

## **SECTION - 1**

**SCOPE, SPECIFIC TECHNICAL REQUIREMENTS &  
BILL OF QUANTITIES**

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### SCOPE, SPECIFIC TECHNICAL REQUIREMENTS & QUANTITIES

#### **1.1.0 SCOPE**

1.1.1 The scope of work under this specification is Civil Works of yard foundations & building works for 765/400kV Substation at Raichur being executed by BHEL on turnkey basis. The Customer/Employer is Powergrid Corporation of India Limited (PGCIL).

1.1.2 The scope of work shall include but shall not be limited to the following based on Employer/BHEL supplied drawings to be provided during detailed engineering:-

- (a) Civil works for switchyard panel room.
- (b) Foundation for Gantries, equipments support structures (including Employer supplied 765 kV Circuit breakers), LT transformers and DG set.
- (c) Cable trenches along with covers, sump pits etc.
- (d) Control room cum administrative building, Fire fighting pump house building and fire water tank.
- (e) Permanent water supply for Control Room cum Administrative building, FFFPH building, fire fighting system and Transit camp.
- (f) Rain water harvesting
- (g) Transit camp.
- (h) Parking shed.
- (i) Foundation for lighting poles, Bay marshalling box, panels and control cubicles of equipments wherever required as per vendor drawings
- (j) Any other civil work required for completion of the 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 and cable trenches with covers, road crossing of trenches, disposal of surplus soil, concreting including reinforcement and formwork, providing necessary steel

embedments and other inserts, concreting, brickwork, flooring and finishing in buildings, etc., all complete as per detailed specification, drawings and directions of Engineer-in-charge.

**1.2.0 SPECIFIC TECHNICAL REQUIREMENTS**

**1.2.1** All technical requirements for the execution of civil works shall be as per PGCIL Technical Specification, Section: Civil Works (C/ENGG/SPEC/CIVIL/ Rev No.: 07), FQP & Tender Drawings (Refer SECTION 3).

**1.3.0 BILL OF QUANTITIES**

1.3.1 The Bill of Quantities shall be as per pages 1.3 to 1.4

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

1.3.3 The provision of Bill of Quantities, 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.

1.3.4 The mode of measurement shall be as per Clause 11 of PGCIL Technical Specification (Refer SECTION 3)