) analysis tools, and documenting the methodology and the results in written reports.
- Participation and technical support in prototyping procurement contracts with industry or laboratories.

6.3 Engineering documentation

Some of the technical documentation which maybe expected to be prepared are

Bill of Materials;
 Design description documents
 Documents to be used to define interfaces
 Interface sheets
 Provision of Engineering Work Packages
 Input to any other required ITER design documentation

Furthermore it may be expected
 to participate in regular DMS group meetings;
 to participate in design and integration reviews;
 contribute or provide presentation related to analysis, mechanical design, integration and assembly;

6.4 Contract management

Some of the activities, which maybe expected are

- Drafting technical specifications

- Support in the execution of contracts with suppliers of cryogenic components and services.
- Review of deliverables.

7 Responsibilities

7.1 Contractor's obligations

In order to successfully perform the tasks in these Technical Specifications, the Contractor shall:

- Strictly implement the IO procedures, instructions and use the required templates;
- Provide experienced and trained resources to perform the tasks;
- Contractor's personnel shall possess the qualifications, professional competence and experience to carry out services in accordance with IO rules and procedures;
- Contractor's personnel shall be bound by the rules and regulations governing the IO ethics, safety and security IO rules.

The official language of the ITER project is English. Therefore, all input and output documentation relevant to this Contract shall be in English. The Contractor shall ensure that all the professionals in charge of the Contract have an adequate knowledge of English, to allow easy communication and adequate drafting of technical documentation. This requirement also applies to the Contractor's staff working at the ITER site or participating in meetings with the ITER Organization.

7.2 Obligations of the ITER Organization

The ITER Organization shall

- Nominate the Responsible Officer to manage the Contract;
- Organise regular meeting(s) on work performed;

The ITER Organization shall in addition give the possibility to the contractor to review documents on the ITER documents database (IDM). Furthermore the IO shall make all technical data and documents available to the Contractor which will be required to carry out its obligations in a timely manner.

8 List of deliverables and due dates

N°	Target date (months)	Deliverable description
D1	T0+3	Contribute to the chit resolution and completion of the DMS final design basis for FDR closure. Provide a report on IDM summarizing the progress of these activities.
D2	T0+6	Contribute to the technical specifications for the DMS cryogenic system Cold Distribution Box prototype. Enhance the completeness and clarity of the existing design basis. Provide a report on IDM summarizing the progress of these activities.

D3	T0+9	Contribute to the technical specifications for the DMS cryogenic system transfer lines prototype. Provide a report on IDM summarizing the progress of these activities.
D4	T0+12	Contribute to draft the technical specifications for DMS cryogenic ITER components manufacturing. Provide a report on IDM summarizing the progress of these activities..

9 Acceptance Criteria

The deliverables will be posted in the Contractor's dedicated folder in IDM, and the acceptance by the IO will be recorded by the approval of the designated IO TRO. These criteria shall be the basis of acceptance by IO following the successful completion of the services. These will be in the form of reports as indicated in section 8, Table of deliverables.

10 Specific requirements and conditions

In order to complete the tasks in a timely manner the following experiences are required:

- Cryogenics technology, specifically with supercritical helium (SHe) distribution and control applied in large experimental environments such as particle accelerators or nuclear fusion experiments
- Vacuum technology including UHV pumping, diagnostic instrumentation, and associated equipment such as isolation and control valves
- Design of gas handling equipment, including pressure equipment design and qualification
- Development and integration of novel, complex multidisciplinary systems in a nuclear fusion-relevant environment, including design and selection of components for compatibility with tritium, radiation, and high magnetic fields
- The technical assessment, sizing, simulation and design of above technologies
- Procurement, installation and commissioning of components equipment in large experimental environments such as particle accelerators or nuclear fusion experiments requiring creation and management of work procedures, risk assessments etc. and the supervision of the work
- Producing and reviewing final design deliverables (e.g. design basis documents, P&IDs, design descriptions, operating descriptions, control systems, HAZOP, etc)
- Simulation and modelling of cryogenic processes (pressure drop, process control), heat load analysis for cryogenic systems, basic structural analysis.
- Previous knowledge of DMS cryogenic system by Shattered Pellet Injection (SPI) will be considered as a plus.

