

外部委託業者の募集

References: IO/24/OT/10028415 /JPA

"Modified TTTF Trial Test and Training Facilities"

(試用テストとトレーニング設備の調整)

IO 締め切り 2024 年 4 月 8 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。

本文書の目的は作業範囲と入札プロセスに関する技術的な内容の基本的な要約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

本作業の契約者の作業範囲は以下が含まれます。

- 縮小 TTTF 構造の IO ワークサイト (B 56) 上のサイトの構築;
- TTTF 構造物への追加の梁および支柱の設計、製造および取り付け

詳細については、付属書 II の技術仕様書 8MVFC7 v1.1 および次のリンク (password=ITER) にリストされている文書を参照してください。

<https://owncloud.iter.org/index.php/s/kQx0KgYQom5rMV4>

○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。

- 会社名
- 登録の国名
- 担当者名、email アドレス、肩書および電話番号

特に注意:

関心のある候補企業は、IO Ariba の電子調達ツール「IPROC」に登録してください（まだ登録していない場合）。手順については、

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

を参照してください。

Ariba (IPROC) に登録する際には、お取引先様に最低 1 名の担当者の登録をお願いします。この連絡担当者は、提案依頼書の発行通知を受け取り、必要と思われる場合は入札書類を同僚に転送することができます。

➤ ステップ 2-入札への招待

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。

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	2024 年 3 月 29 日
関心表明フォームの提出	2024 年 4 月 8 日 (PIN 発行の 10 日後)

iPROC での入札への招待（ITT）の発行	2024 年 4 月 12 日
明確化のための質問の締め切り	2024 年 5 月 10 日
明確化のための質問への回答締め切り	2024 年 5 月 14 日
入札提出	2024 年 5 月 24 日
契約授与	2024 年 6 月
契約調印	2024 年 7 月

○契約期間と実行

ITER機構は2024年の6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9週間の予定です。

○経験

契約者は、IO の規則と安全性の要求に十分に準拠する能力と経験を持っていることを示す必要があります。

○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。

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指名されたコンソーシアムのリーダーは、入札段階で、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「**Technical Specification for the Modified TTTF Structure**」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。

PRIOR INDICATIVE NOTICE (PIN)

OPEN TENDER SUMMARY

IO/24/OT/10028415/JPA

for

Modified Trial, Test and Training Facilities (TTTF)

List of annexes:

- Annex I – Expression of Interest
- Annex II – Technical specification 8MVFC7 v1.1

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 Indicative Notice (PIN) is the first step of an Open Tender Procurement Process leading to the award and execution of a 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 scope of work for the Contractor would include:

- Site erection on IO worksite (B56) of a reduced TTTF structure;
- Design, manufacturing and installation of additional beams and supports onto the TTTF structure

For more details, please refer to Annex II - Technical specification 8MVFC7 v1.1, and referenced documents listed in the following link (password = ITER):

<https://owncloud.iter.org/index.php/s/kQx0KgYQom5rMV4>

4 Procurement Process & Objective

The objective is to award a 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”, if they have not already done so. You can find all links to proceed along with instruction going to: <https://www.iter.org/fr/proc/overview>.

When registering in 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**

After 10 calendar days of the publication of the PIN, the Request for Proposals (RFP) will be published on our digital tool “iPROC”. This stage allows interested bidders who have indicated their interest to the Procurement Officer in charge AND who have registered in iPROC to receive the notification that the RFP is published. They will then prepare and submit their proposals in accordance with the tender instructions detailed in the RFP.

Only companies registered in this tool (iPROC) 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**

A Supply contract will be awarded on the basis of Best Value for Money, 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)	29/03/2024
Submission of expression of interest form	08/04/2024 (10 days after PIN publication)
Invitation to Tender (ITT) launched on iPROC	12/04/2024
Clarification Questions Deadline	10/05/2024
Clarification Response Deadline	14/05/2024
Tender Submission	24/05/2024
Contract Award	June 2024
Contract Signature	July 2024

5 Quality Assurance Requirements

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

6 Contract Duration and Execution

The ITER Organization should award the Supply Contract around June 2024. The contract duration shall be 9 months.

7 Experience

The candidates shall need to demonstrate that they have the capabilities to supply the required goods and services in full compliance with the applicable standards as well as with the ITER quality and safety requirements.

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 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.

All consortium members shall be registered in IPROC.

9 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.

Subcontracting is limited to 30% of the contract value and is allowed up to level 1.

Technical Specifications (In-Cash Procurement)

Technical Specification for the Modified TTTF Structure

The purpose of this technical specification is to define the requirements and work description for the contract to install on ITER site and perform necessary modifications of the Trial, Test and Training Facility (TTTF).

The scope is to perform design and supply of structural modifications and components required to adapt the TTTF for VV welding activities and to install a preliminary reduced footprint TTTF structure in B56 for the initial phase of training and preparation.

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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) – [R.1] that constitutes a full part of the technical requirements.

In case of conflict, the content of the Technical Specification supersedes the content of [R.1].

2 Acronyms & Definitions

2.1 Acronyms

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

Abbreviation	Description
B56	Building 56 (Formerly the Cryostat Workshop)
BOM	Bill Of Material
CMA	Construction Management as Agent
CRO	Contract Responsible Officer
CRR	Construction Readiness Review
DRR	Delivery Readiness Review
GM3S	General Management Specification for Service and Supply
HIRA	Hazard Identification & Risk Assessment
HSE	Health, Safety and Environment
IO	ITER Organization
ITP	Inspection Test Plan
IWP	Installation Work Package
KOM	Kick-Off Meeting
MTO	Material Take Off
PPSPS	Plan Particulier Sécurité et Protection de la Santé/Health Protection and Safety Plan
PRO	Procurement Responsible Officer
SAT	Site Acceptance Test
TTTF	Trial, Test and Training Facility
VV	Vacuum Vessel

Table 2-1: Acronyms

2.2 Definitions

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

CRO or IO-CRO: The CRO is responsible to manage the Contract in relation with the Contractor. As such, the CRO is the primary contact for Contractor Representative. Refer to §4.2.2.1 of [R.1].

3 Purpose

The purpose of this technical specification is to define the requirements and work description for the contract to install on ITER site and perform necessary modifications of the Trial, Test and Training Facility (TTTF) by the company in charge of this activity.

4 TTTF General Information

4.1 Full TTTF configuration

The purpose of the Trial, Test and Training Facility is to qualify and test the tools dedicated to the assembly of components inside the Vacuum Vessel (VV) of the ITER plant. The main structure of the TTTF, as seen in Figure 1 has already been designed, manufactured, packaged and is stored at the IO premises.

