外部委託業者の募集

References: IO/25/OT/10031008/FMR "Design and Construction of B5.3 storage shelter" (B5.3 保管シェルターの設計と建設) IO 締め切り 2025 年 2 月 24 日(月)

○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。

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

本契約の範囲は、ITERサイトの保管ゾーンZ5.3に建設されるカバー付きシェルターの設計、供給、設置です。

契約者は、以下の最低要件を満たすシェルターを設置しなければなりません:

- ・ 防水屋根および壁;
- ・フランスおよびヨーロッパの適用される安全および健康規制を遵守;
- ・建物は5年の耐用年数を前提に設計され、現地の気候条件に耐えること(Eurocodes 0、1、3、8に従う)。

ITERサイトで建設が期待されるシェルターのサイズは以下の通りです:

(詳細は公開入札のサマリー資料を参照下さい)

シェルターは、建物内部に中間の柱がない自由断面を持つものとします。

建物の主構造は不燃性であり、耐火クラスA1で、錆から保護されていなければなりません。

契約者は、シェルターが短期間(3ヶ月以内)で建設される必要があることを考慮しなければなりません。

契約者は、保管シェルターの適切な直線アンカーソリューション(アンカーパイル)を地盤条件に基づいて 設計・構築しなければなりません。地盤は補強されていないコンクリートスラブ(設置エリア:道路タイ プ)です。壁の底部と地面(アスファルト)の間には、水の侵入を防ぐための適切なシールが設置されなけ ればなりません。 サービスの完全な範囲については、添付の技術仕様書ref. CSRH3M v1.0をご覧ください サービスの完全な範囲については、添付の技術仕様書をref. CC7MWX v1.0.をご参照ください。

○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。

<u>特に注意:</u>

<u>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、</u> <u>https://www.iter.org/fr/proc/overview</u>

<u>を参照してください。</u>

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。

▶ <u>ステップ 2-入札への招待</u>

PIN の発行から 10 作業日経過後、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。

<u>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。</u>

▶ <u>ステップ 3-入札評価プロセス</u>

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2月13日
関心表明フォームの提出	2025年2月24日
iPROC での提案依頼書の発行	2025年2月24日
サイト訪問予定	2025年3月4日(午前中)確
	認中
入札提出	2025年3月24日
契約授与	2025年4月
契約調印	2025年5月
サービス開始	2025年5月

○契約期間と実行

ITER機構は2025年の4月ごろ供給契約を授与する予定です。予想される契約期間は、作業のために84暦日とし、その後、365日間の欠陥通知期間が続きます。

この調達に適用される契約条件は、FIDIC短縮版契約書(第1版 1999年版、通称:グリーンブック)です。

○経験

候補者(コンソーシアムメンバーを含む)は、手続きの厳格さとトレーサビリティが重要な、核また はそれに類似した高規制環境でのリフティング作業の経験を有していることが求められます。 候補者(コンソーシアムメンバーを含む)は、30トンから1000トンの容量を持つクレーンを所有し ていることが求められます。

候補者(コンソーシアムメンバーを含む)は、高い安全文化を示すことが求められます。 ITER プロジェクトの公式言語は英語です。すべてのコミュニケーションは英語(ロ頭および書面) で行う必要があります。候補者は、プロジェクトマネージャーおよび現場マネージャーの役割を担 い、英語を堪能に使用できるスタッフを確保することを求められます。

○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「**Design and Construction of Z5.3 storage shelter**」をご参照ください。】

ITER 公式ウェブ <u>http://www.iter.org/org/team/adm/proc/overview</u>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。



PRIOR INDICATIVE NOTICE (PIN) OPEN TENDER SUMMARY IO/25/OT/10031008/FMR

For

Design and Construction of Z5.3 storage shelter

Abstract

The purpose of this summary is to provide prior notification of the ITER Organization's intention to launch a competitive Open Tender process in the coming weeks. This summary provides some basic information about the ITER Organization, the technical scope for this tender, and details of the Tender process for the Design and Construction of Z5.3 storage shelter

1 Introduction

This Prior Indicative Notice (PIN) is the first step of an Open Tender Procurement Process leading to the award and execution of a Works Contract (FIDIC Short Form of Contract – Green book).

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 <u>www.iter.org</u>.

3 Scope of Work

The scope of this contract is to design, supply, install a covered shelter to be constructed on storage zone Z5.3 of the ITER site.

The Contractor shall install a shelter which shall meet the following minimum requirements:

- Weather tight roof and walls;
- Compliant with the relevant safety and health regulations applicable in France and Europe;
- The building shall be designed for lifetime of 5years and withstand the local climatic conditions, according to the Eurocodes 0, 1, 3 and 8.

The following size of shelter is expected to be constructed at the ITER Site:

Shelter	B5.3
Minimum usable height (m)	бт
Width usable (m)	25m
Length usable (m)	40 m long
Surface	1,000m ² – usable surface

The shelter shall have free spans, i.e. without intermediate columns inside the building. The main structure of the building shall be incombustible, fire class A1 and protected against rust.

