

**TENDER  
SPECIFICATION  
BHEL PSSR SCT 2264**

**FOR**

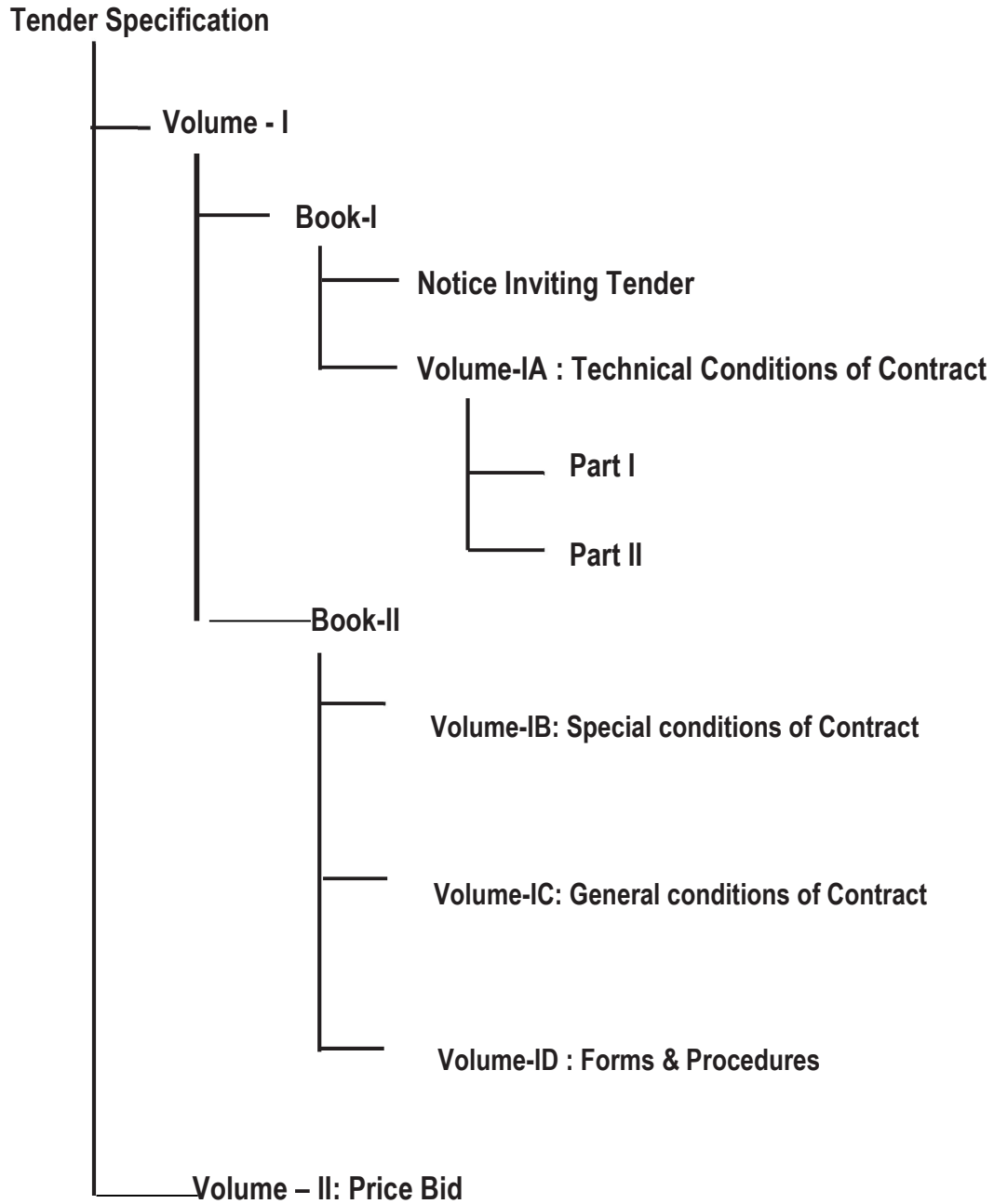
**Cooling Water (CW) piping and associated works including cement mortar lining / painting at 2x700 MWe Kaiga Atomic Power Project Unit#5&6, Uttara Kannada District, Karnataka.**

**PRICEBID  
VOLUME -II**



**BHARAT HEAVY ELECTRICALS LIMITED**  
(A Government of India Undertaking)  
Power Sector – Southern Region  
BHEL Integrated Office Complex, TNEB Road  
Pallikaranai, Chennai -600100

