

SECTION – 1

(SUPPLY PORTION)

SCOPE, SPECIFIC TECHNICAL REQUIREMENTS & QUANTITIES

1.1 SCOPE

The scope of this specification is to specify all details required by a supplier for preparation detailed fabrication drawings (structure assembly drawings), fabrication, destructive testing, proto assembly, galvanising and supply of galvanized steel structures for 220kv transmission lines Rayalseema being executed by BHEL on turnkey basis for APGENCO.

The detailed scope of work is preparation, submission and approval of detailed fabrication drawings (structure assembly drawings), fabrication, galvanizing, proto-testing and supply of all type of transmission line towers including stub assembly and stub templates made of channels, angles, etc., base plates, stiffener plates and other such items required to complete the job excluding all fixtures, such as nuts, bolts, step bolts and washers. However, detailed and accurate bill of quantities for nuts, bolts, step bolts and washers shall be given by the supplier in the drawings submitted by him. The detailed structure assembly drawing shall be prepared based on input/line sketches provided by BHEL.

1.2 SPECIFIC TECHNICAL REQUIREMENTS

The specific technical requirements shall be as per Standard Technical Specification (Refer Section 2).

1.3 QUANTITIES

The quantities indicated are tentative & it may change to any extent during detailed engineering at contract stage.

SECTION - 1
(Civil Works)
SCOPE, SPECIFIC TECHNICAL REQUIREMENTS
& QUANTITIES

1.1.0 SCOPE

1.11 The scope of work under this specification is Civil Works of 220kV Transmission line at Rayalseema in Andhra Pradesh being executed by BHEL on turnkey basis. The Customer is Andhra Pradesh Power Generation Corporation Ltd.

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

- (i) Transmission line tower foundations.
- (ii) 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 suitable available excavated earth around completed structures, disposal of surplus soil, formwork, providing necessary steel embedments and other inserts, concreting, mulling, finishing exposed concrete with plaster etc. 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 CUM PRICE SCHEDULE

1.3.1 The Bill of Quantity Cum Price Schedule shall be as per page 1.3 to page 1. 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 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.

ETC OF 220kV DC Transmission Line at Rayalseema Thermal Power Plant Stage-IV, Unit-6 (1x600MW)

SECTION-1 : SCOPE, SPECIFIC TECHNICAL REQUIREMENTS & QUANTITIES	
Project	400/220 KV SWITCHYARD- 1X600 MW RTPP UNIT#6 (STAGE-IV)
Customer	APGENCO

Notes

A The scope in brief is as follows :

The scope involves storage, unloading & erection of 220kV D/C (Double Circuit) line consisting one Twin Moose circuit & one Single Moose circuit from 220kV Switchyard to 400kV Switchyard inside Plant boundary of Rayalseema Thermal Power Plant Stage-IV, Unit-6 (1x600MW) complete in all respects. The approximate distance between two substations is 730 m (approx.). i.e. total route length of the double circuit line to be constructed by the bidder.

B The quantities mentioned in the BOQ are tentative and may vary to any extent for individual items.

Any material/services required for successful completion of the project but not covered in the BOQ shall be deemed to be included in the scope of contractor without any cost implications to BHEL. **The bidder is advised to visit Rayalseema site before submission of bid.**

C Make of items to be supplied/used under this contract shall be subject to acceptance by customer/BHEL at contract stage.

D Unloading & Storage of all items is in the scope of bidder.

E Handling, shifting to & from stores at Rayalseema TPP proper storage are also included in the scope of the bidder.

Bidder may note that any damage of material at site during erection work shall be avoided. Further, owner (APGENCO/BHEL) shall not pay any compensation for any loss or damage to the properties during work of execution of transmission line job or for tree cutting due to bidder's work.