The Contractor shall take into account that the shelter needs to be constructed in a short timeframe (less than 3 months).

The Contractor shall design and built the appropriate direct anchoring solutions for the storage shelter – anchoring piles, according to the ground conditions, i.e. a non reinforced concrete slab (laydown area: road type). Appropriate sealing shall be installed between the bottom of the walls and the ground (asphalt) in order to avoid any water ingress.

For the full scope of services, please see the attached Technical Specifications, ref. CSRH3M v1.0.

4 **Procurement Process & Objective**

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

The Procurement Procedure selected for this Tender is a so-called **Open Tender** procedure.

The Open Tender procedure is comprised of the following four main steps:

Step 1- Prior Information Notice (PIN)

The PIN 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" by the date indicated in the procurement timetable below.

Special attention:

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

When registering in Ariba (I-PROC), 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 – Request for Proposal (RFP)

After 10 calendar days of the publication of the PIN, the Request for Proposals (RFP) will be published on our digital tool "I-PROC". This stage allows interested bidders who have indicated their interest to the Procurement Officer in charge AND who have registered in I-PROC 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 the I-PROC 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 works in line with the technical scope and in accordance with the particular criteria listed in the RFP.

➢ Step 4 − Contract Award

A Works Contract will be awarded on the basis of <u>lowest priced technically compliant offer</u> according to the evaluation criteria and methodology described in the RFP.

5 **Procurement Timetable**

The tentative timetable is as follows:

Milestone	Date
Publication of the Prior Indicative Notice (PIN)	13 Fevrier 2025
Submission of expression of interest form	24 February 2025
Request for Proposal launched on I-PROC	24 February 2025
Site Visit placeholder	4 th March 2025 (Morning) – to be confirmed
Tender Submission	24 March 2025
Contract Award	April 2025
Contract Signature	May 2024
Start of Services	May 2024

6 Quality Assurance Requirements

The Candidate shall have ISO 9001 or shall submit to the IO for approval its "Quality Assurance Program" in the Tender Submission for the IO's review and acceptance.

7 Contract Duration and Execution

The ITER Organization shall award the Works Contract around April 2025. The contract duration shall be 84 calendar days for the works, followed by a Defect Notifications Period of 365 days.

The conditions of Contract that will apply to this procurement is the FIDIC Short Form of Contract, First Edition – 1st edition 1999 (called: Green Book).

8 Candidature

Participation is open to all legal entities participating either individually or in a grouping/consortium. A legal entity is an individual, company, or organization that has legal rights and obligations and is established within an ITER Member State, being: the European Union (represented by EURATOM), Japan, the People's Republic of China, India, the Republic of Korea, the Russian Federation and the USA.

Legal entities cannot participate individually or as a consortium partner in more than one application or Tender of the same contract. A consortium may be a permanent, legally established grouping, or a grouping which has been constituted informally for a specific Tender procedure. All members of a consortium (i.e. the leader and all other members) are jointly and severally liable to the IO.

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 IO of any changes. Evidence of any such authorisation shall be submitted to the IO in due course in the form of a power of attorney signed by legally authorised signatories of all the consortium members.

All consortium members shall be registered in I-PROC.

9 Sub-contracting Rules

Subcontracting is limited to 30 % of the contract value and up to level 2.

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

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

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



IDM UID

version created on / version / status 17 Dec 2024 / 1.0 / Approved

EXTERNAL REFERENCE / VERSION

Technical Specifications (In-Cash Procurement)

Technical Specifications for the Design and Construction of B5.3 storage building

This document provides the Technical Specifications for the Design and Construction of B5.3 storage building

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1 Purpose

1.1 Background

ITER is a joint international research and development project aiming to demonstrate the scientific and technological feasibility of fusion power for peaceful purposes. The seven members of the ITER Organization are: The European Union (represented by EURATOM), Japan, the People's Republic of China, India, the Republic of Korea, the Russian Federation and the USA. Further information is available on the ITER website: <u>http://www.iter.org.</u> The ITER Organization is located in Saint Paul Lez Durance (13115) – France.

To address new need of storage, a contract is to be put in place with a qualified Contractor in order to construct a shelter on the ITER Site at short notice. The aim of this shelter is to house TB21 components in storage.

1.2 **Purpose**

The purpose of this Technical Specification is:

- To provide the technical requirements for the supply and installation of the shelter to be erected at the ITER Site;
- To provide the Contractor background information that is necessary to commence, carry out and complete the projects on the ITER Site, e.g. the ITER Site conditions;
- To specify applicable norms and regulations that the Contractor shall have to respect in order to meet the project performance requirements of the ITER Organization.

2 Scope

The scope of this contract is to design, supply, install a covered shelter named B5.3 to be constructed on the zone 5, lot 3 of the ITER site. The shelter shall be designed to be usable for at least 5 years.

