1. Overview of the ITER Buildings
2. Packaging Strategy
3. Overview of the Packages
4. Procurement
5. Description of Each Package
   I. Scope
   II. Procurement process
   III. Key dates
   IV. Criteria
1. Overview of the Buildings

- Hot Cells
- Tokamak Complex
- Cooling Towers
- Magnet Power Conversion
- Cryoplant
- Assembly Hall
2. Packaging Strategy

Procurement of large packages

Scope of supply – Buildings & associated services

Scope in line with design complexity:
- Simple buildings: Design & Build
- Most buildings & services: Build from Tender Design
- Main Nuclear structures: Build from Construction Design

Schedule – driven by Ready for Equipment Dates:
- Preliminary Works: Foundation Tokamak & Site Adaptation Works
- Initial Phase: Infrastructure, buildings & services
- Subsequent Phase: Hot Cells complex (21, 23, 24) & Neutral Beam Power (34, 37)
3. Overview of the Packages

Initial Phase

Subsequent Phase
3. Overview of the Packages

2010
TB00: Construction of the Tokamak Complex Seismic Isolation Pit, Supply and Installation of Anti-Seismic Bearings – Contracts signed
TB01: Site Adaptation – Contract signed

2011 Initial Phase:
TB Alpha – Galleries and drainage works – Call For Expression of Interest under preparation
TB02 – Long Lead – Mechanical Handling – Competitive Dialogue on going
TB03 – Main Civil & Finishing – Competitive Dialogue on going
TB04 – Main M&E/Services – Competitive Dialogue on going
TB05 – D&B Package – Call For Expression of Interest under preparation
TB06 – HV Electrical Equipment – Call For Expression of Interest under preparation
TB07 – D&B Package – Call For Expression of Interest under preparation
TB08 – Site Infrastructure Works – Call For Expression of Interest on-going

2013 Subsequent Phase:
TB09 – Hot Cells – civil
TB10 – Hot Cells – M&E Handling
TB11 – Completion
3 packages procured through Competitive Dialogues:
  ✓ TB02 – Mechanical Handling (Nuclear)
  ✓ TB03 – Main Civil Engineering Contract
  ✓ TB04 – Main M&E/Services

8 packages procured through Restricted procedures

Based on FIDIC contractual conditions
TB Alpha – Galleries and drainage works

Scope of Supply: < €10m
Galleries and precipitation drainage around
Tokamak Complex and Assembly Building

Procurement Process: Restricted Tender Procedure
Fast Track reduced deadlines

Input: Tender Design

Type of Contract: FIDIC Red Book
# Key Dates:

<table>
<thead>
<tr>
<th>Event</th>
<th>TB Alpha Foreseen to Start Mid March 2012</th>
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<tr>
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<tr>
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<td>Q2-12</td>
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<td>Q2-12</td>
</tr>
<tr>
<td>Contract Signature</td>
<td>Q2-12</td>
</tr>
</tbody>
</table>
Scope of Supply: < €10m

Galleries and precipitation drainage around
Tokamak Complex and Assembly Building

Legend:
- Out of scope – critical network
- Include in TB01 scope
- In scope – precipitation drainage
- In scope – PBS 41 & 43
- In scope – PBS 26

Fast Track Procedure foreseen to start
Mid March 2012
Scope of Supply: Cask Transfer Lift & Tokamak Cranes - <€50m
- 2 cranes 750t, each with two 375t hoists
- Span 45.2m and lifting height 49m
- 1 Cask Transfer Lift, 120t capacity, 30m vertical travel

Procurement Process: Competitive Dialogue
Scope of Supply: >€150m

- Tokamak Complex (buildings 11, 14 & 74)
- Assembly Hall (13), Cleaning Facility (17), RF Heating (15)
- Cryoplant Compressor (51-52), Resistors (75), Site Services (61), Control Building (71)
Scope of Supply:

