

### **1.1.0 INTRODUCTION & INTENT OF SPECIFICATION:**

BHEL is in the process of bidding on turnkey basis for **230/66/20kV Outdoor Conventional Substation Project at Khan Al Jouz, SYRIA**. The Owner of this project is M/s Public Establishment for Electricity Generation & Transmission, Syria (**PEEGT**).

BHEL intends to have a tie-up for the complete **CIVIL WORKS ASSOCIATED WITH THE ABOVE PROJECT ON A BACK-TO-BACK BASIS** with the bidder whose offer is found to be most competitive.

BHEL expects the bidders to visit the site before bidding to familiarize themselves with the existing site conditions & other details in order to give their most competitive offer.

### **1.2.0 SCOPE OF WORK:**

1.2.1 The scope of work shall cover, **in complete conformity to the specification, on a back to back basis**, the following:

**A. Site Soil Investigation.**

**B. Design & drawing including approval from Customer.**

1. Complete civil design & detailed engineering (except design/drawing of outdoor steel structures - beams, towers & equipment support structures which shall be done by BHEL. The loads on foundations for outdoor steel structures shall be provided to the successful bidder for design/drawing of their foundations).
2. Complete documentation including drawings, documents for all civil works.

**C. Materials.**

1. Supply of all materials including cement & steel required for the civil construction works.

**D. Construction Works.**

1. Temporary Works PEEGT and Contractor Building.
2. Furnishing of PEEGT Offices.
3. Temporary Store Building.
4. Control Building.
5. Diesel Building.
6. 20kV Switchgear Building.
7. Gate House Building.
8. Trenches & Cable Racks.
9. Transformers and Outdoor Steel Structure Foundations.
10. Fence and Retaining walls.
11. Gate.
12. Sings.
13. Ventilation, Air Conditioning (Heating & Cooling).
14. Security system.
15. Drainage.

16. Connecting with main sewage network .
17. Roads and Walk way.
18. Steel rail.
19. Water Tank.
20. Complete Leveling for all s/s area.
21. Gravel Spreading in s/s area.
22. Any other work required for the project as per specification.

The works to be performed in the above constructions include preparation of bar bending schedules, based on the drawings released for construction and getting the same approved by the Engineer-in-charge plus the execution of the work including providing of all labor, supervision, materials, scaffolding, power, fuel, construction equipments, tools and plants, supplies, transportation, all incidental items necessary for successful completion of the work including contractor's supervision and in strict accordance with the drawings, specifications, directions of Engineer-in-Charge and inspection/testing standards.

**E. Other Works.**

1. Provision and maintenance of all temporary site construction building, facilities, office, storage, water & power distribution and all other materials and services which may be required, all labour and constructional equipment, management and supervisory staff to construct and commission the Works.

**1.2.2 Specific Exclusions:**

The following items of work are **specifically excluded from the scope**.

- A. Design/drawing of outdoor steel structures.
- B. Supply of outdoor steel structures.

**1.3.0 SPECIFIC TECHNICAL REQUIREMENT:**

- 1.3.1** The specific technical requirements for the execution of civil works shall be as per PEEGT Specification & Tender drawings (See Annexure III).

**1.4.0 PRICE SCHEDULE:**

- 1.4.1 The Price Schedule shall be as per Annexure I.
- 1.4.2 The quantities indicated in the Price Schedule are indicative and can vary to any extent. Contractor shall not be entitled for any claim for any such variation in the quantities.
- 1.4.3 The provisions of Price Schedule, specification and drawings shall be read in conjunction with each other and in case of conflict amongst them, the clarification shall be obtained from the Engineer-in-charge whose decision shall be final and binding.

**1.5.0 TECHNICAL SCHEDULE:**

- 1.5.1 The Technical Schedule shall be as per Annexure II. This shall be filled up by the bidder.