3 Time for completion

The exact Time for Completion of the Works is specified in the Contract.

Below, the tentative schedule expected:

- T0 (March),
- T0+2 weeks: design validated,
- T0+8 weeks (May): shelter construction,
- T0+12weeks (June): end of the works

4 Acronyms and Definitions

The following acronyms may be found in this document:

PPSPS:	Individual Health Protection and Safety Plan (from French : Plan Particular de		
	Sécurité et de Protection de la Santé)		
PRE:	Environmental Requirements		
PTW:	Permit to Work		
BBSG	Type of Asphalt		
NC	Non-Conformance		
NF DTU	French Norm – French Building Code		
DN	French: Diamètre nominal (intérieur) / Nominal diameter (always interior)		
PW	Potable Water		
RW	Raw Water		
TPC	Tube de protection des cables, / English: duct to protect cable,		
RFI	Request for Information		
PIC	Protection Important Class		
PIA	Protection Important Activity		
EIC	Environmental Important Component		
Site	Places provided by the ITER Organization where the Works are to be executed, and any other places specified in the contract as forming part of the Site		
LOTO	Lockout / Tag out permit		
PF/EP	Permis de fouille / Excavation permit		
Works	The work and design to be performed by the Contractor including temporary work and any variation		
GNT	Grave non traitée/ Non treated gravelled		
PF2	Bearing capacity of a platform		
ARx	Quality of the platform following earthwork guide		
Qx	Compaction of a Platform		

5 Reference documents

- [1] General Management Specification for Service and Supply (GM3S) (ITER_D_82MXQK)
- [2] Chemical product management procedure, (ITER_D_W6EREY)
- [3] CAD instructions for companies, (ITER_D_9PNNM4)
- [4] Permit to Work Procedure, (ITER_D_UBET39)
- [5] Access procedure, (ITER_D_6Z6SN9)
- [6] Internal Regulations, (ITER_D_27WDZW)
- [7] PGCSPS Volume 1 Health and Safety General Coordination Plan for the construction of ITER Project,(ITER_D_T6V4RP)
- [8] Alert procedure, (ITER_D_7LB8NY)
- [9] Environmental Management Plan, (ITER_D_97W4PN)
- [10] Environmental requirements, (ITER_D_97WRFP)
- [11] COORDINATION DRAWING Temporary Networks Approximate Layout
- [12] In-Cash Procurement Technical and Management Documentation Exchange and Storage Procedure, (ITER_D_G8UMB3)
- [13] ITER Policy on Safety, Security and Environment Protection Management, ref. (ITER_D_43UJN7)
- [14] Housekeeping instruction, (ITER_D_XJKR3R)
- [15] ICPE pre-screening memorandum, (ITER_D_XJ8K6C)
- [16] Environmental Respect Plan, English template, (ITER_D_9FUP5C)
- [17] Daughter PTW procedure for IO Areas under CNST/SIM coordination (ITER_D_2BW3ZV)
- [18] Lifting Instruction (ITER_D_YJ9MBD)
- [19] Work at Height Instruction (ITER_D_Y5X8R7)
- [20] ITER Procurement Quality Requirements (ITER_D_22MFG4)
- [21] Procedure for management of Nonconformity (ITER_D_22F53X)
- [22] Procedure for the management of Deviation request (ITER_D_2LZJHB)
- [23] Quality Classification Determination (ITER_D_24VQES)
- [24] Requirements for Producing Quality Plan (ITER_D_22MFMW)

6 Work Description

6.1 Location

The working area is located on the East side of the ITER site on the zone 5, lot 3.



Figure 1 – Location of the works

6.2 Introduction

The Contractor shall install a shelter which shall meet the following minimum requirements:

- Weather tight roof and sides to protect the ITER components in storage against the main climatic risk;
- Compliant with the relevant safety and health regulations applicable in France and Europe;
- The building shall be designed for life of 5years and to withstand the local climatic conditions e.g. snow and wind; and, according to the Eurocodes 0, 1, 3 and 8.

The Contractor shall take into account that the shelter need to be constructed at short notice (less than 3 months). The warehouse dimension shall be: 25m wide, 40m long and 6m high (free clearance).

The Contractor shall design and built the appropriate direct anchoring solutions for the storage shelter – anchoring piles, according to the ground conditions, in this case: non reinforced concrete slab (laydown area: road type). Appropriate sealing shall be installed between the walls bottom and the ground (asphalt) in order to avoid any water ingress.

The Contractor is fully responsible for the design, manufacturing, delivery, installation, commissioning and dismantling of the shelter, including but not limited to:

- Any necessary investigation of ground conditions;
- Assessment of the suitability of access to the location of the storage facility to be constructed;
- Any administrative formality to enter and work at the ITER Site as described in the reference documents;
- The supply of all shelter components and all necessary tools and equipment for the installation and commissioning.