- Excavation (not Tokamak) and Buildings (Concrete & Structural Steelwork etc.)
- Finishing (roofing, cladding, doors, windows, lifts..)
- Port Cell Doors (specialist sub-contractor named by applicants)

Procurement Process: Competitive Dialogue

Construction methodology (optimisation cost, programme, safety) & Port Cells Doors

Input: Tender Design (+ Construction Design for Tokamak Complex)

Type of contract: FIDIC Red Book
Scope of Supply: >€150m

- Tokamak Complex (buildings 11, 14 & 74)
- Assembly Hall (13), Cleaning Facility (17), RF Heating (15)
- Cryoplant Compressor (51-52), Resistors (75), Site Services (61), Control Building (71)

Dialogue Phase on going
Scope of Supply:
- HVAC (including nuclear)
- Building Electrical systems (including LV load centers as an option)
- Fire Detection & Protection
- I&C
- Gas and Liquid Networks (generation and distribution)
- Mechanical Handling (non nuclear)
- Supply, installation, commissioning and operation (as an option)

Procurement Process: Competitive Dialogue Procedure

Input: Tender Design

Type of contract: Based on FIDIC contractual conditions
## Key Dates:

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<td>Invitation to participate in the Dialogue</td>
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<tr>
<td>Competitive Dialogue</td>
<td>Feb-12 to Aug-12</td>
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<td>Mar-13</td>
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</tbody>
</table>
Scope of Supply: <€50m

- Magnet Power Conversion Buildings (32-33), Reactive Power Control Building (38)
**Procurement Process:** Restricted Tender Procedure

**Input:** Functional Specification

**Type of contract:** FIDIC Yellow Book
### Key Dates:

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</table>
Minimum financial and technical capacity criteria foreseen for the consortium as a whole:

- 40 M€ annual turnover over last 3 financial years
- 5 recent (<5 years) contract exceeding 20 M€ for provision of comparable D&B buildings

Objective Criteria to Limit No. of Candidates: 5-10 max

- Relevance of recent comparable D&B projects
- Quality certifications
- Health and safety training rate
Scope of Supply: <€100m

- Medium voltage equipment and services for buildings 42 to 47
- Supply and Installation of diesel generators,
- Installation (not supply) of MV + supply and installation of cables + option for Supply and Installation of LV (in the blue area of the map)
- Installation of electrical distribution (in the blue area of the map)
- Installation (not supply) of Substation Area Equipment and MV load centers (in red on the map)
- Construction of Building 36, galleries and special foundations inside Substation Area (in red on the map)

Procurement Process: Restricted Tender Procedure

Input: Tender Design

Type of Contract: FIDIC Contractual conditions
# Key Dates:

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<tr>
<td>Contract Signature</td>
<td>Q1-13</td>
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</tbody>
</table>
Minimum financial and technical capacity criteria foreseen for the consortium as a whole:

- 60 M€ annual turnover on last 3 years
- 5 recent (<5 years) contract exceeding 15 M€ for supply, installation and test of HV/MV electrical equipment
- 1 recent (<5 years) contract exceeding 5 M€ for supply, installation and test of nuclear electrical equipment
- Quality certifications

Objective Criteria to Limit No. of Candidates: 5-10 max

- H&S Track Record last 5 years
- Quality assurance procedures (including nuclear)
- Number and size of recent comparable projects
Scope of Supply: <€50m
- Cold Basin & Cooling Towers (67), Pumping Stations (68), Heat Exchangers (69)
Procurement Process: Restricted Tender Procedure

Input: Functional Specification

Type of contract: FIDIC Yellow Book
### Key Dates:

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</table>
Minimum financial and technical capacity criteria foreseen for the **consortium as a whole**:

- 30 M€ annual turnover over last 3 financial years
- 5 recent (<5 years) contract exceeding 10 M€ for provision of comparable D&B buildings & equipment
- Quality certifications

