

SECTION - 1

**SCOPE, SPECIFIC TECHNICAL REQUIREMENTS
& QUANTITIES**

1.1.0 SCOPE

1.1.1 The scope of work under this specification is complete civil works of 400kV Substation Extensions at Bhiwadi in Rajasthan, being executed by BHEL on turnkey basis. The Customer is Powergrid Corporation of India Limited (PGCIL).

1.1.2 The Civil Works shall generally include, *but not limited to*, following, based on Customer supplied drawings:

- (a) Cable trenches along with covers and sump pits.
- (b) Concrete Road.
- (c) Stone spreading in switchyard area.
- (d) Augmentation of drainage system in the substation in extension area.
- (e) 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, disposal of surplus soil, concreting including reinforcement and formwork, providing necessary steel embedments and other inserts, stone spreading, 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 & FQP (Refer SECTION 3).

1.3.0 BILL OF QUANTITIES

- 1.3.1 The Bill of Quantity shall be as per NIT.
- 1.3.2 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.
- 1.3.3 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.
- 1.3.4 The mode of measurement shall be as per Clause 11 of PGCIL Technical Specification (Refer SECTION 3)