

ITT2B-Scenario: Transport System and Railway Development

Question

Background:

The objectives of a transport system project development assignment are to:

- Work with stakeholders and agree the requirements of the problem to be solved.
- Identify possible solution options, their feasibility, benefits, costs and risks.
- Prepare a business case to justify works to implement a solution.

The supplier shall demonstrate competence and capability in the following areas to achieve these objectives;

- Working with the client to identify the problems to be solved, option identification, solution and requirements development and recording.
- Report writing and presentation skills, the management of 'soft projects' that have diverse stakeholders.
- Transport system economics and value estimation – demand forecasting, whole life cost modelling and the development and use of business cases.
- Case specific domain, technical and market knowledge.

Project development assignments vary in terms of several characteristics.

These characteristics include:

1. The position of the project in the life cycle, eg: pre feasibility stage to delivery to test and commissioning.
2. Hierarchy within the structure of the delivery organisation eg: operator – specifier – lead contractor – sub contractor.
3. The transport system mode; TfL operates multi-modal services including trams, metro, mainline, river crossing services, highways and other sponsored services (e.g. cycle hire, dial-a-ride).
4. Specialist asset domain knowledge employed: eg: ticketing - rolling stock - signalling, highways etc

Because of the range of these characteristics, and the difficulty of defining a representative case, a case study scenario approach has not been adopted for the assessment of bidders capabilities at the ITT stage. Instead, Bidders are requested to demonstrate their awareness of the competencies required to undertake the professional service category which will then be scored.

The skills and competencies that make up Transport System Project Development Capability can be grouped into 2 sets:

- Mandatory skills and competences that are expected to be applied in every assignment to be procured under the Framework.
- Case specific skills and competencies relevant to that particular assignment.

The mandatory skills and competencies are:

1. Problem identification, option identification, solution and requirements development and recording.
2. Report writing and presentation skills, the management of 'soft projects' that have diverse stakeholders.
3. Transport system and railway economics and value estimation – demand forecasting, whole life cost modelling and the development and use of business cases.

The case specific skills and competencies are:

4. Transport system and railway asset knowledge including rolling stock, signalling, infrastructure, ticketing, highways and others.
5. Supply markets and their dynamics.
6. Transport system and railway operations and maintenance process knowledge.

As an expert in this field, set out to us in no more than 1500 words contained in a maximum of 4 sides of A4 (pictures, diagrams etc. may be included in the sides of A4 limit) the context, objectives and desired level of skill, competencies and other characteristics required for the successful delivery of transport projects for each of the mandatory skill sets as applied to a minimum of two transport modes – rail and highways . In other words 'tell us what you think demonstrates good practice in each of the modes'. How do you verify and validate the deliverables? And, as a practitioner in this field, demonstrate to us how you would identify, secure, and deploy the case specific expertise required.