

SECTION - 1

SCOPE, SPECIFIC TECHNICAL REQUIREMENT &
QUANTITIES

SECTION - 1**SCOPE, SPECIFIC TECHNICAL REQUIREMENTS
& QUANTITIES****1.1.0 SCOPE**

1.1.1 The scope of work under this specification is Civil Works of 400/110kV Switchyard at Thappagundu in Theni district, Madurai being executed by BHEL on turnkey basis. The Customer is Tamil Nadu Transmission Corporation Limited.

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

- (i) Tower and Equipment foundation.
- (ii) Cable Trench including precast covers, cable trench crossing & sump pit.
- (iii) Transformer foundations.
- (iv) Reactor foundations.
- (v) Road.
- (vi) Drain.
- (vii) Fire Walls, Retaining wall.
- (viii) Rain water harvesting.
- (ix) Stone spreading in switchyard.
- (x) Permanent watering arrangement for earth pit.
- (xi) Any other work required for the project.

1.1.3 The works to be performed in the above construction includes 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, cable trench with covers, disposal of surplus soil, steel formwork, providing necessary steel embedments and other inserts, roadwork, drainage work, stone spreading (including antiweed treatment) concreting, brickwork 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 specification (Section-3) /I.S Specification. In case of any conflict between these Customer's specification shall prevail.

1.3.0 BILL OF QUANTITY

- 1.3.1** The Bill of Quantity shall be as per Schedule I (Page 3 to 4), Schedule II (Page 5 to 9) and Schedule III (Page 10 to 14).

- 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** 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 qtys 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.