

**TRANSMISSION BUSINESS GROUP**  
**SUB CONTRACTS MANAGEMENT**  
**NOIDA**

**Notes for Transmission line Job**

**For Supply Work**

1. The quantities mentioned in the BOQ are tentative and may undergo a change to any extent for individual items. Final quantities shall be based on actual requirement ascertained during detailed engineering.
2. 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 site before submission of bid.**
3. **For scope of supply items in contractor scope following should be followed .**
  - (1) The approval of makes shall be obtained from BHEL/Customer .
  - (2) Drawings and MQP shall be submitted for approval in line with specification and relevant IS.
  - (3) Quality -Inspection & dispatch clearance shall be given by BHEL/Customer.
4. Loading / Unloading, handling, shifting to & from stores, proper storage, assembly, installation are included in the scope.

**For Civil Work**

1. The quantities mentioned in the BOQ are tentative and may undergo a change to any extent for individual items.
2. **The work is to be executed inside/nearby charged area of switchyard and transmission line. All necessary safety precaution are to be taken care by the subcontractor.**
3. 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 site before submission of bid.**
4. The route / check survey and geo-technical investigation and soil resistivity measurement shall be done by separate agency appointed by BHEL. Bidder shall associate himself with the agency during the route/check survey.
5. Loading / Unloading, handling, shifting to & from stores, proper storage, assembly, installation are included in the scope.
6. Right of Way and most of the tree cutting shall be arranged by customer. However Site Clearance, small/unmarked tree cutting, vegetation removal required for the completion of work are included in the bidder's scope.
7. MS welding at site- apply red lead paint then aluminium paint then bitumen after welding.
8. GI welding at site - apply 2 coats of cold galvanising anti corrosive paint after welding.
9. Bidder may note that any damage of material at site during erection work shall be avoided. Further, owner (NTPC/BHEL) shall not pay any compensation for any loss or

damage to the material/properties during work of execution of transmission line job or for tree cutting due to bidder's work.

#### **For Erection Testing and Commissioning Work**

1. '\*' – One (1) Set means items for one (1) no. complete tension/ suspension, DC/MC tower.
2. ETC of OPGW (including accessories) shall be done by the contractor under the supervision of Original Equipment Manufacturer (OEM).
3. The quantities mentioned in the BOQ are tentative and Quantity of any item may vary upto any extent but the overall contract value may vary by +- 30%.
4. 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 Patratu site before submission of bid.**
5. **The work is to be executed inside/nearby charged area of switchyard and transmission line. All necessary safety precaution are to be taken care by the subcontractor.**
6. Make of items and their sources to be supplied/used under this contract shall be subject to acceptance by customer/BHEL at contract stage.
7. Handling, storage, transportation, loading, unloading, shifting etc. of all materials to required locations shall be in the scope of the bidder.
8. Bidder may note that owner (NTPC/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.
9. MS welding - apply red lead paint then aluminium paint then bitumen after welding.
10. GI welding - apply 2 coats of cold galvanising anti corrosive paint after welding.
11. 10% welding joints in earthing shall be tested for dye penetration test.
12. Quoted rates are deemed to be inclusive of miscellaneous works, viz.. erection of clamps and connectors, phase colour discs/phase marking on structure etc.
13. Right of Way and most of the tree cutting shall be arranged by customer. However Site Clearance, small/unmarked tree cutting, vegetation removal required for the completion of work are included in the bidder's scope.
14. Complete earthing of all towers shall be as per approved drawings (Scope includes complete work including testing to show that the tower resistance meets the acceptable limits.)
15. **For scope of supply items in contractor scope following should be followed** .
  - (1)The approval of makes shall be obtained from BHEL/Customer .
  - (2)Drawings and MQP shall be submitted for approval in line with specification and relevant IS.
  - (3) Quality -Inspection & dispatch clearance shall be given by BHEL/Customer.
16. All dismantled material including structure, equipments, cables, conductor, stringing hardware etc are to be shifted to customer store within plant boundary as per instruction of Engineer-In-charge.