**TENDER SPECIFICATION CONSISTS OF**



## PRICE BID

---

| CONTENTS   |                       |
|--|-----------------------|
| Description  | No. of pages          |
| Part A : Instructions to the Bidders   | 01                    |
| Part B : Format for total amount (Enclosed as a separate Excel File in BHEL NIC e-Procurement portal for the subject tender) | (Separate Excel File) |
| Part C: Bill of quantities with weightage for amount of each items with respect to the total quoted price                    | 02                    |

## PRICE BID

---

### **PART A**

#### **Instruction to Bidders:**

1. Bidders shall only quote “Total Lumpsum amount” in the format given in the price bid. The “Total Lumpsum amount” is for the entire scope of work. Payment will be as per actual quantity executed 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.
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 SI 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 SI No.7 above.

**Part C : Bill of Quantities**

**Tender Specification for Cooling Water (CW) piping and associated works including cement mortar lining / painting at 2x700 MWe Kaiga Atomic Power Project Unit#5&6, Uttara Kannada District, Karnataka.**

**at 2 X 700 MWe Kaiga Atomic Power Project # 5 & 6 - Turbine Island Package**

| 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 |
|---------|--|---------------------|-------|--|
| A       | CW Piping works: Pre-assembly, erection, welding, NDT, Hydro testing, and commissioning of Cooling Water (CW) piping and all associated system piping and painting as applicable, handling of materials at BHEL/Clients stores/storage yard and transportation to the site of work at 2x700 MWe Kaiga Atomic Power Project Units 5 & 6, Uttara Kannada District, Karnataka as per the tender specification & conditions. | --                  |       |  |
| A1      | Pipe OD5100 x 25 - IS3589 Fe410 from IS2002 GR.2 PLATES<br>PIPE LENGTH: 2.5 MTR (Approx)   | MT                  | 1,000 | .2297817   |
| A2      | Fittings of NB5100-IS2002 GR.2 / SA515GR70 (UEQT NB5100/NB1800- 24 Nos, UEQT NB5100/1200- 02 No, MANHOLE ASSY NB5100/NB2300/NB1000-04 Nos, MANHOLE ASSY NB5100/NB1000- 04 Nos, MAN HOLE ACCESS SHAFT ASSY NB5100/NB2350-04Nos, Dished End NB5100-04Nos, etc.   | MT                  | 650   | .1791424   |
| A3      | Pipes OD1829x14-IS3589 Fe410 from IS2002 GR.2 PLATES   | MT                  | 610   | .1418243   |
| A4      | 1800 NB Pipe Fittings, MITRE BENDS, UEQTS, MAN HOLE ASSY, SADDLE SUPPORTS, PUDDLE FLANGES, SLEEVE PIPE, BUTTERFLY VALVES, EXPANSION JOINTS, NOZZLE, SUPPORTS, AIR RELIEF VALVES, DRAIN PIPES & VALVES ETC  | MT                  | 380   | .1094667   |
| B       | CW Piping Works: Supply and application of cement mortar lining, handling of materials at BHEL/Clients stores/storage yard and transportation to the site of work at 2x700 MWe Kaiga Atomic Power Project Units 5 & 6, Uttara Kannada District, Karnataka as per the tender specification & conditions.  | --                  |       |  |
| B1      | Cement Mortar Lining of 25 mm thickness on Inner Surface of NB 5100 Pipe & Fittings  | Sq.Mtr              | 7,500 | .1216282   |
| B2      | Cement Mortar Lining of 50 mm thickness on outer Surface of NB 5100 Pipe & Fittings  | Sq.Mtr              | 7,600 | .1557851   |
| B3      | Cement Mortar Lining of 50 mm thickness on outer Surface of NB 1800 Pipe & Fittings  | Sq.Mtr              | 3,000 | .0623715   |

**Part C : Bill of Quantities**

**Tender Specification for Cooling Water (CW) piping and associated works including cement mortar lining / painting at 2x700 MWe Kaiga Atomic Power Project Unit#5&6, Uttara Kannada District, Karnataka.**

**at 2 X 700 MWe Kaiga Atomic Power Project # 5 & 6 - Turbine Island Package**

| <b>Ref.No.</b>         | <b>Description</b> | <b>Unit of Measurement</b> | <b>Qty.</b> | <b>Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount</b> |
|------------------------|--------------------|----------------------------|-------------|---|
| <b>TOTAL Weightage</b> |                    |                            |             | 1.0   |