

## **(ITT2B) -Scenario: Power Engineering**

### **Question**

The delivery of successful Power Consultancy Services to support Power Engineering designs depend on a range of competencies:

1. AC and DC system studies (including MTS, load flow, harmonics, protection and reliability)
2. HV AC distribution system and dc traction design (from concept through to detailed)
3. Asset Management (including plant specialism's)
4. Complex earthing schemes.
5. Relevant site surveys to support above.

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) describe your company's approach to providing professional services in the areas as above. This should be in the context of a proposed planned extension of our railway running close to another existing railway. You are asked to set out your understanding of applicable standards, issues involved and your proposed methodology for developing a compliant design for all or part of the works.