6.3 Size of the building

The following size of shelter is expected to be constructed at the ITER Site:

Shelter	В5.3
Minimum usable height (m)	6m
Width usable (m)	25m
Length usable (m)	40 m long
Surface	$1,000 \text{m}^2 - \text{usable surface}$

The warehouses shall have free spans, i.e. without intermediate columns inside the building. The main structure of the building shall be incombustible, fire class A1 and protected against rust .

6.4 **Roof**

To improve the thermal insulation and avoid condensation, a passive double-roof structure must be used. If the Contractor chooses a fabric roof solution, then the following minimum specific requirements must be met:

- The external skin of the roof shall be made of PVC coated 100% anti-UV polyester fabric with the unit weight of minimum 650g/m², and the flame retardant should be M2 French standard;
- The internal skin of the roof shall be made of PVC coated 100% polyester fabric with the unit weight of minimum 650g/m², and the flame retardant should be M2 French standard;
- The roof complex shall be translucent to let the natural light pass through.

6.5 Shelter rain gutter

The warehouse is to be equipped with rain gutters in aluminium with downpipes on the two long lateral sides to effectively evacuate the rain water from the warehouse roof. The dimension of the gutters should be designed taking into account the local weather conditions.

To evacuate the rainwater of the long west lateral side, the downpipes on the lateral sides will be collected by a main pipe and directed to the north end side of the storage facility. The aim is to avoid the releasing of rain water on the west façade.

For the east side of the shelter, there is no need of main collector, the downpipes will go independently till the platform level and un elbow will direct the water toward the shelter.

6.6 Cladding

The walls of the shelter shall be closed with polyurethane foam sandwich panel of minimum 40mm without CFC and the flame retardant should be M1 French standard. The panels shall be Pre-lacquered outside surface and the colour shall be chosen at later stage by the IO. Proper finishings shall be done at each singular points as corner, panels junctions...

The material chosen to close the wall shall be sufficiently resistant to withstand the climatic conditions of the ITER site.

The contractor shall propose a robust waterproofing system at the interface between the walls and the platform. In any case, the waterproofing system shall be inserted in the platform structure, and, not only laid on the surface.

The contractor shall propose an option in their offer with rockwool sandwich panel of 40mm and a variant with a thickness of 80mm.

6.7 **Doors**

The warehouse shall be equipped with the different door types as specified below.

6.7.1 Pedestrian door (emergency exit)

The warehouse shall be equipped with insulated doors to allow the ingress and exit of the pedestrians. The quantity and location of the pedestrian doors (emergency exits) shall be designed by the Contractor to be compliant with applicable regulations during the design phase. The doors shall meet the requirements listed below:

- A single door leaf, shall be provided with these dimensions: 0.9m usable wide and at least 2m usable high same colour than the cladding;
- Anti-panic push bar shall be equipped inside, with a door handle and a key hole for European cylinder dimensions 30/10 outside (locks to be provided by the IO);
- Thermal insulation shall be U-value < 2.0 W/m²K;
- The European fire classification shall be at least EI 2 with fire resistance during 30 minutes;
- Fixing devices shall be in steel and base plates in galvanised steel;
- An observation oculus window shall be on the upper side of the door;
- Doors shall be equipped with a strip seal or other element to prevent the ingress of water. In any case, the system must avoid tripping hazard or provide appropriate warning-safety signage.
- A PVC Photoluminescent evacuation panel unit shall be installed above each door to mark the pedestrian exit (conform to standards NF X 08-050-1 and NF X 08-050-2);

6.7.2 Manual sliding large door

On its south west side, the warehouse is to be equipped with a manual sliding large door providing an access for vehicles delivering components.

The door shall meet the following requirements listed below:

- The dimensions shall be: 4m wide and 4.5 m high free clearance;
- The full structure shall be protected against rust, and, the fixing devices shall be in steel and base plates in galvanised steel. The structure shall be mounted inside the building.
- Double metallic sliding leafs same colour than the cladding;
- The leafs shall be equipped with internal and external handles to operate the door. A lockable system compatible with a padlock shall be installed (padlock will be provided by the IO).
- Doors shall properly position in front the grating gutter (installed by another contractor out of the scope) to prevent the ingress of water;
- No floor rail type shall be acceptable, it shall be only a top guide rail;

6.7.3 Autonomous External lighting

Above each door (pedestrian and sliding), on the façade with appropriate robust fixation, the contractor shall install an autonomous solar external light projector with movement sensor detection and twilight sensor respecting the below specification:

- CE marked, Ip65 minimum and LED type,
- LED Colour shall be of natural tone: 4000,
- Power: 40W minimum, 4800Lumens minimum,
- LED lifetime shall be minimum 50,000 hours.

6.8 Anchoring of the Building

The contractor is responsible to design and built the anchoring system for the shelter.

The pavement structure is composed of, from the top to the bottom:

- 6cm of BBSG asphalt traffic class T5,
- 30cm of GNT subgrade with a minimal characteristics: PF2qs (>80MPa), q3, AR2 laid on a geotextile 200g/m2 minimum,
- General backfilling from the site, type C1B5, with a minimal characteristics: PF2 (>50MPa), q3, AR1.
- Natural soil,

Upon request, IO will be able to provide to the contractor the results of test performed on the backfilling layers.