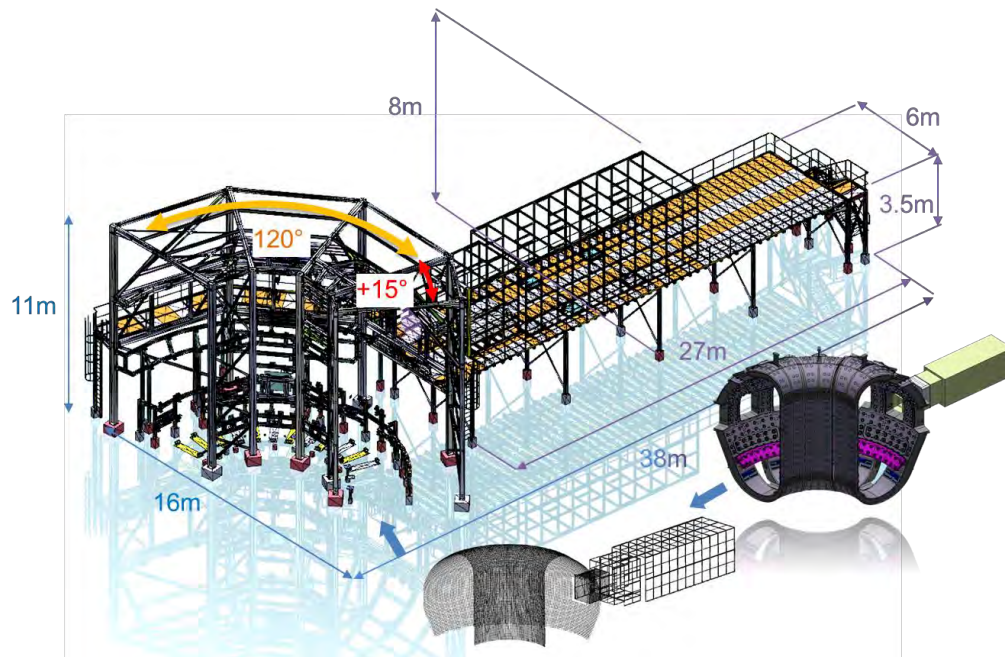


Figure 1: Full TTTF Dimensional View

The TTTF is a steel structure mock up that represents three VV sectors including the main dimensions and access to the corridor representing one equatorial through port access. It includes the mechanical interfaces of the in-vessel components which will have to be handled, introduced, and finally positioned inside the VV as well as the various mechanical interfaces of all the tools that need to be qualified.

The main functions of the TTTF are to:

- Demonstrate that access, handling and installation tools can be assembled and operated in-vessel and through the equatorial port.
- Demonstrate the suitability of installation procedures for tools and components and validate logistical solutions before implementing them on site.
- Enable future operators to train on the validated tools and procedures.

4.2 TTTF configuration for early Vacuum Vessel Assembly Works

Due to the limitation of space at the ITER site, a reduced footprint TTTF will be initially constructed as seen in Figure 2. This installation is part of the scope of work of this contract in accordance with the requirements defined in subsequent sections. The future expansion of the TTTF to erect the full structure is not part of the scope of this contract.

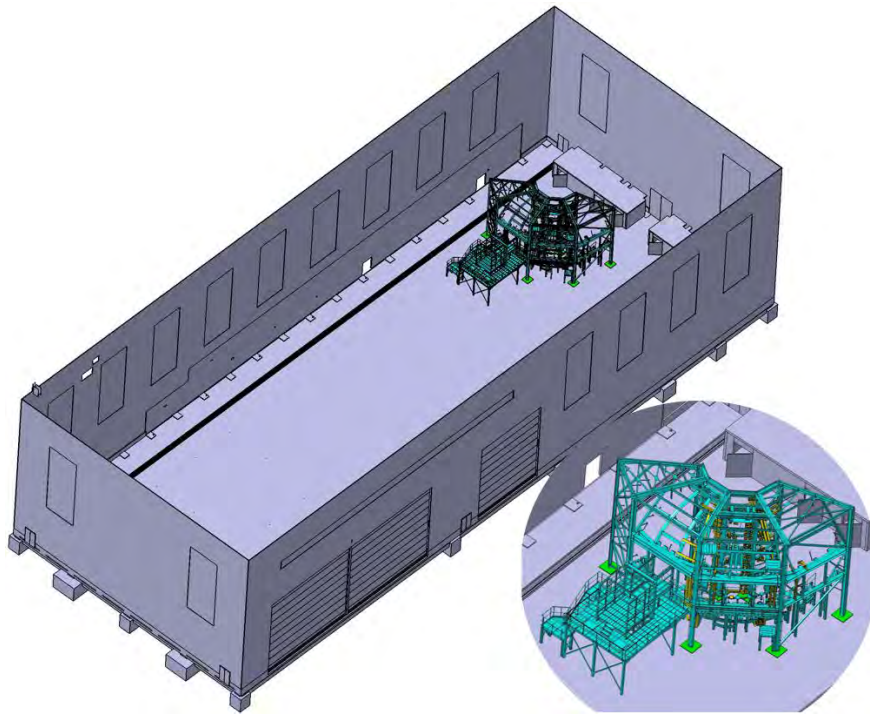


Figure 2: TTF Reduced Configuration in B56

4.3 TTF modification

In order to increase the functionality of the TTF structure, it will be modified as shown by the yellow models in Figure 3. The design, supply and installation of these modifications is part of the scope of work of this contract in accordance with the requirements defined in subsequent sections.

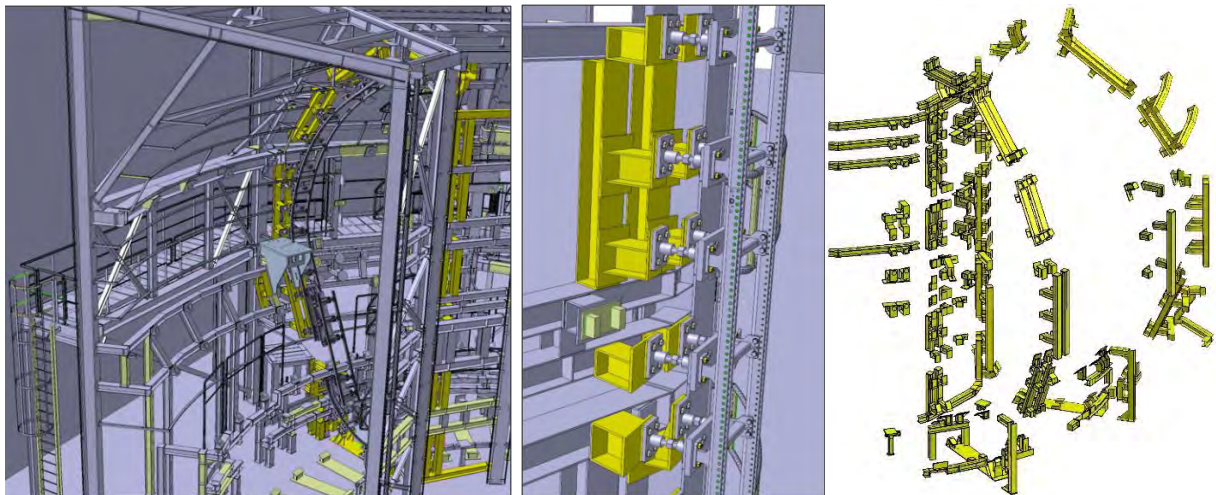


Figure 3: TTF Modifications

5 Applicable Documents, Codes and standards

5.1 Applicable Documents

This is the responsibility of the Contractor to review and understand all of the documents listed below and to request clarifications or additional information promptly to the CRO if applicable.

In case of conflicting information, this is the responsibility of the Contractor to seek clarification from IO. In general, this Technical Specification takes precedence over the referenced documents.

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.

Title	IO Reference
[R.1] General Management Specification for Service and Supply (GM3S)	82MXQK
[R.2] Installation book for TTTF	VQM6Z8
[R.3] In-vessel Staging General Arrangement Drawings	WXPCA9
[R.4] TTTF Manufacturing drawings	3U27KC
[R.5] TTTF Erection drawings	3U26VF
[R.6] TTTF Interfaces Drawings	WXT3Y9
[R.7] Calculation note for TTTF	VNK447
[R.8] DR-63.56.GC-C.0.SB.FW-3051-SBT-II-Building 56 Shaft Foundation and Raft Plan View and Sections	KTQ6R4
[R.9] B56 General Arrangement Drawing	AN6RQE
[R.10] TN-63.56.GC-C.0.SB.TN-3002-SBT-II-(RAFT and Exterior paving)	KS2JRZ
[R.11] B56 Gantry Crane Operating and Maintenance Instructions	PU62EQ
[R.12] B56 Gantry Crane Mechanical Drawings	PU8MKW
[R.13] Crane general assembly	LSHC4F
[R.14] Electrical Location and Wiring level 1	appendix
[R.15] Procedure for the Storage & Inventory of ITER Components at the ITER Site	RWYED5
[R.16] In-vessel Staging User Manual	WUTEMN
[R.17] Procedure for Management of Nonconformities	22F53X
[R.18] Requirements for Producing a Quality Plan	22MFMW
[R.19] Requirements for Producing an Inspection Plan	22MDZD
[R.20] Work Instruction for producing an Inspection and Test Plan for construction	UEL9F
[R.21] Requirements for Producing a Contractors Release Note	22F52F
[R.22] ITER Procurement Quality Requirements	22MFG4
[R.23] Design Review Procedure	2832CF
[R.24] Working Instruction for Construction Readiness Review	QXW4KQ