**Objective Criteria to Limit No. of Candidates: 5-10 max**

- Processes & experience to minimize impact construction on local communities & environment
- Experience in industrial nuclear projects
- Number, size and complexity of recent comparable D&B projects
Scope of Supply: <€50m
- Fencing and gates
- Landscaping
- Drainage (industrial, rainwater & sanitary)
- Roads & Footpath
- Service trenches, pipe bridges
- Lighting

Procurement Process: Restricted Tender Procedure

Input: Tender Design

Type of Contract: FIDIC Conditions
## Key Dates:

<table>
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<td>Q4-12</td>
</tr>
</tbody>
</table>
Scope of Supply: €50-150m

- Hot Cell Complex (buildings 21, 23, 24) & Neutral Beam Power Supply (building 34 & 37)
- Fuel tanks and emergency power supplies buildings (42-43 and 44-45)
Scope of Supply:
- Excavation
- Buildings (Concrete & Structural Steelwork etc.)
- Finishing (roofing, cladding, doors, windows)

Procurement Process: Restricted Tender Procedure

Input: Construction Design

Type of contract: FIDIC Red Book
### Key Dates:

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</table>
Minimum financial and technical capacity criteria foreseen for the consortium as a whole:

- 450 M€ annual turnover on last 3 years
- 1 recent (<5 years) contract exceeding 200 M€ in the field of industrial concrete building
- 1 recent (<5 years) contract exceeding 50 M€ in the field of nuclear concrete building
- 1 qualified subcontractor having recent experience exceeding 5 M€ in construction of heavy door for nuclear industry
- Quality certifications
Objective Criteria to Limit No. of candidates to 5 maximum:

- H&S Track Record last 5 years
- Quality assurance procedures (including nuclear)
- Processes & experience to minimise impact construction on local communities & environment
- Number and size of recent nuclear projects
  - Nuclear = building or upgrade facility leading to application for or continuation of a nuclear license
- Experience in managing large and complex building sites
Scope of Supply: €50-150m
Hot Cell Complex (buildings 21, 23, 24) and Neutral Beam Power Supply (buildings 34 & 37)
Scope of Supply:
- HVAC (nuclear)
- Electrical
- Fire Detection & Protection
- Networks
- Mechanical Handling (nuclear & non-nuclear)
- Containment Doors

Procurement Procedure: Restricted Tender Procedure

Input: Tender Design

Type of contract: FIDIC
# Key Dates:

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<tr>
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<td>Q1-15</td>
</tr>
</tbody>
</table>
Minimum financial and technical capacity criteria foreseen for the **consortium as a whole**:

- 450 M€ annual turnover on last 3 years
- 1 recent contract exceeding 200 M€ in the field of industrial M&E installation
- 1 recent contract exceeding 50 M€ in the field of nuclear M&E installation
- Quality certifications
Objective Criteria to Limit No. of Candidates to 5 maximum:

- H&S Track Record last 5 years
- Quality assurance procedures (including nuclear)
- Processes & experience to minimise impact construction on local communities & environment
- Number and size of recent nuclear projects
  - Nuclear = building or upgrade facility leading to application for or continuation of a nuclear license
- Experience in managing large and complex building sites
Scope of Supply: <€50m

Buildings 11, 13-17, 36, 42-47, 51-53, 61, 71, 74, 75, 32, 33, 35, 38, 39, 41, 21, 23, 24, 34, 37
Scope of Supply:
- Final fixings and finishing
- Fire seals/ stopping
- Final paint / cleaning
- Attendance of M&E and commissioning

Procurement Process: Restricted Tender Procedure

Type of contract: FIDIC
## Key Dates:

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<th>Event</th>
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<tr>
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<tr>
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</table>
Minimum financial and technical capacity criteria foreseen for the consortium as a whole:

- 100 M€ annual turnover on last 3 years
- 1 recent contract exceeding 10 M€ in the field of building / finishing works
- Quality certifications

Objective Criteria to Limit No. of Candidates: 5-10 max

- HSE Track Record last 5 years
- Number and size of recent comparable projects
For further information please contact us at:

industryportal-info@f4e.europa.eu

mentioning “Buildings” in subject of your email.