

# **TENDER SPECIFICATION**

**BHEL/PSSR/USTPP/SCT&P/SCT/286**

**for**

**Plantation of Tree Saplings over 120  
Hectares in Green Belt Zone and  
maintenance for 6 months  
(Package A & B) at  
2 X 660 MW Udangudi STPP**

**VOLUME –II**

**PRICE BID**



**BHARAT HEAVY ELECTRICALS LIMITED**

(A Government of India Undertaking)

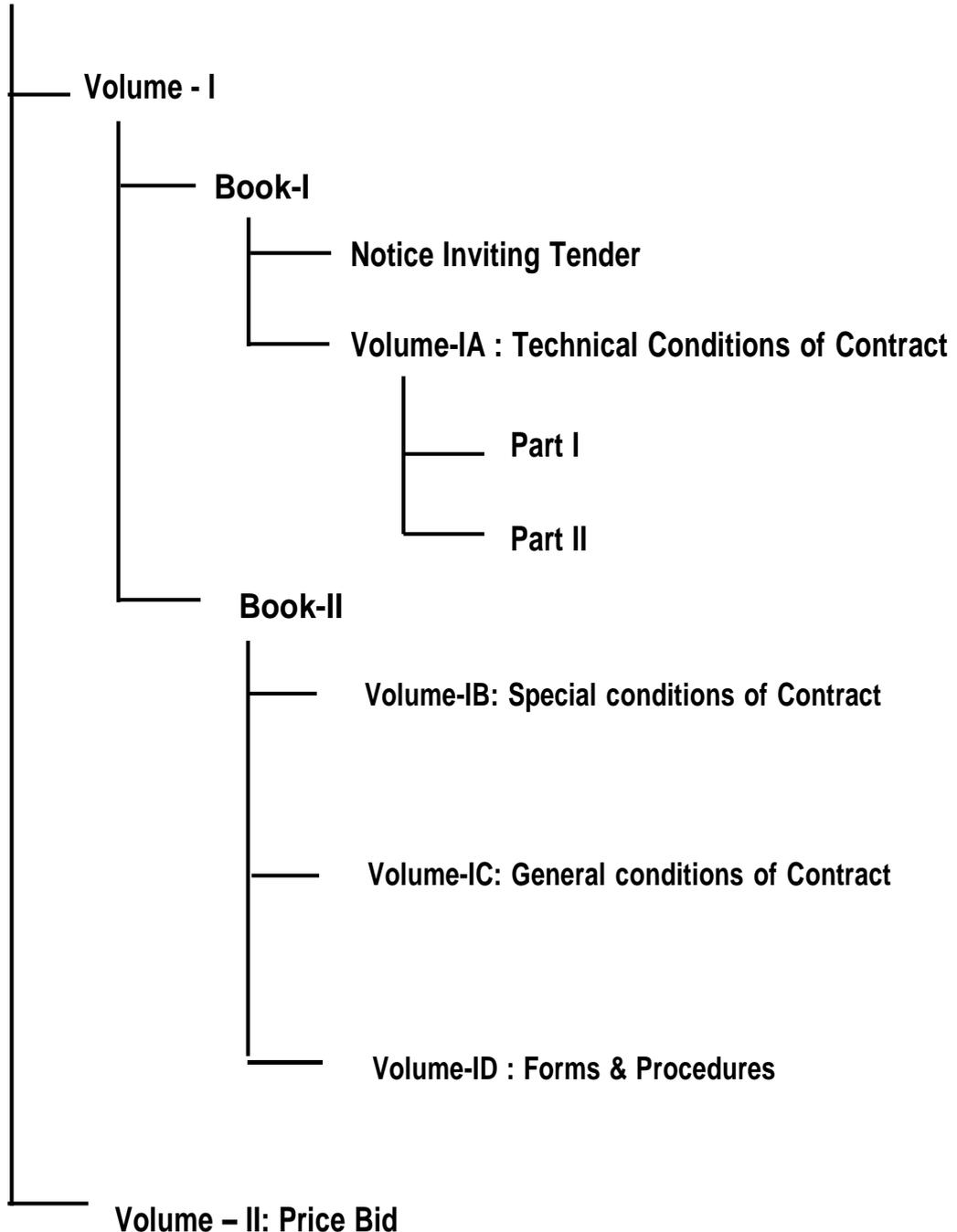
Power Sector – Southern Region

BHEL site office, 2X660 MW Udangudi STPP,

Kallamozhi, Tiruchendur-628206

**TENDER SPECIFICATION CONSISTS OF**

Tender Specification



## PRICE BID

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**PART A**

**Instruction to Bidders:**

1. The quantity indicated in the BOQ in Part C of Price Bid is approximate only and is liable for variation. Payment will be as per actual quantity executed and as certified by BHEL Engineer.
2. Tenderers are requested to affix their company seal and authorized signature in all pages.
3. Bidders shall quote '**Total Amount for Package-A**' in the format enclosed as a separate ExcelFile in BHEL NIC e-Procurement portal for the subject tender and upload the same under 'Packet details - > Tender covers -> Finance '(Cover Type Description – Price Bid)'' and same shall be taken into account for evaluation and awarding and hence, shall be complete in all respect for the full scope of work defined in specification and in accordance with terms & conditions of the tender. Any other entry elsewhere in the price bid shall be treated as Null and Void. Quoting of rates in any other form/formats will not be entertained.
4. The above mentioned 'Total amount for Package-A' is for the entire Bill of Quantity (BOQ) for Package-A given in Part -C of the Price Bid.
5. BHEL has pre-fixed the weightages for the amount of individual items of Bill of Quantity with respect to the 'Total Amount' in Part C of Price Bid.
6. Based on the pre-fixed weightages, the amount for the individual items of the Bill of Quantity shall be arrived at. This amount shall be rounded off to the nearest rupee.
7. Based on the quantities of individual item and the amount arrived in Sl. No: 6 above, unit rate of individual items shall be derived. This unit rate shall be rounded off to four decimal places.