Title	IO Reference
[R.25] Applicable Codes, Standards and Regulations for the Design of the Machine Assembly Tools	D3Q5XP
[R.26] Instructions for Structural Analyses	35BVV3
[R.27] Instructions for the Storage of Analysis Models	U34WF3
[R.28] Procedure for Analyses and Calculations	22MAL7
[R.29] Site Plan - ITER Site Map	37UASM
[R.30] FEM analysis VV railway system	VVW-RXX-P22-00013
[R.31] Procedure for the Usage of the ITER CAD Manual	2F6FTX
[R.32] Procedure for the CAD management plan	2DWU2M
[R.33] Cleanliness strategy B56	9PPS86
[R.34] 3D models of the TTTF and equipment	Transmitted through FTP

Table 5-1: Applicable Documents

5.2 Applicable Codes and Standards

It is the responsibility of the Contractor to procure the relevant Codes and Standards applicable to the scope of work. The Contractor shall clarify promptly with the CRO should addition or alternative codes and standards be deemed necessary by the Contractor.

Ref	Title
CS1	Directive 2006/42/EC of the European parliament and of the council of 17 may 2006
CS2	Directive 2006/95/EEC dated 12th December 2006 Electrical Equipment Directive
CS3	FEM October 1998 European Construction Code for Handling equipment, for lifting function
CS4	Eurocode 3 EN 1993, for structure
CS5	NFC 32070 Insulated cables and flexible cords for installations - Classification tests on cables and cords with respect to their behaviour to fire
CS6	L00-015C:1997 – Conformity certificate
CS7	ISO 2768-1 et 2 (1989) General tolerances
CS8	NF EN ISO 1302 (2002) Indication of surface texture in technical product documentation
CS9	NF EN ISO 13920 (1996) Welding. General tolerances for welded constructions. Dimensions for lengths and angles. Shape and position
CS10	NF EN E52-109-1 and 2 Lifting and handling - Making and testing of welded joints in lifting and handling equipment
CS11	NF EN 10204 (2005) Metallic products - Types of inspection documents
CS12	ISO 14122 Permanent means of access to machinery, for personal access
CS13	French Work regulation - Art. R. 4223-1 to Art. R. 4223-15

Table 5-2: Applicable Codes and Standards

6 Scope of Work

The scope of the work includes:

- Site erection in B56 of a reduced TTTF structure in accordance with §7.1;
- Design, manufacturing and installation of additional beams and supports onto the TTTF structure in accordance with §7.2;

The expected duration for the full scope of work is 9 months from contract signature.

The existing TTTF structure will be delivered to ITER site prior to the start of the Contractor's activities and will be made available to the Contractor at a dedicated laydown area on the ITER site.

The transfer of the equipment within the construction site is the responsibility of the Contractor. The installation sequence in the responsibility of the Contractor to define with support from the CRO. The following main steps are anticipated and to be refined:

- Load distribution plates positioning on the concrete slab
- Anchorage drilling and shimming
- Structure Erection and implementation of the modifications
- Assembly and setting of the tools interfaces
- Electrical installation

6.1 List of Milestones and Due Dates

This section and Table 6-1 define the main milestones and administrative hold points necessary for the Contractor to deliver on the scope of work.

Ref.	Milestone	Milestone date
[M.1]	Building Foundation reinforcement CRR for §7.1 scope	T0 + 2 months
[M.2]	Main Structure erection CRR for §7.1	T0 + 2 months
[M.3]	FDR for §7.2 scope	T0 + 4 months
[M.4]	CRR for §7.2 scope	T0 + 6 months
[M.5]	DRR for §7.2 scope	T0 + 6 months
[M.6]	Site Works Completion Dossier	T0 + 9 months
T0 is the kick-off meeting that will be held within two weeks after the contract signature.		

Table 6-1: List of Milestones

Milestones [M.1], [M.2] and [M.4]:

Serves as a Hold Point for the start of site works pending approval of the completed CRR by the CRO for the associated with the work scope. The CRR will be an adapted review based on [R.24], with the minimum set of documents to be delivered as per Table 6-3.

Milestone [M.3]:

Serves as a Hold Point for the start of procurement and manufacturing of the associated scope.

Milestone [M.5]:

Serves as a Hold Point for the delivery of the procured and manufactured components of the associated scope.

Milestone [M.6]:

Upon completion of this milestone, the structure and components are considered handed over to the IO.

6.2 Work Monitoring / Meeting Schedule

The Contractor shall assign a dedicated project manager who will act as the Contractor Representative (see §4.21 of [R.1]) and main point of contact with IO. This project manager shall prepare weekly progress meetings with the IO in order to ensure efficient resolution of issues and progress reporting. The minutes of these meetings shall be written by the Contractor in the simplified form of a table of action items.

If the Contractor consists of a consortium, the consortium shall act as a single entity through the dedicated project manager with all communication to IO.

Milestone Hold Point meetings referenced in Table 6-1 are defined in [R.1]. These meetings may be remote, at the IO site or at the Contractor’s facility at the discretion of IO.

IO reserves the right to visit the Contractor’s premises, including the right to visit the premises of subcontractors.

Documents will be reviewed by the IO within two weeks of formal reception from the Contractor, unless the Contractor clearly communicates to the CRO and is agreed for accelerated document review cycles on an ad hoc basis.

The CMA will support the IO in the organisation and conduct of coordination meetings during the site construction phases. A representative of the Contractor shall attend these meetings that will take place on ITER Site. These meetings complement and shall not substitute normal surveillance performed by the IO during the performance of the Works.

Coordination meetings	<p>The Contractor shall participate in daily & weekly coordination meetings, when required.</p> <p>The CMA organizes weekly site construction coordination meetings to follow-up the progress of the works: to do so, the agenda includes:</p> <ul style="list-style-type: none">• 7-day calendars and 3-week look-ahead schedule for site coordination,• Contractor’s staff and main tools on site• Construction progress regarding the previous week forecast,• Issues encountered and solutions implemented,• Construction site organization feedback including health & safety and environment aspects,• Coordinate the works between the different Contractors,• Forecasts for delivery, logistics and activities for the following weeks,• Check that all operational prerequisites to works (health and safety measures, workers access, specific authorizations, access to delivery points ...) are cleared. <p>Analysis of the specific constraints identified on the schedules issued by the Contractor.</p> <p>Minute of meeting to be written by the CMA.</p>	weekly / daily
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6.3 Deliverables

The official language of the ITER Project is English and the deliverables, meetings and exchanges of e-mail shall be in English.

The documents deliverables shall be reviewed by the IO-CRO and IO technical experts for technical acceptability and adequacy.

The deliverable table is the following:

#	Deliverable description	Acceptance criteria	Due Date
D1	Building Foundation reinforcement completion	Authorization by IO to proceed with TTTF initial structure erection	T0 + 3 months
D2	Initial structure completion	End of installation report accepted by IO	T0 + 4 months
D3	Completion of final design review for modified structure	[M.3] documents accepted by IO	T0 + 6 months
D4	Handover of the final structure to IO including approved mechanical completion dossier	Handover report and [M.6] documents accepted by IO	T0 + 9 months

Table 6-2: Contract Deliverables

Table 6-3 defines the minimum list of documents to be produced by the Contractor and the associated milestone for which the document approval is required. The Contractor may propose additional necessary documentation or alternatives to be agreed by the CRO.

