

# Expo 2020 Dubai

Romania Pavilion – Design Kick-off



إكسبو 2020  
دبي، الإمارات العربية المتحدة  
DUBAI, UNITED ARAB EMIRATES



Bureau  
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des Expositions

# Delivery Phase SET-UP & Key Considerations



Self-build  
Pavilions  
Delivery Guide



- Understanding the Participants Guides
- Review relevant information on the Participant Portal
- Appointment of supply chain;
  - Appointment letters
  - Registration, qualifications and insurance of Architect of Record (AOR) & Contractors
- Assurance requirements for procurement, design and construction
- High level schedule of key milestones
  - Concept Design Submission
  - Final Design Submission
  - Commencement of Construction works
  - Soil Investigation (if applicable)
- Understanding the information on the Plot Sheet with regards to planning parameters and utility demands
- Early engagement with the Organiser technical team for support from the early design stages

# DESIGN Submission Packages



Self-build  
Pavilions  
Guide  
Chapter (1-2)



## Concept Design 10 Packages

- General Package
- Exhibit Package
- Architecture Package
- Structural Package
- Technology Package
- Retail, Food and Beverages Package
- Safety Package
- Telecom Package
- Sustainability Package
- BIM Package

## Final Design 17 Packages

- General Package
- Exhibit Package
- Architecture Package
- Structural Package
- Technology Package
- Retail, Food and Beverages Package
- Electrical Package
- Water Package
- Sewerage Package
- Fire Fighting Package
- Safety Package
- HVAC Package
- Telecom Package
- GAS Package
- Irrigation Package
- Sustainability Package
- BIM Package

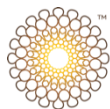
# Design Submission Packages' Details

#	Participant Portal Package Name	Items uploaded	Content	Format
1	General Package	1. General Report	Completed Checklist + Report	PDF
		2. Schedule	High-level deadlines and milestones	Excel/ P6
		3. Statement of Design Compliance	Completed template	PDF
2	Exhibit Package	1. Exhibit Report	Completed Checklist + Report + Drawings	PDF
		2. Native Zipped file	All native CADs/Models etc.	Native File – CAD & Others
3	Architectural Package	1. Architectural Report	Completed Checklist + Report + Drawings	PDF
		2. Native Zipped file	All native CADs/Models etc.	Native File – CAD & Others
4	Structural Package	1. Structural Report	Completed Checklist + Report + Drawings	PDF
		2. Native Zipped file	All native CADs/Models etc.	Drawings – CAD Models: SAP 2000 V14, V15, V16, V17, V18, V19 SAFE V12, V16, V17 ETABS V15, V16, V17 PROKON V2, V3 Revit Structure V15 & above STAAD PRO SProV8!
5	Technology Package	1. Technology Report	Completed Checklist + Report + Drawings	PDF



# Design Submission Packages' Details

#	Participant Portal Package Name	Items uploaded	Content	Format
6	Retail / F&B Package (if applicable)	1. Retail / F&B Report	Completed Checklist + Report + Drawings	PDF
		2. Native Zipped file	All native CADs/Models etc.	Native File – CAD & Others
7	Safety	Telecom Report	Completed Checklist + Report + Drawings	PDF
		Native Zipped file	All native CADs/Models etc.	Native File – CAD & Others
8	Telecom Package	Telecom Report	Completed Checklist + Report + Drawings	PDF
		Native Zipped file	All native CADs/Models etc.	Native File – CAD & Others
9	Sustainability Package	Sustainability Report	Completed Checklist + Report	PDF
10	BIM Package	Model	Model	Revit 2017 Navisworks 2017
11	Electrical Package	Electrical Report	Completed Checklist + Report + Drawings	PDF
		Native Zipped file	All native CADs/Models etc.	Native File – CAD & Others
12	Water Package	Water Report	Completed Checklist + Report + Drawings	PDF
		Native Zipped file	All native CADs/Models etc.	Native File – CAD & Others



