外部委託業者の募集

References: IO/25/OT/10032957/JGO

"Supply Contract Industrial Gas for ITER"

（ITER 産業用ガスの供給契約）

IO 締め切り 2025 年 9 月 5 日(金)

〇はじめに

本事前情報通知（PIN）は、作業契約の入札授与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、作業範囲および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 は平和利用の核融合発電の科学的および技術的な実現可能性の実証を目的とした、国際共同研究開発プロジェクトです。ITER 機構の 7 つのメンバーは、;欧州連合（EURATOM が代表）、日本、中華人民共和国、インド、大韓民国、ロシア連邦、および米国です。

ITER の敷地はフランス南東部のブーシュデュローヌ地区にあり、ITER 本社（HQ）もあるフランス CEA サン・ポール・レ・デュランス に近いところに位置しています。詳細については、ITER のウェブサイト http://www.iter.org を参照して下さい。

〇作業範囲

本入札手続きは、液体およびガス状窒素およびキャリブレーションと他のガスに関する供給契約の締結を目的としています。

詳細については、添付資料Annex II: Technical Specification VXLV6Q_v3_1.をご参照ください。

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、以下の概略日程に示された期日までに担当調達担当官に添付の関心表明フォームで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。

  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
  関心表明提出後、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
事前指示書（PIN）の発行	2025 年 8 月 18 日
関心表明フォームの提出	2025 年 9 月 5 日
入札開始	2025 年 9 月 12 日
明確化のための質問（もしあれば）と回答	入札提出の 5 日前
入札提出	2025 年 10 月 24 日
入札評価と契約授与	2025 年 Q4
契約調印	2025 年 Q4

〇契約期間と実行

ITER機構は2025年のQ4に供給契約を授与する予定です。予想される契約期間は2年の固定期間とオプショ

ン期間２年の予定です。

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。ITER 加盟国は欧州連合(EURATOM メンバー)、日本、中華人民共和国、インド共和国、大韓民国、ロシア連邦、アメリカ合衆国です。

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、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「**Supply Contract Industrial Gas for ITER**」をご参照ください。】

ITER 公式ウェブ　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。

イーター国際核融合エネルギー機構からの外部委託
に関心ある企業及び研究機関の募集について

＜ITER 機構から参加極へのレター＞

以下に、外部委託の概要と要求事項が示されています。参加極には、提案された業務に要求される能力を有し、入札すべきと考える企業及び研究機関の連絡先の情報を ITER 機構へ伝えることが求められています。このため、本研究・業務に関心を持たれる企業及び研究機関におかれましては、応募書類の提出要領にしたがって連絡先情報をご提出下さい。

china eu india japan korea russia usa
Route de Vinon-sur-Verdon - CS 90 046 - 13067 St Paul Lez Durance Cedex - France

PRIOR INFORMATION NOTICE (PIN)

OPEN TENDER SUMMARY

IO/25/OT/10032957/JGO

for

Supply Contract Industrial Gas for ITER

Prior Indicative Notice annexes:
- Annex I: Expression of Interest Form
- Annex II: Technical Specification VXLV6Q_v3_1

IO Contact Persons: Jingyu.Gao@iter.org and Andrew.Brown@iter.org.

Abstract

The purpose of this summary is to provide prior notification of the IO's intention to launch a competitive Open Tender 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 Information Notice (PIN) is the first step of an Open Tender Procurement Process leading to the award and execution of Supply 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 present tender process is aiming to set up a Supply Contract for the supply of liquid and gaseous nitrogen as well as the supply of calibration and other gases.

For more details, please refer to - Annex II: Technical Specification VXLV6Q_v3_1.

4 Procurement Process & Objective

The objective is to award one Supply 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 Open Tender 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" (Annex I) 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
  The Request for Proposals (RFP) will be published on our digital tool "Iproc" after the submission of Expression of Interest. This stage allows interested bidders who have indicated their interest to the Procurement Officers 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.

- 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
  One Supply Contract will be awarded on the basis of best value for money or lowest priced technically compliant method, according to the evaluation criteria and methodology described in the RFP.

