

(ITT 2B) B15 - Building & Structures

Scenario

Competencies

The delivery of successful Building & Structures projects on the TfL Rail and Underground or Surface Transport network requires the following competencies as a minimum. These requirements will generally be common to both TfL Surface Transport and Rail and Underground projects, although some are more relevant to one or other of the business units. The framework applies to all stages of the project lifecycle from Outcome Definition to Handover and Suppliers should demonstrate their capabilities within each stage:

1. Verification and Validation of project requirements to ensure that it fulfils its intended purpose.
2. Working collaboratively with TfL Programme/Project Managers, Engineering, Operational liaison staff and Maintenance liaison staff throughout the Project life cycle
3. Co-ordination, integration and interface management with the other interfacing disciplines in the operational transport mode (i.e. Rail and Underground or Surface Transport).
4. Provision of competent railway and/or highway experienced Structural Engineers to develop design solutions from feasibility to detailed design and implementation.
5. Knowledge and experience of TfL Rail and Underground or Surface Transport Building & Structures requirements, standards, and assurance requirements
6. Knowledge and experience in the implementation of innovative new technology and value added initiatives that could be utilised in the delivery of successful Building & Structures projects on the TfL Rail and Underground or Surface Transport network. Including the capability to challenge traditional design approaches to deliver innovative solutions.
7. Carrying-out all necessary desk studies and site visits to assimilate all the necessary information to develop the design solution
8. Capability in the application of structural analysis and the utilisation of supporting tools e.g. Specialist Design Software, BIM, CAD (e.g Microstation) to assist the development of design solutions and drawings.
9. Capability in managing the delivery of a coordinated and buildable Building & Structures design within a transport environment; including explanation of your design checks, approve processes to deliver an assured product.
10. Knowledge and experience of Building & Structures construction installation methods so that the buildability of the design is assured , including a sound knowledge of current construction safety initiatives and best practice

11. Knowledge and experience of maintenance methods applicable to Building & Structures so that the maintainability of the design solution is assured including a sound knowledge of current maintenance best practice applicable to the TfL Rail and Underground or Surface Transport network.
12. Provision of design representation during the construction and handover phases to verify design intent being delivered and respond to change requests.

Proposal

1. In no more than 2000 words contained in a maximum of 8 sides of A4 (pictures, diagrams etc. may be included in the sides of A4 limit) describe your company's capability to provide Building & Structures engineering services in the skill sets 1 to 12 described above.

Note:

Bidders must not cite examples of previous completed works within their response as this formed the basis of the SSQ evaluation and as such references to completed case studies will not be subject to evaluation.

Bidders are encouraged to structure their submission by clearly setting out their response against each of the competencies via specific headings for each competency; the headings will not be included in the word count limitations.