# Design Submission Packages' Details

#	Participant Portal Package Name	Items uploaded	Content	Format
13	Sewerage Package	Sewerage Report	Completed Checklist + Report + Drawings	PDF
		Native Zipped file	All native CADS/Models etc.	Native File – CAD & Others
14	Fire Fighting Package	Fire Fighting Report	Completed Checklist + Report + Drawings	PDF
		Native Zipped file	All native CADS/Models etc.	Native File – CAD & Others
15	HVAC Package (For Information)	HVAC Report	Completed Checklist + Report + Drawings	PDF
		Native Zipped file	All native CADS/Models etc.	Native File – CAD & Others
16	Gas Package (if applicable)	Gas Report	Completed Checklist + Report + Drawings	PDF
		Native Zipped file	All native CADS/Models etc.	Native File – CAD & Others
17	Irrigation Package	Irrigation Report	Completed Checklist + Report + Drawings	PDF
		Native Zipped file	All native CADS/Models etc.	Native File – CAD & Others



# Checklists –External



## Structural Package Content – Concept Design

Document Ref. No.  Click to enter text. Confidential ☐ Yes ☐ No

Project	<input type="text"/> Click to enter text.
Plot No.	<input type="text"/> Click to enter text.
Owner	<input type="text"/> Click to enter text.
Consultant	<input type="text"/> Click to enter text.

### Structural Package Content

1. Structural Report
1.1. Completed Checklist (refer to following page)
1.2. Introduction
1.3. Design basis
1.4. Structural Code Compliance and Standards
1.5. Foundation and column layout drawings
2. Model/Drawings – Native Files in ZIP



## Structural Checklist – Concept Design

1. Soil Investigation				
a. Factual report incorporating borehole layout drawing, borehole logs, lab testing results, etc.	Yes	<input type="checkbox"/>	NA	<input type="checkbox"/>
b. Interpretative report showing allowable bearing pressures, subgrade modulus, etc.	Yes	<input type="checkbox"/>	NA	<input type="checkbox"/>

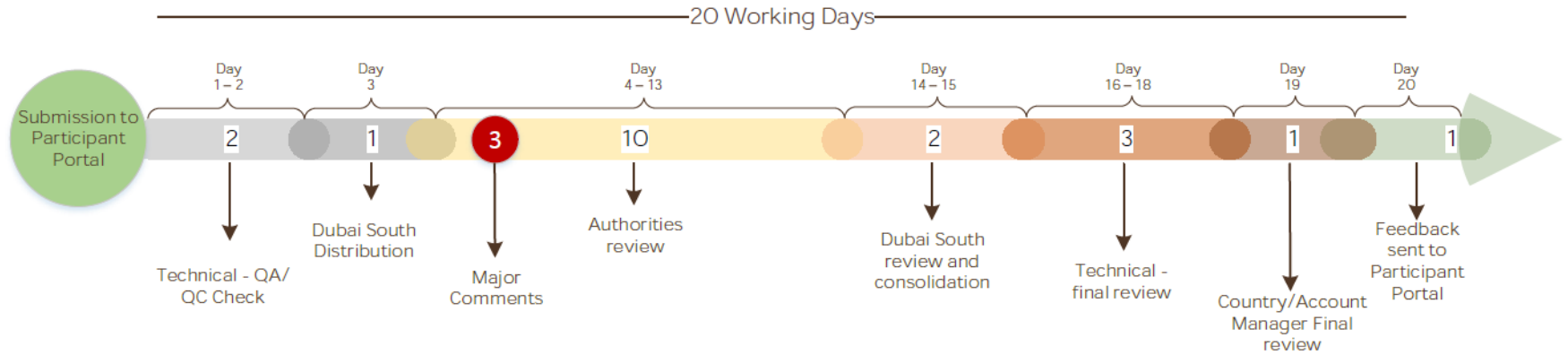
2. Basis of Design				
Report explaining all design related assumptions:				
a. Loads (SDL, LL, wind load, seismic load, temperature, etc.)	Yes	<input type="checkbox"/>	NA	<input type="checkbox"/>
b. Codes and related load combinations	Yes	<input type="checkbox"/>	NA	<input type="checkbox"/>
c. Geotechnical parameters	Yes	<input type="checkbox"/>	NA	<input type="checkbox"/>
d. Materials and their design parameters	Yes	<input type="checkbox"/>	NA	<input type="checkbox"/>
e. Serviceability limitations	Yes	<input type="checkbox"/>	NA	<input type="checkbox"/>