Procurement Timetable

The tentative timetable is as follows:

Milestone	Date
Publication of the Prior Indicative Notice (PIN)	18 August 2025
Submission of Expression of Interest form	No later than 5 September 2025
Tender launch	No later than 12 September 2025
Clarification Questions (if any) and Answers	5 days before submission deadline
Tender Submission	24 October 2025
Tender Evaluation & Contract Award	Q4 2025
Contract Signature	Q4 2025

5 Quality Assurance Requirements

Prior to commencement of any work under this Contract, a "Quality Plan" shall be produced by the Supplier and Subcontractors and submitted to the IO for approval, describing how they will implement the ITER Procurement Quality Requirements.

6 Contract Duration and Execution

The ITER Organization is planning to award the Supply Contract in Q4 2025. The estimated contract duration should be 2 fixed years and another 2 years as option.

7 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.
Any consortium member shall be registered in IPROC.

8 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.

ANNEX I

EXPRESSION OF INTEREST & PIN ACKNOWLEDGEMENT

To be returned by e-mail to: Jingyu.Gao@iter.org with Andrew.Brown@iter.org in cc

Tender reference: **IO/25/OT/10032957/JGO**

Description: **Supply Contract Industrial Gas for ITER**

Procurement Officer: **Jingyu Gao**

Company Name: **……**

Country of Origin: **……**

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

☐ WE INTEND TO SUBMIT A TENDER

☐ WE ARE ALREADY REGISTERED IN IPROC

☐ WE INTEND TO REGISTER IN IPROC

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: .....

IDM UID
VXLV6Q

VERSION CREATED ON / VERSION / STATUS
01 Aug 2025 / 3.1 / Approved

EXTERNAL REFERENCE / VERSION

Technical Specifications (In-Cash Procurement)

34.00.00 - IOTS - 000005 : Industrial gas supply

Technical_Specification - industrial gas supply

SUPPLY

Technical Specification

INDUSTRIAL GAS SUPPY FOR ITER

Abstract:

This document defines the technical requirements for the procurement of the industrial gases and is an integral part of the Contract.

SUPPLY

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SUPPLY

SUPPLY

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 technical specification defines the conditions of the delivery and specifications of technical gases to be delivered to ITER.

It outlines the supply of *liquid and gaseous nitrogen* as well as the supply of *calibration and other gases*.

3 Acronyms & Definitions

3.1 Acronyms

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

Abbreviation	Description
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification, Labelling and Packaging of chemicals
CRO	Contract Responsible Officer
GM3S	General Management Specification for Service and Supply
IO	ITER Organization
ITP	Instructions to proceed
NPE	Nuclear Pressure Equipment
PE	Pressure Equipment
PIA	Protection Important Activities
PIC	Protection Important Component
PRO	Procurement Responsible Officer
REACH	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

3.2 Definitions

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

SUPPLY

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	Health Protection and Safety General Coordination Plan - ITER Construction Site - Volume 0 - General Safety Rules	2NUEYG	6.0
3	PGC Annex 00 - List of the applicable annexes to the PGC SPS Volume 1	42FYPZ	3.0
4	#00 - PGC Volume 1	T6V4RP	5.1
5	PGC Annex 03 - Rules of cooperation between the HSPC and the contractors	UJ95AV	5.1
6	ITER Site Life-Saving Rules	YSU3VK	2.1

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	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)	-	-
CS2	Regulation (EU) 2024/2865 of the European Parliament and of the Council of 23 October 2024 amending Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (Text with EEA relevance)	-	-
CS3	Arrêté du 26 avril 1996 pris en application de l'article R. 237-1 du code du travail et portant adaptation de certaines règles de sécurité applicables aux opérations de chargement et de déchargement effectuées par une entreprise extérieure	-	-

5 Scope of Work

5.1 Scope of supply

5.1.1 Products

The scope of this specification is the supply of technical gases to ITER.

The scope is detailed as follows:

- Supply of liquid and gaseous nitrogen
    1. Liquid nitrogen delivered in cryogenic trailers with a guaranteed purity of minimum 99.995%.
    2. Gaseous high-grade nitrogen in high pressure bottle racks with a guaranteed purity of minimum quality grade 4.5.
- Supply of calibration and other gases

  ITER will use different gases these are in general manner framed by this specification. (For details see Appendix ‘1.)

The needs may fluctuate from one year to the next. It is impossible to accurately anticipate the quantities of liquid and gas that will be ordered. However, a basis of estimates is presented in *Appendix 1*.

Note: All these quantities are given for information only and cannot be considered as commitments of consumption by ITER.

5.1.2 Particularity of delivery for liquid nitrogen

The Contractor assures the supply and transport of liquid nitrogen in 11 000-gallon trailers.

Unloading of liquid trailers

At the establishment of the contract, the Contractor shall take all necessary actions to identify all necessary connection materials required and ensure their provision for each delivery. All necessary connection materials shall be included in the Contractors scope.

5.1.3 Particularity of delivery for gaseous nitrogen

Unloading gas trailers

At the establishment of the contract the Contractor shall take all necessary action to identify all necessary connection material and ensure its provision for each delivery. All necessary connection material shall be included in the Contractors scope.

Additionally, to nitrogen in gas trailers ITER may also source gaseous nitrogen bottle racks for different purposes. The bottle racks shall remain property of the Contractor and will be managed by ITER as described in the related order.

5.1.4 Particularity of delivery for calibration and other gases

For calibration and measuring purpose ITER sources different calibration and other gases. Basis of estimate information is summarised in Appendix 1.

5.2 Access to ITER site

Access to ITER requires the respect of particular conditions as defined in the "General Management Specification for Service and Supply (GM3S)" Ref [1]. The Contractor must therefore approach ITER to enquire the specific terms of access. The contractor shall deliver at the ITER site during the opening hours.

5.2.1 Delivery execution

The Contractor is required to comply with the requirements of the loading / unloading safety protocols and any other security document.

The Contractor applies and ensures the application of the regulations relating to the transport of dangerous goods when the conditions of transport and delivery fall under it.

ITER reserves the right to verify the compliance of transport with the European Agreement concerning the international carriage of dangerous goods by road, called ADR, supplemented by the French decree (s) in force, and to refuse the unloading operation, even to refuse access or to request the immobilisation of the vehicle if the safety conditions are not respected. The settlement of these situations is the responsibility of the Contractor.

ITER reserves the right to permanently refuse access to an employee of the Contractor who does not respect the safety instructions, and to request its replacement as soon as possible by a person with same qualifications.

Transport tanks used by the Contractor must in particular be covered by a valid approval issued by the competent authority for the duration of their use at ITER.

In case of difficulty relative to a delivery, the Contractor will inform as soon as possible ITER, so that it can judge the opportunity to confirm or cancel the order in question.

5.2.2 Conditions of reception and transfer

The Contractor shall take all necessary steps to ensure that the unloading area is left clean after the transfer operation.

During gas/liquid transfer the Contractor must inform ITER of any anomaly related to a lack of sealing of the various flanges or fittings of the installation concerned.

All materials required for connection to the delivery point are the responsibility of the Contractor.

The Contractor guarantees the good condition of the materials required for the transfer operations and particularly the sealing, connection and insulation components. In case of hardware malfunction, it will be replaced within 24 hours.

SUPPLY

A stock of spare parts that may be urgently required for unloading operations (including joints, collars, etc.) must be made available free of charge to ITER for the duration of the unloading operations.

In the event that the previous conditions are not fulfilled and where ITER reports defects in quality, either of the discharge material or of the gas supplied, ITER expressly reserves the right to refuse the delivery and to return at the expense of the contractor.

5.2.3 Delivered quantities and qualities

The Contractor must send to ITER the detailed technical procedure of the measuring method to be adopted by mutual agreement between the Parties.

6 Location for Scope of Work Execution

This a delivery contract for liquefied and bottled gases principally delivered to B51, B52 and Area 53.

7 IO Documents & IO Free issue items

"No input nor free issue item is expected from IO"

8 Deliverables and Schedule Milestones

8.1.1 Planning of deliveries

The ITPs specify the quality and the quantity of product, as well as the date and possibly the precise time slot for the delivery.

The expected delivery intervals from the date of contractor's confirmation of the ITP are:

- 2 weeks for liquid nitrogen
- 1 week for standard gases, welding gases and air in bottles or bottle racks
- 4 weeks for special mixtures

8.1.2 Transmission of Material Safety Data Sheets and Technical Data Sheets

The Contractor shall on ITER demand transmit the safety data sheet of the delivered products free of charge in both French and English, both in paper form and in electronic form as follows:

- At the request of the prescriber when ordering, the delivered chemical must be accompanied by its safety data sheet in French and on paper,
- At the first delivery, its French and English safety data sheet must be transmitted in electronic form to a single electronic address stipulated at the start of the contract.

The safety data sheets shall be established in accordance with Annex II to Regulation (EC) N ° 1907/2006 of 18/12/2006, commonly identified as "REACH", and in any case in accordance with the relevant regulations in force.

SUPPLY

In addition, since 01/12/2010, in accordance with Regulation (EC) No 1272/2008 ("CLP"), the safety data sheets of the products supplied must be up to date and contain the classification carried out in accordance with the Regulation (EU) 2024/2865 of the European Parliament and of the Council of 23 October 2024 amending Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures ('CLP').

The Contractor will also ensure the accuracy of the information in the safety data sheets by ensuring any necessary updates as soon as possible, as soon as new information that may affect the risk management measures or new information relating to the hazards is available.

The new dated version of the information, identified as "Revision: (date)", will be provided free of charge in electronic form, in French and English, to a unique email address specified at the start of the contract.

The technical data sheets of the products will be transmitted to the first order, at the request of the prescriber and following each modification of these.

8.1.3 Documents to supply with each delivery

The documents that must be submitted during deliveries are the following:

- The delivery notes with clear reference to the Instruction to Proceed (ITP), stating:
  - The delivery date
  - The nature of the product,
  - The quantity delivered
- The analyses certificate – if requested by ITER
- In the case of a delivery subject to ADR, the copy of the corresponding ADR transport document.

ADR - *European Agreement concerning the International Carriage of Dangerous Goods by Road*

The Contractor will provide products conforming to the technical specifications requested by ITER. In case of non-compliance, the product will be exchanged for a compliant product at the expense and risk of the Contractor.

9 Quality Assurance requirements

Under this contract for the supply of industrial gases [Ref 1] GM3S section 8 applies in line with the defined Quality Requirements.

10 Safety requirements

The Supplier and Subcontractors shall observe all applicable environment, safety and health provisions for work on the ITER Site, as well as specific requirements set out in this Technical Specification.

Any activity by the Supplier and Subcontractors at the ITER Site shall be subject to the Internal Regulations as referred in [Ref 1] GM3S]. Any activity by the Supplier and Subcontractors on the ITER Construction Site shall be subject to the “ITER Policy on Safety, Security and

Environment Protection Management as referred in Ref 9 of [Ref 1] GM3S] and resulting procedures. Any additional applicable provisions regarding environment, safety and health shall be communicated by ITER to the Supplier at least 30 calendar days in advance of the activities to be performed at the ITER Site.

Joint inspection meetings and safety regulatory procedures: in accordance with Articles R.4515-1 et seq. of the Labour Code (codifying the Decree of 26/04/1996), the delivery to ITER can only start after the constitution of a security protocol for unloading / loading, between ITER and the Contractor.

Thus, at the start of the contract and before any delivery or intervention, the Contractor will have to contact ITER ORGANISATION, in order to organize a joint safety inspection.

This meeting will allow:

- To detail and analyse each operation carried out and each place of intervention,
- Detail the necessary documents,
- Present and study the safety instructions and / or procedures,
- Define and validate the preventive measures to be observed at each phase of unloading / loading operations.

Following this joint inspection meeting, in accordance with Article R. 4515-4 of the Labour Code, an unloading / loading safety protocol will be drawn up for each identified operation, in order to prevent the risks associated with the interference between the activities, facilities and equipment of ITER and the carrier, as well as other companies that may be present in the work areas.

The safety protocols (and the prevention plan, if applicable) will be communicated to ITER. If the joint safety preliminary inspection meeting, and therefore the security protocol, was not carried out, ITER would be obliged to block deliveries until safety is guaranteed as specified.

