

SECTION - 1

SCOPE, SPECIFIC TECHNICAL REQUIREMENTS & QUANTITIES

1.1.0 SCOPE

1.1.1 The scope of work under this specification is Civil Works for 400/220 kV Substation at Hoody and Nelamangla in Bangalore Urban and rural district in Karnataka respectively, being executed by BHEL on turnkey basis. The Customer is Karnataka Power Transmission Corporation Ltd.

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

- (i) Tower & Equipment foundations .
- (ii) Cable trenches including precast covers.
- (iii) Rail-cum-road.
- (iv) Reactor foundation.
- (v) Fire wall.
- (vi) Stone spreading including antiweed treatment.
- (vii) Any other work required for 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, backfilling with available excavated earth around completed structure, filling under and around structures, disposal of surplus soil, road crossing of trenches, concreting including formwork, providing necessary steel embedment and other inserts, roadwork, drainage work, concreting, etc., all complete as per detailed specification, drawings and directions of Engineer-in-charge.

1.2.0 SPECIFIC TECHNICAL REQUIREMENT

The specific technical requirements for the execution of civil works shall be as per Customer's Specification (Section-3)/CPWD Specifications unless otherwise specified. In case of any conflict between these, customer's specification shall prevail.

1.3.0 BILL OF QUANTITIES

1.3.1 The Bill of Quantity-cum-Price Schedule shall be as per page 1 to page 5.

1.3.2 The quantities indicated in the 'Bill of Quantity-cum-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.

1.3.3 The provision of Bill of Quantity-cum-Price Schedule, 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 Method of measurement:

1.3.4.1 Excavation shall be measured in cubic meters. The lateral dimensions to be considered for working out excavation quantity shall be the PCC dimension below the footing as per approved drawing. Nothing extra shall be paid for slope cutting, etc. Backfilling & disposal of quantities shall be worked out based on the above dimensions only.

For other items, unless otherwise described the method of measurement as described in 'Method of Measurement of Building and Civil Engineering Works'-IS 1200(Part I to XXV) latest edition of BIS shall be followed