3. Calculations				
Report showing:				
a. Design philosophy	Yes	<input type="checkbox"/>	NA	<input type="checkbox"/>
b. Structural model layout	Yes	<input type="checkbox"/>	NA	<input type="checkbox"/>
c. Applied loads/combinations	Yes	<input type="checkbox"/>	NA	<input type="checkbox"/>
d. Main results: seismic report (period, base shear, drift, etc.)	Yes	<input type="checkbox"/>	NA	<input type="checkbox"/>
e. Main results: lateral deflections (wind)	Yes	<input type="checkbox"/>	NA	<input type="checkbox"/>
f. Foundation calculation (bearing pressure, reinforcement, settlement analysis)	Yes	<input type="checkbox"/>	NA	<input type="checkbox"/>

Remarks
<input type="text"/> Click to enter text.



# Design Approval process





# DESIGN Submission – Key Considerations



Self-build  
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Guide  
Chapter (1-2)



## General

- All packages must be reviewed and stamped by the Architect Of Record (AOR)
- Schedules must be uploaded in P6 format (compatible excel will be accepted if P6 is not available). Schedules must be updated every month
- Package must be in English language and consistent across all packages
- PDF Report – Minimum size

## Design Checklists

- Checklists are available in the 'download' button near each package on the Participant Portal
- Fields where 'N/A' is selected must be explained in the 'remarks' field
- Checklists must go on the front of each package report

# Comment sheet

## Comment sheet

- Provided by the Organiser on the Participant Portal upon responding to design submission;
  - Comment sheet will be issued for the first time with the Concept Design approval
  - Comments must be addressed by the designer and included in the next design submission stage in the general package (both PDF and excel)
  - All comments must be closed before final approval of the design
- After Organiser's approval ensure to review each and every package on the Participant Portal

[illegible]

## Key Services on Participant Portal During Design – Self-Build Pavilions

Service	Service Type	When	Outcome	Approval time
Concept Design	Mandatory	Upon approval of Theme Statement*	Design Approval	20 working days
Final Design	Mandatory	Upon approval of Concept Design	Final Design Approval	20 working days
Soil Investigation	Optional	During Concept Design Development	Enable Conduction of Soil Investigation	10 working days
Exceptional Permission Request	Optional*	Prior to Concept Design Submission	Approved Modifications	10 working days
Design Change Request	Optional*	Upon approval of Concept Design	Design Submission Reactivated	10 working days

\* Not visible on the Participant Portal – Country Manager will activate upon participant's request

## Key other Pre-construction Services – Self-Build Pavilions

Service	Service Type	When	Outcome	Approval time
Enabling Works Permit	Optional	Upon approval Concept Design	Access to Conduct Early Works	6 working days
Building Permit	Mandatory	Upon approval of Final Design	Enable Commencement of Construction Works	6 working days
Plot Possession and Mobilisation	Mandatory	<b>Opt 1:</b> Upon approval of Concept Design & Obtaining Enabling Works Permit <b>Opt2:</b> Upon approval of Final Design & Obtaining Building Permit	Access to Plots Prior to Construction	20 working days

# Questions & Answers



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THANKS ITS PARTNERS FOR THEIR SUPPORT

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