Documentation developed shall be retained by the Contractor for a minimum of 5 years and then may be discarded at the direction of the IO.

For all deliverables submitted in electronic format the Contractor shall ensure that the release of the software used to produce the deliverable shall be the same as that adopted by the ITER Organization.

The Supplier shall provide IO with the documents and data required in the application of this technical specification, the GM3S [R.1] and any other requirement derived from the application of the contract.

Documents to be supplied	Milestone^{1,2}
Project Management Plan	BK
Quality Plan as per [R.18]	BK
Civil Construction Drawings	[M.1]
PPSPS	[M.1]
Civil Calculation Report	[M.1]
Construction and Cleanliness Procedure	[M.1]
Inspection and Test Plan as per [R.20]	[M.1]
PPSPS ²	[M.2]
Mechanical Assembly Drawings	[M.2]

Documents to be supplied	Milestone ^{1,2}
Mechanical Assembly Procedure	[M.2]
Cleanliness Procedure ²	[M.2]
Inspection and Test Plan as per [R.20]	[M.2]
Integrated Structural Integrity Report	[M.3]
Calculation report	[M.3]
General Arrangement Drawing(s)	[M.3]
Component Drawing(s)	[M.3]
PPSPS ²	[M.4]
Mechanical Assembly Drawings	[M.4]
Mechanical Assembly Procedure	[M.4]
Cleanliness Procedure ²	[M.4]
Inspection and Test Plan as per [R.20]	[M.4]
Material Certificates	[M.5]
End of Manufacturing Reports	[M.5]
Identification and traceability procedure	[M.5]
Contractor Release Note (CRN)	[M.5]
Packing List	[M.5]
Delivery Report	[M.5]
3D CAD models	[M.5]
Inspection and Test Plans and Records Signed	[M.6]
As-Built Drawing Mark Ups	[M.6]
Record of completed FCRs and NCRs	[M.6]
Record of Return to Storage for Parts not Installed	[M.6]
1. BK: Before Kick-off meeting; 2. The Contractor may combine or update documents to allow applicability for multiple milestones.	

Table 6-3: Contract Documents

Inspection and Test Plan:

Prior to commencement of any manufacturing, pre-fabrication or site installation works, an inspection plan shall be produced by the Contractor and subcontractors for the CMA review and the IO approval. The ITP (MIP in case of Manufacturing or pre-fabrication) shall comply with [R.20]. This ITP shall incorporate the control points required by the CMA and the IO in the CWP and shall be submitted within 20 calendar days before starting the work. The IO will mark up any additional control points.

ITPs are used to monitor quality control and acceptance tests during the execution of the Contract. The overseeing of the quality control operation by the IO shall not release the Contractor from his responsibility.

The IO shall ensure a close oversight of the production of its main contractors and subcontractors in accordance with the approved Inspection and Test Plan (ITP/MIP).

7 Work Description

7.1 Installation of Reduced Footprint Base TTTF Structure

The Contractor is responsible for the installation the reduced footprint TTTF structure as shown in [R.9] in Building 56.

The work includes the design and construction of any required civil works and anchoring system to reinforce the slab in accordance with §8.2.

The Contractor shall assess all the applicable documents and requirements, and then to propose the optimal preassembly of the TTTF structure not requiring major rework due to the modifications as required in §7.2.

The scope includes the addition of minor modifications to the structure to ensure the safe access for personnel. This includes ensuring all modified guard rails and floor coverings are compliant with all French laws and regulations for occupational safety.

This scope includes the logical repacking of the unused TTTF components and handover to IO for long term storage.

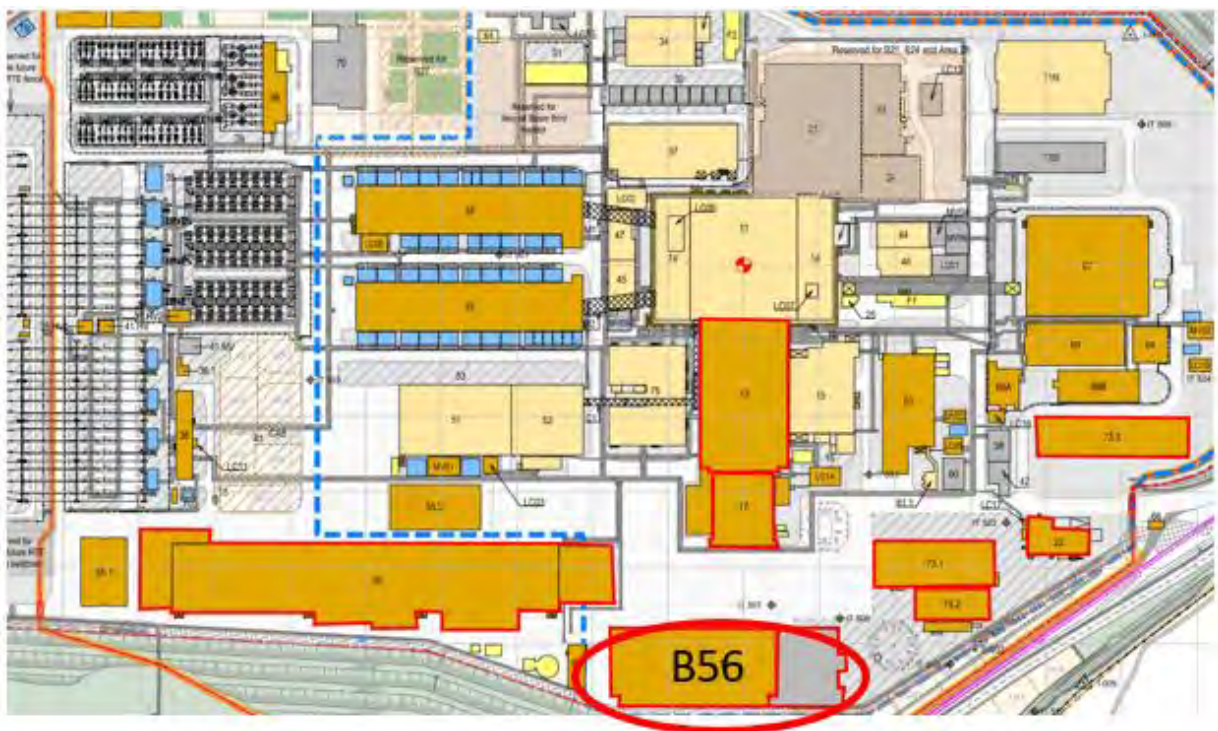


Figure 4: ITER Construction Site

7.2 TTTF Structure Modifications

The Contractor is responsible for the design, fabrication and installation of new structural beams and interfaces necessary for modifications to the TTTF base structure installed per §7.1 and in accordance with this section.

IO will provide the 3D model [R.34] of the concept structure modifications shown in Figure 3.

As part of this task, the Contractor is responsible for performing the updated design documentation and structural analysis of the TTTF, reduced footprint and full structure.

For all the added parts, the Contractor shall propose a coating procedure for IO approval.

Following the approved final design [M.3], the Contractor shall manufacture and prepare the installation of the modified parts of the TTTF.

7.2.1 *Modifications for Welding Robot Platforms*

The TTTF structural modifications include new interfaces needed for welding robot platforms. The design, supply, and installation of the welding robot platforms is not included in the scope of work of this Contract.

At the KOM, the IO will provide to the Contractor the required reaction loads and type of interface (bolt shape and pattern) to be considered for the TTTF structural modifications. The following paragraphs in this section are provided for information to the Contractor regarding the use of the TTTF.

There are three types of upper robot platforms which support ABB 4600 type robots as shown in Figure 5. The upper inboard robot support requires two positions for welding, requiring the ability to shift its position vertically as shown in Figure 6.

There are two types of lower robot platforms which support ABB 6620 type robots as shown in Figure 7. The lowest ABB 6620 platform requires a pivot point on the outboard with the capability unlock it, rotate it towards the VV outboard to allow equipment to pass toroidally around the VV.

The supply and installation of the ABB 4600 or ABB 6620 robots are not included in the scope of work of this contract.

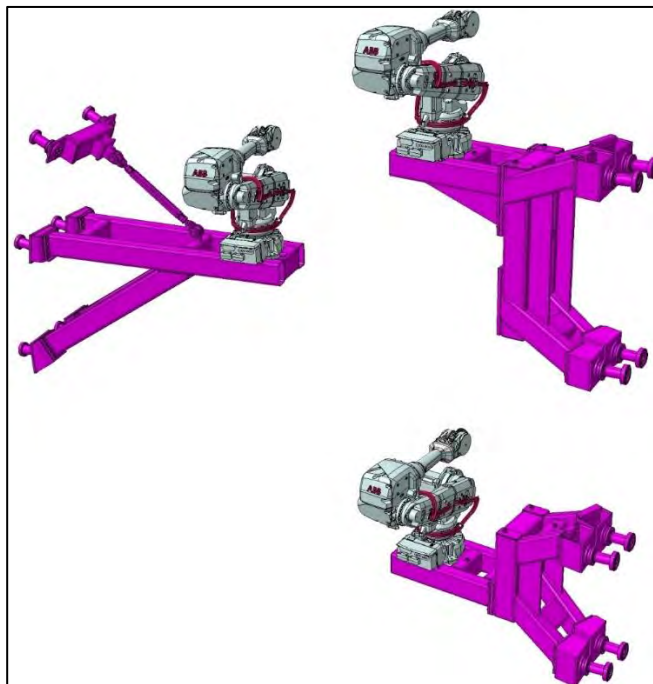


Figure 5: Upper ABB Robot Platforms

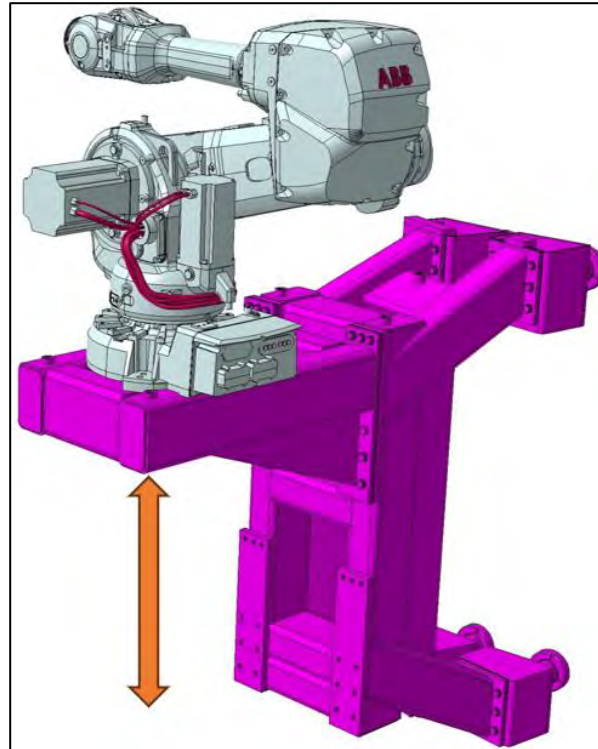


Figure 6: Upper Inboard Robot Platform Vertical Adjustment

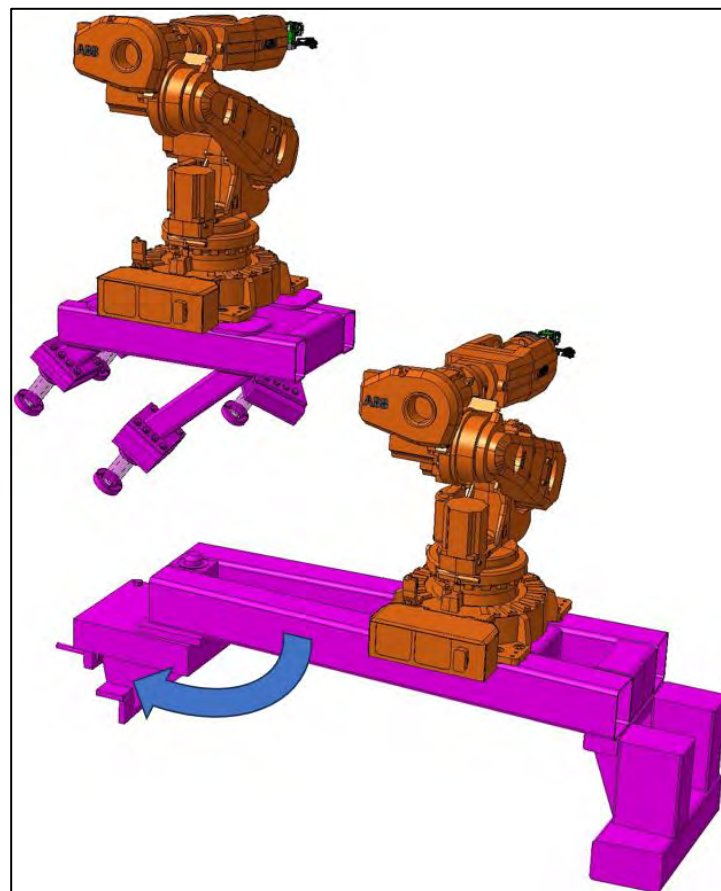


Figure 7: Lower ABB 6620 Robot Platforms

7.2.2 Modifications for D-Shape Rails

The TTTF structure shall be modified to provide the necessary supports for two sets of D-Shape Rails as shown in Figure 8 (yellow parts).

The final design, fabrication and installation of the structural elements and interfaces necessary for the TTTF compatibility with D-shape rails shall be performed by the Contractor. The reaction loads to be considered for the TTTF are defined in [R.30].

The design, fabrication or installation of the D-shape rails themselves are not part of the scope of this contract.