6.12 Fire protection

The Contractor shall define the type, number and location of the fire extinguishers according to APSAD R4 regulations. Provision and installation of the fire extinguishers shall be the scope of the Contractor.

The signalization panel of each fire extinguisher shall be fluorescent (Photoluminescent).

All fire extinguishers shall be equipped with the identification plates providing the key details (unique ID number, type, size and date of fabrication as a minimum).

7 Site constrains

7.1 Site data

7.1.1 Geotechnical data

Refer to the chapter 6.8 above.

7.1.2 Existing buried networks

There is no existing buried networks in the area of the works as shown on reference document [11].

7.1.3 Necessary information

The Contractor shall be deemed to have obtained all necessary information as to risks, contingencies and other circumstances which may influence or affect the works. To the same extent, the Contractor shall be deemed to have inspected and examined the site, its surroundings, the above data and other available information, and to have been satisfied as to all relevant matters including (without limitation):

- The form and nature of the Site, including sub-surface conditions;
- The hydrological and climatic conditions;
- The extent and nature of the work and goods necessary for the execution and completion of the Works and the remedying of any defects;
- The laws, procedures and labour practices in France.

7.1.4 *Forest and protected trees*

The Works are located in the vicinity of a forest. Smoking is prohibited in the whole worksite area. Any soil pollution shall be avoided with adequate measures.

During dry periods, the Contractor shall implement measures to limit the spreading of dust as well as reduce fire risk.

The area is subject to the Prefectural Order regarding access to the forest. Therefore, the Works shall respect the access conditions associated to the daily fire risk level communicated during the summer months by the Prefecture, every evening for the next day:

- Green: works allowed with caution during all the day,
- Yellow: works allowed with particular caution from 5.30am to 1.00pm,
- Orange: access allowed but works forbidden,
- Red: access forbidden risk too high

The Contractor shall take into account this risk and adapt its working hours and/or methodology accordingly, if necessary.

7.2 Electricity provision

As there is no electrical network in the working area, if needed, the Contractor will be required to provide its own power generator. In the case the IO can provide an electrical connection to a nearby transformer, the temporary electrical worksite installation shall be foreseen in the scope of the Contractor.

7.3 Installation

The Contractor is fully responsible for the design, manufacturing, delivery, installation and commissioning of the warehouse, including but not limited to:

- Any necessary investigation of ground conditions (Geographical survey for the altimetry and network measures, Altimetry correction of the warehouse depending on the slope, tensile stretch test is asked at minimum);
- Assessment of the suitability of access to the location of the warehouse to be constructed and preparation of the works area (mobile worksite fence and mobile traffic light to ensure the safety and security of the worksite are in the scope of the Contractor);
- Any administrative formality to enter and work on the ITER Site,
- The supply of all the warehouse components and all necessary tools and equipment for the installation and taking over.
- Any container or temporary office to allow the workers to gather, drink and study the layouts of the structure, as well as chemical toilets. Potable water provision is also in the scope of the Contractor. The IO will provide access to sanitary block with shower and toilets but no lockers and the access to the worksite cantine which is at 3 minutes by car from the warehouse worksite.

7.4 Interfaces

The worksite is located in a storage are called zone 5 composed of 6 lots, and, it is surrounded by different areas with some constraints:

- The South, North and East side of area is directly facing the forest which is an area difficult or impossible to access,
- The West side is the common delivery road for the storage lots of the zone 5. Even if it shall be reduced to the minimum, the impact there can be possible and will be discussed in coordination meeting.

Nonetheless, due to the constraints listed above, the Contractor shall forecast as much as possible to erect the storage area within the storage facility footprint with a methodology minimizing the impacts on surrounding areas. The means to erect to the structure shall be adapted to the narrow environment listed below, all these points shall be considered in the proposal of the Contractor:

- North side: a strip of 3m of gravelled area should be considered between the forest area and the façade with a difficult access from outside,
- West side: the gravelled road, lower than the platform of the building (from 0 to -1.2m), should be consider for the building erection as the strip between the building façade and the edge of the platform will be narrower than 2m,
- East side: a strip of 4m of gravelled area should be considered between the forest area and the façade with a difficult access from outside,
- South side: a strip of 3m of gravelled area should be considered between the forest area and the façade with a difficult access from outside,

During the works, the main storage/working area shall be on the south side of the future warehouse – refer to the figure 2 below.

Any impact on a surrounding area shall be addressed as soon as possible and shall be validated by the Health & Safety Coordinator and the coordinator responsible of the area.



Figure 2 – Environment of the works

8 Specific General conditions and requirements

8.1 Applicable codes and standards

The Contractor shall comply with French design and construction standards or with European design and construction standards if such European standards exist and they are broadly equivalent to the French standards.