8. Bidders to note that this is an item rate contract. Payment shall be made for the actual quantities of work executed as certified by BHEL Engineer.
9. Bidders to refer Clause 35 - Mode of Award of Notice Inviting Tender (NIT).

**Part C : Bill of Quantities****Tender Specification BHEL/PSSR/USTPP/SCT&P/SCT/286  
for Plantation of Tree Saplings in Green Belt Zone and maintenance for 6 months (Package A) at  
2 X 660 MW Udangudi STPP**

Ref.No.	Description	Unit of Measurement	Quantity	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
<b>PACKAGE-A</b>				
1	Supplying and stacking of good earth(Red earth) at site including royalty (earth measured in stacks will be reduced by 20% for payment)	Cum	9,000	0.1414939
2	Supplying and stacking of composted, odourless sludge at site including royalty (sludge measured in stacks will be reduced by 8% for payment).	Cum	6,000	0.0537875
3	Supplying and stacking of well decayed cattle manure at site including royalty (Cattle manure measured in stacks will reduced by 8% for Payment).	Cum	4,800	0.0362241
4	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge	Cum	18,000	0.0200602
5	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any, with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately)- <i>for Holes 45 cm dia, and 45 cm deep</i>	Each	60,000	0.0244118
6	Providing and watering of irrigation water through water tanker of Horticulture features i.e. lawn, tree, shrubs, hedge/edge, ground cover etc. at the site of work. Water tanker having 5000 lit. capacity with one labour for watering i/c cost of water, filling of tanker, watering at site with all leads and lifts as per direction of officer-in-charge.	Per Trip	8,400	0.2389571
7	Plantation of Trees, Shrubs, and Hedge at site i/c watering and removal of unserviceable material's as per direction of officer in charge (excluding cast of plant & water):- <i>for Trees Plant</i>	Each	60,000	0.0133553

**Part C : Bill of Quantities**

**Tender Specification BHEL/PSSR/USTPP/SCT&P/SCT/286  
for Plantation of Tree Saplings in Green Belt Zone and maintenance for 6 months (Package A) at  
2 X 660 MW Udangudi STPP**