11 Work Monitoring / Meeting Schedule

Work is monitored through reports (see List of Deliverables section).

The Contractor will predominantly work offsite. Note that periodic visits to attend meetings at IO or at IO contractor sites might be required: please account for a minimum of 6 working days, divided in two visits in Europe, upon IO request.

12 Delivery time breakdown

T0 is the date of the contract signature. See Section 8 List *Deliverables section and due dates*.

13 Quality Assurance (QA) requirements

The organisation conducting these activities should have an ITER approved QA Program or an ISO 9001 accredited quality system.

The general requirements are detailed in [ITER Procurement Quality Requirements \(ITER_D_22MFG4\)](#).

Prior to commencement of the task, a Quality Plan must be submitted for IO approval giving evidence of the above and describing the organisation for this task; the skill of workers involved in the study; any anticipated sub-contractors; and giving details of who will be the independent checker of the activities (see [Procurement Requirements for Producing a Quality Plan \(ITER_D_22MFMW\)](#)).

Documentation developed as the result of this task shall be retained by the performer of the task or the DA organization for a minimum of 5 years and then may be discarded at the direction of the IO. The use of computer software to perform a safety basis task activity such as analysis and/or modelling, etc. shall be reviewed and approved by the IO prior to its use, in accordance with [Quality Assurance for ITER Safety Codes \(ITER_D_258LKL\)](#).

14 CAD Requirements (if applicable)

For the contracts where CAD design tasks are involved, the following shall apply:

The Supplier shall ensure that all designs, CAD data and drawings delivered to IO comply with the Procedure for the Usage of the ITER CAD Manual ([2F6FTX](#)), and with the Procedure for the Management of CAD Work & CAD Data (Models and Drawings [2DWU2M](#)).

Drawing Registration in the IO system shall be performed according to the Procedure for the Management of Diagrams and Drawings in pdf Format Using the SMDD Application ([KFMK2B](#)).

The reference scheme is for the Supplier to work in a fully synchronous manner on the ITER CAD platform (see detailed information about synchronous collaboration in the ITER [P7Q3J7](#) - Specification for CAD data Production in ITER direct contracts). This implies the usage of the CAD software versions as indicated in CAD Manual 07 - CAD Fact Sheet ([249WUL](#)) and the connection to one of the ITER project CAD data-bases. Any deviation against this requirement shall be defined in a Design Collaboration Implementation Form (DCIF) prepared and approved by DO and included in the call-for-tender package. Any cost or labour resulting from a deviation or non-conformance of the Supplier with regards to the CAD collaboration requirement shall be incurred by the Supplier.

15 Safety requirements

ITER is a Nuclear Facility identified in France by the number-INB-174 (“Installation Nucléaire de Base”).

For Protection Important Components (PIC) the French Nuclear Regulation must be observed, in application of the Article 14 of the ITER Agreement.

In such case the Suppliers and Subcontractors must be informed that:

- The Order 7th February 2012 applies to all the components important for the protection (PIC) and the activities important for the protection (PIA).
- The compliance with the INB-order must be demonstrated in the chain of external contractors.
- In application of article II.2.5.4 of the Order 7th February 2012, contracted activities for supervision purposes are also subject to a supervision done by the Nuclear Operator.

For the Protection Important Components, structures and systems of the nuclear facility, and Protection Important Activities (as per *ITER D PSTTZL*) the contractor shall ensure that a specific management system is implemented for his own activities and for the activities done by any Supplier and Subcontractor following the requirements of the Order 7th February 2012 [11]

Compliance with ITER D 45P8YK Defined requirements PBS 18 DMS is mandatory.

Note: DMS Design activities are PIA

Refer the Quality class and Safety Class as per the SRD document (BEJQWA)

Expression of Interest

To be returned by e-mail to: Jongeun.Lee@iter.org in copy to alessia.donato@iter.org and takakazu.kimura@iter.org within 10 calendar days from the date of PIN published.

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/24/CFE/ 10029178/JLE**

TENDER Title: **Cryogenics Expert Support for DMS**

Officer in charge: **Jongeun LEE - Procurement Division ITER Building 81/140**

☐ 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: