

外部委託業者の募集

References: IO/26/OT/10035181JGO

“Supply Contract Liquid and Gaseous Helium for ITER “

(ITER液体および気体ヘリウムの供給契約)

IO 締め切り 20226 年 7 月 24 日(金)

○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。

○背景

ITER は平和利用の核融合発電の科学的小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。

○作業範囲

本入札手続は、ITER 向けの液体および気体ヘリウム供給契約の締結を目的とするものです。

作業範囲は以下を含みます。

1. 極低温トレーラーによる液体ヘリウムの供給
2. 高圧チューブトレーラーによる気体ヘリウムの供給

純度は最低グレード4.5とします。

詳細については、附属書 II 「技術仕様書 VXLNRNX_v3_1」を参照してください。

○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、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。

○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	2026 年 6 月 22 日
関心表明フォームの提出	2026 年 7 月 24 日
入札開始	2026 年 7 月 31 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	2026 年 9 月 11 日
入札評価と契約授与	2026 年 Q4
契約調印	2026 年 Q4

○契約期間と実行

ITER機構は2026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固定期間4年、オプション期間として2年の予定です。

○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 Liquid and Gaseous Helium 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。

ITER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/26/OT/10035181/JGO

for

Supply Contract Liquid and Gaseous Helium for ITER

Prior Indicative Notice annexes:

- Annex I: Expression of Interest Form
- Annex II: Technical Specification VXLNRX_v3_1

IO Contact Persons: Jingyu.Gao@iter.org and Celine.Dimento_ext@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 Liquid and Gaseous Helium for ITER.

The scope of work includes:

1. Liquid Helium delivered in cryogenic trailers;
2. Gaseous helium in high pressure tube trailers.

The purity shall be minimum grade 4.5.

For more details, please refer to Annex II: Technical Specification VXLRNX_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)	22 June 2026
Submission of Expression of Interest form	No later than 24 July 2026
Tender launch	No later than 31 July 2026
Clarification Questions (if any) and Answers	5 days before submission deadline
Tender Submission	11 September 2026
Tender Evaluation & Contract Award	Q4 2026
Contract Signature	Q4 2026

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 2026. The estimated contract duration is 4 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 Celine.Dimento_ext@iter.org and in cc

Tender reference: **IO/26/OT/10035181/JGO**
Description: **Supply Contract Liquid and Gaseous Helium 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:

Name:
Position:
Tel:
E-mail:
Date:

COMPANY STAMP

Technical Specifications (In-Cash Procurement)

34.00.00 - IOTS - 000004 : Helium supply

Technical_Specification - helium supply

SUPPLY

Technical Specification

HELIUM SUPPLY FOR ITER

Abstract:

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

SUPPLY

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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 technical specification defines the conditions of the delivery and specifications of Helium to be delivered to ITER. It outlines the supply of *liquid and gaseous Helium*.

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	#00 - PGC Volume 1	T6V4RP	6.3
3	PGC Annex 00 - List of the applicable annexes to the PGC SPS Volume 1	42FYPZ	4.1
4	PGC Annex 03 - Rules of cooperation between the HSPC and the contractors	UJ95AV	5.2
5	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	-	-

SUPPLY

5 Scope of Work

5.1 Scope of supply

5.1.1 Products

The scope of this specification is the supply of Helium to ITER.

The scope is detailed as follows:

1. Liquid Helium delivered in cryogenic trailers
2. Gaseous helium in high pressure tube trailers

The purity shall be minimum grade 4.5.

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 Helium

In order to take into account, the available storage capacities the quantities delivered can be reduced to 8000 litres for a container of 11 000 gallons minimum unless otherwise indicated by the beneficiaries.

All necessary connection materials shall be included in ITER scope.

5.1.3 Particularity of delivery for gaseous Helium

Helium gas will be delivered by trailers of minimum 2,000 m³ or 340 Kg.

All necessary connection materials shall be included in ITER scope.

5.1.4 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.

5.1.5 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.

SUPPLY

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.

5.1.6 Delivered quantities and qualities

Upon ITER request the Contractor shall issue the detailed technical procedure of the measuring method to be adopted by mutual agreement between the Parties.

5.2 Option – Helium Storage

The Contractor shall have the possibility to assess, develop, and propose suitable storage solutions for helium on the ITER behalf. These solutions may include both:

- **Physical storage**, and
- **Virtual storage arrangements** (with guaranteed availability and/or contractual reserve capacity).

The proposed solutions shall cover foreseeable and unforeseeable operational needs, including partial or full, temporary storage of the ITER helium inventory.

The Contractor shall provide detailed technical, operational, and commercial descriptions of the proposed storage options as part of its offer. These proposals shall be subject to review and agreement within the framework of the Contract.

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6 Location for Scope of Work Execution

The helium shall be delivered to the cryoplant 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 interval for liquid trailer is 8 weeks from the date of final signature on the ITP, subject to ITER having made the liquid trailer again available to Contractor in due time.

The expected delivery interval for gas trailer is 4 weeks from the date of final signature on the ITP, subject to ITER having made the gas trailer again available to Contractor in due time.

The Contractor will indicate in their response if they can commit to a better deadline if it is requested.

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.

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.

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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.

SUPPLY

9 Quality Assurance requirements

The Quality class under this contract is QC4, [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 preparation 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 preparation 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”.

SUPPLY

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 preparation meeting

11.2 Work Monitoring

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

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”

SUPPLY

12 Appendixes

Base of estimates

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

Duration:	4 years <i>2 additional years optional</i>
Start:	01/12/2026
Total quantity of helium:	35.2 t
Average delivery frequency:	two 40ft ISO liquid containers per year

A minor part of the above-mentioned quantity of helium may be required in gaseous state and shall therefore be delivered in tube trailers if requested by ITER.