<b>Ref.No.</b>	<b>Description</b>	<b>Unit of Measurement</b>	<b>Quantity</b>	<b>Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount</b>
<b>PACKAGE-A</b>				
8	Supply of Unskilled labour(Coolie) for horticultural maintenance purpose.	Per Day	900	0.0175727
9	Hire charges of Diesel Truck - 9 tonne including cost of services of operating staff, Cost of lubricating oil, diesel / Petrol/ Kerosene oil , other consumables for running the plant and machinery and excluding GST	Per Day	120	0.0140072
10	Supplying, Installation, Testing and Commissioning of ISI Marked open well submersible pump set contain with stainless steel shaft and cast iron/SS body, the pump shall be designed to prevent over loading and having dynamically balanced rotating parts etc. the pump capable of delivering following capacities discharge at suitable head and lowering the pumps in water bodies and suitable for operation on 415V(+/- 10%), 3-phase AC supply including providing required no's of heavy duty M.S clamps made of flat iron and suitable size top cover made of suitable thick MS sheet including connection, interconnection ,supports etc. as required.			
10(a)	suitable for 900 LPM at 25 Mtrs Head etc. complete as required. ( 7.5HP to 10HP)	Each	18	0.0175601
10(b)	suitable for 500 LPM at 25 Mtrs Head etc. complete as required. ( 5 HP )	Each	6	0.0047566
11	Earth work in stripping of top soil upto a maximum depth of 0.20m below ground level so as to exclude all debris, grass, vegetation, bushes, trees having girth upto 300 mm including roots and organic materials etc for. leveling and grading including dressing to specified levels & grades and compacting the graded/stripped surface by manual/mechanical means, disposal of stripped materials within a lead upto 1km etc all complete as per specification, drawing and as directed by the engineer-in-charge.	sqm	4,80,000	0.2026148
12	Carriage of Tree saplings in any size of polybag container from Nursery as identified by Engineer in charge-			

**Part C : Bill of Quantities**

**Tender Specification BHEL/PSSR/USTPP/SCT&P/SCT/286  
for Plantation of Tree Saplings in Green Belt Zone and maintenance for 6 months (Package A) at  
2 X 660 MW Udangudi STPP**

<b>Ref.No.</b>	<b>Description</b>	<b>Unit of Measurement</b>	<b>Quantity</b>	<b>Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount</b>
<b>PACKAGE-A</b>				
12(a)	Upto Vana Tirupathy - Kachanavilai DFO Nursery(appx 29 km from USTPP) (min 1,000 tree saplings to be carried in a single trip)	Per Loaded Trip	78	0.0147574
12(b)	for every additional km beyond 29 km range	Per addl km with loaded trip	120	0.0004772
13	Supply of Eucalyptus/Casuarina/Baboo ballies for prop supporting tree sapling less than 5 cm dia	Rm	1,20,000	0.0502185
14	Providing & fixing in position polyethylene (P.V.C.) water tank conforming as per IS12701 of Syntex or approved equivalent including making all necessary inlet & outlet pipes, fixture, ball cocks, valves etc all complete for following capacities			
14(a)	1,000 litres capacity	Nos	12	0.0021290
14(b)	2,000 litres capacity	Nos	12	0.0042580
14 (c )	10,000 litre capacity	Nos	6	0.0115667
14(d)	For Tank capacity exceeding 10,000 litre	per litre	28,800	0.0062418
15	Supplying, fabricating, erecting and installing following items in Ground/concrete/brickwall for all kind of works, including setting material in Earth, layout, excavation, scaffolding, cutting, forming, grinding, drilling, bolting, welding, jointing, testing etc. all complete. For PVC pipes / conduits of all diameters	Kg	900	0.0094614
16	Complete maintenance of trees (out side garden features) jobs like making of basin at regular interval i/c watering, weeding, pruning & application of fertilizer, insecticide, fungicide etc. (including the cost of material and other T & P material/articles which shall be provided by the	Per Plant/ Per Month	60,000	0.1160887

**Part C : Bill of Quantities**

**Tender Specification BHEL/PSSR/USTPP/SCT&P/SCT/286  
for Plantation of Tree Saplings in Green Belt Zone and maintenance for 6 months (Package A) at  
2 X 660 MW Udangudi STPP**

<b>Ref.No.</b>	<b>Description</b>	<b>Unit of Measurement</b>	<b>Quantity</b>	<b>Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount</b>
<b>PACKAGE-A</b>				
	contractor) as per direction of officer-in-charge for Trees upto 3 years of age (Fertilizer & Insecticide/fungicide is in Contrator's scope.)			
<b>TOTAL Weightage</b>				<b>1.0000000</b>

**SIGNATURE OF BIDDER WITH SEAL**