

# **TENDER SPECIFICATION BHEL: PSSR: SCT: 1939**

**FOR**

**Civil works to carryout Ground Improvement Compaction Piles  
through Vibro-displacement method in various structures of  
CHP & AHP, including supply of all Materials, Labour, Tools &  
Plants**

**at**

**2 x 660 MW Ennore SEZ STPP, Tamil Nadu**

## **VOLUME -II PRICE BID**

**TECHNOCOMMERCIAL BID - Consists of Book- I & Book- II**

**Book- I Consists of**

- Notice Inviting Tender
- Volume-IA: Technical Conditions of Contract

**Book-II consists of**

- Volume-IB: Special conditions of Contract,  
Rev 01 dated 1st June 2012  
Amendment 01 dated 1st October, 2015
- Volume-IC: General conditions of Contract  
Rev 01 dated 1st June 2012,  
Amendment 03 dated 1st October, 2015
- Volume-ID: Forms & Procedures  
Rev 01 dated 1st June 2012  
Amendment 01 dt 1st October, 2015



**BHARAT HEAVY ELECTRICALS LIMITED**

(A Government of India Undertaking)

Power Sector – Southern Region

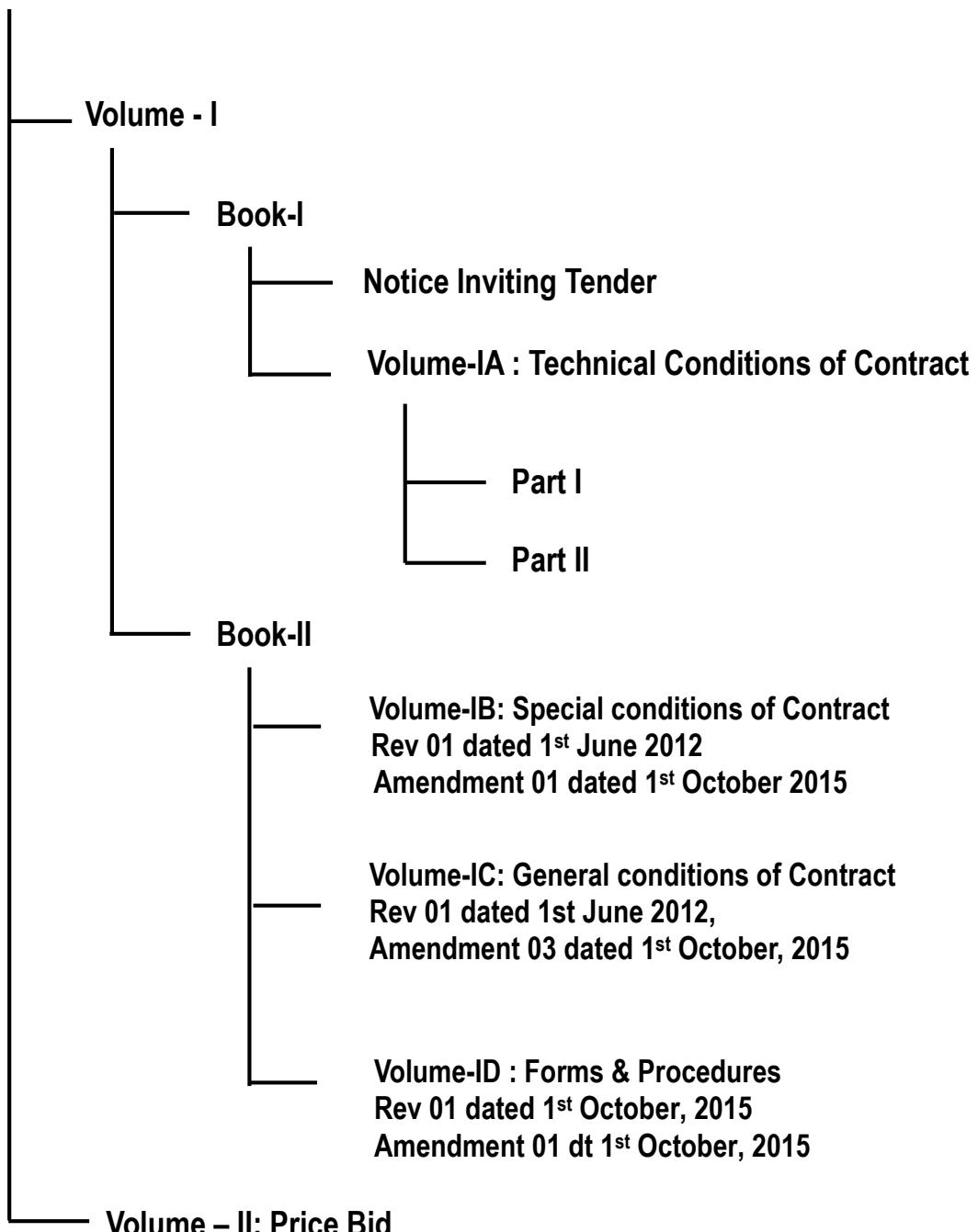
Tek Towers, No. 11, Old Mahabalipuram Road  
Okkiyam Thoraipakkam, Chennai - 600097