10.1 Nuclear class Safety

“No specific safety requirement related

10.2 Seismic class

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

11 Special Management requirements

No special management requirements in place. This contract defines the delivery of liquefied and bottled gases.

11.1 Contract Gates

- Kick-off meeting
- Joint visit

11.2 Work Monitoring

The contractor shall monitor the ordered and delivered gases. These data shall be made available to the client.

SUPPLY

11.3 Meeting Schedule

Additional to Kick-off meeting Joint Visit meetings can be held if required.

11.4 CAD design requirements

"This contract does not imply CAD activities"

12 Appendixes

Appendix I – List of Deliverable Supplies

Note: All these quantities are given for information only and cannot be considered as commitments of consumption by ITER.

LIQUIDE NITROGEN [per year]					
Item #	**Fluid**	**Min. grade**	**Packaging**	**Unit**	**Quantity**
1	N2	Liquid (minimum 99.995%)	Liquid trailer	KL	3500
2		Delivery service - per delivery	-	Delivery	115

PACKAGED GAS [per year]					
Item #	**Fluid**	**min. grade**	**desired packaging**	**Unit**	**Estimated Quantity / Year ***
1	Air	5.0 H2O<=3 ppm, CnHm<=0.2 ppm, CO<=1 ppm, CO2<=1 ppm	M20 bottle	bottle	2
2	Mixture 2,4% H2 in Ar	Conform to the standard EN ISO 14175-R1-ArH-2,4 (Welding application)	M20 bottle	bottle	2
3	Argon	4.8 Conform to the standard EN ISO 14175-I1-Ar (Welding application)	Bundle V09	m3	380
4	Argon	5.0	M20 bottle	bottle	2
5	Argon	5.0	L50 bottle	bottle	2
6	Carbon Dioxide	(≥ 99,7 %)	Bundle V09	Kg	50
7	Helium	4.5	L50 bottle	bottle	6
8	Helium	4.5	Bundle V09 or V18	m3	1458
9	Helium	5.0	M20 bottle	bottle	2
10	Helium	5.0	L50 bottle	bottle	2
11	Helium	6.0	M20 bottle	bottle	5
12	Helium	6.0	L50 bottle	bottle	5
13	N2	4.5	L50 bottle	bottle	1
14	N2	4.5	Bundle V09 or V18	m3	4080

SUPPLY

15	N2	5.0	M20 bottle	bottle	5
16	N2	5.0	L50 bottle	bottle	5
17	N2	6.0	M20 bottle	bottle	5
18	Neon	5.0	S05 bottle	bottle	5
19	Mixture 18 ppm CO2 in N2		M20 bottle	bottle	2
20	Mixture 250 ppm H2O/N2		M20 bottle	bottle	2
21	Mixture 450 ppm Ar in N2		M20 bottle	bottle	2
22	Mixture 8 ppm O2 in N2		M20 bottle	bottle	2
23	Mixture 90 ppm O2 in N2		M20 bottle	bottle	2
24	Mixture 5%H2 in N2		S05 bottle	bottle	2
25	Mixture 9 % N2 in He		M20 bottle	bottle	2
26	Mixture 9 ppm Ne + 9 ppm H2 + 9 ppm CH4 + 9 ppm Ar in He		M20 bottle	bottle	2
27	Mixture 90 ppm 02 in He		M20 bottle	bottle	2
28	Mixture 90 ppm N2 in He		M20 bottle	bottle	2
29	Mixture 100 ppm N2 in He		M20 bottle	bottle	2
30	Mixture1000 ppm H2O in He		M20 bottle	bottle	2
31	Delivery service - fix part	.		Delivery	48
32	Delivery service - charge per bundle			Delivery	48
33	Rental Bundle V09 Specialized			Month	48
34	Rental Bundle V09 Standard			Month	48
35	Rental Bundle V18 Specialized			Month	48
36	Rental Bundle V18 Standard			Month	48
37	Rental Standard Bottle			Month	48
38	Rental SG Bottle			Month	48

All gases with purity grades higher than 5.0 are considered as specialized.

** The Estimated Quantity / Year represents the basis of the pricing model and is a reasonable assumption only.*