Unified Technical Documents (DTUs) and NF DTU specifications and calculation rules shall be considered as industry practice and are applicable to the Contract.

In case the Contractor's manufacturing process is not compliant with the DTU specifications, it shall provide a European (or French) technical assessment from EOTA (or CSTB).

The Contractor shall comply with the machinery directive 2006/42/CE. The equipment, when required, shall be CE marked.

For all products and materials subject to quality standards, the Contractor must only use products and materials that comply with said standards and be able to present evidence of compliance on ITER Organization request.

8.2 **Coordination of the works**

Coordination meetings shall be held at the ITER Site on a weekly basis, at which the Contractor, the ITER Organization and the Health & Safety Coordinator shall be represented.

At the meeting, the Contractor shall present a report showing its current and foreseen activities (with 2-week look-ahead) versus the current Schedule of Works. The Contractor shall record the minutes of the meeting and distribute them to all Parties who attended the meeting within 2 working days following the meeting.

8.3 Site facilities, cleaning and maintenance of the site

The Contractor shall provide its own temporary site facilities in conformity with the decree of January 8th, 1965, modified by the decree n°95608 of May 6th, 1995.

The Contractor shall secure the Site with a perimeter fence.

The Contractor shall establish a point of contact within his organisation that shall be available 24/7 (including weekends, bank holidays and site closure days) to deal with any incidents concerning the Contractor's Site in a fast and effective manner. The Contractor shall provide the ITER Organization with the direct contact details of this person and/or an on-call duty telephone number.

The temporary site facilities shall be located in the area close to the working area. In the case where the Contractor plans to connect its facilities to the existing networks, it shall be responsible for all necessary studies and works to implement these connections. The Contractor shall install relevant meters to ensure accurate monitoring of the consumptions. The ITER Organization shall not provide waste and wastewater connections to the Site. The Contractor shall be able to present the regulatory control reports of its premises without observation.

The roads and the areas around the worksite footprint shall be maintained in a constant state of cleanliness. The Contractor will take all necessary measures (scrubber, scraper, sweeper, karcher...). Should any said cleaning fail to be performed, it shall be done by a third party at the expense of the Contractor.

The Contractor shall be in charge to ensure:

- The permanent site clean and tidiness sustainability pavement used and rehabilitation of the site after work and dismantling of facilities;
- Removal, as and when they are produced, of the improper cuttings, rubble, demolition products, packaging, etc.., produced by itself or by its subContractors;
- The cleaning of its Works and existing structures damaged by its work (cleaning or restoration with appropriate products) during the works period;
- Thorough general cleaning prior to Taking-Over.

The Contractor shall, prior to Taking-Over by the ITER Organization, ensure that all the Contractor's temporary facilities and plant are removed from the Site.

8.4 **Protection of existing facilities**

The Contractor shall ensure that existing facilities are not damaged by the Contractor while executing the Works and that suitable protection is put in place when working in the vicinity of existing facilities.

In case of any damages to the existing facilities and/or third party assets caused by the Works execution, the Contractor shall cover the cost of the remedial works.

8.5 Health and safety requirements

The Contractor shall respect the French Labour Code and apply the nine general safety principles listed in article L4121-2 thereof.

The Contractor shall also comply with the following documents and all proceedings arising therefrom:

- Internal Regulations [6];
- General health and safety coordination plan (PGC SPS) Vol. 1 IO&F4E [7];
- Housekeeping Instruction [14];
- Lifting Instruction [18];
- Work at Height Instruction [19];

The ITER Organization has placed a contract to provide the services of a Health and Safety Protection Coordinator (HSPC) during the construction works. This contract is under the authority of the ITER Safety Department. The HSPC is mandatory for construction projects performed under the French Decree 94-1159. The HSPC defines the health & safety rules applicable on the site, reviews the specific health and safety plans (PPSPS) and co-ordinates activities from a health & safety perspective.

The Contractor's work will be subject to regular inspections by the HSPC and/or the ITER Safety Representative to ensure compliance with the health & safety practices, including but not limited to working at heights, housekeeping and storage of hazardous materials.

The Contractor and its subContractors shall establish a specific health and safety plan (PPSPS) using the ITER template (in French) and transmit it to the HSPC at least 15 working days (8 working days for subContractors) prior to the start of the Works.

Prior to the start of the on-site works, the HSPC performs a Common Inspection with the Contractor and its subContractors, in accordance with R4532-13 and R4532-14 of the French Labour Code.

All the Contractor and subContractor staff must follow a newcomer's safety training within 6 working days after the issuance of a permanent access badge. It does not relieve the Contractor

of its responsibilities with regards to the training of its staff for their work stations and the general safety rules in accordance with articles L4141-1 and following of the French Labour Code.

The Contractor shall pay specific attention to the safe and respectful behaviour of its on-site personnel. This includes supplying and wearing of appropriate personal protective equipment. In case the works involve the use of chemical products, the Contractor shall comply with the Chemical product management procedure [2] and fill in a chemical product acceptance form.

