

## **SCOPE & SPECIFIC TECHNICAL REQUIREMENTS**

### **1.1.0 SCOPE**

1.1.1 The scope of work under this specification is Civil Works of 400kV Substation at Koradi in Maharashtra, being executed by BHEL on turnkey basis. The Customer is Maharashtra State Electricity Transmission Corporation Limited (MSETCL).

1.1.2 The Civil Works shall generally include, *but not limited to*, construction of following:

- (i) Compound Wall with anticlimbing barbed wire fencing gate, etc.
- (ii) Watchman Cabin.
- (iii) Store Shed.
- (iv) Control Room Building.
- (v) Bay Control Rooms.
- (vi) Other miscellaneous works as required for project.

1.1.3 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 labour, 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 and specifications and with inspection and testing standards. The nature of work shall generally involve excavation in all type of soil including dewatering, shoring, strutting, and filling under and around structures, backfilling with available excavated earth around completed structures disposal of surplus soil, concreting including reinforcement and formwork, rubble masonry, providing necessary steel embedments and other inserts, building works including all finishing, etc., all complete as per detailed specification, drawings and directions of Engineer-in-charge.

### **1.2.0 SPECIFIC TECHNICAL REQUIREMENT**

1.2.1 The specific technical requirements for the execution of civil works shall be as per Customer's Detailed Technical Specifications enclosed with the tender.

1.2.2 All source of sand and metal shall be got approved by Customer.

1.2.3 The steel shall be as per relevant IS & grade 415. The steel shall be procured from the approved manufacturer only after sample testing of the

steel from the factory for chemical composition as well as mechanical properties.

**1.2.4** Cement shall be ISI mark with requisite properties & make and grade shall be approved by Customer.

**1.2.5** Exhaustive specifications for the work are given, however as per general principle all PWD specifications shall be applicable for all works. Where no such specifications are available, description of the item shall prevail.

**1.3.0 BILL OF QUANTITY**

1.3.1 The quantities indicated in the Bill of Quantity are indicative and can vary to any extent. Contractor shall not be entitled for any claim for any such variation in the quantities.

1.3.2 The provision of Bill of Quantity, specifications 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.