# PRICE BID

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## TENDER SPECIFICATION CONSISTS OF

### Tender Specification



# PRICE BID

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# PRICE BID

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## **PART-A-INSTRUCTIONS TO BIDDERS:**

### **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' in the format enclosed as a separate Excel File 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' is for the entire Bill of Quantity (BOQ) 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 at the unit rate arrived at as per Sl No.7 above.
9. The quantities given in the contract are tentative and may change to any extent (both in plus side and minus side). The derived item rates (as mentioned above) for individual items shall remain firm irrespective of any variations in the individual quantities. No compensation becomes payable in case the variation of the final executed contract value is within the limit of Minus (-) 30% of awarded contract value

**Part C : Bill of Quantities**

**Tender Specification BHEL:PSSR:SCT:1939 for Ground Improvement Piling through Vibro Displacement method  
at 2 X 660 MW Ennore SEZ Supercritical Thermal Power Project at Ash Dyke of NCTPS**

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
3000.0	Ground Improvement	--		
3003.0	Mobilisation of ground improvement rigs and accessories capable of installing stone columns by vibro-displacement method (dry method) using vibro float/vibro cat/any other suitable means (applicable for ST No.3004) in all types of strata/ash etc to the project site and demobilisation of the same after completion of works etc all complete.	Each	4	.0041547
3004.0	Providing and installing 550 mm diameter and 14 m deep stone column by vibro-displacement method (dry method) using vibro float/vibro cat/any other suitable means and filling in layers of 800 mm using 1 sand : 2 stone aggregates and each layer be well compacted by vibro compaction method including all materials, equipments etc complete as per specification, drawing and as directed by the engineer-in-charge. This procedure shall be repeated for each layer of fill till the ground level is reached for ground improvement of pond ash/soil deposit at desired location.	Each	12,000	1.024615
3006.0	Rebate on ST No 3004 for not providing 1 sand : 2 stone aggregates to a depth of 2m below ground level.	Cum	5,699	-.0464885
3008.0	Extra over ST. No. 3004 for stone column with vibro-displacement method (dry method) of length beyond the specified depth of 14m.	RM	12,000	.0544566
3010.0	Rebate on ST No.3004 for stone column with vibro-displacement method (dry method) of length less than the specified depth of 14m.	RM	12,000	-.0489435
3020.0	Conducting plate load tests for checking safe bearing capacity of soil in various structures / building in accordance with relevant IS code including necessary excavation, backfilling, providing all arrangements for loading,unloading,test equipments/accessories,jacks,recording of results,labour, preparation and submission (in 04 copies) of load test reports etc all complete as per specification,drawing and as directed by the engineer-in- charge .	Each	30	.0110434

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
2507.0	Conducting initial load test up to a maximum test load of 3 times the safe load capacity on single pile as specified in accordance with IS 2911 (Part-4) including preparation of pile head for testing, necessary excavation, all arrangements of loading, unloading, test equipment/ accessories, jacks, recording of results, labour, submission of test report but excluding the cost of installation of pile etc., all completeÂ as per specification, drawing and as directed by engineer in-charge for the following.Â	--		
a	For vertical compression test by cyclic load method	--		
iii	600 mm diameter pile	Each	1	.0006965
b	For lateral load test	--		
iii	600 mm diameter pile	Each	1	.0001741
c	For tension/uplift test	--		
iii	600 mm diameter pile	Each	1	.0002786
A2602	Clearing jungle including uprooting of rank vegetation, grass, brushwood, trees and saplings of girth upto 30 cm measured at a height of 1m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	SQM	200	.0000129
<b>TOTAL Weightage</b>				1.0