



Annex 2

Competition Category B: Bridge Design

I. Design Requirement

1. Select appropriate bridge sites that span road routes, rivers, lakes, seas, mountains and valleys.

2. The terrain, landform, climate, meteorology, hydrology, geology, earthquake, impact, temperature, load and other conditions of the bridge site and the technical standards to be implemented shall be determined by the participants themselves, and shall be specified in the design scheme and description together with the design parameters and results.

3. Bridge scale: the bridge length shall be between 50-5000m, the bridge width shall be between 4-50m, and the span combination shall be determined by the designer.

4. Requirements for bridge types and design contents are as follows:

(1) Bridge types: Highway Bridge, railway bridge, municipal bridge, landscape bridge, pedestrian bridge, bicycle bridge, comprehensive bridge, etc.;

(2) Bridge structures: suspension, cable-stayed, arch bridge, beam bridge and combination, mixing, cooperation, new concept, future bridge, etc.;

(3) Components: design and combination of bridge tower, arch rib, beam,



abutment, cable, cable, deck auxiliary facilities, etc.;

(4) Materials: steel, concrete, combination and mixing, new materials, etc.;

(5) Construction schemes: advanced, innovative and applicable construction schemes.

(6) Design concepts: safety, applicability, durability, innovation, beauty, environmental protection, energy conservation, economy, constructability, easy maintenance, etc. Each work shall follow at least three of the above design concepts.

II. Entry Requirements

1. The electronic version of the work description shall be submitted in word format. If it's in Chinese, use Song font with 4-size characters, 28-point line spacing, no more than 20 pages and 15000 words; if it's in English, use Times New Roman font with 4-size characters, 28-point line spacing, no more than 35 pages and 10000 words;

2. The number of design drawings (design schemes, main structural drawings, construction schemes, etc.) shall not be more than 10 pages of A3;

3. Renderings: colored with no more than 5 pages of A3. The electronic version is submitted in JPG format.