8.6 Nuclear Safety - Environmental protection

ITER is a basic nuclear facility (in French: "Installation Nucléaire de Base") identified in France by the number INB-174 and subject to the French Order of 7 February 2012 relating to the general technical regulations applicable to basic nuclear facilities.

For these activities, the Contractor shall comply with environmental protection requirements and procedures applicable at the ITER Site, as described in [9] and [10].

The Contractor shall ensure that these activities are carried out by Suitably Qualified and Experienced Persons. For this purpose, the Contractor makes the necessary provisions for training in order to maintain the required skills and qualifications for its staff and, whenever necessary, to develop them, and – in case these activities are carried out by sub-Contractors – ensures that its sub-Contractors make analogue provisions for their own staff.

Furthermore, the ITER Policy on Safety, Security and Environment Protection Management – refer to [13], presenting the strategical objectives of the ITER Organization for protecting the interests mentioned under Article L593-1 of the French Environmental Code, must be circulated, known, understood and applied by all staff of the Contractor and cascaded down in the managerial lines of the Contractor and its sub-Contractors.

An Environmental Respect Plan (PRE) shall be produced using the ITER template [16] and provided by the Contractor at a minimum of ten (10) working days prior to the start of the on-site Work.

The Contractor shall submit a monthly environmental report, at the latest, on the 5th day of each month forming part of the monthly report, containing the information for the previous month.

8.7 Access to the site

Access to the ITER Site is subject to entrance and exit control measures as defined in the ITER Site access Procedure [5]. The Contractor shall manage his accesses using HELIOS system in a timely manner.

Regular access hours for the ITER construction site are from 5:30 to 22:30 (Monday to Saturday). Access to the ITER Site outside regular access hours shall be possible for specific activities.

Specific controls are applied to personnel entering the site. For security purposes, access may be refused or withdrawn for any worker without justification.

8.8 **Permit To Work**

Prior to the start of any Works on the ITER Site, a Permit To Work must be obtained in accordance with the Permit To Work Procedure [4].

8.9 Language

All communication with the ITER Organization shall be in the English language. The Contractor shall ensure that there is at least one person present on the construction site at all times capable of communicating in English.

8.10 Quality Assurance

The Contractor shall have an ITER approved Quality Assurance (QA) Program or an ISO 9001 accredited quality system.

The general requirements are detailed in ITER Procurement Quality Requirements - refer to [20].

The Contractor shall obtain written agreement from the IO to any modifications to the design, scope and/or the requirements described in this specification. Deviations and non-conformities shall be processed in accordance with Procedure for management of Nonconformities – refer to [21] and Procedure for the management of Deviation Request – refer to [22]. The Contractor shall commit to process non-conformities reports (NCR) and associated remedial and corrective actions expeditiously. The list of the NCRs and the deviation requests (DRs) shall be included in the monthly report issued by the Contractor – refer to Section 9.5.2.

The project will be realised under Quality Class 4 as described in Quality_Classification_Determination_ - refer to [23].

9 Contractor Deliverables

9.1 List of planned document deliverables

At the start of the contract, a list of planned document deliverables shall be established between the ITER Organization and the Contractor. For this purpose, at the latest 2 weeks after the signature of the contract, the Contractor shall submit a draft list of deliverables and their planned issue date using the ITER template.

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.

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).

9.2 **Document and data exchange**

All deliverables (except drawings and diagrams in PDF format) shall be transmitted through the ITER Document Exchange Area in IDM.

Drawings and diagrams in PDF and native format shall be exchanged too.

9.3 **Document format**

All deliverables shall be provided in electronic format (PDF and native file) through IDM or SMDD.

The as-built file shall also be provided on CD-ROM or USB key and in paper format (3 copies). Drawings shall comply with reference document [15].

PDF documents shall have text recognition and include bookmarks.

All drawings produced by the Contractor shall comply with the CAD instructions for companies [3].

All documents shall be provided in English, unless stated otherwise in this document. The ITER Organization shall provide the Contractor with the AutoCAD files of the up to date version of [12] which on completion of the Works shall be updated by the Contractor accordingly.

9.4 **Document review and approval**

The Contractor shall allow for a review period by the ITER Organization of 20 working days. The review period shall start after the upload and the Contractor's signature of the document in IDM.

In case the ITER Organization disapproves the document or requests a revision, the Contractor shall update and resubmit the deliverable within 10 working days, taking into account the comments issued by the ITER Organization.

9.5 **Preliminary list of deliverables**

9.5.1 *Early deliverables*

The Contractor shall provide the following documents prior to the start of the design works:

- Operational flow chart;
- Environmental Respect Plan (refer to [10]);
- Site installation plan;
- Detailed Schedule of Works;
- List of subcontractor(s), if any;
- Plan (PPSPS) for the Contractor and each sub-contractor(s) submitted to the ITER Organization no later than 8 working days prior to the Works commencement;
- Access requests for personnel submitted to the ITER Organization minimum 8 working days prior to the Works commencement;
- Permit to Work Request including all the construction documentation submitted to the ITER Organization no later than eight (8) working days prior to the Works commencement;

The construction work shall not start before the above documents have been approved by the ITER Organization.

9.5.2 *Construction design and works*

The Contractor shall provide the following documents during the execution of the construction works:

- Detailed Schedule of Works updated if needed,
- Approved construction design drawings;
- Documentation defining the materials used and origin and justification of their characteristics;
- Results of control tests performed by the Contractor during the execution of the work;
- Statements relating to the hold points for control by the ITER Organization;
- Non-Conformance Reports (NCR) register and status to be updated and issued on a monthly basis;

- Request for Information (RFI) reports register and status to be updated and issued on a monthly basis;
- Monthly progress reports;
- All required documents concerned with the Contractor Quality Plan and Safety Plan or the environmental specifications of the ITER Organization or necessary to the traceability of the work.

Works construction without ITER Organization approval or in the absence of approved documents and samples shall be sanctioned by a stop work order until the situation has been rectified. All consequences of the work stoppage shall be borne by the Contractor.

A Monthly Report shall be submitted by the Contractor for acceptance by the ITER Organization five (5) working days after the end of each calendar month.

The Monthly Report shall contain:

- A narrative description of activities that have taken place over the period including photographic evidence of the progress of the Works;
- An update of the Schedule of Works (refer to Section 7.11.3 below) showing actual progress against planned progress;
- In the case where the Works are not progressing in accordance with the Schedule of Work, the report shall contain a detailed explanation of how the Contractor intends to recover the Schedule;
- A list and status of all RFI's submitted by the Contractor;
- A list and status of all Deviation Requests submitted by the Contractor;
- A list and status of all NCRs affecting the Works;
- A list and status of all ITER Organization requested Variations to the Works;
- A list of health and safety statistics;
- A number of worked hours on the Site;
- All accidents (including environmental issues / observation sheets) occurring on the Site (or elsewhere if connected to the Project);
- The number of accidents with lost working days;
- The number of lost working days per accident;
- A brief report of the causes of accidents or incidents as well as the corrective measures implemented following the accidents or incidents;
- An assessment of the training and safety awareness courses carried out during the month;
- Total number of workers curves as well as the number of hours worked per week;
- A list of environmental statistics including:
 - o electricity consumption,
 - o potable water consumption,
 - o raw water consumption,
 - o fuel consumption,
 - o quantities of waste generated, distinguishing between hazardous waste, non-hazardous waste, inert waste, concrete laitance and the overall percentage of recycled waste.

9.5.3 As-built file

After the execution of the Works, and prior to Taking-Over, a complete as-built file shall be provided by the Contractor, including:

• Detailed as-built drawings taking into account any change implemented during construction. The plans shall be revised as a final "as-built" version;

- Final design calculations;
- Register of all NCRs and RFIs reports raised during the execution of the contract (including the reports);
- Results and statements of the tests on site;
- Final topographic surveys, with DWG versions and statements of the Works carried out;
- Auto control tests showing the results of the control tests performed by the Contractor during the execution of the Works;
- Commissioning report showing the results of the control tests performed by the Contractor during the execution of the work;
- Worksite pictures folder documenting the as-built status of the Contractor deliverables.

The documents listed above shall be formally submitted to and approved by the ITER Organization. The Contractor shall allow for a review period by the ITER Organization of 10 working days.

9.5.4 Number and format

All deliverables shall be provided in electronic format (PDF and native file) through IDM. Drawings shall comply with reference document.

All documents shall be provided in English, unless stated otherwise in this document.

10 Taking-over

The Works shall be taken over by the ITER Organization when they have been completed in accordance with the contract, except for any minor outstanding work and defects which will not substantially affect the use of the Works for their intended purpose.

The Works shall not be considered as to be completed for the purposes of taking-over until the as-built documents have been provided by the Contractor.

ANNEX I

EXPRESSION OF INTEREST & PIN ACKNOWLEDGEMENT

To be <u>mukamai</u>	e returned by e-r naaline.nsengiyumva@iter.c	mail to: <mark>org</mark>	floriane.moynier@iter.org,	copy:
TENDER	No.	IO/25/OT/100310	08/FMR	
DESIGNATION of SERVICES:		Design and Construction of B5.3 storage shelter		
OFFICE	R IN CHARGE:	Floriane Moynie Organization	er – Procurement Division	ITER
	WE ACKNOWLEDGE H	AVING READ TH	E PIN NOTICE FOR THE A	BOVE
	WE INTEND TO SUBMIT	A TENDER		
Are you r	egistered in iPROC (only er	ntities registered in S), but we shall regi	iPROC will be invited to tende ster before the tender launch	r):
	Signature: Name: Position:		COMPANY STAMP	
	Tel:			
	E-mail			
	Date:			