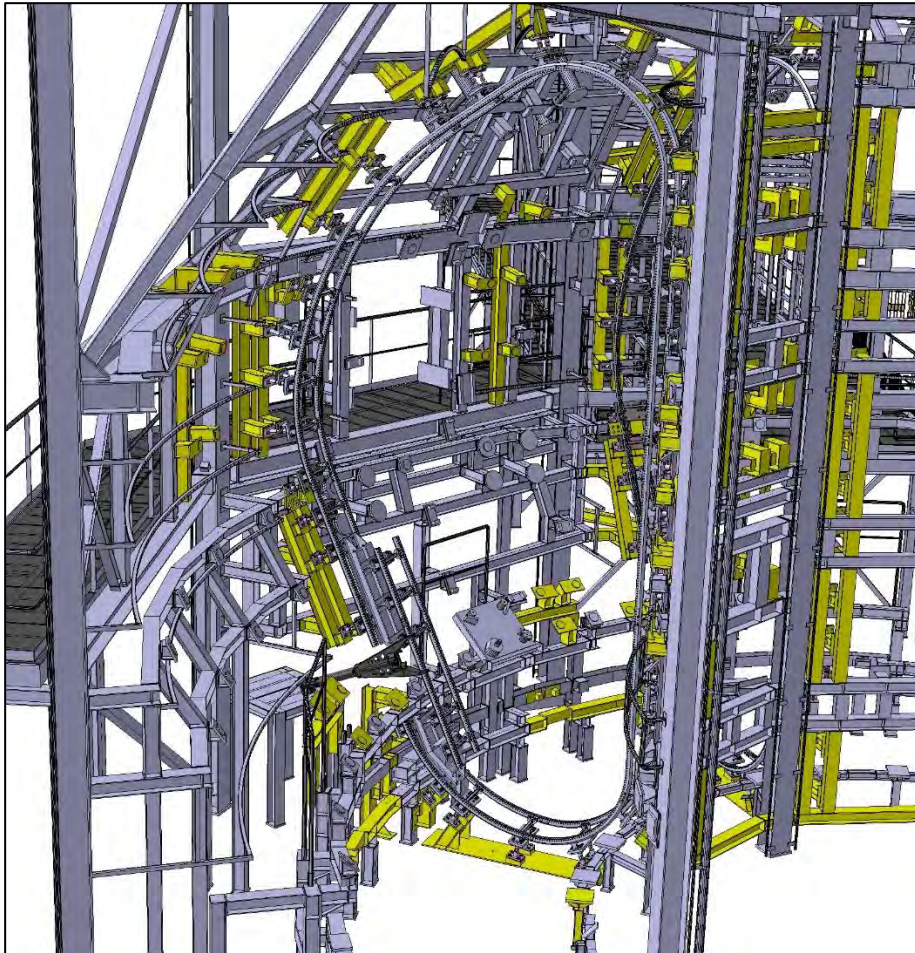


Figure 8: D-Shape Rails in TTTF

7.2.3 Modifications for In-Vessel Jib Cranes

The Contractor shall design, supply and implement the modification of the TTTF structure for the installation of the jib cranes shown in Figure 9. The design, supply and installation of the Jib cranes are not included in the scope of work of this Contract.

At the KOM, the IO will provide to the Contractor the required reaction loads and type of interface (bolt shape and pattern) to be considered for the TTTF structural modifications. The following paragraphs in this section are provided for information to the Contractor regarding the use of the TTTF.

The capacity of these jib cranes and hoists will be 1 ton, and the length of the hoist consistent with the supplied 3D model [R.34].

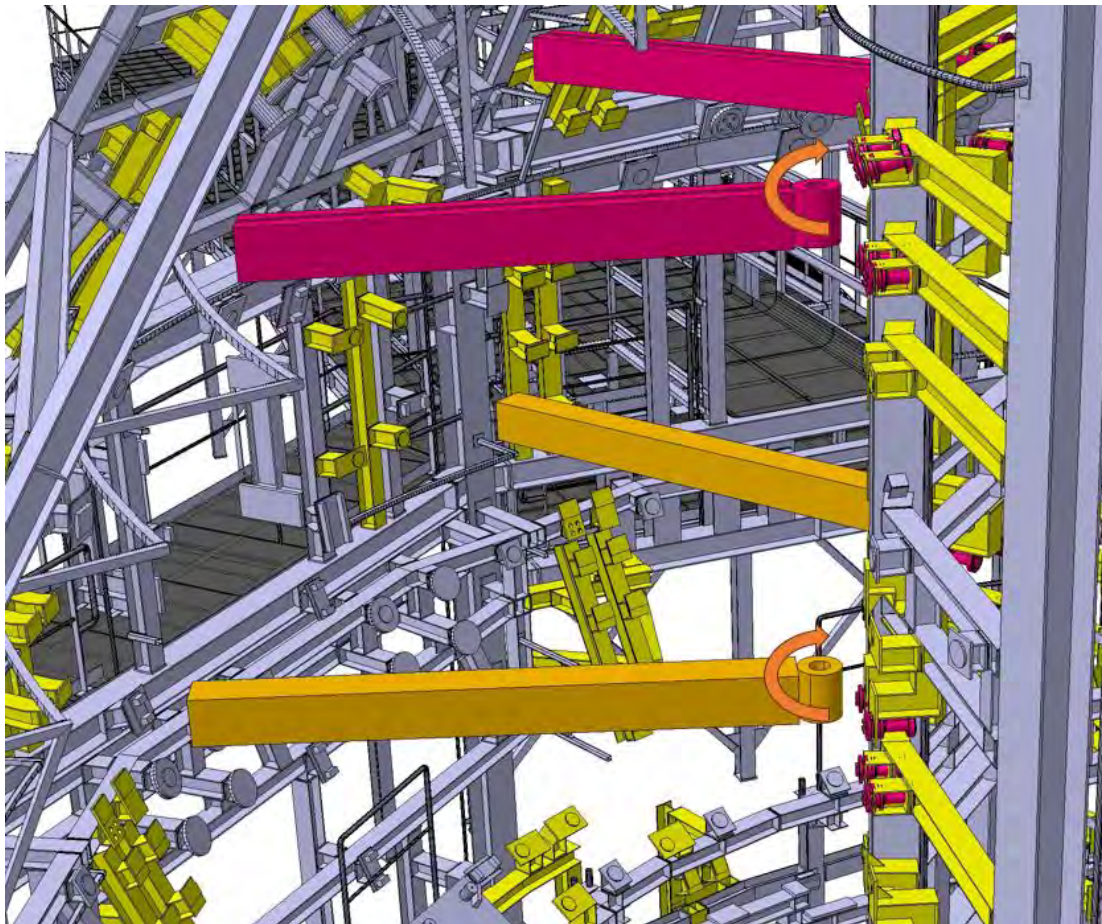


Figure 9: In-Vessel Jib Cranes

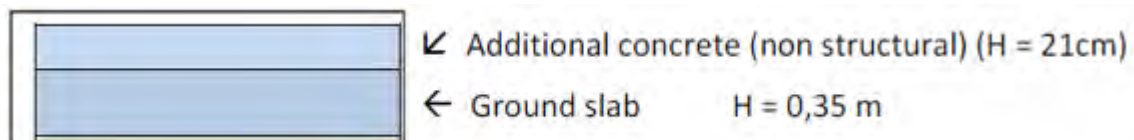
8 Requirements

8.1 General Requirements

All mechanical design work performed in the frame of this scope of work will be verified through a simplified Final Design Review process based on [R.23] and agreed by the CRO.

8.2 B56 Slab Requirements

The B56 slab is composed of a standard concrete layer sitting on a reinforced concrete slab for a total thickness of 560 mm, as per the following scheme from [R.10]:



Based on [R.7] and [R.10] maximal loads, the Contractor shall calculate, design and implement the anchorage systems to ensure the stability of the TTTF.

8.3 Unpacking

Packing protects the equipment from corrosion, dirt and deterioration. It is designed to be handled by a forklift, an overhead crane or standard handling equipment.

The Contractor shall unpack the TTTF under the supervision of IO, in order to check the completeness of the material.

The Contractor shall re-pack following IO prescriptions [R.15] the portion of the structure that will not be installed in the B56 (see details in §4.2 and §7.1). This portion shall then be provided to IO for long term storage.

8.4 Cleanliness requirements

The Contractor shall comply with the cleanliness strategy for works in B56 as per [R.33].

Prefabrication outside of B56 shall be foreseen as much as possible, notably for dirty works (welding, grinding, drilling etc).

In order to eliminate the risk of contamination of stainless steel components that will be hosted in B56 during TTTF construction and operation, the Contractor shall implement a tent with controlled access and exit, under depression with HEPA filtering system for any dirty work mandatory to be performed in B56.

Note that the TTTF contains interfaces allowing the entire structure to be tented, if deemed practical by the Contractor.

The Contractor shall ensure continuous cleaning as well as strict housekeeping for all the works under its responsibility.

8.5 Calculation requirements

Mechanical and structural analyses shall be performed in accordance with [R.26]. No seismic load shall be considered.

The Contractor shall be responsible for the implementation and the coordination of all activities required. This includes ensuring that Suitably Qualified and Experienced Personnel (SQEP) resources complete tasks within the proposed timescales. The ITER Organization shall be responsible for technical input for all identified scope. This includes the delivery of CAD models (in CATIA V5 format) as well as loads and boundary conditions input data. The chosen analysis methodology shall be approved by the ITER Organization prior to the commencement of the work.

The Contractor shall perform the structural analysis following the applicable codes from 5.2, unless a different code is agreed in writing by IO.

The Contractor shall perform the analysis using Bentley STAAD.Pro (STAAD.Pro CONNECT Edition - Version 22 preferable) or CSI SAP2000 (SAP2000 v.22 preferable) or ANSYS. The IO may accept the use of another software package if pre-authorized in writing by the IO CRO prior to the commencement of the analysis work.

The Contractor shall submit a draft version of each deliverable which could consist of analysis reports or/and models, to be reviewed by the IO CRO. The Contractor shall perform all the necessary modifications or iterations to the deliverables and submit a revised version by the due dates specified in the contractual applicable documents.

IO shall be able to reproduce all reported results. To that end, the requirements in [R.27] shall be followed, with the following being provided with every report:

- All calculation and finite element models used for generating the reported data. The models shall come with all the boundary conditions (BCs), loads, and element and material properties applied, making the model ready to run. Alternatively, pre-processing subroutines or macros that apply these BCs, etc. shall be supplied, along with clear instructions for which macros need to be run in order to reproduce the reported results. In other words, the number of manual operations required to rerun the analyses shall be reduced to the strict minimum. Any manual operation that is required to rerun the analyses shall be described either in the analysis report or in a document attached to the model.

- All pre- and post-processing subroutines, macros, batch scripts, spreadsheets, etc. used in the preparation of the work. If macros and subroutines are used, they shall be well commented. All text shall be written in English, including names (parameters, models, files...), comments (scripts, source code...), etc. Macros and subroutines shall be documented to a sufficient extent that a user proficient in the relevant programming language can easily understand the purpose of each macro, and how different macros link to each other.
- FE models shall be attached to geometry, unless otherwise agreed in writing by IO. If macros are used for the generation of the model, these form part of the deliverables.

The MQP Instructions for structural analyses [R.26] specify the templates that shall be used for the analysis report, the checklists for Reviewers, Technical Checkers and Independent Peer Reviewers. For every analysis report, completed Reviewer and Technical Checker checklists form part of the deliverables.

A separate Structural Integrity Report (as per appendix C of [R.28]) shall be issued summarizing the assessments performed.

9 Contractor Working Conditions

Construction Documentation Preparation and Engineering Design can be performed at the Contractor's premises or otherwise away from the IO Site.

For the construction and assembly work at the ITER site, IO will provide to the Contractor the working space. A handover shall be performed prior to the beginning and after the end of the Contractor's activities, to ensure that the space is kept in good condition (section 9.8).

In the B56, the Contractor shall anticipate its handling needs and communicate to the IO specific requests for the use of the gantry crane ([R.11] and [R.12]). The Contractor shall foresee additional handling means for the case of crane unavailability (section 9.4).

An area will be devoted to TTTF installation in the B56, as shown on the tentative sketch below.

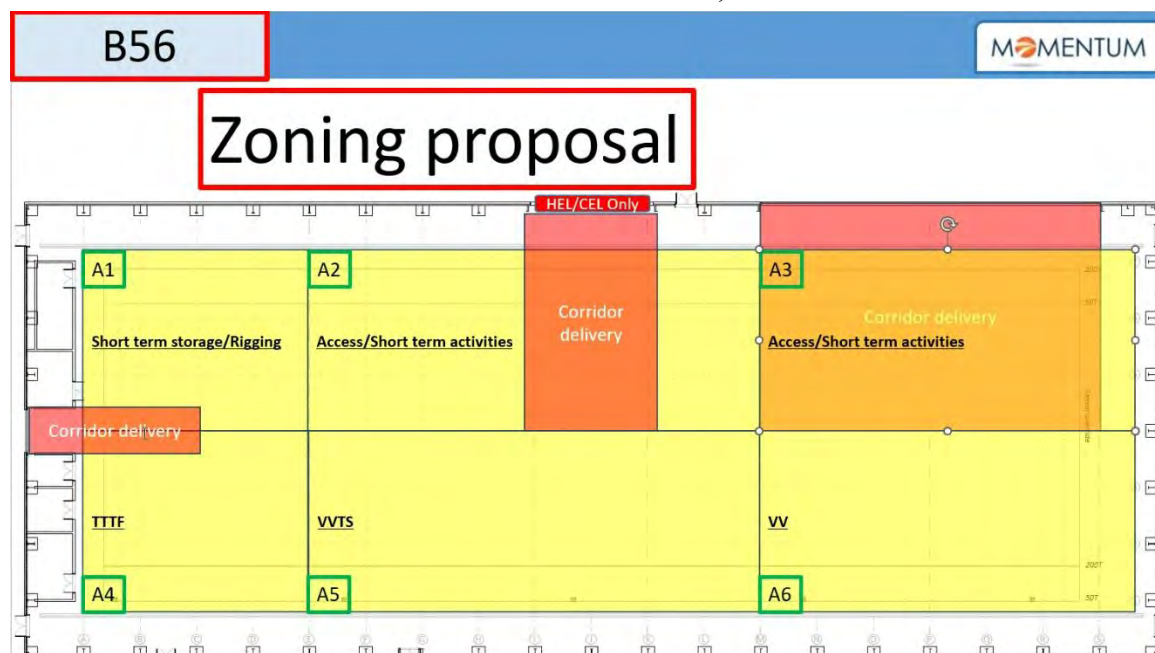


Table 9-1: B56 Zoning Proposal

Due to the space limitations in B56, a lay-down area shall be provided out of the B56 in addition to the limited working area inside the building. The entrance shall be allowed through the delivery corridors.

The Contractor's area is surrounded by different areas with high constraints – refer to figure above:

- i. The North and South common emergency corridor, in between the rails and the facades, shall remain free at all times.
- ii. On the west side of the workshop, a minimum corridor of 3m shall be maintained from the B56 storage rooms east facades.
- iii. On the East side of the workshop, a minimum corridor of 5m shall be maintained from the B56 east facade.
- iv. The South West corner of the workshop is the area booked for TTTF activities.
- v. Most of the building is used for First of a kind components repairs related to the TOKAMAK assembly which are sensitive and critical works (primary users).
- vi. In addition, improvement and adaptation works will be on going in the building 56 in 2024 and 2025 to extend the building area and to improve the existing systems.

Considering the constraints listed above, the Contractor's activities shall minimize the impacts on surrounding areas. Specific conditions could be requested, such as working outside of normal working hours or during the weekends. The additional costs shall be borne by the Contractor. All the temporary means to mitigate the impacts on the other entities shall be forecasted by the Contractor. Any impact on other users or the existing IO's assets shall be notified to the IO and Health & Safety Coordinator as soon as possible.

9.1 Worksite access

The below listed accesses will be provided by the IO to the Contractor during the Works:

- I. Access to the ITER construction platform and the Site will be possible via the site entrance B from the North and /or the entrance D from the East,
- II. Access inside the existing B56 (the main workshop hall and the auxiliary building) will be provided for the Works upon validation by the IO.
 - a. The personal access and exit will be done through the main annex entrance door equipped with a badge reader,
 - b. The vehicle access for works and deliveries purpose will be done through the different motorized doors of the workshop depending on the size of delivery. The access request through motorized doors is managed by IO coordination and it will be requested to the Contractor to anticipate their deliveries. The material entering in the building shall be clean enough not to deteriorate the cleanliness condition of the workshop. The opening of the doors shall be subject to certain time and could be temporarily forbidden by the coordination team to preserve the workshop condition during critical repairs operation.
 - c. Accesses through emergency exit doors are strictly forbidden.

9.2 Working area specifications

The below listed conditions will be provided in the B56 to the Contractor for their Works:

Floor characteristics – see 8.2:

- A. Anti-dust painting applied on the top of the concrete slab composed of 20cm of non-reinforced concrete and then 35cm of reinforced concrete (2 layers of HA14 gird),
- B. Distributed loadings: 450 kN/m² (45t/m²),
- C. Flatness of the slab: on the west side of the B56 the slab is flat without slope gradient; and, on the east side of the workshop, the surface is composed of diamond slope squares of approximately 7x7m with non-usable industrial drainage system,

Usable volume in the workshop for the activities – see [R.13]:

- A. Maximum usable height for the working area: 13m,
- B. Minimum distance from the rails axis of the gantry crane: 1.5m,
- C. Maximum usable width below the gantry crane, in between rails: 33m,
- D. Minimum distance to be kept from the East façade of the workshop: 5m,
- E. Minimum distance to be kept from the West storage rooms facades of the workshop: 3m,
- F. No storage on the North and South emergency pathways,

Note: The Contractor shall be responsible for any site investigation to check the absence of damage on the existing facilities and structures.

9.3 Electricity provision

The Contractor will be authorised to use the Low Voltage electrical network available in the building 56 workshop for the Works at ITER's expense under condition that its consumption is considered as normal (no abusive use by the Contractor).

Several fixed existing connection points are potentially available all around the workshop on the building walls:

- Industrial electrical sockets box of 90A (composed of: 2x 32 A+N+E outlets + 2x16 A+N+E outlets + 2x 3P 32 A+N+E + 2x3P 63 A+E),
- Socket outlet 90A,
- Commutator 100A,

Depending on the location of its working area and on its needs, the Contractor will select the most appropriate connection points summarized in [R.14].

However, in case the IO could not provide the expected electrical power supply to the Contractor's working area, the Contractor shall forecast its installation at his own expense. In principle, any additional electrical network installation shall be foreseen in the scope of the Contractor taking into account the existing. The current electrical calculation note of the building shall be made available to the Contractor.

Note: The crossing of gantry crane railways with aerial cable is forbidden. The contractor shall use existing underground sleeves when available for that purpose.

9.4 Gantry crane of the workshop

A Gantry crane is available in the B56, with translation in the direction East – West. Its safe working load is 200t for the main hoist and 50t for the auxiliary hoist. The maximum Crane Hook height is 16m.

The speeds are summarized in the figure below:

SPEED

MAIN HOIST	200t	m/min	1
MAIN HOIST (25%)	50t	m/min	2
AUX HOIST	50t	m/min	3
AUX HOIST (25%)	12.5t	m/min	6
MAIN TROLLEY		m/min \triangle_{02}	10
SECONDARY TROLLEY		m/min \triangle_{02}	10
BRIDGE		m/min	10

Upon request and in accordance with the ITER rules and condition of use, the Contractor will be able to use the crane for its activity inside the workshop. This crane shall be shared between several users and slots of use will be booked during the coordination meeting of the building. The priority and sharing keys will be managed by the building coordination in accordance with the criticality of the different tasks.

Note: The Contractor's activity will not be necessarily considered as a priority compared to the other activities in B56 (e.g. repairs for the TOKAMAK assembly). The Contractor shall foresee its own lifting device for daily standard and easy assembly activity (as electrical forklift and/or electrical spider crane); and shall reserve the use of the B56 gantry crane to more complex lifting. In any case the Contractor is responsible for the slinging of the different parts lifted and for the driving of the operation by its lift supervisor (the crane operator is under IO contractual responsibility).

The Contractor is responsible for respecting the safety distance to the gantry crane to allow its safe travelling; and, for never blocking or obstructing the railways.

9.5 Ambient conditions

The ambient conditions in the B56 shall be:

- Normal workshop Cleanliness as required by vacuum handbook with slight overpressure inside the W/S;
- Temperature control with range of temperature 18°C to 30° C measured at +5m from the ground floor while the outside temperatures vary between -5°C to +35°C;
- Daytime (between 07:00hrs – 19:00hrs) temperatures fluctuation inside the building is not exceeding $\Delta=5^{\circ}\text{C}$;
- No humidity control.

Note: in order to preserve the above conditions, the Contractor shall not degrade the above conditions by:

- Managing of all type of air contamination as fumes, gas or dust coming from its works (vehicle, welding, grinding, cleaning...),
- Limit as much as possible the use of the main motorized doors.

9.6 Water provision

IO will not provide any water connection points (raw, potable or demineralized) in the B56, nor releasing points for sanitary or industrial water.

The Contractor is responsible to provide its water and manage its effluents. Only potable water will be provided in the toilets as described in the chapter below. A common drinkable water fountain will be available for workers at the main pedestrian workshop entrance.

9.7 ITER site welfare facilities

The IO will provide to the Contractor an access to the existing welfare facilities on the ITER site. This includes the sanitary buildings with showers and toilets facilities (including a few lockers) and the worksite canteen, all located at Contractor's area 2 (CA2) - which is approximately 10 minutes' walk distance from the Site.

The workers shall arrive fully equipped (all mandatory PPE worn) by walk using the common worksite pedestrian path.

Note: The IO will not provide to the Contractor any office space or lockers in the changing room of the Building 56. The Contractor will have access only to common toilet in B56.

9.8 Cleaning and maintenance of the working area

The Contractor shall manage and be in charge of the necessary actions to ensure:

- I. An appropriate housekeeping of its working area and the storage areas provided to the Contractor by the IO for the Works duration including keeping clean and tidy the pavements and access paths leading to those areas used by the Contractor.
- II. An appropriate signalisation and fencing around its areas.
- III. Systematic removal, as and when they are produced, of any waste (e.g. improper cuttings, rubble, demolition products, packaging, etc.) from the Site and any working area, produced by itself or by its subcontractor(s).
- IV. Performing of the Works in a clean manner.
- V. Reinstatement of the Site after the Works completion.
- VI. Removal of the Contractor's plant and equipment as well as dismantling of any temporary facilities implemented on the Site and in the areas provided to the Contractor by the IO.
- VII. Thorough general cleaning and refurbishment of the areas affected by the Works prior to the Taking-Over.

9.9 Protection of existing B56 facilities

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

In case of any damages to the existing facilities and/or third party assets caused by the Works execution, the Contractor shall reinstate them to their original condition (using the same materials as much as possible) or cover the cost of the remedial works performed by others.

10 Quality Assurance requirements

The Quality class under this contract is class 3, [Ref 1] GM3S section 7 applies in line with the defined Quality Class.

11 Safety requirements

Prior to the start of site works the Contractor shall issue its PRE and PPSPS as defined in §6.3 and [R.1].

12 Specific General Management requirements

Requirements from [R.1] GM3S section 6 apply.

13 CAD design requirements

IO strongly recommends that the Contractor prepare all design work in CATIA V5 in order to ensure compliance with the Procedure for the Usage of the ITER CAD Manual [R.31] and with the Procedure for the Management of CAD Work & CAD Data [R.32] when delivering CAD data and drawings to the IO.

The principle Contractor shall also maintain responsibility for CAD compliance of other consortium partners or sub Contractors, if applicable.

If the Contractor decides to use another CAD software, the following paragraph shall apply.

The Contractor shall declare the design software with the CRO. Prior to officially transferring any CAD data to IO, the Contractor shall work collaboratively with IO to ensure the format is converted to CATIA in a way that ensures future functionality of model.

The Contractor shall provide to the IO the uncompressed native file of any drawings, 3D models, or analysis files that might be used to develop the design.

Non-compliance with this section will be strictly considered as a Contractor's obligation failure.

ANNEX I

EXPRESSION OF INTEREST & PIN ACKNOWLEDGEMENT

To be returned by e-mail to: jessica.pilla@iter.org copy andrew.brown@iter.org

TENDER No. **IO/24/OT/10028415/JPA**
DESIGNATION of SERVICES: **Modified Trial, Test and Training Facilities (TTTF)**
OFFICER IN CHARGE: **Jessica PILLA – Procurement Division ITER Organization**

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

☐ WE INTEND TO SUBMIT A TENDER

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

☐ YES

Please indicate your registration number:

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

.....

Signature:

COMPANY STAMP

Name:

Position:

Tel:

E-mail

Date: